

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**WASHINGTON, D.C. 20549**  
**FORM 20-F**

**REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934**

Or

**ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal year ended December 31, 2020

Or

**TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

Or

**SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

Date of event requiring this shell company report \_\_\_\_\_

For the transition period from N/A to N/A

Commission file number: 001-14930

**HSBC Holdings plc**

(Exact name of Registrant as specified in its charter)

N/A

United Kingdom

(Translation of Registrant's name into English)

(Jurisdiction of incorporation or organisation)

8 Canada Square

London E14 5HQ

United Kingdom

(Address of principal executive offices)

Jonathan Bingham

8 Canada Square

London E14 5HQ

United Kingdom

Tel +44 (0) 20 7991 8888

Fax +44 (0) 20 7992 4880

(Name, Telephone, Email and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Ordinary Shares, nominal value US\$0.50 each (GB0005405286)	HSBA	London Stock Exchange
	5	Hong Kong Stock Exchange
	HSBC.BH	Bermuda Stock Exchange
	HSBC	New York Stock Exchange *
American Depository Shares, each representing 5 Ordinary Shares of nominal value US\$0.50 each (US4042804066)	HSBC	New York Stock Exchange

7.625% Subordinated Notes due 2032 (US404280AF65)	HSBC/32A	New York Stock Exchange
7.35% Subordinated Notes due 2032 (US404280AE90)	HSBC/32B	New York Stock Exchange
6.5% Subordinated Notes 2036 (US404280AG49)	HSBC36	New York Stock Exchange
6.5% Subordinated Notes 2037 (US404280AH22)	HSBC37	New York Stock Exchange
6.8% Subordinated Notes Due 2038 (US404280AJ87)	HSBC38	New York Stock Exchange
5.10% Senior Unsecured Notes Due 2021 (US404280AK50)	HSBC21	New York Stock Exchange
4.875% Senior Unsecured Notes Due 2022 (US404280AL34)	HSBC22	New York Stock Exchange
6.100% Senior Unsecured Notes due 2042 (US404280AM17)	HSBC42	New York Stock Exchange
4.00% Senior Unsecured Notes Due 2022 (US404280AN99)	HSBC22A	New York Stock Exchange
4.250% Subordinated Notes due 2024 (US404280AP48)	HSBC24	New York Stock Exchange
5.250% Subordinated Notes due 2044 (US404280AQ21)	HSBC44	New York Stock Exchange
4.250% Subordinated Notes due 2025 (US404280AU33)	HSBC25	New York Stock Exchange
3.400% Senior Unsecured Notes due 2021 (US404280AV16)	HSBC21A	New York Stock Exchange
4.300% Senior Unsecured Notes due 2026 (US404280AW98)	HSBC26	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2021 (US404280AX71)	HSBC21B	New York Stock Exchange
2.950% Senior Unsecured Notes due 2021 (US404280AY54)	HSBC21C	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2021 (US404280AZ20)	HSBC21D	New York Stock Exchange
3.600% Senior Unsecured Notes due 2023 (US404280BA69)	HSBC23	New York Stock Exchange
3.900% Senior Unsecured Notes due 2026 (US404280BB43)	HSBC26A	New York Stock Exchange
2.650% Senior Unsecured Notes due 2022 (US404280BF56)	HSBC22B	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2022 (US404280BG30)	HSBC22C	New York Stock Exchange
4.375% Subordinated Notes due 2026 (US404280BH13)	HSBC26B	New York Stock Exchange
3.262% Fixed Rate/Floating Rate Senior Unsecured Notes due 2023 (US404280BJ78)	HSBC23A	New York Stock Exchange
4.041% Fixed Rate/Floating Rate Senior Unsecured Notes due 2028 (US404280BK42)	HSBC28	New York Stock Exchange
3.033% Fixed Rate/Floating Rate Senior Unsecured Notes due 2023 (US404280BM08)	HSBC23B	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2024 (US404280BR94)	HSBC24A	New York Stock Exchange
3.950% Fixed Rate/Floating Rate Senior Unsecured Notes due 2024 (US404280BS77)	HSBC24B	New York Stock Exchange
4.583% Fixed Rate/Floating Rate Senior Unsecured Notes due 2029 (US404280BT50)	HSBC29	New York Stock Exchange
2.175% Resettable Senior Unsecured Notes due 2023 (XS1823595647)	N/A	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2026 (US404280BW89)	HSBC26D	New York Stock Exchange
4.292% Fixed Rate/Floating Rate Senior Unsecured Notes due 2026 (US404280BX62)	HSBC26C	New York Stock Exchange

3.803% Fixed Rate/Floating Rate Senior Unsecured Notes due 2025 (US404280BZ11)	HSBC25A	New York Stock Exchange
Floating Rate Senior Unsecured Notes due 2025 (US404280CA50)	HSBC25B	New York Stock Exchange
3.000% Resettable Senior Unsecured Notes due 2028 (XS1961843171)	HSBC28A	New York Stock Exchange
3.973% Fixed Rate/Floating Rate Senior Unsecured Notes due 2030 (US404280CC17)	HSBC30	New York Stock Exchange
3.00% Resettable Senior Unsecured Notes due 2030 (XS2003500142)	HSBC30A	New York Stock Exchange
2.633% Fixed Rate/Floating Rate Senior Unsecured Notes due 2025 (US404280CE72)	HSBC25C	New York Stock Exchange
4.950% Fixed Rate Senior Unsecured Notes due 2030 (US404280CF48)	HSBC30B	New York Stock Exchange
2.099% Fixed Rate/Floating Rate Senior Unsecured Notes due 2026 (US404280CG21)	HSBC26E	New York Stock Exchange
2.848% Fixed Rate/Floating Rate Senior Unsecured Notes due 2031 (US404280CH04)	HSBC31	New York Stock Exchange
1.645% Fixed Rate/Floating Rate Senior Unsecured Notes due 2026 (US404280CJ69)	HSBC26F	New York Stock Exchange
2.357% Fixed Rate/Floating Rate Senior Unsecured Notes due 2031 (US404280CK33)	HSBC31A	New York Stock Exchange
2.013% Fixed Rate/Floating Rate Senior Unsecured Notes due 2028 (US404280CL16)	HSBC28B	New York Stock Exchange
1.589% Fixed Rate/Floating Rate Senior Unsecured Notes due 2027 (US404280CM98)	HSBC27	New York Stock Exchange

\* Not for trading, but only in connection with the registration of American Depositary Shares.

Securities registered or to be registered pursuant to Section 12(g) of the Securities Exchange Act of 1934: **None**

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Securities Exchange Act of 1934: **None**

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report:

Ordinary Shares, nominal value US\$0.50 each **20,693,676,408**

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.  **Yes**  **No**

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934.  **Yes**  **No**

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.  **Yes**  **No**

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).  **Yes**  **No**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or an emerging growth company. See definition of "large accelerated filer," "accelerated filer," and "emerging growth company" in Rule 12b-2 of the Exchange Act.:

Large accelerated filer  Accelerated filer  Non-accelerated filer  Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards† provided pursuant to Section 13(a) of the Exchange Act.

† The term "new or revised financial accounting standard" refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP  International Financial Reporting Standards  Other   
as issued by the International Accounting Standards Board

If "Other" has been checked in response to the previous question indicate by check mark which financial statement item the registrant has elected to follow.  Item 17  Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).  Yes  No

---

---



---

# Contents

## Strategic report

- 1a Forward-looking statements
- 1b Approach to ESG reporting
- 1b Certain defined terms
- 2 Highlights
- 4 Who we are
- 6 Group Chairman's statement
- 8 Group Chief Executive's review
- 12 Our strategy
- 16 How we do business
- 25 Remuneration
- 26 Financial overview
- 30 Global businesses
- 37 Risk overview

## Environmental, social and governance review

- 43 Our approach to ESG
- 44 Climate
- 52 Customers
- 62 Employees
- 70 Governance

## Financial review

- 77 Financial summary
- 99 Global businesses and geographical regions
- 119 Reconciliation of alternative performance measures
- 121 Other information

## Risk review

- 132 Our approach to risk
- 135 Risk elements in the loan portfolio
- 140 Top and emerging risks
- 146 Risk factors
- 157 Areas of special interest
- 160 Our material banking risks

## Corporate governance report

- 238 Group Chairman's governance statement
- 240 Biographies of Directors and senior management
- 255 Board committees
- 271 Directors' remuneration report

## Financial statements

- 311 Report of Independent Registered Public Accounting Firm to the Board of Directors and Shareholders of HSBC Holdings plc
- 314 Financial statements
- 324 Notes on the financial statements

## Additional information

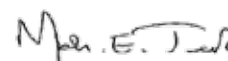
- 406 Shareholder information
- 416 Abbreviations

### We have changed how we are reporting this year

We have changed our *Annual Report and Accounts* to embed the content previously provided in our *Environmental, Social and Governance Update*, demonstrating that how we do business is as important as what we do.

---

This *Strategic Report* was approved by the Board on 23 February 2021.



**Mark E Tucker**  
Group Chairman

### A reminder

The currency we report in is US dollars.

### Adjusted measures

We supplement our IFRS figures with non-IFRS measures used by management internally that constitute alternative performance measures under European Securities and Markets Authority guidance and non-GAAP financial measures defined in and presented in accordance with US Securities and Exchange Commission rules and regulations. These measures are highlighted with the following symbol: 

 Further explanation may be found on page 28.

None of the websites referred to in this *Form 20-F* for the year ended 31 December 2020 (the 'Form 20-F') (including where a link is provided), and none of the information contained on such websites, are incorporated by reference in this report.



### Cover image: Opening up a world of opportunity

We connect people, ideas and capital across the world, opening up opportunities for our customers and the communities we serve.

# Opening up a world of opportunity

Our ambition is to be the preferred international financial partner for our clients.

We have refined our purpose, ambition and values to reflect our strategy and to support our focus on execution.

▶ Read more on our values, strategy and purpose on pages 4, 12 and 16.

## Key themes of 2020

The Group has been – and continues to be – impacted by developments in the external environment, including:



### Covid-19

The Covid-19 outbreak has significantly affected the global economic environment and outlook, resulting in adverse impacts on financial performance, downward credit migration and muted demand for lending.

▶ Read more on page 38.



### Market factors

Interest rate reductions and market volatility impacted financial performance during 2020. We expect low global interest rates to provide a headwind to improved profitability and returns.

▶ Read more on page 26.



### Geopolitical risk

Levels of geopolitical risk increased with heightened US-China tensions and the UK's trade negotiations with the EU notably impacting business and investor sentiment. We continue to monitor developments closely.

▶ Read more on page 38.

## Progress in key areas

The Group continued to make progress in areas of strategic focus during 2020, including:



### Supporting customers

We continued to support our customers during the Covid-19 outbreak, providing relief to wholesale and retail customers through both market-wide schemes and HSBC-specific measures.

▶ Read more on page 17.



### Strategic progress

We made good progress with our transformation programme in 2020. We have now set out the next phase of our strategic plan.

▶ Read more on page 12.



### Climate

In October 2020, we set out an ambitious plan to prioritise sustainable finance and investment that supports the global transition to a net zero carbon economy.

▶ Read more on page 15.

## Financial performance

### Reported profit after tax

**\$6.1bn**

(2019: \$8.7bn)

### Basic earnings per share

**\$0.19**

(2019: \$0.30)

### Common equity tier 1 capital ratio

**15.9%**

(2019: 14.7%)

▶ Read more on our financial overview on page 26.

## Non-financial highlights

### Gender diversity

**30.3%**

Women in senior leadership roles. (2019: 29.4%)

### Customer satisfaction

**7 out of 8**

Wealth and Personal Banking markets sustained top-three rank and/or improved in customer satisfaction.

▶ Read more on how we set and define our environmental, social and governance ('ESG') metrics on page 18.

### Sustainable finance and investment

**\$93.0bn**

Cumulative total provided and facilitated since 2017. (2019: \$52.4bn)

**5 out of 8**

Commercial Banking markets sustained top-three rank and/or improved in customer satisfaction.

### Cautionary statement regarding forward-looking statements

This Form 20-F contains certain forward-looking statements with respect to HSBC's financial condition; results of operations and business, including the strategic priorities; 2021 financial, investment and capital targets; and ESG targets/commitments described herein.

Statements that are not historical facts, including statements about HSBC's beliefs and expectations, are forward-looking statements. Words such as 'will', 'should', 'expects', 'targets', 'anticipates', 'intends', 'plans', 'believes', 'seeks', 'estimates', 'potential' and 'reasonably possible', variations of these words and similar expressions are intended to identify forward-looking statements. These statements are based on current plans, information, data, estimates and projections, and therefore undue reliance should not be placed on them. Forward-looking statements speak only as of the date they are made. HSBC makes no commitment to revise or update any forward-looking statements to reflect events or circumstances occurring or existing after the date of any forward-looking statements.

Written and/or oral forward-looking statements may also be made in the periodic reports to the US Securities and Exchange Commission, summary financial statements to shareholders, proxy statements, offering circulars and prospectuses, press releases and other written materials, and in oral statements made by HSBC's Directors, officers or employees to third parties, including financial analysts.

Forward-looking statements involve inherent risks and uncertainties. Readers are cautioned that a number of factors could cause actual results to differ, in some instances materially, from those anticipated or implied in any forward-looking statement. These include, but are not limited to:

- changes in general economic conditions in the markets in which we operate, such as continuing or deepening recessions and fluctuations in employment and creditworthy customers beyond those factored into consensus forecasts (including, without limitation, as a result of the Covid-19 pandemic); the Covid-19 pandemic, which is expected to continue to have adverse impacts on our income due to lower lending and transaction volumes, lower wealth and insurance manufacturing revenue, and lower or negative interest rates in markets where we operate, as well as, more generally, the potential for material adverse impacts on our financial condition, results of operations, prospects, liquidity, capital position and credit ratings; deviations from the market and economic assumptions that form the basis for our ECL measurements (including, without limitation, as a result of the Covid-19 pandemic or the UK's exit from the EU); potential changes in dividend policy; changes in foreign exchange rates and interest rates, including the accounting impact resulting from financial reporting in respect of hyperinflationary economies; volatility in equity markets; lack of liquidity in wholesale funding

or capital markets, which may affect our ability to meet our obligations under financing facilities or to fund new loans, investments and businesses; geopolitical tensions or diplomatic developments producing social instability or legal uncertainty, such as the unrest in Hong Kong, the continuing US-China tensions and the emerging challenges in UK-China relations, which in turn may affect demand for our products and services and could result in (among other things) regulatory, reputational and market risks for HSBC; the efficacy of government, customer, and HSBC's actions in managing and mitigating climate change and in supporting the global transition to net zero carbon emissions, which may cause both idiosyncratic and systemic risks resulting in potential financial and non-financial impacts; illiquidity and downward price pressure in national real estate markets; adverse changes in central banks' policies with respect to the provision of liquidity support to financial markets; heightened market concerns over sovereign creditworthiness in over-indebted countries; adverse changes in the funding status of public or private defined benefit pensions; societal shifts in customer financing and investment needs, including consumer perception as to the continuing availability of credit; exposure to counterparty risk, including third parties using us as a conduit for illegal activities without our knowledge; the expected discontinuation of certain key lbors and the development of near risk-free benchmark rates, which may require us to enhance our capital position and/or position additional capital in specific subsidiaries; and price competition in the market segments we serve;

- changes in government policy and regulation, including the monetary, interest rate and other policies of central banks and other regulatory authorities in the principal markets in which we operate and the consequences thereof (including, without limitation, actions taken as a result of the Covid-19 pandemic); initiatives to change the size, scope of activities and interconnectedness of financial institutions in connection with the implementation of stricter regulation of financial institutions in key markets worldwide; revised capital and liquidity benchmarks, which could serve to deleverage bank balance sheets and lower returns available from the current business model and portfolio mix; imposition of levies or taxes designed to change business mix and risk appetite; the practices, pricing or responsibilities of financial institutions serving their consumer markets; expropriation, nationalisation, confiscation of assets and changes in legislation relating to foreign ownership; the UK's exit from the EU, which may result in a prolonged period of uncertainty, unstable economic conditions and market volatility, including currency fluctuations; passage of the Hong Kong national security law and restrictions on telecommunications, as well as the US Hong Kong Autonomy Act, which have caused tensions between China, the US and the UK; general changes in government policy that may significantly influence investor decisions; the costs, effects and outcomes of regulatory

reviews, actions or litigation, including any additional compliance requirements; and the effects of competition in the markets where we operate including increased competition from non-bank financial services companies; and

- factors specific to HSBC, including our success in adequately identifying the risks we face, such as the incidence of loan losses or delinquency, and managing those risks (through account management, hedging and other techniques); our ability to achieve our financial, investment, capital and ESG targets/commitments, which may result in our failure to achieve any of the expected benefits of our strategic priorities; model limitations or failure, including, without limitation, the impact that the consequences of the Covid-19 pandemic have had on the performance and usage of financial models, which may require us to hold additional capital, incur losses and/or use compensating controls, such as overlays and overrides, to address model limitations; changes to the judgements, estimates and assumptions we base our financial statements on; changes in our ability to meet the requirements of regulatory stress tests; a reduction in the credit ratings assigned to us or any of our subsidiaries, which could increase the cost or decrease the availability of our funding and affect our liquidity position and net interest margin; changes to the reliability and security of our data management, data privacy, information and technology infrastructure, including threats from cyber-attacks, which may impact our ability to service clients and may result in financial loss, business disruption and/or loss of customer services and data; changes in insurance customer behaviour and insurance claim rates; our dependence on loan payments and dividends from subsidiaries to meet our obligations; changes in accounting standards, which may have a material impact on the way we prepare our financial statements; changes in our ability to manage third-party, fraud and reputational risks inherent in our operations; employee misconduct, which may result in regulatory sanctions and/or reputational or financial harm; changes in skill requirements, ways of working and talent shortages, which may affect our ability to recruit and retain senior management and diverse and skilled personnel; and changes in our ability to develop sustainable finance products and our capacity to measure the climate impact from our financing activity, which may affect our ability to achieve our climate ambition. Effective risk management depends on, among other things, our ability through stress testing and other techniques to prepare for events that cannot be captured by the statistical models it uses; and our success in addressing operational, legal and regulatory, and litigation challenges; and other risks and uncertainties we identify in 'Top and emerging risks' on pages 140 to 157.



## Approach to ESG reporting

The information set out in the ESG review on pages 42 to 75, taken together with other information relating to ESG issues, aims to provide key ESG information and data relevant to our operations for the year ended 31 December 2020. In this context, we have also considered our obligations under the Environmental, Social and Governance Reporting Guide contained in Appendix 27 to The Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited ('ESG Guide'). We comply with the 'comply or explain' provisions in the ESG Guide, save with respect to the following:

- A1(b) on emissions laws/regulations: we are fully compliant with our publication of information regarding scope 1 and 2 carbon emissions, but we only partially publish information on scope 3 carbon emissions, as the data required for that publication is not yet fully available. Our progress on publishing information with respect to scope 3 is referenced on page 45;
- A1.3 on total hazardous waste produced, A1.6 on the handling of hazardous and non-hazardous waste, A2.2 on water consumption and A2.5 on packaging material: taking into account the nature of our business, we do not consider these to be material issues for our stakeholders; and

- A2.1 on direct energy consumption: taking into account the nature of our business, we do not consider this to be a material issue for our stakeholders. We report on what we consider to be our most relevant operational sustainability KPIs as set out on page 47.

This is aligned with the materiality reporting principle that is set out in the ESG Guide. See 'How we decide what to measure' on page 43 for further information on how we determine what issues are material to our stakeholders.

We will continue to develop and refine our reporting and disclosures on ESG issues in line with feedback received from our investors and other stakeholders, and in view of our obligations under the ESG Guide.

---

## Certain defined terms

Unless the context requires otherwise, 'HSBC Holdings' means HSBC Holdings plc and 'HSBC', the 'Group', 'we', 'us' and 'our' refer to HSBC Holdings together with its subsidiaries. Within this document the Hong Kong Special Administrative Region of the

People's Republic of China is referred to as 'Hong Kong'. When used in the terms 'shareholders' equity' and 'total shareholders' equity', 'shareholders' means holders of HSBC Holdings ordinary shares and those preference shares and capital securities

issued by HSBC Holdings classified as equity. The abbreviations '\$m', '\$bn' and '\$tn' represent millions, billions (thousands of millions) and trillions of US dollars, respectively.

# Highlights

Financial performance in 2020 was impacted by the Covid-19 outbreak, together with the resultant reduction in global interest rates. Nevertheless, performance in Asia remained resilient and our Global Markets business delivered revenue growth.

## Delivery against our financial targets

Return on average tangible equity ▶

# 3.1%

February 2020 target: in the range of 10% to 12% in 2022.  
(2019: 8.4%)

Adjusted operating expenses ▶

# \$31.5bn

Target: ≤\$31bn in 2022.  
(2019: \$32.5bn)

Gross RWA reduction

# \$61.1bn

Target: >\$100bn by end-2022.

▶ Further explanation of performance against Group financial targets may be found on page 26.

## Financial performance (vs 2019)

- **Reported profit after tax down 30% to \$6.1bn and reported profit before tax down 34% to \$8.8bn** from higher expected credit losses and other credit impairment charges ('ECL') and lower revenue, partly offset by a fall in operating expenses. Reported results in 2020 included a \$1.3bn impairment of software intangibles, while reported results in 2019 included a \$7.3bn impairment of goodwill. **Adjusted profit before tax down 45% to \$12.1bn.**
- **Reported revenue down 10% to \$50.4bn**, primarily due to the progressive impact of lower interest rates across our global businesses, in part offset by higher revenue in Global Markets. **Adjusted revenue down 8% to \$50.4bn.**
- **Net interest margin of 1.32% in 2020, down 26 basis points ('bps') from 2019**, due to the impact of lower global interest rates.
- **Reported ECL up \$6.1bn to \$8.8bn**, mainly due to the impact of the Covid-19 outbreak and the forward economic outlook. Allowance for ECL on loans and advances to customers up from \$8.7bn at 31 December 2019 to \$14.5bn at 31 December 2020.
- **Reported operating expenses down 19% to \$34.4bn**, mainly due to the non-recurrence of a \$7.3bn impairment of goodwill. **Adjusted operating expenses down 3% to \$31.5bn**, as cost-saving initiatives and lower performance-related pay and discretionary expenditure more than offset the growth in investment spend.
- **During 2020, deposits grew by \$204bn on a reported basis and \$173bn on a constant currency basis**, with growth in all global businesses.
- **Common equity tier 1 ('CET1') ratio of 15.9%, up 1.2 percentage points from 14.7% at 31 December 2019**, which included the impact of the cancellation of the fourth interim dividend of 2019 and changes to the capital treatment of software assets.
- After considering the requirements set out in the UK Prudential Regulation Authority's ('PRA') temporary approach to shareholder distributions for 2020, the Board has announced an **interim dividend for 2020 of \$0.15 per ordinary share**, to be paid in cash with no scrip alternative.

## Outlook and strategic update

In February 2020, we outlined our plan to upgrade the return profile of our risk-weighted assets ('RWAs'), reduce our cost base and streamline the organisation. Despite the significant headwinds posed by the impact of the Covid-19 outbreak, we have made good progress in implementing our plan.

However, we recognise a number of fundamental changes, including the prospect of prolonged low interest rates, the significant increase in digital engagement from customers and the enhanced focus on the environment.

We have aligned our strategy accordingly. We intend to **increase our focus on areas where we are strongest**. We aim to **increase and accelerate our investments in technology** to enhance the capabilities we provide to customers and improve efficiency to drive down our cost base. We also intend to **continue the transformation of our underperforming businesses**. As part of our climate ambitions, we have set out our plans to **capture the opportunities presented by the transition to a low-carbon economy**.

We will continue to target an **adjusted cost base of \$31bn or less in 2022**. This reflects a further reduction in our cost base, which has been broadly offset by the adverse impact of foreign currency translation due to the weakening US dollar towards the end of 2020. We will also continue to target a **gross RWA reduction of over \$100bn by the end of 2022**. Given the significant changes in our operating environment during 2020, **we no longer expect to reach our return on average tangible equity ('RoTE') target of between 10% and 12% in 2022 as originally planned**. The Group will now target a **RoTE of greater than or equal to 10% in the medium term**.

We intend to maintain a **CET1 ratio above 14%, managing in the range of 14% to 14.5% in the medium term** and managing this range down in the longer term. The Board has adopted a policy designed to provide sustainable dividends going forward. We intend to transition towards a target **payout ratio of between 40% and 55% of reported earnings per ordinary share ('EPS')** from 2022 onwards, with the flexibility to adjust EPS for non-cash significant items such as goodwill or intangibles impairments. We will no longer offer a scrip dividend option, and will pay dividends entirely in cash.

## Key financial metrics

For the year ended

Reported results	2020	2019	2018
Reported revenue (\$m)	50,429	56,098	53,780
Reported profit before tax (\$m)	8,777	13,347	19,890
Reported profit after tax (\$m)	6,099	8,708	15,025
Profit attributable to the ordinary shareholders of the parent company (\$m)	3,898	5,969	12,608
Cost efficiency ratio (%)	68.3	75.5	64.4
Basic earnings per share (\$)	0.19	0.30	0.63
Diluted earnings per share (\$)	0.19	0.30	0.63
Net interest margin (%)	1.32	1.58	1.66

### Alternative performance measures

Adjusted revenue (\$m)	50,366	54,944	52,098
Adjusted profit before tax (\$m)	12,149	22,149	21,199
Adjusted cost efficiency ratio (%)	62.5	59.2	60.9
Expected credit losses and other credit impairment charges ('ECL') as % of average gross loans and advances to customers (%)	0.81	0.25	0.16
Return on average ordinary shareholders' equity (%)	2.3	3.6	7.7
Return on average tangible equity (%) <sup>1</sup>	3.1	8.4	8.6

At 31 December

Balance sheet	2020	2019	2018
Total assets (\$m)	2,984,164	2,715,152	2,558,124
Net loans and advances to customers (\$m)	1,037,987	1,036,743	981,696
Customer accounts (\$m)	1,642,780	1,439,115	1,362,643
Average interest-earning assets (\$m)	2,092,900	1,922,822	1,839,346
Loans and advances to customers as % of customer accounts (%)	63.2	72.0	72.0
Total shareholders' equity (\$m)	196,443	183,955	186,253
Tangible ordinary shareholders' equity (\$m)	156,423	144,144	140,056
Net asset value per ordinary share at period end (\$)	8.62	8.00	8.13
Tangible net asset value per ordinary share at period end (\$)²	7.75	7.13	7.01

### Capital, leverage and liquidity

Common equity tier 1 capital ratio (%)³	15.9	14.7	14.0
Risk-weighted assets (\$m)³	857,520	843,395	865,318
Total capital ratio (%)³	21.5	20.4	20.0
Leverage ratio (%)³	5.5	5.3	5.5
High-quality liquid assets (liquidity value) (\$bn)	678	601	567
Liquidity coverage ratio (%)	139	150	154

### Share count

Period end basic number of \$0.50 ordinary shares outstanding (millions)	20,184	20,206	19,981
Period end basic number of \$0.50 ordinary shares outstanding and dilutive potential ordinary shares (millions)	20,272	20,280	20,059
Average basic number of \$0.50 ordinary shares outstanding (millions)	20,169	20,158	19,896
Dividend per ordinary share (in respect of the period) (\$)⁴	0.15	0.30	0.51

For reconciliations of our reported results to an adjusted basis, including lists of significant items, see page 99. Definitions and calculations of other alternative performance measures are included in our 'Reconciliation of alternative performance measures' on page 119.

1 Profit attributable to ordinary shareholders, excluding impairment of goodwill and other intangible assets and changes in present value of in-force insurance contracts ('PVIF') (net of tax), divided by average ordinary shareholders' equity excluding goodwill, PVIF and other intangible assets (net of deferred tax).

2 Excludes impact of \$0.10 per share dividend in the first quarter of 2019, following a June 2019 change in accounting practice on the recognition of interim dividends, from the date of declaration to the date of payment.

3 Unless otherwise stated, regulatory capital ratios and requirements are based on the transitional arrangements of the Capital Requirements Regulation in force at the time. These include the regulatory transitional arrangements for IFRS 9 'Financial Instruments', which are explained further on page 215. Leverage ratios are calculated using the end point definition of capital and the IFRS 9 regulatory transitional arrangements. Following the end of the transition period after the UK's withdrawal from the EU, any reference to EU regulations and directives (including technical standards) should be read as a reference to the UK's version of such regulation and/or directive, as onshored into UK law under the European Union (Withdrawal) Act 2018, as amended.

4 The fourth interim dividend of 2019, of \$0.21 per ordinary share, was cancelled in response to a written request from the PRA. 2019 has been re-presented accordingly.

# Who we are

## About HSBC

With assets of \$3.0tn and operations in 64 countries and territories at 31 December 2020, HSBC is one of the largest banking and financial services organisations in the world. More than 40 million customers bank with us and we employ around 226,000 full-time equivalent staff. We have around 194,000 shareholders in 130 countries and territories.

## Our values

Our values help define who we are as an organisation, and are key to our long-term success.

### We value difference

Seeking out different perspectives

### We succeed together

Collaborating across boundaries

### We take responsibility

Holding ourselves accountable and taking the long view

### We get it done

Moving at pace and making things happen

▶ For further details on our strategy and purpose, see pages 12 and 16.

## Our global businesses

We serve our customers through three global businesses. On pages 30 to 36 we provide an overview of our performance in 2020 for each of our global businesses, as well as our Corporate Centre.

During the year, we simplified our organisational structure by combining Global Private Banking and Retail Banking and Wealth Management to form Wealth and Personal Banking. We also renamed our Balance Sheet Management function as Markets Treasury to reflect the activities it undertakes more accurately and its relationship to our Group Treasury function more broadly. These changes followed realignments within our internal reporting and include the reallocation of Markets Treasury,

hyperinflation accounting in Argentina and HSBC Holdings net interest expense from Corporate Centre to the global businesses.

Each of the chief executive officers of our global businesses reports to our Group Chief Executive, who in turn reports to the Board of HSBC Holdings plc.

▶ For further information on how we are governed, see our corporate governance report on page 237.

<sup>1</sup> Calculation is based on adjusted revenue of our global businesses excluding Corporate Centre, which is also excluded from the total adjusted revenue number. Corporate Centre had negative adjusted revenue of \$262m in 2020.

### Adjusted revenue by global business<sup>1</sup>



■ WPB 44%  
■ CMB 26%  
■ GBM 30%



### Wealth and Personal Banking ('WPB')

We help millions of our customers look after their day-to-day finances and manage, protect and grow their wealth.



### Commercial Banking ('CMB')

Our global reach and expertise help domestic and international businesses around the world unlock their potential.



### Global Banking and Markets ('GBM')

We provide a comprehensive range of financial services and products to corporates, governments and institutions.

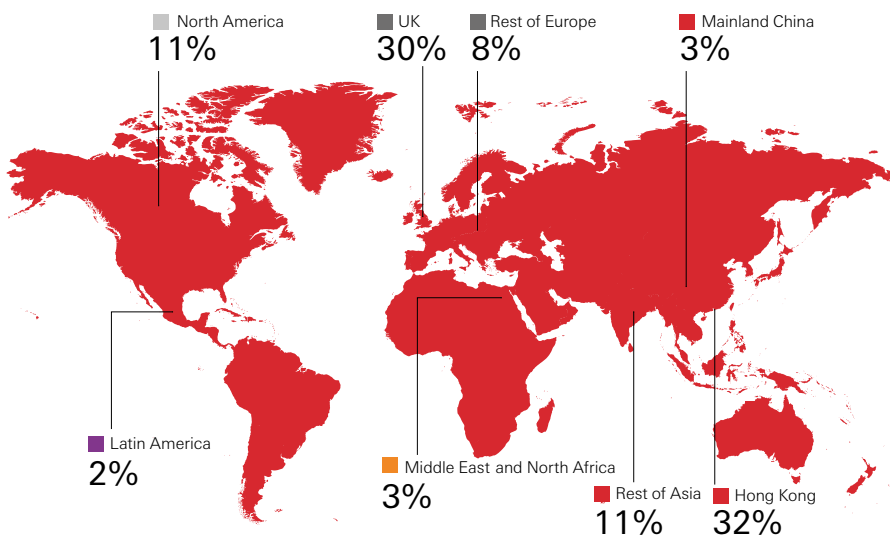
### Our global functions

Our business is supported by a number of corporate functions and our Digital Business Services teams, formerly known as HSBC Operations, Services and Technology. The global functions include Corporate Governance and Secretariat, Communications, Finance, Compliance, Human Resources, Internal Audit, Legal, Marketing, Risk and Strategy. Digital Business Services provides real estate, procurement, technology and operational services to the business.

## Our global reach

We aim to create long-term value for our shareholders and capture opportunity. Our goal is to lead in wealth, with a particular focus on Asia and the Middle East. Taking advantage of our international network, we aspire to lead in cross-border banking flows, and to serve mid-market corporates globally. We continue to maintain a strong capital, funding and liquidity position with a diversified business model.

### Value of customer accounts by geography



▶ See page 86 for further information on our customers and approach to geographical information.

## Engaging with our stakeholders



Building strong relationships with our stakeholders helps enable us to deliver our strategy in line with our long-term values, and operate the business in a sustainable way. Our stakeholders are the people who work for us, bank with us, own us, regulate us, and live in the societies we serve and the planet we all inhabit. These human connections are complex and overlap. Many of our employees are customers and shareholders, while our business customers are often suppliers. We aim to serve, creating value for our customers and shareholders. Our size and global reach mean our actions can have a significant impact. We are committed to doing business responsibly, and thinking for the long term. This is key to delivering our strategy.

## Multi-award winning

We have won industry awards around the world for a variety of reasons – ranging from the quality of the service we provide to customers, to our efforts to support diversity and inclusion in the workplace.

### A selection of the awards recognising our support of customers during the Covid-19 outbreak includes:



*Euromoney Awards for Excellence 2020*  
 Global Excellence in Leadership  
 Excellence in Leadership in Asia  
 Excellence in Leadership in the Middle East

*Greenwich Associates 2020 – Standout Bank for Corporates in Asia During Crisis*  
 Most Distinctive in Helping to Mitigate Impact of Covid-19

We highlight a selection of our other recent wins below.



*Euromoney Awards for Excellence 2020*  
 World's Best Bank for Sustainable Finance  
 World's Best Bank for Transaction Services  
 Hong Kong's Best Bank



*The Banker Innovation in Digital Banking Awards 2020*  
 Best Digital Bank in Asia



*Asia Insurance Industry Awards 2020*  
 Life Insurance Company of the Year



*PWM Wealth Tech Awards 2020*  
 Best Global Private Bank for Digital Customer Experience



*Stonewall*  
 Stonewall Top Global Employers List – 2020

# Group Chairman's statement

The past year brought unprecedented challenges, but our people responded exceptionally well and our performance has been resilient.



**Mark E Tucker**  
Group Chairman

**In 2020, we experienced economic and social upheaval on a scale unseen in living memory. Even before the year began, the external environment was being reshaped by a range of factors – including the impact of trade tensions between the US and China, Brexit, low interest rates and rapid technological development. The spread of the Covid-19 virus made that environment all the more complex and challenging.**

The Covid-19 pandemic has severely impacted our customers, our colleagues, our shareholders and the communities we serve. The first priority was, and remains, dealing with the public health crisis, but the economic crisis that unfolded simultaneously has also been unprecedented in recent times. The financial services industry has been at the forefront of helping businesses and individuals through the difficulties they have faced, working with governments and regulators towards expected recovery and future growth. I am enormously proud of the professionalism, dedication and energy that my colleagues around the world have demonstrated as they

helped ensure our customers received the support they needed – all the while managing their own, at times extremely difficult, situations at home. On behalf of the Board, I would like to express my deepest thanks to them all for the exceptional way they are responding to these most challenging circumstances.

Against this backdrop, HSBC demonstrated a resilient performance. Reported profit before tax was \$8.8bn, a fall of 34%, and adjusted profit before tax was \$12.1bn, down 45%. Within this, Global Banking and Markets performed particularly well, while Asia was once again by far the most profitable region. Deposits also increased significantly across the Group, reinforcing the strength of our funding and liquidity positions.

In response to a request from the UK's Prudential Regulation Authority, we cancelled the fourth interim dividend for 2019. We also announced that, until the end of 2020, we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares. This was a difficult decision and we deeply regret the impact it has had on our shareholders. We are therefore pleased to restart dividend payments at the earliest opportunity. The Board has announced an interim dividend of \$0.15 for 2020, and adopted a policy designed to provide sustainable dividends in the future.

## **Board of Directors**

The confirmation of Noel Quinn as permanent Group Chief Executive underlined the Board's belief that he is the best person to lead the delivery of the strategic plan. We look forward to working closely with Noel and the management team as they focus on executing our strategic priorities in 2021.

Jamie Forese, Steve Guggenheimer and Eileen Murray joined the Board as independent non-executive Directors in 2020. All three have already demonstrated the valuable skills, expertise and experience they bring across a wide range of areas, including technology. We have also announced that Dame Carolyn Fairbairn will join the Board as an independent non-executive Director. Carolyn will bring a wealth of relevant experience, and her appointment will be effective from 1 September 2021.

“There are many opportunities ahead for a bank with HSBC's competitive strengths.”

As reported in the *Annual Report and Accounts 2019*, Sir Jonathan Symonds and Kathleen Casey retired from the Board last year. Today we also announced that Laura Cha will step down from the Board immediately after our 2021 Annual General Meeting ('AGM') in May. I would like to thank Jon, Kathy and Laura for the enormous contributions they made to HSBC during their years of service. We are now in the advanced stages of a search for suitable candidates to join and strengthen the Board, and I will update further on the outcome of this search in due course.

Like the rest of the Group, the Board had to adapt its ways of working in 2020. We met virtually for much of the year, which brought benefits including less travel and more frequent, shorter meetings. It will be important for us to consider how we retain what has worked well over the last year once restrictions are lifted and it becomes possible to travel once again.

The Board enjoys the constructive discussions that we have with shareholders at the AGM in the UK and the Informal Shareholders' Meeting in Hong Kong, so it was a matter of regret that we did not meet in person in 2020. While we did maintain regular contact with shareholders throughout the year, we will resume our face-to-face engagement with shareholders in the UK, Hong Kong and more widely, as soon as is practicable.

#### External environment

After the significant deterioration in global economic conditions in the first half of the year due to the Covid-19 pandemic, there were signs of improvement in the second half, especially in Asia. The most impressive economic recovery has been in China – still the biggest driver of global growth – where international trade is rebounding most strongly. The signing of the Regional Comprehensive Economic Partnership should further boost intra-regional activity across Asia, while the recent political agreement between the EU and China on an investment deal should, once ratified, bolster the already significant two-way investment flows.

Covid-19 infection levels remain very high in Europe, the US and Latin America, and new variants of the virus have spread quickly. This

has necessitated new lockdown measures in the UK and other countries. While the deployment of multiple vaccines means we are more optimistic about the future, there is clearly still some way to go before life can return to something like normality. Recovery will therefore take longer in these economies, with growth more likely later in 2021 in these economies.

The agreement of a trade deal between the UK and EU prior to the end of 2020 provides some certainty for cross-border trade. However, the reduced access for financial services under these new arrangements means that further work is needed to maintain the level playing field that has existed until now. Given the many benefits that the UK financial services industry brings to the UK and EU economies, equivalence must be a key priority for both parties.

The geopolitical environment remains challenging – in particular for a global bank like HSBC – and we continue to be mindful of the potential impact that it could have on our strategy. We continue to engage fully and frequently with all governments as we seek to do everything we possibly can to help our customers navigate an increasingly complex world.

#### Capturing future opportunities

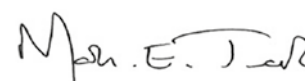
Given the external environment, it is vital we stay focused on what we can control. The Board is confident there are many opportunities ahead for a bank with HSBC's competitive strengths. This makes it all the more important that we position ourselves to capture them.

While we prioritised supporting our customers and our people during the pandemic, we made good progress against the three strategic priorities announced in February 2020 – reallocating capital from underperforming parts of the business, reducing costs and simplifying the organisation. In particular, the Board worked closely with the management team over the course of the year on plans to accelerate progress and investment in key areas of growth, which include our Asian franchise, our wealth business and new technology across the Group.

We are today unveiling the outcome of extensive consultation with our people and customers on the Group's purpose and values. Being clear about who we are, what we stand for and how this connects to our strategy is an important part of how we align and energise the organisation to create long-term value for all those we work with and for – our investors, customers, employees, suppliers and the communities we serve. The Board fully endorses the outcome of this work.

Our commitment to create sustainable value is demonstrated by the new climate ambitions we announced in October 2020. The most significant contribution that HSBC can make to the fight against climate change is to bring our customers with us on the transition to a low-carbon future. Our goal of being net zero for our financed emissions by 2050 sends an important signal to our investors, our customers and our people – if our clients are prepared to change their business models and make that transition, we will help and support them to do so. HSBC was also delighted to be one of the founding signatories of the Terra Carta, which was launched last month by HRH The Prince of Wales' Sustainable Markets Initiative. Further details about all of the steps we are taking towards a more sustainable future are set out in the ESG review, which for the first time is included within the *Annual Report and Accounts 2020*.

Finally, 2020 underlined once again that our people are the driving force behind our business. I would like to reiterate how enormously grateful I am to my colleagues for the great dedication and care they showed to our customers and to each other during such testing times. Further empowering and enabling them to do their jobs and execute our strategic priorities is the key to our future success.



**Mark E Tucker**  
Group Chairman

23 February 2021

# Group Chief Executive's review

With a blueprint for the future and a renewed purpose to guide us, we are building a dynamic, efficient and agile global bank with a digital-first mindset, capable of providing a world-leading service to our customers and strong returns for our investors.



**Noel Quinn**  
Group Chief Executive

**In 2020, HSBC had a very clear mandate – to provide stability in a highly unstable environment for our customers, communities and colleagues. I believe we achieved that in spite of the many challenges presented by the Covid-19 pandemic and heightened geopolitical uncertainty.**

Our people delivered an exceptional level of support for our customers in very tough circumstances, while our strong balance sheet and liquidity gave reassurance to those who rely on us. We achieved this while delivering a solid financial performance in the context of the pandemic – particularly in Asia – and laying firm foundations for our future growth. I am proud of everything our people achieved and grateful for the loyalty of our customers during a very turbulent year.

## 2020

Helping our customers emerge from the Covid-19 pandemic in a sustainable position was our most pressing priority. We did this by equipping our colleagues to work from home at the height of the pandemic, and keeping the vast majority of our branches and all of our contact centres open. Our investment in our

digital capabilities – both in 2020 and in previous years – enabled our customers to access more services remotely, and we worked closely with our regulators around the world to open new digital channels in a safe and secure way. In total, we provided more than \$26bn of relief to our personal customers and more than \$52bn to our wholesale customers, both through government schemes and our own relief initiatives. We also played a vital role in keeping capital flowing for our clients, arranging more than \$1.9tn of loan, debt and equity financing for our wholesale customers during 2020.

Even in the middle of the pandemic, we continued to look to the future. In October, we announced our ambition to become a net zero bank by 2050, supporting customers through the transition to a low-carbon economy and helping to unlock next-generation climate solutions. If the Covid-19 pandemic provided a shock to the system, a climate crisis has the potential to be much more drastic in its consequences and longevity. We are therefore stepping up support for our clients in a material way, working together to build a thriving low-carbon economy and focusing our business on helping achieve that goal.

The actions we outlined in February 2020 are largely on track or ahead of where we intended them to be, despite the complications of the pandemic. We renewed and re-energised the senior management team, with around three-quarters of the Group Executive Committee in post for just over a year or less. Our business is more streamlined than it was a year ago, with three global businesses instead of four and increased back-office consolidation. Costs are down materially, with over \$1bn of gross operating costs removed during 2020. We are also already more than half-way towards our target to reduce at least \$100bn of gross risk-weighted assets by 2022. Unfortunately, the changed interest-rate environment means we are no longer able to achieve a return on tangible equity of 10% to 12% by 2022. We will now target a return on tangible equity of 10% or above over the medium term.

The world around us changed significantly in 2020. Central bank interest rates in many countries fell to record lows. Pandemic-related lockdowns led to a rapid acceleration in the shift from physical to digital banking. Like many businesses, we learned that our people could be just as productive working from



“Helping our customers emerge from the Covid-19 pandemic in a sustainable position was our most pressing priority.”

home as in the office. Also, as the world resolved to build back responsibly from the pandemic, governments, businesses and customers united to accelerate a low-carbon transition that works for all.

All of these things caused us to adjust and reinforce elements of our strategy to fit this new environment. The growth plans that we have developed are a natural progression of our February 2020 plans. They aim to play to our strengths, especially in Asia; to accelerate our technology investment plans to deliver better customer service and increased productivity; to energise our business for growth; and to invest further in our own low-carbon transition and that of our customers. They are also designed to deliver a 10% return on tangible equity over the medium term in the current low interest-rate environment.

#### **Our purpose**

As we charted the next stage of HSBC's journey, we also reflected on our purpose as a business. We consulted widely both internally and externally, speaking to thousands of colleagues and customers, and looked deeply into our history. The same themes came up again and again.

HSBC has always focused on helping customers pursue the opportunities around them, whether as individuals or businesses. Sometimes those opportunities are clear and visible, and sometimes they are far from obvious. Sometimes they arise in the next street, and sometimes on the next continent. Sometimes they exist in the status quo, and sometimes they are a product of great social or economic change. But always, they

represent a chance for our customers to grow and to help those close to them – protecting, nurturing, building.

'Opening up a world of opportunity' both captures this aim and lays down a challenge for the future. Opportunity never stands still. It changes and evolves with the world around us. It is our job to keep making the most of it, and to find and capture it with a spirit of entrepreneurialism, innovation and internationalism that represents HSBC at its very best. This is the essence of what our plans intend to deliver, and what we intend to keep delivering for our customers, colleagues and communities as we navigate change and complexity together.

#### **Financial performance**

The pandemic inevitably affected our 2020 financial performance. The shutdown of much of the global economy in the first half of the year caused a large rise in expected credit losses, and cuts in central bank interest rates reduced revenue in rate-sensitive business lines. We responded by accelerating the transformation of the Group, further reducing our operating costs and moving our focus from interest-rate sensitive business lines towards fee-generating businesses. Our expected credit losses stabilised in the second half of the year in line with the changed economic outlook, but the revenue environment remained muted.

As a consequence, the Group delivered \$8.8bn of reported profit before tax, down 34% on 2019, and \$12.1bn of adjusted profits, down 45%. Our Asia business was again the major contributor, delivering \$13bn of adjusted profit before tax in 2020.

Adjusted revenue was 8% lower than in 2019. This was due mainly to the impact of interest rate cuts at the start of the year on our deposit franchises in all three global businesses. By contrast, our Global Markets business benefited from increased customer activity due to market volatility throughout the year, growing adjusted revenue by 27%.

We made strong progress in reducing our operating expenses. A combination of our cost-saving programmes, cuts in performance-related pay and lower discretionary spending due to the Covid-19 pandemic helped to reduce our adjusted operating expenses by \$1.1bn or 3%.

### Response to Covid-19

**Our operations have stayed highly resilient and we are participating in several Covid-19 relief measures.**

Approximately

# 85%

of our employees are now equipped to work from home.

We provided over

# \$26bn

of relief to our personal customers.

Our investment plans remain essential to the future of the business. We continued to invest heavily in technology while managing costs down, spending \$5.5bn during 2020.

Our funding, liquidity and capital remain strong. We grew deposits by \$173bn on a constant currency basis, with increases across all three global businesses. Our common equity tier one ratio was 15.9% on 31 December 2020.

#### Our shareholders

It was a difficult year for our shareholders. The Covid-19 pandemic and the impact of geopolitics weighed heavily on our share price throughout 2020. In March, we cancelled the payment of our fourth interim dividend for 2019 at the request of our lead regulator, and also agreed not to make any quarterly or interim dividend payments until the end of 2020. This particularly affected shareholders who rely on our dividend for income. It was a priority for the management team to get back to being able to pay dividends by the end of the year, and we were pleased to be able to recommend the payment of an interim dividend for 2020.

Dividends are hugely important, but so is capacity for growth. To deliver both, we are adopting a new policy designed to provide sustainable dividends, offering good income while giving management the flexibility to reinvest capital to grow the firm over the medium term. We will consider share buy-backs, over time and not in the near term, where no immediate opportunity for capital redeployment exists. We will also no longer offer a scrip dividend option, and will pay dividends entirely in cash.

The last 12 months were tough, but I am highly focused on turning our performance around in 2021 and beyond. I strongly believe that the combination of our growth plans and our new dividend policy will unlock greater value for our shareholders in the years to come.

#### Opening up a world of opportunity

'Opening up a world of opportunity' is more than a purpose – it is a statement of intent. Everything that we plan to do over the next decade is designed to unlock opportunity for our stakeholders, whether customers, colleagues, shareholders or communities. We intend to do this by building a dynamic, efficient and agile global bank with a digital-first mindset, capable of providing a world-leading service to our customers and strong returns for our investors. We will also need to focus intently on the areas where we excel, and to foster a commercial and entrepreneurial culture with a conviction to get things done. We believe we can achieve this in four ways.

First, we plan to focus on and invest in the areas in which we are strongest. In Wealth and Personal Banking, we aim to become a market-leader for high net worth and ultra high net worth clients in Asia and the Asian diaspora, and to invest in our biggest retail markets where the opportunity is greatest. In Commercial Banking, we want to remain a global leader in cross-border trade, and to lead the world in serving mid-market corporates internationally. In Global Banking and Markets, we intend to invest to capture trade and capital flows into and across Asia, while connecting global clients to Asia and the Middle East through our international network.

Second, we intend to increase the pace at which we digitise HSBC through higher levels of technology investment. This underpins

everything that we want to achieve. It is how we intend to win new customers and retain them, to become more agile and efficient, to create richer, seamless customer journeys, and to build strong and innovative partnerships that deliver excellent benefits for our customers. We have an opportunity to meet the growing market need for sophisticated, robust and rapid payment solutions, and to lead our industry in applying digital solutions to analogue services, such as trade. We therefore intend to protect technology investment throughout the cycle, even as we reduce spending elsewhere.

Third, we want to energise HSBC for growth through a strong culture, simple ways of working, and by equipping our colleagues with the future skills they need. Giving life to our purpose will be critical to building the dynamic, entrepreneurial and inclusive culture that we want to create, as will removing the remaining structural barriers that sometimes stop our people from delivering for our customers. We need to change the way we hire to build skills and capabilities in areas that are different to what we have needed historically, including data, artificial intelligence, and sustainable business models. Our expanded HSBC University will also help to upskill and reskill our people, while fostering more of the softer skills that technology can never replace.

Fourth, we will seek to help our customers and communities to capture the opportunities presented by the transition to a low-carbon economy. Accelerating this transition is the right thing to do for the environment, but also the right thing commercially. We intend to build on our market-leading position in sustainable finance, supporting our clients with \$750bn to \$1tn of sustainable financing and investment over the next 10 years. We also intend to unlock new climate solutions by building one of the world's leading climate managers – HSBC Pollination Climate Asset Management – and helping to transform sustainable infrastructure into a global asset class. These will help us achieve our ambition to align our portfolio of financed emissions to the Paris Agreement goal to achieve net zero by 2050.

#### Championing inclusion

I believe passionately in building an inclusive organisation in which everyone has the

"I believe passionately in building an inclusive organisation in which everyone has the opportunity to fulfil their potential"

opportunity to fulfil their potential. Failing to do so isn't just wrong, it is totally self-defeating. It means you don't get the best out of the talent you have, and sends the wrong signals to the people you want to recruit. An inclusive environment is the foundation of a truly diverse organisation, with all of the rewards that brings.

There is much still to do, but we are moving in the right direction. More than 30% of our senior leaders are female, in line with the goal we set to achieve by the end of 2020. I want that number to increase to at least 35% by 2025, and we have a number of initiatives in place to help achieve it. In May, we launched a new global ethnicity inclusion programme to better enable careers and career progression for colleagues from ethnic minorities, and in July, we made a series of commitments to address feedback from Black colleagues in particular. These included a commitment to more than double our number of Black senior leaders by 2025.

I am particularly proud that during a difficult year, which included a large-scale redundancy programme, employee sentiment improved within HSBC. Around 71% of my colleagues said that they found HSBC to be a great place to work, up from 66% in 2019. However, the view varies across employees from different groups. We know, for example, that employees with disabilities or who identify as ethnic minorities do not feel as engaged as

others. I take these gaps very seriously. Better demographic data globally will help us benchmark and measure our progress more effectively, and we are taking concerted steps to be able to capture that information where possible.

#### **2021 outlook**

We have had a good start to 2021, and I am cautiously optimistic for the year ahead. While a spike in Covid-19 infection rates led to renewed lockdown measures in many places at the start of 2021, the development of multiple vaccines gives us hope that the world will return to some form of normality before long. Nonetheless, we remain reactive to the ebb and flow of the Covid-19 virus and prepared to take further steps to manage the economic impact where necessary.

The geopolitical uncertainty that prevailed during 2020 remains a prominent feature of our operating environment. We are hopeful that this will reduce over the course of 2021, but mindful of the potential impact on our business if levels remain elevated. We remain focused on serving the needs of our customers, colleagues and communities in all our markets.

#### **Our people**

I would like to pay tribute to my colleagues and all those who supported them throughout a difficult year. HSBC is a community of around 226,000 colleagues – but it relies just as much on the family, friends and support networks that help them be the best they can be. Our people did extraordinary things in 2020, but it asked a lot of those around them. I am hugely grateful to everyone who helped HSBC – whether directly or indirectly – in supporting our customers, communities and each other over the last 12 months.



**Noel Quinn**  
Group Chief Executive

23 February 2021

# Our strategy

With continued delivery against our February 2020 commitments, we are now in the next stage of our strategic plan, which responds to the significant shifts during the year and aligns to our refreshed purpose, values and ambition.

## Progress on our 2020 commitments

In February 2020, we outlined our plan to upgrade our returns profile through recycling risk-weighted assets ('RWAs') out of low-return franchises into higher-performing ones, reducing our cost base and streamlining our organisation.

During 2020, in spite of significant headwinds posed by the impact of the Covid-19 outbreak across our network, we made significant progress on delivering against the ambitions

we outlined. We delivered \$1bn of cost programme saves. We also reduced gross RWAs by \$52bn, including \$24bn from our non-ring-fenced bank in Europe and the UK, and are currently on track to meet the greater than \$100bn target outlined by 2022.

We took bold steps to simplify our organisation, including the merger of Retail Banking and Wealth Management and Global Private Banking to form Wealth and Personal

Banking. We also reduced management layers in Global Banking and Markets and our non-ring-fenced bank in Europe and the UK. We have built a strong capital position, ending the year with a CET1 ratio of 15.9%. Our return on tangible equity ('RoTE') of 3.1% was negatively impacted by the Covid-19 outbreak and the challenging macroeconomic environment, including lower interest rates and higher expected credit losses.

## Responding to the new environment

There was a set of fundamental shifts in 2020 that profoundly impacted our organisation as well as the wider financial services sector. We have adapted our strategy accordingly.

### Low interest-rate environment

Interest rates are expected to remain lower for longer, resulting in a more difficult revenue environment for the financial services sector.

### The new digital experience economy

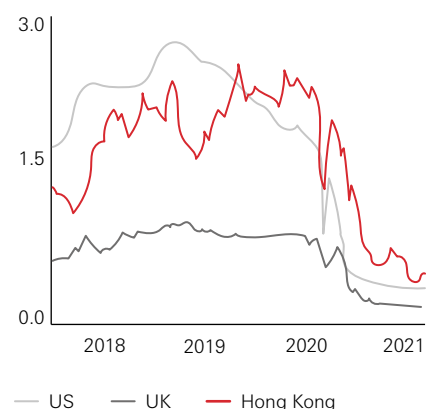
Remote working and global lockdowns due to the Covid-19 outbreak have increased our customers' propensity and preference to engage digitally.

### Increased focus on sustainability

The demand for sustainable solutions and green finance rose to new highs in 2020.

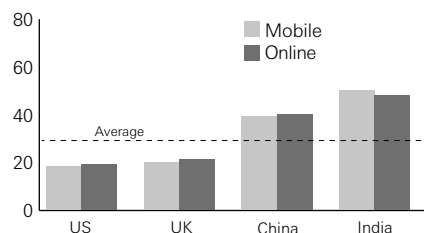
### Evolution of major interbank rates<sup>1</sup>

Three-month interbank offered rates (%)



### Digital banking usage up c.30%<sup>2</sup> in the industry

% customers increasing digital usage, mid-2020 vs pre-Covid-19



### HSBC customer trends

**125%** Increase in HSBCnet mobile downloads<sup>3</sup>

**253%** Increase in HSBCnet mobile payments<sup>3</sup>

### Green, social and sustainability ('GSS') bond market<sup>4</sup>

\$bn

GSS share of global debt capital markets

2018	179	2.7%
2019	261	3.6%
<b>2020</b>	<b>445</b>	<b>5.0%</b>

Companies with disclosed climate action targets under the Science Based Targets Initiative

228 (in 2018) → **1,106** (in 2020)

We are responding by targeting fee income growth in wealth and wholesale banking products and improving cost efficiencies.

We are responding by increasing investments in technology across our customer platforms.

We stepped up our climate ambitions – we aim to be a net zero bank and support our clients in their transition with \$750bn to \$1tn of financing.

1 Source: Datastream.

2 Source: Bain & Company Covid-19 Pulse Survey, July 2020; Overall sample: 10,000.

3 Fourth quarter of 2020 vs fourth quarter of 2019.

4 Source: Dealogic.

## Shifting capital to areas with the highest returns and growth

We are responding to the changes in our operating environment, and building on our 2020 commitments. Our strategy includes accelerating the shift of capital to areas, principally Asia and wealth, that have demonstrated the highest returns and where

we have sustainable advantage through scale. Our international network remains a key competitive advantage and we will continue to support cross-border banking flows between major trade corridors. Supported by these shifts, we are aiming to reach mid-single-digit

revenue growth in the medium to long term<sup>1</sup>, with a higher proportion of our revenue coming from fee and insurance income.

### Capital allocation

#### Asia

(as a % of Group tangible equity<sup>2</sup>)

2020	c.42%
Medium to long term	c.50%

#### Wealth and Personal Banking

(as a % of Group tangible equity<sup>3</sup>)

2020	c.25%
Medium to long term	c.35%

#### Fees and insurance

(as a % of total revenue)

2020	c.29%
Medium to long term	c.35%

1 Medium term is three to four years; long term is five to six years.

2 Based on tangible equity of the major legal entities excluding associates, Holdings companies, consolidation adjustments, and any potential inorganic actions.

3 WPB tangible equity as a share of tangible equity allocated to the global businesses (excluding Corporate Centre). Excludes Holdings companies, consolidation adjustments, and any potential inorganic actions.

## Group targets, dividend and capital policy

To support the ambitions of our strategy, we have revised our Group targets, dividend and capital policy.

### Adjusted costs in 2022

≤\$31bn

(on December 2020 average exchange rate; or ≤\$30bn using full year 2020 average exchange rate)

### Gross RWA reduction by end of 2022<sup>1</sup>

>\$100bn

### CET1 ratio

≥14%

(manage in 14% to 14.5% range over medium term<sup>2</sup>, and manage the range down further long term<sup>2</sup>)

### Sustainable cash dividends with a payout ratio<sup>3</sup> of

40% to 55%

from 2022 onwards

### RoTE over medium term ▶

≥10%

(vs 10% to 12% in 2022 in February 2020 commitment)

We have increased our 2022 cost reduction target by \$1bn and we plan to keep costs stable from 2022. We also plan to reduce tangible equity in the US and in our non-ring-fenced-bank in Europe and the UK, and increase tangible equity in Asia and in Wealth and Personal Banking. Dividends could be supplemented by buy-backs or special dividends, over time and not in the near term<sup>4</sup>. We will also no longer offer a scrip dividend option, and will pay dividends entirely in cash. Given the significant changes in our operating environment during 2020, we no longer expect to reach our RoTE target of between 10% and 12% in 2022 as originally planned.

1 Excludes any inorganic actions.

2 Medium term is three to four years; long term is five to six years.

3 We intend to transition towards a target payout ratio of between 40% and 55% of reported earnings per ordinary share ('EPS') from 2022 onwards, with the flexibility to adjust EPS for non-cash significant items, such as goodwill or intangibles impairments.

4 Should the Group find itself in an excess capital position absent compelling investment opportunities to deploy that excess.

## Our strategy

We have embedded our purpose, values and ambition into our strategy. Our purpose is ‘Opening up a world of opportunity’. Our values are: we value difference; we succeed together; we take responsibility; and we get it done. Our ambition is to be the preferred international financial partner for our clients. Our strategy centres around four key areas: focus on our areas of strengths; digitise at scale to adapt our operating model for the future; energise our organisation for growth; and support the transition to a net zero global economy.

## Focus on our strengths

### In our global businesses

In each of our global businesses, we will focus on areas where we are strongest and have significant opportunities for growth. We aim to invest approximately \$6bn in Asia<sup>1</sup>, where we intend to drive double-digit growth in profit before tax in the region in the medium to long term<sup>2</sup>.

#### Wealth and Personal Banking

Our goal is to lead in wealth, with a particular focus on Asia and the Middle East, while investing in our largest retail markets such as Hong Kong and the UK. Over the medium to long term, we intend to grow wealth revenue at more than 10% compound annual growth rate, and grow Asia wealth assets under management faster than the market. In support of these ambitions, we aim to: capture opportunities to serve high and ultra high net worth segments across Asia, especially in China, south-east Asia, Hong Kong and Singapore; deploy our manufacturing capabilities at scale in insurance and asset management; and build propositions that facilitate client origination from our wholesale businesses.

We aim to invest more than

**\$3.5bn**

in Asia over five years to 2025<sup>1</sup>.

#### Commercial Banking

Taking advantage of our international network, we aspire to lead in supporting cross-border trade and in serving mid-market corporates globally. We plan to accelerate international client acquisition and deepen our share of wallet in cross-border services. We aim to develop front-end ecosystems to drive international mid-market client acquisition at scale. We plan to improve SME propositions in key markets with digital sales and service journeys. We will also continue to invest in our front-end platforms for Global Liquidity and Cash Management, Global Trade and Receivables Finance and Foreign Exchange to drive more fee income and accelerate our asset distribution.

We aim to invest approximately

**\$2bn**

across global platforms<sup>3</sup> over five years to 2025<sup>1</sup>.

#### Global Banking and Markets

We will continue to invest in Global Banking and Markets as a leading international bank in Asia and the Middle East, with a global network to support trade and capital flows. We aim to invest in areas such as: enhancing digital platforms for our Asia wealth propositions, including structured products and foreign exchange; market access and execution capabilities in Global Markets and Securities Services; and expansion of our investment banking coverage across Asia. The next five years should see Global Banking and Markets pivot to a less volatile and higher-returns model, relying less on our balance sheet, and focusing more on the growing capital markets opportunity in Asia and the Middle East.

We aim to invest approximately

**\$0.8bn**

in Asia over five years to 2025<sup>1</sup>.

### Continued execution of our transformation programme

To help create capacity for growth, we are refocusing our US business, our non-ring-fenced bank in Europe and the UK, and our Global Banking and Markets business.

#### A focused international business in the US

We will continue to invest in our substantial corporate and institutional franchise in the US over the medium to long term, including taking actions to further increase international connectivity and revenue in other geographies where HSBC and our US client base have a strong presence around the world including Asia, the Middle East, the UK and continental Europe. We continue to explore strategic options with respect to our US retail franchise, looking to focus on our high net worth, Jade and Premier client base and wealth management products, while reviewing other options in respect of our retail banking presence.

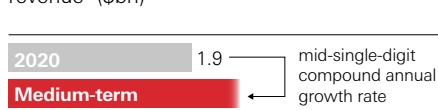
#### Our non-ring-fenced bank in Europe and the UK

Our non-ring-fenced bank will focus on a wholesale footprint that serves international customers both outbound and inbound within our network. We intend to continue investing in our transaction banking franchise that has strong linkage to Asia. We are continuing with the strategic review of our retail banking operations in France and are in negotiations in relation to a potential sale, although no decision has yet been taken. If any sale is implemented, given the underlying performance of the French retail business, a loss on sale is expected. We simplified our operating model, with shared services between our two hubs in London and Paris. We plan to continue reducing complexity in our RWA and cost consumption, and we aim to reduce costs<sup>5</sup> by approximately 20% by 2022.

#### Our Global Banking and Markets business

Our Global Banking and Markets business will refocus on Asia and the Middle East. We aim to be the pre-eminent corporate and investment bank in Asia, focusing on opportunities such as the regionalisation of trade and capital flows and the rise in wealth creation. We will focus on serving clients into and within Asia and the Middle East, and providing global institutions with access to developed and emerging markets. We are redeploying capital and moving centres of excellence in Global Markets and Global Banking closer to clients in Asia as we allocate investments to the region.

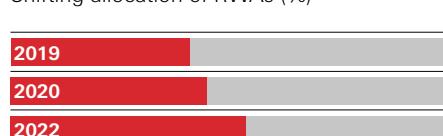
Commercial Banking and Global Banking revenue<sup>4</sup> (\$bn)



RWA<sup>5</sup> (\$bn)



Shifting allocation of RWAs (%)



1 Consists of ‘growth investment’, which refers to investment in strategic business growth (including the build-out of front-line staff).

2 Medium term is three to four years; long term is five to six years.

3 Commercial Banking platforms will be tested in Asia and rolled out globally thereafter.

4 Including Global Liquidity and Cash Management and Global Trade and Receivables Finance revenue.

5 Excludes any inorganic actions.

6 Gross RWA saves of \$24.4bn achieved in 2020, largely offset by changes in asset size and quality, and updates to models, methodology and policy.

## Digitise at scale

We plan to grow investments<sup>1</sup> at a compound annual growth rate of approximately 7% to 10% from 2019 to 2022. We will focus our investments in areas such as technology to improve our customers' digital experiences while ensuring security and resilience. These investments will be funded in part by using technology to drive down costs, including a reduction in manual client processes and a reduction in our commercial real estate footprint.

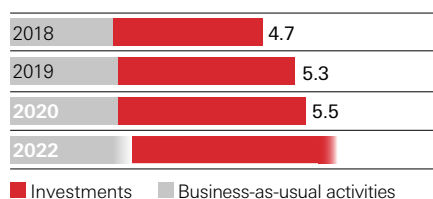
### Investing in technology

We aim to deliver excellent customer experience throughout our network, including through the use of straight-through processing for payments, and through partnerships with big technology firms and fintechs for innovation support. We also intend to build platforms for higher front-end productivity, including arming our front-line staff with data analytics and visualisation for key insights. We plan to automate our middle and back office by, for example, integrating machine-learning to improve analytics capabilities. We also plan to build solutions to

free up office footprint, supported by a shift to a more agile way of working and more efficiencies through reduced headcount.

### Continuing to invest in technology capabilities

Technology spend (\$bn)



### Driving down our cost base

We plan to deliver \$5bn to \$5.5bn of cost programme saves from 2020 to 2022, supporting a decline of our cost base to \$31bn or less by 2022 (using December 2020 average exchange rate) or \$30bn or less (using full year 2020 average exchange rate). We plan to keep costs broadly stable from 2022, while increasing the proportion of investment.

**\$1bn**

increase in our 2022 cost reduction target (≤\$30bn based on full year 2020 exchange rate vs ≤\$31bn in our February 2020 commitments)

We plan to deliver

**\$5bn to \$5.5bn**

of cost programme saves from 2020 to 2022. (vs \$4.5bn in February 2020 commitments)

We plan to spend approximately

**\$7bn**

in costs to achieve to help deliver our cost saves. (vs \$6bn in February 2020 commitments)

<sup>1</sup> 'Investment' includes strategic business growth (including build-out of front-line staff), and other strategic, regulatory, and technology investment (including amortisation).

## Energise for growth

We are moving to a leaner and simpler organisation that is energised and fit for the future.

### Inspire a dynamic culture

We intend to re-energise our culture to succeed with purpose and bring our values to life. We also aim to adopt future ways of working. To support these objectives, we secured inputs from approximately 120,000 colleagues and engaged with over 2,500 customers to help shape our renewed purpose and values, which have been embedded into our strategy. Furthermore, we are launching new leadership expectations that help to: give life to our purpose; unleash our organisation's potential; and see through our actions.

### Champion inclusion

We aim to increase diverse representation, particularly in the senior levels of our organisation. In 2020, we achieved more than 30% of female senior leadership, and we intend to increase to more than 35% by 2025. We endeavour to close the gaps in employee engagement in under-represented groups. We are also focusing on the quality and reporting of ethnicity data and benchmarking our actions. Our progress to date includes race commitments to at least double the number of Black employees in senior leadership roles globally by 2025 and recognition within Stonewall's 2020 Top Global Employers Index for LGBT+ staff.

### Develop future skills

To energise our colleagues, we are setting out initiatives to help develop their future skills and capabilities. We aim to deepen the prevalence of digital, professional and enabling skills across the organisation. Our accomplishments to date include expanding HSBC University courses on future skills, digitalisation and sustainability. Moreover, we are deploying third-party platforms such as Degreed, for educational technology, and Gloat, for career development.

## Transition to net zero

Our ambition is to support the transition to a net zero global economy.

### Becoming a net zero bank

We are making changes both in our own operations and for our customers through our financing portfolio. We aim to bring our operations and supply chain to net zero by 2030 or sooner. We also plan to align our financed emissions – the carbon emissions of our portfolio of customers – to the Paris Agreement goal to achieve net zero by 2050 or sooner.

### Supporting our customers

Our aim is to provide between \$750bn and \$1tn of sustainable finance and investment by 2030 to support our customers in their transition to lower carbon emissions.

### Unlocking new climate solutions

We are working with a range of partners to increase investment in natural resources, clean technology and sustainable infrastructure. We also plan to donate \$100m to a programme that will support climate solutions to scale over the next five years.

We address the progress made on our commitments in a number of different sections of the *Annual Report and Accounts 2020* and beyond. For more information on our climate strategy, please refer to the below.

- ▶ Our ESG review can be found on page 42.
- ▶ A summary of our fourth Task Force on Climate-related Financial Disclosures ("TCFD") can be found on page 20, and our *TCFD Update 2020* can be found at [www.hsbc.com/esg](http://www.hsbc.com/esg).

# How we do business

We conduct our business intent on supporting the sustained success of our customers, people and other stakeholders.

## Our approach

We recognise that it is important to be clear about who we are and what we stand for to create long-term value for our stakeholders. This will help us deliver our strategy and operate our business in a way that is sustainable.

Following an extensive consultation with our people and customers, we refined our purpose and values. Our new purpose is 'Opening up a world of opportunity' and we aim to be the preferred international financial partner for our clients.

To achieve this in a way that is sustainable, we are guided by our values: we value difference; we succeed together; we take responsibility; and we get it done.

### Our Covid-19 actions

Having a clear purpose and strong values has never been more important, with the Covid-19 pandemic testing us all in ways we could never have anticipated. As the world changed over the course of 2020, we adapted to new ways of working and endeavoured to provide support to our customers during this challenging period.

We kept the majority of our branches and all of our contact centres open. To help achieve this, we equipped 85% of our colleagues to be

able to work from home, and provided extra resources and support to help them manage the mental and physical health challenges of the pandemic.

We did not apply for government support packages for our employees across the countries and territories in which we operate.

On the following page, we have set out further ways that we supported each of our stakeholders.

### Fair outcomes

In 2020, we continued to promote and encourage good conduct through our people's behaviours and the decisions we take during these unprecedented times. We define conduct as delivering fair outcomes for our customers and not disrupting the orderly and transparent operation of financial markets. This is central to our long-term success and ability to serve customers. We have clear policies, frameworks and governance in place to protect them. For further information on conduct, see page 229. Details on our conduct framework are available at [www.hsbc.com/who-we-are/esg-and-responsible-business/our-conduct](http://www.hsbc.com/who-we-are/esg-and-responsible-business/our-conduct).

We believe diversity makes us stronger, and we are dedicated to building a diverse and

connected workforce. We achieved our target of 30% women holding senior leadership roles, which are classified as 0 to 3 in our global career band structure, by 2020. We want to keep our focus and momentum and build more gender-balanced teams, so we have set ourselves a target to achieve 35% women in senior leadership roles by 2025.

We published ethnicity data in the UK and US and recognise we need to take action. We aim to at least double the number of Black employees in senior leadership roles globally by 2025.

### Our climate ambition

In 2020, we announced our climate ambition to become net zero in our operations and our supply chain by 2030, and align our financed emissions to the Paris Agreement goal of net zero by 2050. We know this is a journey and recognise that the current means of measuring progress globally need improving to track reductions better.

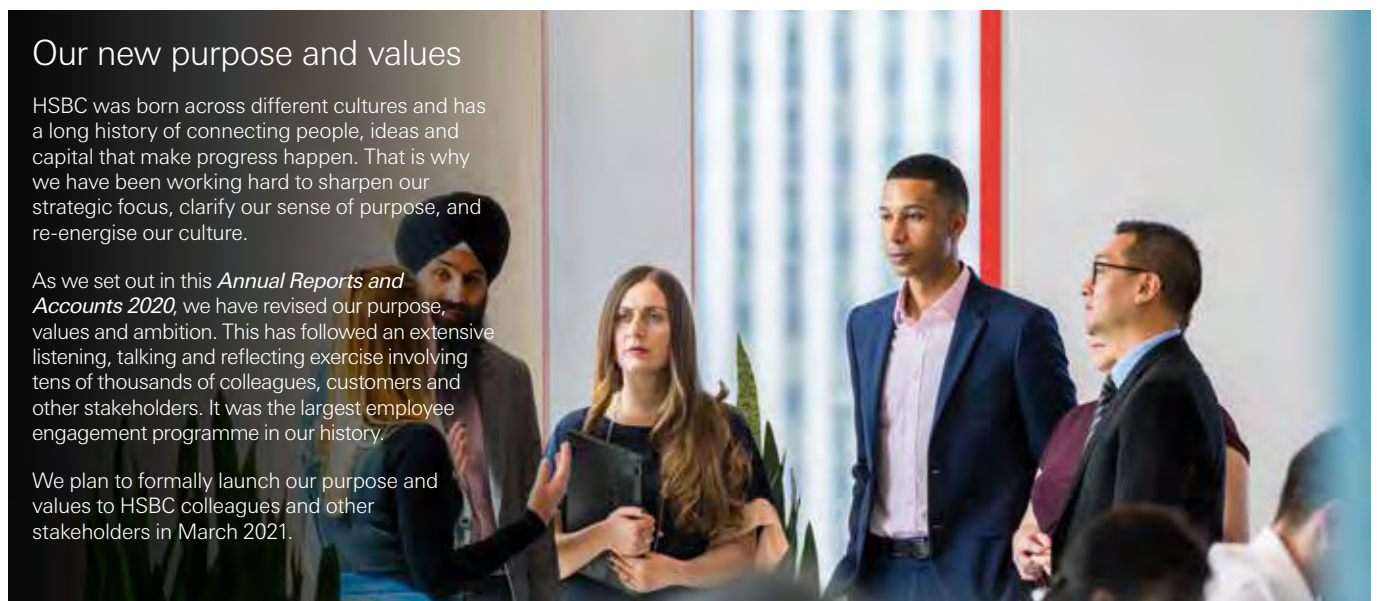
We have changed how we report on ESG issues this year by embedding the content previously provided in our stand-alone *ESG Update* within our *Annual Report and Accounts*. This can be found in the ESG review on page 42.

## Our new purpose and values

HSBC was born across different cultures and has a long history of connecting people, ideas and capital that make progress happen. That is why we have been working hard to sharpen our strategic focus, clarify our sense of purpose, and re-energise our culture.

As we set out in this *Annual Reports and Accounts 2020*, we have revised our purpose, values and ambition. This has followed an extensive listening, talking and reflecting exercise involving tens of thousands of colleagues, customers and other stakeholders. It was the largest employee engagement programme in our history.

We plan to formally launch our purpose and values to HSBC colleagues and other stakeholders in March 2021.





### Supporting our stakeholders through Covid-19

The Covid-19 outbreak has created a great deal of uncertainty and disruption for the people, businesses and communities we serve around the world. It is affecting everyone in different ways, with markets at different stages of the crisis. We are tailoring our response to the different circumstances and situations in which our stakeholders find themselves.



#### Customers

The Covid-19 outbreak has posed significant challenges for our customers. Our immediate priority is to do what we can to provide them with support and flexibility.

This has included offering payment relief and restructuring mortgage payments, as well as extending relief loans or temporary credit limit increases for borrowers. At 31 December 2020, we had active payment relief measures impacting 87,000 accounts and \$5.5bn in balances as part of market-wide schemes and our own payment holidays programmes.

On the first day of a government cash payout scheme in Hong Kong, we received one million registrations after we set up a simple digital and branch registration process. At the end of 2020, the lending support we provided to more than 237,000 wholesale customers globally was valued at \$35.3bn, both through government schemes and our own initiatives.

We have taken steps to keep many of our branches open while protecting customers and our colleagues. However, with customers doing more of their banking online, we have also deployed new technology to help enable them to engage with us in new ways.

▶ For further details on how we are helping our customers, including during the Covid-19 outbreak, see the Customers section of the ESG review on page 52.



#### Employees

The Covid-19 outbreak tested our colleagues in many ways and they adapted at pace in this fast-changing environment.

In branches, we introduced social distancing measures, provided personal protective equipment, reduced operating hours and offered virtual appointments. For office workers, we made sure cybersecurity controls and software supported home working.

For some of our colleagues, we changed their roles, asking them to undertake activities that were outside their normal activities. This helped to keep many of our colleagues working during these extraordinary times.

Our employee networks have held regular support calls for those experiencing mental health challenges and 92,000 colleagues participated in our Covid-19 well-being survey, with 86% telling us they were confident in the approach our leadership team was taking to managing the crisis.

▶ For further details on how we are helping our colleagues, see the Employees section of the ESG review on page 62.



#### Investors

The Covid-19 outbreak and the impact of geopolitics weighed heavily on our share price throughout 2020. Central banks and governments also implemented several measures in their response to the pandemic. In line with all other large UK-based banks, and in response to a request from the UK's PRA, we cancelled the fourth interim dividend for 2019. We also announced that, until the end of 2020, we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares.

This was a difficult decision and we deeply regret the impact it has had on shareholders. We are therefore pleased to restart dividend payments at the earliest opportunity. The Board has announced an interim dividend of \$0.15 for 2020. Adopting a prudent approach now will help ensure the dividend remains sustainable in the future.

We continued to engage virtually with investors. It was unfortunately not possible for shareholders to attend the 2020 AGM in person due to social distancing measures. Shareholders were instead encouraged to vote by proxy and submit questions in advance with the answers published subsequently on our website. We also maintained an active programme of shareholder meetings and presentations.



#### Communities

Our \$25m Covid-19 donation fund supported relief and recovery efforts around the world, including immediate medical relief, access to food, and care for the most vulnerable people.



#### Regulators and governments

We have proactively engaged with regulators and governments globally regarding the policy changes issued in response to the Covid-19 outbreak to help our customers and to contribute to an economic recovery.



#### Suppliers

We made early payments to thousands of our suppliers during the year to support them through the pandemic.

## Our ESG metrics and targets




We have established targets that guide how we do business, including how we operate and how we serve our customers. These targets are designed to help us to make our business – and those of our customers – more environmentally sustainable. They also help us to improve employee advocacy and diversity at senior levels as well as strengthen our market conduct.

The 2020 annual incentive scorecards of the Group Chief Executive, Group Chief Financial Officer and Group Managing Directors had 30% weightings for measures linked to

outcomes that underpin the ESG metrics below. In addition, for executive Directors, a 25% weighting is given to environment and sustainability measures in the 2020 long-term incentive ('LTI') scorecards, which have a three-year performance period ending on 31 December 2023. The targets for this measure are linked to our climate ambition of achieving a reduction in our carbon footprint and facilitating financing to help our clients in their transition to net zero. For a summary of how all financial and non-financial metrics link to

executive remuneration outcomes, see pages 284 to 288 in the Director's remuneration report.

For a number of the metrics outlined below, 2020 was a transition year. For further details, including the high-level framework for how we are looking to measure the progress on our new climate ambition, see the ESG review on page 42. In 2021, we will introduce new metrics and targets aligned to our strategy.

	Target	Performance in 2020
<b>Environmental</b>		
 Sustainable finance and investment	Provide and facilitate <sup>1</sup> <b>\$100bn</b> by the end of 2025	<b>\$93.0bn</b> cumulative progress since 2017 <sup>1</sup>
Reduce operational CO <sub>2</sub> emissions	<b>2.0</b> tonnes used per full-time equivalent ('FTE') by the end of 2020 <sup>2</sup>	<b>1.76</b> tonnes used per FTE <sup>2</sup>
Climate-related disclosures	Continued implementation of the Financial Stability Board's TCFD	We published our <b>4th</b> TCFD, which can be found on page 20 and in the separate <i>TCFD Update 2020</i> on <a href="http://www.hsbc.com/esg">www.hsbc.com/esg</a> . We recognise there is still work to be done on how we report climate-related disclosures
<b>Social</b>		
 Customer satisfaction	Customer satisfaction improvements in <b>8</b> scale markets <sup>3</sup>	<b>7</b> WPB markets sustained top-three rank and/or improved in customer satisfaction <sup>3</sup> <b>5</b> CMB markets sustained top-three rank and/or improved in customer satisfaction <sup>3</sup>
Employee advocacy	<b>69%</b> of employees recommending HSBC as a great place to work by the end of 2020 <sup>4</sup>	<b>71%</b> of employees would recommend HSBC as a great place to work <sup>4</sup>
Employee gender diversity	<b>30%</b> women in senior leadership roles by the end of 2020 <sup>5</sup>	<b>30.3%</b> women in senior leadership roles <sup>5</sup>
<b>Governance</b>		
 Achieve sustained delivery of global conduct outcomes and effective financial crime risk management	<b>98%</b> of staff to complete annual conduct training	<b>93.2%</b> of staff completed conduct training in 2020 <sup>6</sup>

1 The sustainable finance commitment and progress figure includes green, social and sustainability activities. In October 2020, we announced a new target ambition to provide between \$750bn to \$1tn of sustainable finance and investment by 2030. For further details, see page 44 in the ESG review.

2 This carbon figure covers scope 1, scope 2 and scope 3 (travel) emissions. For further details, see [www.hsbc.com/our-approach/esg-information/esg-reporting-and-policies](http://www.hsbc.com/our-approach/esg-information/esg-reporting-and-policies).

3 Our customer satisfaction performance is based on improving from our 2017 baseline. Our scale markets are Hong Kong, the UK, Mexico, the Pearl River Delta, Singapore, Malaysia, the UAE and Saudi Arabia. For further details on how we are transitioning to a new metric, see page 54 in the ESG review.

4 Our target was to improve employee advocacy by three points each year through to 2020. Our employee advocacy score in 2019 was 66%. Performance is based on our employee Snapshot results. From 2021, our targets will be based on our employee engagement index.

5 Senior leadership is classified as 0 to 3 in our global career band structure.

6 The launch of conduct global mandatory training in 2020 was delayed due to the Covid-19 outbreak and the completion date was rolled over into 2021.

## Our climate risk and reporting strategy

Every organisation has a role to play in limiting the impact of climate change. We believe our most significant contribution will be to align with the Paris Agreement goal of net zero global greenhouse emissions by 2050, through financing the transformation of businesses and infrastructure.

Central to our new climate ambition of becoming net zero in our financed emissions by 2050 or sooner is the intensification of our support for customers transitioning to a low-carbon economy. We aim to mobilise between \$750bn and \$1tn of sustainable finance and investment by 2030.

The Financial Stability Board's Task Force on Climate-related Financial Disclosures ('TCFD') recommendations set an important framework for understanding and analysing climate-related risks, and we are committed to regular, transparent reporting to help communicate and track our progress. We will advocate the same from our customers, suppliers and the industry. However, this is a journey and much work lies ahead as we develop our climate risk management and metrics capabilities, and build on our 2020 climate scenario analysis. This summary, together with our separate *TCFD Update 2020*, forms our fourth TCFD disclosure.

We have made headway assessing climate's impact on our customers and our operations – from the physical risk of increased severity or shifts in weather events, and the potential transition risk from changes to policy, technology and consumer behaviour. Working to embed climate into our risk management framework, we are initially focusing on five principal risk types most likely to be influenced by climate risk. The table below sets out examples of how these risk types might be impacted.

For further details of our climate ambition, see pages 45 to 50 in the ESG review. Our *TCFD Update 2020* can be found at [www.hsbc.com/esg](https://www.hsbc.com/esg).

Climate risk impact	Principal risk type impacted	Examples of potential impact
Extreme weather events or chronic changes in weather patterns impact our assets, operations or our customers' assets	Retail credit risk Wholesale credit risk Resilience risk	– The cost of flood damage to a customer's home leaves them unable to repay their mortgage – Hurricane damage to a customer's warehouse halts manufacturing and leaves them unable to repay their loan – One of our data centres is flooded and we are unable to service customers
Our business models or our customers' business models fail to align to a low-carbon economy	Wholesale credit risk Reputational risk	– Failure to align to new regulations leads to a loss of business and customers are unable to repay their loans – Our actions lead to negative external perceptions of our organisation
We fail to effectively design and market climate-related products across all global businesses or respond to regulatory change	Reputational risk Regulatory compliance risk	– We fail to respond to a regulatory change, leading to adverse stakeholder reaction

We have identified six sectors where we are most exposed to transition risk and our level of lending activity in those sectors. From our corporate questionnaire, we collate information about our customers' climate transition strategies to assess their need and readiness to adapt, and to identify potential business opportunities. This supports our decision making and credit risk management

processes. Across 2019 and 2020, we received responses from customers within the six high transition risk sectors, which represented 41% of our exposure – an increase of seven percentage points from 2019. The table below shows our lending activity in the six sectors and insights from our questionnaire.

Within the power and utilities, and metals and mining sectors shown in the table below, our direct exposure to thermal coal is 0.2% of the wholesale loans and advances figures.

### Wholesale loan exposure to transition risk sectors and customer questionnaire responses

	Automotive	Building and construction	Chemicals	Metals and mining	Oil and gas	Power and utilities	Total
Wholesale loan exposure as % of total wholesale loans and advances to customers and banks <sup>1,2,3</sup>	≤3.1%	≤4.0%	≤3.4%	≤2.5%	≤3.4%	≤3.2%	≤19.6%
Proportion of sector for which questionnaires were completed <sup>4</sup>	42%	44%	32%	45%	42%	40%	41%
Proportion of questionnaire responses that reported having a board policy or a management plan <sup>4</sup>	68%	81%	77%	54%	84%	93%	77%
Sector weight as proportion of high transition risk sector <sup>4</sup>	16%	20%	18%	13%	17%	16%	100%

1 Amounts shown in the table include green and other sustainable finance loans, which support the transition to the low-carbon economy. The methodology for quantifying our exposure to high transition risk sectors and the transition risk metrics will evolve over time as more data becomes available and is incorporated in our risk management systems and processes.

2 Counterparties are allocated to the high transition risk sectors via a two-step approach. Firstly, where the main business of a group of connected counterparties is in a high transition risk sector, all lending to the group is included irrespective of the sector of each individual obligor within the group. Secondly, where the main business of a group of connected counterparties is not in a high transition risk sector, only lending to individual obligors in the high transition risk sectors is included.

3 Total wholesale loans and advances to customers and banks amount to \$673bn (2019: \$680bn).

4 All percentages are weighted by exposure.

## Task Force on Climate-related Financial Disclosures ('TCFD')

The table below sets out the 11 TCFD recommendations and summarises the progress we have made in the past 12 months.

TCFD recommendation	Our progress in 2020
<b>Governance</b>	
<b>Describe the Board's oversight of climate-related risks and opportunities</b>	<ul style="list-style-type: none"> <li>– The Board is responsible for our climate ambition and strategy and receives climate-focused updates twice a year.</li> <li>– The Group Risk Committee provides oversight of climate risks and opportunities through enterprise risk reports, deep dives and updates.</li> <li>– The Group Executive Committee manages our climate ambition with management responsibilities integrated into the relevant business and functional areas.</li> </ul>
<b>Describe management's role in assessing and managing climate-related risks and opportunities</b>	<ul style="list-style-type: none"> <li>– The Group Executive Committee manages our climate ambition with management responsibilities integrated into the relevant business and functional areas.</li> </ul> <p>▣ For further details of our governance approach, see page 5 of our <i>TCFD Update 2020</i>.</p>
<b>Strategy</b>	
<b>Describe the climate-related risks and opportunities the organisation has identified over the short, medium and long term</b>	<ul style="list-style-type: none"> <li>– We have identified our key climate risks over the short, medium and long term and identified the principal risk types as retail credit risk, wholesale credit risk, resilience risk, reputational risk and regulatory compliance risk<sup>1</sup>.</li> </ul> <p>▣ For further details of our climate risks and risk types, see pages 3 and 22 of our <i>TCFD Update 2020</i>.</p>
<b>Describe the impact of climate risks and opportunities on the organisation's business, strategy and planning</b>	<ul style="list-style-type: none"> <li>– We are prioritising climate-related financing and investment, and in October announced our new climate ambition to become a net zero bank, support customers to thrive in the transition to a low-carbon economy, and to unlock next generation climate solutions.</li> </ul> <p>▣ For further details of our climate ambition, see pages 45 to 50 in the ESG review.</p>
<b>Describe the resilience of the organisation's strategy taking into consideration different climate-related scenarios, including a 2°C or lower scenario</b>	<ul style="list-style-type: none"> <li>– We have carried out various exercises to analyse our resilience, including: <ul style="list-style-type: none"> <li>– using the Paris Agreement Capital Transition Assessment ('PACTA') tool to assess our customers' impact on climate and help develop clear pathways to net zero financed emissions. We have run a pilot on our automotive loan book; and</li> <li>– running a stress testing pilot to assess the impact of different climate scenarios on our customers and our own infrastructure.</li> </ul> </li> </ul> <p>▣ For further details of our scenario analysis and 'PACTA' pilots, see pages 13 to 21 of our <i>TCFD Update 2020</i>.</p>
<b>Risk management</b>	
<b>Describe the organisation's processes for identifying and assessing climate-related risks</b>	<ul style="list-style-type: none"> <li>– In response to identifying our key climate risks, we have reviewed our risk appetite and defined our approach to managing these risks.</li> <li>– We are reviewing our policies for managing a number of principal risk types, initially resilience risk, sustainability risk and regulatory compliance risk.</li> </ul> <p>▣ For further details of our climate risk management approach, see page 48 in the ESG review and pages 22 to 24 of our <i>TCFD Update 2020</i>.</p>
<b>Describe the organisation's processes for managing climate-related risks</b>	<ul style="list-style-type: none"> <li>– We manage our asset management customers' climate risk in line with our fiduciary responsibilities to protect and grow the assets.</li> </ul> <p>▣ Read more on our asset management approach to climate risk in our policies and procedures on <a href="http://www.assetmanagement.hsbc.co.uk/en/institutional-investor/about-us/responsible-investing/policies">www.assetmanagement.hsbc.co.uk/en/institutional-investor/about-us/responsible-investing/policies</a>.</p>
<b>Describe how processes for identifying, assessing and managing climate-related risks are integrated into the organisation's overall risk management</b>	<ul style="list-style-type: none"> <li>– The Trustee of our UK Pension Scheme manages climate risk in line with its fiduciary responsibilities towards members<sup>2</sup>.</li> <li>– We have established a dedicated climate risk programme to accelerate the integration of climate risk into our Group-wide risk management framework, which includes identification and assessment, management, and aggregation and reporting.</li> </ul>
<b>Metrics and targets</b>	
<b>Disclose the metrics used by the organisation to assess climate-related risk and opportunities in line with its strategy and risk management process</b>	<ul style="list-style-type: none"> <li>– We use several metrics to measure and track our progress against key targets, and we will be refining our approach to financed emissions (scope 3), including carbon intensity, for specific portfolios.</li> <li>– We set a new sustainable finance and investment target of \$750bn to \$1tn by 2030, after reaching \$93.0bn of our \$100bn by 2025 target. The \$40.6bn achieved in 2020 counts towards both the existing 2025 target and the new target.</li> </ul>
<b>Describe the targets used by the organisation to manage climate-related risks and opportunities and performance against targets</b>	<ul style="list-style-type: none"> <li>– We continue to disclose our wholesale loan exposure to the six high transition risk sectors, and use our corporate customer transition risk questionnaire to help inform our risk management.</li> <li>– We include an environment measure in the scorecards of our executive Directors and Group Managing Directors. The long-term incentive scorecards of our executive Directors (three-year performance period to the end of December 2023) have a 25% weighting for targets aligned to our climate ambitions.</li> </ul>
<b>Disclose scope 1, scope 2 and, if appropriate, scope 3 greenhouse gas emissions and the related risks</b>	<ul style="list-style-type: none"> <li>– We continue to disclose business travel, energy-related emissions and renewable energy use, and aim to disclose further details on our own scope 3 emissions in future reporting.</li> </ul> <p>▣ For further details of our climate metrics and targets, see pages 45 to 50 in the ESG review.</p>

1 Short term: less than one year; medium term: period to 2030; long term: period to 2050.

2 For further details of our UK Pension Scheme's latest TCFD statement, see <https://futurefocus.staff.hsbc.co.uk/-/media/project/futurefocus/information-centre/pensioner/other-information/2020-tcf-d-statement.pdf>.

## Responsible business culture

We have the responsibility to protect our customers, our communities and the integrity of the financial system. In this section, we outline our requirements under the Non-Financial Reporting Directive.

### Environmental matters

In October 2020, we announced our ambition to achieve net zero in our own operations and our supply chain by 2030 or sooner. We also plan to align our financed emissions – the carbon emissions of our portfolio of customers – to the Paris Agreement goal of net zero by 2050 or sooner. For further details of our climate strategy and carbon emission metrics, see the ESG review on page 44.

### Employee matters

We are opening up a world of opportunity for our colleagues through building an inclusive organisation that prioritises well-being and prepares our colleagues for the future of work.

We expect colleagues to treat each other with dignity and respect and take action where we find behaviour that falls short of our expectations. We monitor how we perform on metrics that we value and benchmark against our peers. We have a range of tools and resources to help colleagues to take ownership of their development journey.

We believe in the importance of listening to our people and seek innovative ways to encourage employees to speak up. At times, individuals may not feel comfortable speaking up through the usual channels. Our global whistleblowing channel, HSBC Confidential, is open to colleagues, past and present, to raise concerns either confidentially or anonymously.

In 2018, we committed to reach 30% women in senior leadership roles, which are classified as 0 to 3 in our global career band structure, by 2020. At the end of 2020, we achieved 30.3% and have now set ourselves a target to achieve 35% by 2025. In July 2020, we set out global race commitments, which included a goal to at least double the number of Black

employees in senior roles over the next five years. We are focusing on the quality and reporting of ethnicity data to be more transparent about our representation and accountable for the effectiveness of our actions. In 2020, we began a three-year transformation programme. We work hard to ensure colleagues impacted by change are supported.

The table below outlines high-level diversity metrics.

#### All employees

Male	48%
Female	52%

#### Senior leadership<sup>1</sup>

Male	70%
Female	30%

#### Directors

Male	64%
Female	36%

<sup>1</sup> Senior leadership is classified as 0 to 3 in our global career band structure.

▶ For further details on how we look after our people, including our diversity targets, transformation employee metrics and how we encourage our employees to speak up, see the Employees section of the ESG review on page 62.

#### Social matters

We have a responsibility to invest in the long-term prosperity of the communities where we operate. We recognise that technology is developing at a rapid pace and that a range of new and different skills are now needed to succeed in the workplace. For this reason, much of our focus is on programmes that develop employability and financial capability. We also back initiatives that support responsible business, and

contribute to disaster relief efforts based on need. In 2020, we contributed \$112.7m to charitable programmes and our employees volunteered 82,000 hours to community activities during the working day.

#### Human rights

Our commitment to respecting human rights, principally as they apply to our employees, our suppliers and through our financial services lending, is set out in our Statement on Human Rights. This statement, along with our statements under the UK's Modern Slavery Act ('MSA') is available on [www.hsbc.com/our-approach/measuring-our-impact](http://www.hsbc.com/our-approach/measuring-our-impact).

#### Anti-corruption and anti-bribery

HSBC requires compliance with all applicable anti-bribery and corruption laws in all markets and jurisdictions in which we operate. These laws include the UK Bribery Act, the US Foreign Corrupt Practices Act, and the Hong Kong Prevention of Bribery Ordinance, as well as other similar laws and regulations in the countries where we operate. We have a global anti-bribery and corruption policy, which gives practical effect to these laws and regulations, but also requires compliance with the spirit of laws and regulations to demonstrate HSBC's commitment to ethical behaviours and conduct.

#### Non-financial information statement

This section primarily covers our non-financial information as required by the regulations. Other related information can be found as follows:

- ▶ For further details on our key performance indicators, see page 1.
- ▶ For further details on our business model, see page 4.
- ▶ For further details on our principal risks and how they are managed, see pages 37 to 40.

## Investing in the skills of the future

In 2020, we launched the global HSBC Future Skills Innovation Challenge in partnership with Ashoka, a global network for social entrepreneurs, to support innovations that help people become more employable and financially capable. We received more than 200 submissions to the challenge, with 12 winners selected. Each winner received a prize of up to \$25,000 and additional support and mentoring.

All winning entries provided solutions that address local problems, such as digital platform Bamba, which helps domestic workers gain access to the financial system in Mexico.

Thanks to our support to the challenge, we won *The Banker's* global award for Banking in the Community in December 2020. The award recognised the most innovative initiatives launched by financial institutions that enrich and improve the societies in which they operate.



This page is intentionally left blank

This page is intentionally left blank

This page is intentionally left blank



# Remuneration

Our remuneration policy supports the achievement of our strategic objectives by aligning reward with our long-term sustainable performance.

## Our remuneration principles

Our performance and pay strategy aims to reward competitively the achievement of long-term sustainable performance by attracting, motivating and retaining the very best people, regardless of gender, ethnicity, age, disability or any other factor unrelated to performance or experience.

► For further details of our principles and what we did during 2020 to ensure remuneration outcomes were consistent with those principles, see page 233.

## Variable pay

Our variable pay pool was \$2,659m, a 20.4% decrease from 2019.

► For details of how the Group Remuneration Committee sets the pool, see page 271.

(\$m)

2020	2,659
2019	3,341

## Remuneration for our executive Directors

Our remuneration policy for executive Directors was approved at our AGM in 2019 and is intended to apply for three performance years until the AGM in 2022. Details of the policy can be found in the Directors' remuneration report on page 278.

Variable pay for our executive Directors is driven by scorecard achievement. Targets in the scorecard are set according to our key performance indicators to ensure linkages between our strategy and remuneration policies and outcomes.

### Executive Directors' annual incentive scorecard outcome (% of maximum opportunity)

Group Chief Executive	64.50%
Group Chief Financial Officer	63.75%

The table below shows the amount our executive Directors earned in 2020. For details of Directors' pay and performance for 2020, see the Directors' remuneration report on page 271.

### Single figure of remuneration

(£000)	Base salary <sup>2</sup>	Fixed pay allowance	Cash in lieu of pension	Taxable benefits <sup>3</sup>	Non-taxable benefits <sup>3</sup>	Total fixed	Annual incentive <sup>4</sup>	Notional returns <sup>5</sup>	Replacement award <sup>6</sup>	Total variable	Total fixed and variable	
Noel Quinn <sup>1</sup>	2020	1,266	1,700	127	186	59	3,338	799	17	—	816	4,154
	2019	503	695	50	41	23	1,312	665	—	—	665	1,977
Ewen Stevenson	2020	738	950	74	12	32	1,806	450	—	1,431	1,881	3,687
	2019	719	950	107	16	28	1,820	1,082	—	1,974	3,056	4,876

1 Noel Quinn succeeded John Flint as interim Group Chief Executive with effect from 5 August 2019 and was appointed permanently into the role on 17 March 2020. The remuneration included in the single figure table above for 2019 is in respect of his services provided as an executive Director for that year.

2 As outlined on page 272, the executive Directors each donated a quarter of their base salary for six months in 2020. The base salary shown in the single figure of remuneration is the gross salary before charitable donations.

3 Taxable benefits include the provision of medical insurance, accommodation, car and tax return assistance (including any associated tax due, where applicable). Non-taxable benefits include the provision of life assurance and other insurance cover.

4 Under the policy approved by shareholders, executive Directors can receive 50% of their annual incentive award in cash and the remaining 50% in immediately vested shares subject to a one-year retention period. As the executive Directors each decided not to take an annual cash bonus, the 2020 annual incentive is the amount after this waiver and will be delivered in immediately vested shares subject to a one-year retention period. The total annual incentives waived by the Group Chief Executive and Group Chief Financial Officer were £799,000 and £450,000, respectively.

5 'Notional returns' refers to the notional return on deferred cash for awards made in prior years. The deferred cash portion of the annual incentive granted in prior years includes a right to receive notional returns for the period between the grant date and vesting date, which is determined by reference to a rate of return specified at the time of grant. A payment of notional return is made annually and the amount is disclosed on a paid basis in the year in which the payment is made.

6 As set out in the 2018 Directors' remuneration report, in 2019 Ewen Stevenson was granted replacement awards to replace unvested awards, which were forfeited as a result of him joining HSBC. The awards, in general, match the performance, vesting and retention periods attached to the awards forfeited, and will be subject to any performance adjustments that would otherwise have been applied. The values included in the table for 2019 relate to Ewen Stevenson's 2015 and 2016 LTI awards granted by The Royal Bank of Scotland Group plc ('RBS') for performance years 2014 and 2015, respectively, and replaced with HSBC shares when Ewen Stevenson joined HSBC. These awards are not subject to further performance conditions and commenced vesting in March 2019. The total value is an aggregate of £1,121,308 for the 2015 LTI and £852,652 for the 2016 LTI. The 2016 LTI award value has been determined by applying the performance assessment outcome of 27.5% as disclosed in RBS's *Annual Report and Accounts 2018* (page 70) to the maximum number of shares subject to performance conditions. Values in the table for 2020 relate to his 2017 LTI award granted by RBS for performance year 2016, which was determined by applying the performance assessment outcome of 56.25% as disclosed in RBS's *Annual Report and Accounts 2019* (page 91) to the maximum number of shares subject to performance conditions. This resulted in a payout equivalent to 78.09% of the RBS award shares that were forfeited and replaced with HSBC shares. A total of 313,608 shares were granted in respect of his 2017 LTI replacement award at a share price of £6.643. The HSBC share price was £5.845 when the awards ceased to be subject to performance conditions, with no value attributable to share price appreciation.

# Financial overview

In assessing the Group's financial performance, management uses a range of financial measures that focus on the delivery of sustainable returns for our shareholders and maintaining our financial strength.

## Executive summary

Financial performance in 2020 was impacted by the Covid-19 outbreak, together with the resultant reduction in global interest rates. Reported profit before tax of \$8.8bn decreased by 34%, while adjusted profit before tax of \$12.1bn decreased by 45%. The fall in reported profit was due to an increase in our expected credit losses and other credit impairment charges ('ECL') and a reduction in reported revenue. These factors were partly mitigated by lower reported operating expenses. Our return on average tangible equity ('RoTE') for 2020 was 3.1%. Given the significant changes in our operating environment during 2020, we no longer expect to reach our RoTE target of between 10% and 12% in 2022, as originally planned.

During 2020, our operations in Asia continued to perform resiliently, generating a reported profit before tax of \$12.8bn, representing 146% of Group reported profits. In addition, our Global Markets business delivered revenue growth of 27% compared with 2019.

Reported results in 2020 included a \$1.3bn impairment of capitalised software, primarily relating to businesses within HSBC Bank plc, our non-ring-fenced bank in Europe, reflecting underperformance and a deterioration in the future forecasts, substantially relating to prior periods. During 2020, we also incurred restructuring and other related costs of \$2.1bn, in part related to our strategic actions taken to address underperformance in our US business and our non-ring-fenced bank in Europe and

the UK. Reported results in 2019 included a \$7.3bn impairment of goodwill, primarily in GBM and CMB, and customer redress programme costs of \$1.3bn.

We have made good progress in implementing the transformation programme we announced in February 2020, despite the significant headwinds posed by the Covid-19 outbreak. However, we recognise the fundamental changes in our operating environment, including the prospect of prolonged low interest rates, the significant increase in digital engagement from customers and the enhanced focus on the environment, and have aligned our strategy accordingly. The implications for our Group financial targets are set out below.

## Group financial targets

### Return on average tangible equity (%)

# 3.1%

(2019: 8.4%)

In our business update set out in February 2020, the Group targeted a reported RoTE in the range of 10% to 12% in 2022.

Our RoTE for 2020 was 3.1%, a reduction of 530 basis points from 2019, primarily reflecting higher ECL and a reduction in revenue. Given the significant changes in our operating environment during 2020, we no longer expect to reach our RoTE target of between 10% and 12% in 2022, as originally planned.

We have adapted our strategy with an intention to increase investment in our areas of strength to generate mid-single-digit revenue growth, mainly from fees and volumes. We intend to drive further reductions in our cost base by 2022 and aim for broadly stable costs thereafter. As we progress with our transformation of our underperforming businesses, we also expect to optimise the capital allocation across the Group. Collectively through these actions, together with a normalisation in our ECL charge closer to levels seen prior to the Covid-19 pandemic, we will now target a RoTE of greater than or equal to 10% in the medium term.

### Adjusted operating expenses

# \$31.5bn

In February 2020, we announced a plan to substantially reduce the cost base and accelerate the pace of change, with the aim of becoming leaner, simpler and more competitive. In 2020, our adjusted operating expenses were \$31.5bn, a reduction of 3% compared with 2019.

Our adjusted cost target for 2022 will remain \$31bn or less. This reflects a further reduction in our cost base, which has been broadly offset by the adverse impact of foreign currency translation due to the weakening US dollar towards the end of 2020.

We now plan to deliver \$5bn to \$5.5bn of cost saves for 2020 to 2022, while spending around \$7bn in costs to achieve.

In the medium to long term, we aim to drive positive operating leverage by growing revenue while maintaining a broadly stable cost base.

### Gross RWA reductions

# \$61.1bn

To improve the return profile of the Group, we have targeted a gross RWA reduction of more than \$100bn by 2022, mainly in low-returning parts of the Group.

In 2020, we achieved gross RWA reductions of \$51.5bn, taking our cumulative RWA reductions to \$61.1bn. We expect to achieve a further \$30bn of gross RWA reductions in 2021. In addition, we continue to expect to incur total asset disposal costs of around \$1.2bn during the period 2020 to 2022.

### Capital and dividend policy

We intend to maintain a CET1 ratio in excess of 14%, managing in the range of 14% to 14.5% in the medium term. We will seek to manage this range down in the longer term.

The Board has adopted a policy designed to provide sustainable dividends going forward. We intend to transition towards a target payout ratio of between 40% and 55% of reported earnings per ordinary share ('EPS') from 2022 onwards, with the flexibility to adjust EPS for non-cash significant items, such as goodwill or intangibles impairments. The Group has decided to discontinue the scrip dividend option as it is dilutive, including to dividend per share progression over time.

## Reported results

### Reported profit

Reported profit after tax of \$6.1bn was \$2.6bn or 30% lower than in 2019.

Reported profit before tax of \$8.8bn was \$4.6bn or 34% lower due to a rise in reported ECL, primarily reflecting the impact of the Covid-19 outbreak on the forward economic outlook, and a fall in reported revenue, mainly from lower global interest rates. These were partly offset by lower reported operating expenses, reflecting the non-recurrence of a \$7.3bn impairment of goodwill in 2019, lower customer redress programme costs, a reduction of the variable pay accrual and lower discretionary expenditure.

Results in 2020 included the impact of certain volatile items, notably favourable market impacts in life insurance manufacturing in WPB of \$90m (2019: \$129m favourable) and favourable movements on our long-term debt and associated swaps in Corporate Centre of \$150m (2019: \$147m favourable). These were partly offset by adverse credit and funding valuation adjustments in GBM of \$252m (2019: \$44m favourable). Additionally in 2019, results included disposal gains in WPB and CMB of \$157m.

Our operations across Asia delivered resilient performances in 2020, despite the impact of lower interest rates and higher ECL, with reported profit before tax representing more than 146% of Group profits. Outside of Asia, in addition to higher ECL and lower interest rates, HSBC Bank plc and our US business incurred restructuring costs and charges from the impairment of intangibles, in part as a result of our strategic actions to address underperformance. Reported profit in MENA for 2020 included our share of an impairment by our associate, The Saudi British Bank ('SABB'), of \$462m, while 2019 included a \$0.8bn dilution gain recognised on the completion of the merger of SABB with Alawwal bank.

### Reported revenue

Reported revenue of \$50.4bn was \$5.7bn or 10% lower than in 2019, primarily reflecting the progressive impact of lower global interest rates on net interest income, notably in Retail Banking in WPB and Global Liquidity and Cash Management ('GLCM') in CMB and GBM. In WPB, revenue also reduced from lower unsecured lending, a fall in credit card spending and lower sales in insurance. In GBM, adverse valuation movements relating

### Reported profit after tax

**\$6.1bn**

(2019: \$8.7bn)

### Basic earnings per share

**\$0.19**

(2019: \$0.30)

	2020	2019	2018
	\$m	\$m	\$m
<b>Reported results</b>			
<b>Net operating income before change in expected credit losses and other credit impairment charges ('revenue')</b>	<b>50,429</b>	56,098	53,780
Change in expected credit losses and other credit impairment charges	(8,817)	(2,756)	(1,767)
<b>Net operating income</b>	<b>41,612</b>	53,342	52,013
Total operating expenses	(34,432)	(42,349)	(34,659)
<b>Operating profit</b>	<b>7,180</b>	10,993	17,354
Share of profit in associates and joint ventures	1,597	2,354	2,536
<b>Profit before tax</b>	<b>8,777</b>	13,347	19,890
Tax expense	(2,678)	(4,639)	(4,865)
<b>Profit after tax</b>	<b>6,099</b>	8,708	15,025

to the widening of credit spreads in the first quarter partly reversed as spreads narrowed in the subsequent quarters, and in WPB the adverse market impacts in life insurance manufacturing in the first quarter more than reversed over the same period.

These factors were partly offset by higher revenue in Global Markets as market volatility remained elevated. Revenue relating to Markets Treasury, which is allocated to our global businesses, also increased, primarily due to increased disposal gains.

Reported revenue included net adverse movements in significant items of \$0.6bn, primarily from the non-recurrence of a \$0.8bn dilution gain in 2019 as discussed above. Significant items in 2020 included restructuring and other related costs of \$0.2bn associated with disposal losses related to RWA reductions, as well as a property-related gain, both of which related to February 2020 business update commitments. Foreign currency translation differences resulted in a further adverse movement of \$0.5bn compared with 2019.

We have observed reductions in the Hong Kong interbank offered rate ('HIBOR') in the early part of 2021. This could put further pressure on net interest income, and also noting uncertainty around loan growth as economies recover from the Covid-19 pandemic.

### Reported ECL

Reported ECL of \$8.8bn were \$6.1bn higher than in 2019, with increases across all global businesses.

The ECL charge in 2020 reflected a significant increase in stage 1 and stage 2 allowances, notably in the first half of the year, to reflect the deterioration in the forward economic outlook globally as a result of the Covid-19 outbreak. The economic outlook stabilised in the second half of 2020 and as a result stage 1 and stage 2 allowances were broadly unchanged at 31 December 2020, compared with 30 June 2020. Stage 3 charges also increased compared with 2019, largely against wholesale exposures, including a significant charge related to a CMB client in Singapore in the first quarter of 2020.

While we expect the full year ECL charge for 2021 to be materially lower than in 2020, the outlook is highly uncertain and remains dependent on the future path of the Covid-19 outbreak, including the successful deployment of mass vaccination programmes, and the credit quality of our loan portfolio as government support packages are gradually withdrawn.

### Reported operating expenses

Reported operating expenses of \$34.4bn were \$7.9bn or 19% lower than in 2019, primarily reflecting a net favourable movement in significant items of \$6.6bn, driven by the non-recurrence of a \$7.3bn impairment of goodwill in 2019 and lower customer redress programme costs. Additionally, the reduction reflected lower performance-related pay, reduced discretionary expenditure and the impact of our cost-saving initiatives, partly offset by an increase in investments in technology, inflation and impairments of certain real estate assets.

The movement in significant items included:

- a \$1.1bn impairment of goodwill and other intangibles in 2020, primarily capitalised software related to the businesses within HSBC Bank plc and to a lesser extent in the US. It reflected underperformance and a deterioration in the future forecasts of these businesses, in the case of HSBC Bank plc substantially relating to prior periods. This compared with an impairment of goodwill of \$7.3bn in 2019, primarily related to lower long-term economic growth assumptions in CMB and GBM, and the planned reshaping of GBM; and
- a net release in customer redress programme costs of \$0.1bn in 2020, compared with charges of \$1.3bn in 2019.

These were partly offset by restructuring and other related costs of \$1.9bn in 2020, of which \$0.9bn related to severance, \$0.2bn related to an impairment of software intangibles and \$0.2bn related to the impairment of tangible assets in France and the US. This compared with restructuring and other related costs of \$0.8bn in 2019.

The reduction in reported operating expenses included favourable foreign currency translation differences of \$0.2bn.

## Reported results continued

### Reported share of profit in associates and joint ventures

Reported share of profit in associates of \$1.6bn was \$0.8bn or 32% lower than in 2019. This included our share of impairment of goodwill by SABB of \$462m. In addition, our share of profit from associates fell due to the impact of the Covid-19 outbreak and lower global interest rates.

### Tax expense

The tax expense of \$2.7bn was \$2.0bn lower than in 2019, and the effective tax rate for 2020 of 30.5% was lower than the 34.8% effective tax rate for 2019. An impairment of goodwill and non-deductible customer redress charges increased the 2019 effective tax rate. These were not repeated in 2020. Additionally, the non-taxable dilution gain arising on the merger of SABB with Alawwal bank decreased the

effective tax rate in 2019. Higher charges in respect of the non-recognition of deferred tax assets, particularly in the UK (\$0.4bn) and France (\$0.4bn), increased the 2020 effective tax rate.

## Adjusted performance

Our reported results are prepared in accordance with IFRSs, as detailed in the financial statements on page 324.

We also present alternative performance measures (non-GAAP financial measures). These include adjusted performance, which we use to align internal and external reporting, identify and quantify items management believes to be significant, and provide insight into how management assesses period-on-period performance. Alternative performance

measures are highlighted with the following symbol: ▶

To derive adjusted performance, we adjust for:

- the year-on-year effects of foreign currency translation differences; and
- the effect of significant items that distort year-on-year comparisons, which are excluded to improve understanding of the underlying trends in the business.

The results of our global businesses are presented on an adjusted basis, which is consistent with how we manage and assess global business performance.

▶ For reconciliations of our reported results to an adjusted basis, including lists of significant items, see page 99. Definitions and calculations of other alternative performance measures are included in our 'Reconciliation of alternative performance measures' on page 119.

Adjusted results ▶	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Net operating income before change in expected credit losses and other credit impairment charges ('revenue')</b>	<b>50,366</b>	54,944	52,098	<b>(4,578)</b>	<b>(8)</b>
Change in expected credit losses and other credit impairment charges	<b>(8,817)</b>	(2,627)	(1,620)	<b>(6,190)</b>	<b>&gt;(200)</b>
Total operating expenses	<b>(31,459)</b>	(32,519)	(31,723)	<b>1,060</b>	<b>3</b>
<b>Operating profit</b>	<b>10,090</b>	19,798	18,755	<b>(9,708)</b>	<b>(49)</b>
Share of profit in associates and joint ventures	<b>2,059</b>	2,351	2,444	<b>(292)</b>	<b>(12)</b>
<b>Profit before tax</b>	<b>12,149</b>	22,149	21,199	<b>(10,000)</b>	<b>(45)</b>

### Adjusted profit before tax ▶

Adjusted profit before tax of \$12.1bn was \$10.0bn or 45% lower than in 2019, primarily from a rise in adjusted ECL and a fall in adjusted revenue. Adjusted ECL increased by \$6.2bn, mainly from charges in the first half of 2020 relating to the global impact of the Covid-19 outbreak on the forward economic outlook. Adjusted revenue decreased by \$4.6bn or 8%, primarily from the progressive impact of lower global interest rates in all our global businesses, notably in our deposit franchises, partly offset by higher revenue from Global Markets. Adjusted operating expenses decreased by \$1.1bn or 3% as we lowered performance-related pay and reduced discretionary expenditure while continuing to invest in our businesses.

### Reconciliation of reported to adjusted profit before tax

	2020	2019	2018
	\$m	\$m	\$m
<b>Reported profit before tax</b>	<b>8,777</b>	13,347	19,890
Currency translation	–	(122)	(519)
Significant items:	<b>3,372</b>	8,924	1,828
– costs of structural reform	–	158	361
– customer redress programmes	<b>(33)</b>	1,444	93
– disposals, acquisitions and investment in new businesses	<b>10</b>	(768)	165
– fair value movements on financial instruments	<b>(264)</b>	(84)	100
– impairment of goodwill and other intangibles	<b>1,090</b>	7,349	–
– past service costs of guaranteed minimum pension benefits equalisation	<b>17</b>	–	228
– restructuring and other related costs	<b>2,078</b>	827	66
– settlements and provisions in connection with legal and regulatory matters	<b>12</b>	(61)	816
– goodwill impairment (share of profit in associates and joint ventures)	<b>462</b>	–	–
– currency translation on significant items	–	59	(1)
<b>Adjusted profit before tax</b>	<b>12,149</b>	22,149	21,199

## Adjusted performance continued

### Adjusted revenue

Adjusted revenue of \$50.4bn was \$4.6bn or 8% lower than in 2019, reflecting falls in WPB (down \$3.6bn) and CMB (down \$1.9bn), partly offset by higher revenue in GBM (up \$0.4bn) and Corporate Centre (up \$0.4bn).

The reduction in adjusted revenue reflected the progressive impact of lower global interest rates in many of the key markets in which we operate. This had an adverse impact on revenue in Retail Banking within WPB, and in GLCM within CMB and GBM, although we grew deposit balances across these businesses compared with 2019. In WPB, revenue also reduced as the impact of the Covid-19 outbreak resulted in lower customer activity in unsecured lending, including a fall in credit card spending, and a reduction in sales of insurance and certain investment products. In GBM, adverse valuation movements, primarily in the first quarter, partly reversed in the subsequent quarters. This resulted in a net adverse movement in credit and funding valuation adjustments of \$0.3bn and a reduction in revenue of \$0.1bn in Principal Investments compared with 2019. In life insurance manufacturing, the adverse market impacts in the first quarter following the sharp fall in equity markets more than reversed over the remainder of the year.

These reductions were partly offset by higher revenue in Global Markets, as market volatility remained elevated, as well as in Corporate Centre. Revenue relating to Markets Treasury,

which is allocated to our global businesses, also increased, primarily due to higher disposal gains.

### Adjusted ECL

Adjusted ECL, which removes the period-on-period effects of foreign currency translation differences, were \$8.8bn, an increase of \$6.2bn from 2019. This increase occurred in all global businesses and mainly reflected charges related to the global impact of the Covid-19 outbreak.

The ECL charge in 2020 reflected a significant increase in stage 1 and stage 2 allowances, notably in the first half of the year, to reflect the deterioration in the forward economic outlook globally as a result of the Covid-19 outbreak. The economic outlook stabilised in the second half of 2020 and as a result, stage 1 and stage 2 allowances were broadly unchanged at 31 December 2020, compared with 30 June 2020. Stage 3 charges in 2020 increased compared with 2019, with the rise largely related to wholesale exposures, including a significant charge related to a CMB client in Singapore in the first quarter of 2020.

Adjusted ECL as a percentage of average gross loans and advances to customers was 0.81%, compared with 0.25% in 2019.

### Adjusted operating expenses

Adjusted operating expenses of \$31.5bn were \$1.1bn or 3% lower than in 2019, as we continued to review and reprioritise costs and investments to help mitigate revenue

headwinds. The decrease primarily reflected a \$0.5bn reduction in performance-related pay and lower discretionary expenditure, including marketing (down \$0.3bn) and travel costs (down \$0.3bn). In addition, our cost-saving initiatives resulted in a reduction of \$1.4bn, of which \$1.0bn related to our costs to achieve programme, and the UK bank levy was \$0.2bn lower than in 2019. These decreases were partly offset by an increase in investments in technology to enhance our digital and automation capabilities to improve how we serve our customers, as well as inflation and volume-related increases. In addition, the 2020 period included impairments of certain real estate assets.

We are forecasting broadly stable adjusted operating expenses in 2021, relative to 2020.

During 2020, we reduced the number of employees expressed in full-time equivalent staff ('FTE') and contractors by 11,011. This included a 9,292 reduction in FTE to 226,059 at 31 December 2020, while the number of contractors reduced by 1,719 to 5,692 at 31 December 2020.

### Adjusted share of profit in associates and joint ventures

Adjusted share of profit from associates of \$2.1bn was \$0.3bn or 12% lower than in 2019, primarily reflecting the impact of the Covid-19 outbreak and lower global interest rates on the share of profit we recognised from our associates.

## Balance sheet and capital

### Balance sheet strength

Total assets of \$3.0tn were \$269bn or 10% higher than at 31 December 2019 on a reported basis, and 7% higher on a constant currency basis. The increase in total assets included growth in cash balances and in financial investments, as well as from an increase in derivative assets, mainly reflecting favourable revaluation movements on interest rate derivatives. On a constant currency basis, loans and advances to customers reduced by \$25bn during the year, despite mortgage growth in WPB.

Customer accounts of \$1.6tn increased by \$204bn, or \$173bn on a constant currency basis, as corporate customers consolidated their funds and redeployed them into cash, while our personal customers reduced

spending, resulting in larger balances held in current and savings accounts.

### Distributable reserves

The distributable reserves of HSBC Holdings at 31 December 2020 were \$31.3bn. Movements in 2020 included the retained earnings of HSBC Holdings plc for the year, offset by distributions to and redemptions of preference shares and other equity instruments. Movements also included a \$1.7bn return of capital from a subsidiary, which had previously been considered as part of distributable reserves.

### Capital position

We actively manage the Group's capital position to support our business strategy and meet our regulatory requirements at all times,

including under stress, while optimising our capital efficiency. To do this, we monitor our capital position using a number of measures. These include: our capital ratios, the impact on our capital ratios as a result of stress, and the degree of double leverage being run by HSBC Holdings. Double leverage is a constraint on managing our capital position, given the complexity of the Group's subsidiary structure and the multiple regulatory regimes under which we operate. For further details, see page 211.

Our CET1 ratio at 31 December 2020 was 15.9%, up from 14.7% at 31 December 2019. This increase included the impact of the cancellation of the fourth interim dividend of 2019 and changes to the capital treatment of software assets.

### Liquidity position

We actively manage the Group's liquidity and funding to support our business strategy and meet regulatory requirements at all times, including under stress. To do this, we monitor our position using a number of risk appetite measures, including the liquidity coverage ratio and the net stable funding ratio. At 31 December 2020, we held high-quality liquid assets of \$678bn.

### Total assets (\$bn)

\$2,984bn

2020	2,984
2019	2,715
2018	2,558

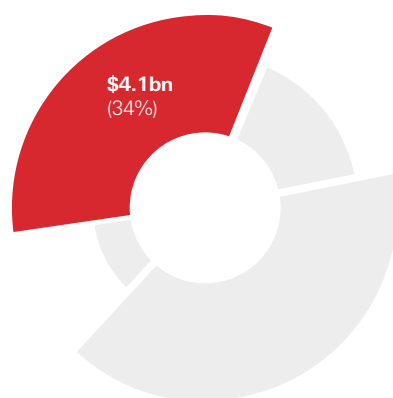
### Common equity tier 1 ratio (%)

15.9%

2020	15.9
2019	14.7
2018	14.0

# Wealth and Personal Banking

Contribution to Group adjusted profit before tax ▶



**WPB was formed in the second quarter of 2020 by combining our Retail Banking and Wealth Management and Global Private Banking businesses. Throughout the pandemic we supported our customers with payment holidays and by keeping between 70% to 90% of our branches open. Performance in 2020 was impacted by lower interest rates across most markets, reduced customer activity and a rise in adjusted ECL charges. However, we remain committed to serving our customers and increased our**

**net promoter scores in most of our channels in the UK and Hong Kong.**

We serve more than 38 million customers across the full spectrum from retail customers to ultra high net worth individuals and their families.

We offer locally-tailored products and services across multiple channels for our customers' everyday banking needs, as well as insurance, investment management, advisory and wealth solutions for those with more sophisticated requirements. Our global presence provides for customers with international needs.

Adjusted results ▶	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Net operating income</b>	<b>22,013</b>	25,565	23,551	<b>(3,552)</b>	<b>(14)</b>
Change in expected credit losses and other credit impairment charges	<b>(2,855)</b>	(1,348)	(1,072)	<b>(1,507)</b>	<b>(112)</b>
Operating expenses	<b>(15,024)</b>	(15,388)	(14,614)	<b>364</b>	<b>2</b>
Share of profit in associates and JVs	<b>6</b>	54	32	<b>(48)</b>	<b>(89)</b>
<b>Profit before tax</b>	<b>4,140</b>	8,883	7,897	<b>(4,743)</b>	<b>(53)</b>
RoTE excluding significant items and UK bank levy (%)	<b>9.1</b>	19.7	18.8		

## Financial planning delivered to your door

In 2020, we launched HSBC Pinnacle, a new financial planning business in mainland China, which offers insurance solutions and wealth services outside of branches, bringing them direct to new customers. Our wealth planners can advise on life and health protection, education savings, retirement and legacy planning – supporting multiple needs in one tailored proposition.

Blending seamless digital experiences with the expertise and great service of our people sits at the very heart of our approach.

The pioneering business has plans to hire 3,000 wealth professionals over a four-year period. By the end of 2020, almost 200 new colleagues were already helping customers in the cities of Shanghai, Guangzhou, Hangzhou and Shenzhen. Pinnacle is vital to our ambitions for growth and opportunity in one of the world's largest insurance markets, and supports our ambition to be the number one wealth manager in Asia in the medium to long term.



	2020	2019	2018	2020 vs 2019	
Management view of adjusted revenue	\$m	\$m	\$m	\$m	%
<b>Retail Banking</b>	<b>12,938</b>	15,655	14,746	<b>(2,717)</b>	<b>(17)</b>
– net interest income	<b>11,708</b>	13,993	13,155	<b>(2,285)</b>	<b>(16)</b>
– non-interest income	<b>1,230</b>	1,662	1,591	<b>(432)</b>	<b>(26)</b>
<b>Wealth Management</b>	<b>7,818</b>	8,633	7,778	<b>(815)</b>	<b>(9)</b>
– investment distribution	<b>3,209</b>	3,268	3,333	<b>(59)</b>	<b>(2)</b>
– life insurance manufacturing	<b>1,816</b>	2,464	1,621	<b>(648)</b>	<b>(26)</b>
– Global Private Banking	<b>1,746</b>	1,878	1,783	<b>(132)</b>	<b>(7)</b>
net interest income	<b>670</b>	891	884	<b>(221)</b>	<b>(25)</b>
non-interest income	<b>1,076</b>	987	899	<b>89</b>	<b>9</b>
– asset management	<b>1,047</b>	1,023	1,041	<b>24</b>	<b>2</b>
Other <sup>1</sup>	<b>429</b>	788	512	<b>(359)</b>	<b>(46)</b>
Markets Treasury, HSBC Holdings interest expense and Argentina hyperinflation	<b>828</b>	489	515	<b>339</b>	<b>69</b>
<b>Net operating income<sup>2</sup></b>	<b>22,013</b>	25,565	23,551	<b>(3,552)</b>	<b>(14)</b>

1 'Other' includes the distribution and manufacturing (where applicable) of retail and credit protection insurance, disposal gains and other non-product specific income.

2 'Net operating income' means net operating income before change in expected credit losses and other credit impairment charges (also referred to as 'revenue').

#### Divisional highlights

# \$1.6tn

WPB wealth balances at 31 December 2020, up 12% from 31 December 2019.

# \$22bn

Growth in mortgage book in the UK (up 9%) and Hong Kong (up 5%) since 31 December 2019.

#### Adjusted profit before tax

(\$bn)

# \$4.1bn

2020	4.1
2019	8.9
2018	7.9

#### Net operating income

(\$bn)

# \$22.0bn

2020	22.0
2019	25.6
2018	23.6

#### Financial performance

Adjusted profit before tax of \$4.1bn was \$4.7bn or 53% lower than in 2019. Despite this, we achieved a RoTE of 9.1%. The reduction in adjusted profit before tax reflected a fall in adjusted revenue and an increase in adjusted ECL from the impact of the Covid-19 outbreak. The reduction in revenue was mainly as a result of lower global interest rates, which particularly affected deposit margins, as well as from lower spending and reduced customer demand for borrowing.

Adjusted revenue of \$22.0bn was \$3.6bn or 14% lower, which included the non-recurrence of 2019 disposal gains in Argentina and Mexico of \$133m.

In Retail Banking, revenue of \$12.9bn was down \$2.7bn or 17%.

– Net interest income was \$2.3bn lower due to narrower margins from lower global interest rates. This reduction was partly offset by deposit balance growth of \$67bn or 9%, particularly in Hong Kong and the UK, and higher mortgage lending of \$22bn or 6%, mainly in the UK and Hong Kong.

– Non-interest income fell by \$0.4bn, driven by lower fee income earned on unsecured lending products primarily due to lower customer activity as a result of the Covid-19 outbreak.

In Wealth Management, revenue of \$7.8bn was down \$0.8bn or 9%.

– In life insurance manufacturing, revenue fell by \$0.6bn or 26%, mainly as the value of new business written reduced by \$0.4bn or 37% due to lower volumes following the Covid-19 outbreak, in part mitigated by

continued actions to support customers by improving our digital channels. The reduction also included lower favourable movement in market impacts of \$38m (2020: \$90m favourable, 2019: \$128m favourable), as the sharp adverse movement we saw in the first quarter reversed over subsequent quarters.

– In Global Private Banking, revenue was \$0.1bn or 7% lower, as net interest income fell as a result of lower global interest rates, although investment revenue increased, reflecting market volatility and higher fees from advisory and discretionary mandates.

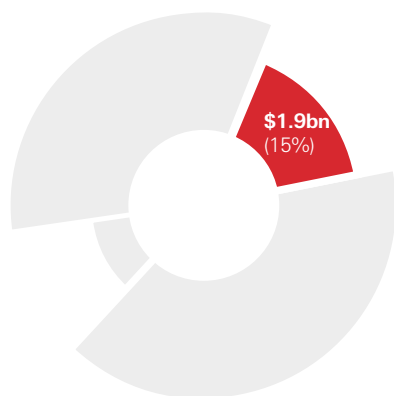
– In investment distribution, revenue was \$0.1bn or 2% lower, reflecting adverse market conditions, which resulted in lower mutual fund sales and a reduction in wealth insurance distribution. This was partly offset by higher brokerage fees from increased transaction volumes.

Adjusted ECL of \$2.9bn were \$1.5bn higher than in 2019, reflecting the global impact of the Covid-19 outbreak on the forward economic outlook across all regions, notably in the UK.

Adjusted operating expenses of \$15.0bn were \$0.4bn or 2% lower, as a decrease in performance-related pay and reduced discretionary expenditure more than offset the impact of inflation and our continued investment in digital.

# Commercial Banking

## Contribution to Group adjusted profit before tax ▶



Throughout 2020, CMB continued to support our customers' liquidity and working capital needs, growing deposit balances, while our ongoing investment in technology enabled us to support customers under exceptionally challenging conditions. Performance in 2020 was adversely impacted by an increase in adjusted ECL charges and lower global interest rates.

We support over 1.3 million business customers in 53 countries and territories, ranging from small enterprises focused primarily on their domestic markets to large companies operating globally.

We help entrepreneurial businesses grow by supporting their financial needs, facilitating cross-border trade and payment services, and providing access to products and services offered by other global businesses.

Adjusted results ▶	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Net operating income</b>	<b>13,312</b>	15,164	14,374	<b>(1,852)</b>	<b>(12)</b>
Change in expected credit losses and other credit impairment charges	<b>(4,754)</b>	(1,162)	(683)	<b>(3,592)</b>	<b>&gt;(200)</b>
Operating expenses	<b>(6,689)</b>	(6,832)	(6,307)	<b>143</b>	<b>2</b>
Share of profit in associates and JVs	<b>(1)</b>	—	—	<b>(1)</b>	<b>—</b>
<b>Profit before tax</b>	<b>1,868</b>	7,170	7,384	<b>(5,302)</b>	<b>(74)</b>
RoTE excluding significant items and UK bank levy (%)	<b>1.3</b>	13.0	13.2		

## Pioneering ecommerce solutions

Hong Kong-based SHOPLINE helps companies trade online through its ecommerce shopping platform. Founded in 2013, it has expanded to support over 250,000 merchants, which serve more than 80 million customers across 10 regions in Asia. We partnered with SHOPLINE to integrate advanced digital capabilities, such as our Business Collect and PayMe for Business services, into their propositions. These 'banking as a service' capabilities enable merchants to access the latest collections technology with no additional development required. Our collaboration with SHOPLINE embodies our passion to support small and medium-sized enterprises through innovation, enabling them to grow their platforms and ecosystems across Asia and beyond.





	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Management view of adjusted revenue</b> ▶					
Global Trade and Receivables Finance	1,744	1,826	1,806	(82)	(4)
Credit and Lending	5,640	5,421	5,162	219	4
Global Liquidity and Cash Management	4,178	5,932	5,625	(1,754)	(30)
Markets products, Insurance and Investments and Other <sup>1</sup>	1,596	2,023	1,836	(427)	(21)
Markets Treasury, HSBC Holdings interest expense and Argentina hyperinflation	154	(38)	(55)	192	>200
<b>Net operating income</b> <sup>2</sup>	<b>13,312</b>	15,164	14,374	<b>(1,852)</b>	<b>(12)</b>

1 Includes revenue from Foreign Exchange, insurance manufacturing and distribution, interest rate management and Global Banking products.

2 'Net operating income' means net operating income before change in expected credit losses and other credit impairment charges (also referred to as 'revenue').

#### Divisional highlights

# \$73.2bn

Growth in adjusted customer deposits in 2020. ▶

# +8%

Increase in international account openings.

#### Adjusted profit before tax

(\$bn)

# \$1.9bn

2020	1.9
2019	7.2
2018	7.4

#### Net operating income

(\$bn)

# \$13.3bn

2020	13.3
2019	15.2
2018	14.4

#### Financial performance

Adjusted profit before tax of \$1.9bn was \$5.3bn or 74% lower than in 2019. Adjusted ECL were higher, reflecting the impact of the Covid-19 outbreak, and adjusted revenue fell, which was primarily due to the impact of lower global interest rates.

Adjusted revenue of \$13.3bn was \$1.9bn or 12% lower.

– In GLCM, revenue decreased by \$1.8bn or 30% due to the impact of the lower global interest rates, mainly in Hong Kong and the UK. This was partly offset by a 16% increase in average deposit balances, with growth across all regions, particularly in the UK and the US.

– In Global Trade and Receivables Finance ('GTRF'), revenue decreased by \$82m or 4% from lower lending balances and fees, notably in Hong Kong and the UK, reflecting a reduction in global trade volumes as a result of the Covid-19 outbreak. This was partly offset by wider margins in the UK and Latin America.

– In 'Markets products, Insurance and Investments and Other', revenue was \$0.4bn lower, reflecting the impact of lower interest rates on income earned on capital held in the business, a fall in revenue from Insurance, Investments and Markets products, as well as a reduction in revaluation gains on shares. In addition, 2019 included a disposal gain of \$24m in Latin America.

This was partly offset by:

– In Credit and Lending, revenue increased by \$0.2bn or 4%, reflecting growth in average balances driven by the uptake of government-backed lending schemes and from wider margins.

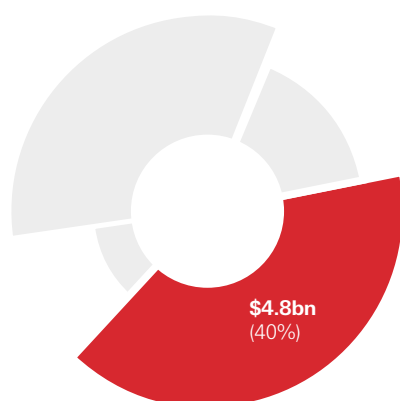
Adjusted ECL of \$4.8bn were \$3.6bn higher than in 2019. The increase reflected the global impact of the Covid-19 outbreak on the forward economic outlook, mainly in the UK and Asia. There were also higher charges against specific customers in 2020, particularly in the oil and gas and wholesale trade sectors, including a significant charge related to a corporate exposure in Singapore in the first quarter of 2020.

Adjusted operating expenses of \$6.7bn were \$0.1bn or 2% lower, reflecting a decrease in performance-related pay and reduced discretionary expenditure, while we continued to invest in our digital and transaction banking capabilities to improve customer experience.

In 2020, we delivered around \$13bn of RWA reductions as part of our transformation programme, which mitigated an increase from asset quality deterioration.

# Global Banking and Markets


Contribution to Group adjusted profit before tax 



**GBM increased adjusted revenue as strong Global Markets performance more than offset the impact of lower global interest rates and adverse movements in credit and funding valuation adjustments. In 2020, management actions delivered gross RWA reductions of \$37bn globally. Performance in Global Markets was achieved with both a decrease in RWAs and no increase in trading value at risk ('VaR').**

**We continue to invest in digital capabilities to provide value to our clients and support them in the current environment.**


We support major government, corporate and institutional clients worldwide. Our product specialists deliver a comprehensive range of transaction banking, financing, advisory, capital markets and risk management services.

Adjusted results 	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Net operating income</b>	<b>15,303</b>	14,869	15,056	<b>434</b>	<b>3</b>
Change in expected credit losses and other credit impairment charges	(1,209)	(153)	34	(1,056)	>(200)
Operating expenses	(9,264)	(9,544)	(9,316)	280	3
Share of profit in associates and JVs	—	—	—	—	—
<b>Profit before tax</b>	<b>4,830</b>	5,172	5,774	<b>(342)</b>	<b>(7)</b>
RoTE excluding significant items and UK bank levy (%)	<b>6.7</b>	9.8	9.5		

## Supporting Rolls-Royce with a capital markets drive

Rolls-Royce, the blue-chip FTSE 100 engineering company, needed to raise additional liquidity in the fourth quarter of 2020 as a consequence of the Covid-19 outbreak. We acted as joint global coordinator on a £2bn fully underwritten rights issue, which received strong support from Rolls-Royce shareholders with a 94% take-up. The rights issue was part of a broader liquidity solution that also incorporated raising additional debt, including a £2bn unsecured notes offering where we acted as joint bookrunner, and a £1bn term loan where we acted as lead arranger and bookrunner. The rights issue was the largest equity capital markets transaction we acted on in the UK in 2020 and demonstrates our expertise in offering holistic solutions to our clients across both equity and debt.



Management view of adjusted revenue 	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
Global Markets	7,290	5,728	6,243	1,562	27
– FICC	6,278	4,737	5,062	1,541	33
Foreign Exchange	3,373	2,671	2,898	702	26
Rates	1,734	1,451	1,416	283	20
Credit	1,171	615	748	556	90
– Equities	1,012	991	1,181	21	2
Securities Services <sup>1</sup>	1,792	2,026	1,925	(234)	(12)
Global Banking <sup>1</sup>	3,804	3,875	3,983	(71)	(2)
Global Liquidity and Cash Management	2,021	2,722	2,563	(701)	(26)
Global Trade and Receivables Finance	769	802	784	(33)	(4)
Principal Investments	114	261	219	(147)	(56)
Credit and funding valuation adjustments	(252)	41	(183)	(293)	>(200)
Other <sup>2</sup>	(575)	(642)	(579)	67	10
Markets Treasury, HSBC Holdings interest expense and Argentina hyperinflation	340	56	101	284	>200
<b>Net operating income<sup>3</sup></b>	<b>15,303</b>	<b>14,869</b>	<b>15,056</b>	<b>434</b>	<b>3</b>

1 From 1 June 2020, revenue from Issuer Services, previously reported in Securities Services, was reported within Global Banking. This resulted in \$96m additional revenue being recorded in Global Banking for 2020. Comparatives have not been restated.

2 'Other' in GBM includes allocated funding costs. In addition, notional tax credits are allocated to the businesses to reflect the economic benefit generated by certain activities to reflect the total operating income on an IFRS basis; the offset to these tax credits is included within 'Other'.

3 'Net operating income' means net operating income before change in expected credit losses and other credit impairment charges (also referred to as 'revenue').

### Divisional highlights

# 49%

Adjusted revenue generated in Asia in 2020. 

# \$8bn

Reduction in reported RWAs compared with 31 December 2019.

### Adjusted profit before tax

(\$bn)

# \$4.8bn

2020	4.8
2019	5.2
2018	5.8

### Net operating income

(\$bn)

# \$15.3bn

2020	15.3
2019	14.9
2018	15.1

### Financial performance

Adjusted profit before tax of \$4.8bn was \$0.3bn lower than in 2019, mainly due to higher adjusted ECL, which reflected the global impact of the Covid-19 outbreak and included charges relating to specific exposures, partly offset by higher adjusted revenue and lower adjusted operating expenses.

Adjusted revenue of \$15.3bn increased by \$0.4bn compared with 2019. We grew adjusted revenue, which included adverse movements in credit and funding valuation adjustments of \$0.3bn, while reducing net reported RWAs by \$8bn, compared with 31 December 2019.

– In Global Markets, revenue increased by \$1.6bn or 27%, as higher volatility levels and increased client activity, together with wider spreads supported an improved FICC performance, particularly in Foreign Exchange and Credit. Rates also performed strongly due to increased trading activity in government bonds.

This was partly offset by:

– In Securities Services, revenue fell by \$0.2bn or 12% due to lower global interest rates, mainly affecting Asia and Europe, although fees increased.

– In Global Banking, revenue decreased by \$0.1bn or 2%, reflecting lower real estate and structured finance fee income and losses on legacy corporate restructuring positions. However, we grew capital markets revenue and net interest income increased from corporate lending.

– In GLCM, revenue decreased \$0.7bn or 26% due to the impact of lower global interest rates and a fall in transaction volumes that reduced fee income, notably in the US and the UK, partly offset by a 21% growth in average balances, across all regions, particularly in the US, Asia and the UK.

– In GTRF, revenue decreased by \$33m or 4%, reflecting lower fees in Europe due to management actions taken to reduce RWAs, partly offset by repricing initiatives in Asia and Latin America.

– In Principal Investments, revenue fell by \$0.1bn, reflecting revaluation losses incurred in the first quarter of 2020, mainly in Europe, as a result of the Covid-19 outbreak, which partly reversed in the remainder of the period.

Adjusted ECL were \$1.2bn, up \$1.1bn compared with 2019 from charges relating to the impact of the Covid-19 outbreak on the forward economic outlook, particularly in Europe, MENA and North and Latin America.

Adjusted operating expenses of \$9.3bn were \$0.3bn or 3% lower, reflecting management's cost reduction initiatives and from lower performance-related pay, which more than offset growth in regulatory programme costs and investments in technology.

In 2020, net reported RWAs fell by \$8bn. We delivered around \$37bn of RWA reductions in 2020, taking our cumulative reduction, including accelerated saves relating to our transformation programme, to \$47bn. This mitigated RWA growth from asset quality deterioration, elevated market volatility and from regulatory changes.

# Corporate Centre

During 2020, we began allocating the revenue and expenses relating to Markets Treasury, the funding costs of HSBC Holdings debt and the impacts of hyperinflation in Argentina to the global businesses. This was to improve how we reflect revenue and expense related to the global businesses generating or utilising these activities. All comparatives have been restated accordingly.

The results of Corporate Centre now primarily comprise the share of profit from our interests in our associates and joint ventures, together with Central Treasury revenue, stewardship costs and consolidation adjustments.

## Financial performance

Adjusted profit before tax of \$1.3bn was \$0.4bn higher than in 2019.

Adjusted revenue increased by \$0.4bn, which included intersegment eliminations, largely related to movements in own shares held by the global businesses, which offset an equivalent adverse movement in these businesses. In addition, certain funding costs that were retained in Corporate Centre during 2019 were allocated to global businesses with effect from 1 January 2020. Revenue in our

Adjusted results ▶	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
<b>Net operating income</b>	<b>(262)</b>	(654)	(883)	<b>392</b>	<b>60</b>
Change in expected credit losses and other credit impairment charges	1	36	101	(35)	(97)
Operating expenses	(482)	(755)	(1,486)	273	36
Share of profit in associates and JVs	2,054	2,297	2,412	(243)	(11)
<b>Profit before tax</b>	<b>1,311</b>	924	144	<b>387</b>	<b>42</b>
RoTE excluding significant items and UK bank levy (%)	3.1	0.8	1.6		

legacy portfolios rose by \$0.1bn due to the non-recurrence of portfolio losses in 2019.

Adjusted operating expenses, which are stated after recovery of costs from our global businesses, decreased by \$0.3bn due to a lower UK bank levy charge and a reduction in discretionary expenditure.

Share of profit in associates and joint ventures decreased by \$0.2bn, primarily due to the impact of falling interest rates and the Covid-19 outbreak.

Management view of adjusted revenue ▶	2020	2019	2018	2020 vs 2019	
	\$m	\$m	\$m	\$m	%
Central Treasury <sup>1</sup>	156	179	(313)	(23)	(13)
Legacy portfolios	(17)	(111)	(83)	94	85
Other <sup>2</sup>	(401)	(722)	(487)	321	44
<b>Net operating income<sup>3</sup></b>	<b>(262)</b>	(654)	(883)	<b>392</b>	<b>60</b>

1 Central Treasury includes favourable valuation differences on issued long-term debt and associated swaps of \$150m (2019: gains of \$146m; 2018: losses of \$313m).

2 In June 2020, we began allocating the revenue from Markets Treasury, HSBC Holdings net interest expense and Argentina hyperinflation out to the global businesses, to align them better with their revenue and expense. The total Markets Treasury revenue component of this allocation for 2020 was \$2,809m (2019: \$2,040m; 2018: \$2,213m).

3 'Net operating income' means net operating income before change in expected credit losses and other credit impairment charges (also referred to as 'revenue').

# Risk overview

Active risk management helps us to achieve our strategy, serve our customers and communities and grow our business safely.

## Managing risk

Unprecedented global economic events meant banks played an expanded role in supporting society and customers in 2020. Many of our customers' business models and income were impacted by the global economic downturn caused by the Covid-19 outbreak, requiring them to take significant levels of support from both governments and banks.

Throughout the pandemic, we continued to support our customers and adapted our operational processes. We maintained high levels of service as our people, processes and systems responded to the required changes.

The financial performance of our operations varied in different geographies, but the balance sheet and liquidity of the Group remained strong. This helped us to support our customers both during periods of government imposed restrictions and when these restrictions were eased.

To meet the additional challenges, we supplemented our existing approach to risk management with additional tools and practices. We increased our focus on the quality and timeliness of the data used to inform management decisions, through measures such as early warning indicators, prudent active risk management of our risk appetite, and ensuring regular communication with our Board and key stakeholders.

### Our risk appetite

Our risk appetite defines our desired forward-looking risk profile, and informs the strategic and financial planning process. It provides an objective baseline to guide strategic decision making, helping to ensure that planned business activities provide an appropriate balance of return for the risk assumed, while remaining within acceptable risk levels.

Our risk appetite also provides an anchor between our global businesses and the Global Risk and Global Finance functions, helping to enable our senior management to allocate capital, funding and liquidity optimally to finance growth, while monitoring exposure and the cost impacts of managing non-financial risks.

In 2020, we continued to evolve our risk appetite by reallocating both financial and non-financial resources and adapting aspects of our risk appetite statement to ensure we remained able to support our customers and strategic goals

### Key risk appetite metrics

Component	Measure	Risk appetite	2020
Returns	Return on average tangible equity ('RoTE')	≥6.5%	3.1%
Capital	CET1 ratio – end point basis <sup>1</sup>	≥13.1%	15.9%
Change in expected credit losses and other credit impairment charges	Change in expected credit losses and other credit impairment charges as a % of advances: retail	≤0.50%	0.68%
	Change in expected credit losses and other credit impairment charges as a % of advances: wholesale (GBM, CMB, Global Private Banking)	≤0.45%	0.89%

against the backdrop of the Covid-19 outbreak. We placed a specific emphasis on capital and liquidity to ensure the Group could withstand extreme but plausible stress, and had adequate capacity to provide increasing levels of financial support to customers. Associated non-financial risks were reviewed and, where applicable, processes and controls were enhanced to accommodate material increases in lending volumes and help our people manage the lending process from a home environment. A particular focus was placed on enhancing our risk appetite statement to provide early warnings of credit deterioration, deliver a more holistic view of the Group's resilience capabilities and develop a climate risk appetite focusing on transition and physical risk. Significant work is also underway to further develop our risk appetite framework, with forward-looking statements informed by stress testing.

As seen in the key risk appetite metrics table, the financial impact of the Covid-19 outbreak is apparent with RoTE and ECL outside of appetite. These are subject to close monitoring and management actions focusing on adapting our strategy in the context of the pandemic and recovery. We have conducted reviews of our portfolios that are highly vulnerable to general economic conditions and additional review measures have been implemented for new credit requests.

### Stress tests

We regularly conduct stress tests to assess the resilience of our balance sheet and our capital adequacy, as well as to provide actionable insights into how key elements of our portfolios may behave during crises. We use the outcomes to calibrate our risk appetite and to review the robustness of our strategic and financial plans, helping to improve the quality of management's decision making. Stress testing analysis assists management in

understanding the nature and extent of vulnerabilities to which the Group is exposed. The results from the stress tests also drive recovery and resolution planning to enhance the Group's financial stability under various macroeconomic scenarios. The selection of stress scenarios is based upon the identification and assessment of our top and emerging risks identified and our risk appetite.

In 2020, the Bank of England ('BoE') and European Banking Authority ('EBA') cancelled the requirement for all participating banks to conduct their respective 2020 stress test exercises in light of the emerging impacts of the Covid-19 outbreak. Notwithstanding this, we conducted a range of internal stress tests during 2020. These included stress tests covering several potential Covid-19-related outcomes, incorporating assessments from credit experts to assess the resilience of key balance sheet metrics including capital adequacy and liquidity. We are regularly reviewing the economic impacts for key economies and markets to understand potential vulnerabilities in our balance sheet and to identify appropriate mitigating actions. We continue to monitor emerging geopolitical, economic and environmental risks impacting the Group's capital adequacy and liquidity. Our balance sheet and capital adequacy remain resilient based on regulatory and internal stress test outcomes.

We also developed a framework for our climate stress testing and scenario analysis capabilities. We conducted a pilot climate scenario analysis on some of our portfolios exposed to climate risk. The analysis was used to identify the most material drivers of climate risk within our business, and create informed insights of our climate exposures for use in our risk management and business decision making.

### Our operations

We remain committed to investing in the reliability and resilience of our IT systems and critical services that support all parts of our business. We do so to protect our customers, affiliates and counterparties, and to help ensure that we minimise any disruption to services that could result in reputational and regulatory consequences. We continue to operate in a challenging environment in which cyber threats are prevalent. To help defend against these threats we continue to invest in

business and technical controls, such as our infrastructure, software solutions, and system resilience and service continuity.

We have started to move forward with the implementation of our business transformation plans. This follows a pause on some elements during the first half of 2020 to help ensure our continued safe operation and to support our people and communities during a period of significant change due to the Covid-19 outbreak. We are aiming to manage the risks

of the restructuring safely, which include execution, operational, governance, reputational, conduct and financial risks. We put support in place to help our people, particularly when we are unable to find alternative roles for them as a result of the business transformation plans.

For further details on our risk management framework and risks associated with our banking and insurance manufacturing operations, see pages 160 and 161 respectively.

### Risks related to Covid-19

The Covid-19 outbreak and its effect on the global economy have impacted our customers and our performance, and the future effects of the outbreak remain uncertain. The outbreak necessitated governments to respond at unprecedented levels to protect public health, local economies and livelihoods. It has affected regions at different times and to varying degrees as it has developed. The varying government support measures and restrictions in response have added challenges, given the rapid pace of change and significant operational demands. The speed at which countries and territories will be able to unwind the government support measures and restrictions and return to pre-Covid-19 economic levels will vary based on the levels of infection, local governmental decisions and access to and ability to roll out vaccines. There remains a risk of subsequent waves of infection, as evidenced by the recently emerged variants of the virus. Renewed outbreaks emphasise the ongoing threat of Covid-19 even in countries that have recorded lower than average cases so far. We continue to monitor the situation.

The development of Covid-19 vaccines has raised hopes of widespread immunisation being achieved by the end of 2021 and government restrictions being eased. However, tensions could increase as countries compete for access to the array of vaccines either under

development, approved or pending approval, while the potential differences in protection offered by vaccines and the speed and scale with which they can be manufactured and distributed may further add to tensions.

The Covid-19 outbreak has led to a significant weakening in GDP in many of our markets, although regions and sectors have rebounded to differing levels from their previous low points. Economic consensus forecasts have stabilised in recent months and monthly changes to the forecasts have become smaller, with a partial rebound broadly predicted for 2021. However, there is wide dispersion in forecasts, and these have yet to incorporate fully the adverse effect of the most recent stringent government restrictions that have been imposed in an increasing number of countries. Labour markets in several key economies (namely those of the UK and EU) may take longer to recover, with unemployment rates expected to rise in 2021 as government support measures are discontinued or tapered off.

Notwithstanding the potential for recovery in 2021, GDP levels are unlikely to return to pre-Covid-19 levels until later years in many markets. Differing levels of vaccine access between markets will also hamper economic recovery and could see individual markets rebound at different paces.

While the longer-term effects of the outbreak on businesses are uncertain, our financial position should allow us to continue to help support our customers. The management of capital and liquidity remains a key focus area and is being continually monitored both at Group and entity levels.

The nature and scale of the Covid-19 crisis has necessitated strong responses from governments, central banks and regulators, and the outbreak has also resulted in changes in the behaviours of our retail and wholesale customers. These factors have impacted the performance of our expected credit loss models, requiring enhanced monitoring of model outputs and use of compensating controls, specifically management judgemental adjustments based on the expert judgement of senior credit risk managers. In addition, we have built up our operational capacity rapidly in response to government and central bank support measures aimed at combating the impacts of the Covid-19 outbreak, and have been responding to complex conduct considerations and heightened risk of fraud related to these external programmes.

For further details on our approach to the risks related to Covid-19, see 'Areas of special interest' on page 157.

### Geopolitical and macroeconomic risks

The geopolitical and economic landscape was dominated by the Covid-19 outbreak for much of 2020 and the virus and its economic impact is expected to remain the dominating factor of 2021. The pandemic contributed to an increasingly fragmented trade and regulatory environment, and impacted business and investor sentiment during a period of heightened existing US-China tensions and trade negotiations between the UK and the EU.

Central banks reduced interest rates in most financial markets due to the adverse impact of the pandemic, which has in turn increased the likelihood of negative interest rates. Prolonged low interest rates and flatter interest rate curves in major financial markets continue to present risks and concerns, such as our readiness to accommodate zero or negative rates, the resulting impacts on customers, and the financial implications on our net interest income.

A range of tensions in US-China relations could have potential ramifications for the Group and its customers. These tensions could include divisions over Hong Kong, US funding of and trading with strategic Chinese industries, claims of human rights violations, and others. Some of these tensions have manifested themselves through actions taken by the governments of the US and China in 2020 and early 2021. These tensions may affect the Group as a result of the impact of sanctions, including sanctions that impact the Group's customers, as well as regulatory, reputational and market risks. The US has imposed a range of sanctions and trade restrictions on Chinese persons and companies, focusing on entities the US believes are involved in human rights violations, information technology and communications equipment and services, and military activities, among others. In response, China has announced a number of sanctions and trade restrictions that target or provide authority to target foreign officials and companies,

including those in the US. Certain measures are of particular relevance, including the US Hong Kong Autonomy Act. It remains unclear the extent to which the new US administration will affect the current geopolitical tensions following the inauguration of President Biden. We continue to monitor the situation.

Investor and business sentiment in some sectors in Hong Kong remains dampened, although the financial services sector has remained strong and has benefited from stable liquidity conditions.

The financial impact to the Group of geopolitical risks in Asia is heightened due to the strategic importance of the region, and Hong Kong in particular, in terms of profitability and prospects for growth.

For further details on our approach to geopolitical and macroeconomic risks, see 'Top and emerging risks' on page 140.

### UK withdrawal from the European Union

The UK left the EU on 31 January 2020 and entered a transition period until 31 December 2020. A Trade and Cooperation Agreement between the EU and the UK was agreed on 24 December 2020 and ratified by the UK on 30 December 2020. The deal mainly focused on goods and services but also covered a wide range of other areas, including competition, state aid, tax, fisheries, transport, data and security. However, it included limited elements on financial services, and, as a result, did not change HSBC's planning in relation to the UK's withdrawal from the EU.

The EU and UK agreed through a joint declaration to establish structured regulatory cooperation on financial services, with the aim of establishing a durable and stable relationship between autonomous jurisdictions. Based on a shared commitment to preserve financial stability, market integrity, and the protection of investors and consumers, these arrangements are expected to allow for:

- bilateral exchanges of views and analysis relating to regulatory initiatives and other issues of interest;
- transparency and appropriate dialogue in the process of adoption, suspension and withdrawal of equivalence decisions; and
- enhanced cooperation and coordination, including in international bodies as appropriate.

In the coming months, both parties are expected to enter discussions with the aim of agreeing a memorandum of understanding establishing the framework for this cooperation. The parties are expected to discuss, inter alia, how to move forward on both sides with financial equivalence determinations between the EU and UK.

Our global presence and diversified customer base should help mitigate the direct impacts on our financial position of the absence of a comprehensive agreement on financial

services between the UK and EU. Our existing footprint in the EU, and in particular our subsidiary in France, provides a strong foundation for us to build upon. As part of our stress testing programme, a number of internal macroeconomic and event-driven scenarios were assessed to support our planning for, and evaluation of, the impact of the UK's withdrawal from the EU. The results confirmed that we are well positioned to withstand potential shocks. However, the UK's withdrawal from the EU is likely to increase market volatility and economic risk, particularly in the UK, which could adversely impact our profitability and prospects for growth in this market.

▶ For further details on our approach to the UK's withdrawal from the EU, see 'Areas of special interest' on page 157.

### Ibor transition

Throughout 2020, our interbank offered rate ('Ibor') transition programme, which is tasked with the development of new replacement near risk-free rate ('RFR') products and transition from legacy Ibor products, has continued to implement the required IT and operational changes necessary to facilitate an orderly transition from Ibors to RFRs, or alternative benchmarks, such as policy interest rates. These changes have enabled HSBC to meet regulatory endorsed milestones related to product readiness and the clearing house-led transition to RFR discounting. Additionally, to further support our business and our customers, our programme's scope has widened to include additional interest rate benchmarks, which now have a plan for demise in the near future. The Ibor transition

programme now covers 12 interest rate benchmarks: five London interbank offered rate ('Libor') currencies; four Asia-Pacific benchmarks that reference US dollar Libor; the Euro Overnight Index Average ('Eonia'); the Singapore interbank offered rate ('Sibor'); and Turkish Lira interbank offered rate ('TRLibor').

Global business lines, functions and, where appropriate, HSBC entities have identified financial and non-financial risks related to the transition and developed key actions to mitigate the identified risks. These risks include those associated with the continued sale of products referencing Ibor, through 2020. However, HSBC has actively removed certain Ibor referencing products from sale, and implemented processes and controls to

manage the continued sale of Ibor products to assist in meeting our clients' needs. As products referencing Ibor continue to be sold, and RFR products are developed, considerations relating to the enforceability of Ibor fallback provisions and the evolution of RFR market conventions have increased legal and compliance risks.

Furthermore, the impact of the Covid-19 outbreak has compressed timelines for client engagement and potentially increased the resilience risks associated with the rollout of new products, transition of legacy contracts, and new RFR product sales.

▶ For further details on our approach to Ibor transition, see 'Top and emerging risks' on page 140.

### Top and emerging risks

Our top and emerging risks report identifies forward-looking risks so that they can be considered in determining whether any incremental action is needed to either prevent them from materialising or to limit their effect.

Top risks are those that may have a material impact on the financial results, reputation or business model of the Group in the year ahead. Emerging risks are those that have large unknown components and may form beyond a one-year horizon. If any of these risks were to occur, it could have a material adverse effect on HSBC.

Our suite of top and emerging risks is subject to review by senior governance forums. In January 2020, our top and emerging risk

themes were streamlined to interconnect appropriate thematic risk issues that impact our portfolios and business. The themes 'geopolitical risk', 'the credit cycle' and 'economic outlook and capital flows' were merged into a single theme under 'geopolitical and macroeconomic risks'. We continue to monitor closely the identified risks and ensure robust management actions are in place, as required. In December 2020, change execution risk was added as a new thematic risk due to the level of change in priorities resulting from the Group transformation programme and other regulatory or remediation programmes.

Risk	Trend	Mitigants
<b>Externally driven</b>		
Geopolitical and macroeconomic risks	▲	We monitor developments in geopolitical and macroeconomic risk and assess what impacts these may have on our portfolios. The Covid-19 outbreak, heightened US-China geopolitical tensions and the UK's withdrawal from the EU have resulted in an unprecedented global economic slowdown, leading to a significant increase in credit stress in our portfolio. We have increased the frequency and depth of monitoring activities, and performed stress tests and other sectoral reviews to identify portfolios or customers who were experiencing, or were likely to experience, financial difficulty as a result.
Cyber threat and unauthorised access to systems	▶	We help protect HSBC and our customers by continuing to strengthen our cyber defences, helping enable the safe execution of our business priorities and the security of our customers' information. Our data-driven approach, grounded in strong controls that help to mitigate advanced cyber threats, enhances our capability in threat detection, access controls and resiliency.
Regulatory compliance risk environment, including conduct	▶	We monitor regulatory developments closely and engage with regulators, as appropriate, to help ensure that new regulatory requirements are implemented effectively and in a timely way. In addition to developments driven by the Covid-19 outbreak, we are keeping abreast of the emerging regulatory agenda, which is increasingly focused on diversity, sustainable development, climate change, operational resilience and digital services and innovation.
Financial crime risk environment	▲	We continued to support the business and our customers throughout the Covid-19 outbreak, while ensuring that our controls remained effective to manage financial crime risk. We progressed with our plans to improve our fraud controls and continue to invest in both advanced analytics and artificial intelligence ('AI'), which remain key components of our next generation of tools to fight financial crime. Additionally we continued to update our policies and controls in response to new, increasingly complex sanctions and export control regulations, which reflected heightened geopolitical tensions.
Ibor transition	▲	We remain focused on providing alternative near risk-free rate products, and the supporting processes and systems, to replace all outstanding Ibor-linked contracts that are on a demise path. We engage with industry participants and regulatory working groups to aid an orderly transition within the required timelines. In light of delays in market and client readiness caused by the Covid-19 outbreak, we are engaging and prioritising clients for transition of their outstanding contracts linked to Ibors that already have a confirmed demise.
Climate-related risks	▲	We continue to enhance the identification, oversight and management of climate risk. In 2020, we enhanced our climate risk appetite statement with quantitative metrics to articulate the risks from climate change, and formalised our overall approach to climate risk management. We also started to integrate climate risk into the Group-wide risk management framework (see our <i>TCFD Update 2020</i> for further information).
<b>Internally driven</b>		
IT systems infrastructure and resilience	▶	We actively monitor and improve service resilience across our technology infrastructure to minimise service disruption to our customers, and enhance our service management disciplines and change execution capabilities. We continued to adapt our IT systems during 2020 to support our customers and operations during the Covid-19 outbreak.
Risks associated with workforce capability, capacity and environmental factors with potential impact on growth	▲	We monitor workforce capacity and capability requirements in line with our published growth strategy and any emerging issues in the markets in which we operate. We have put in place measures to help ensure that our people are supported and able to work safely during the Covid-19 outbreak. We are monitoring people risks that may arise due to business transformation to help ensure that we sensitively manage any redundancies and support impacted employees.
Risks arising from the receipt of services from third parties	▶	We continue to enhance our third-party risk management programme to help ensure engagements comply with our third-party risk policy and required standards. We work closely with providers to monitor performance. In 2021, we will continue to strengthen our third-party risk framework and improve our technology, process and people capabilities.
Model risk management	▲	We continue to strengthen our oversight of models and the second line of defence Model Risk Management function. We are embedding a new model risk policy, which includes updated controls around the monitoring and use of models. We have developed new model risk appetite measures, which we expect to implement in the first quarter of 2021. A redevelopment of our IFRS 9 and capital models is underway to reflect the potential effects of the extreme economic shocks and various government support measures as a consequence of the Covid-19 outbreak.
Data management	▶	We continue to enhance and advance our insights, data aggregation, reporting and decisions through ongoing improvement and investments in data governance, data quality, data privacy, data architecture, and analytics (including machine learning and AI capabilities). Our work to modernise our data infrastructure also continues, building on the Cloud to increase flexibility and scalability and improve our fit-for-purpose data while also respecting the evolving regulatory landscape regarding the localisation of data. This is a crucial component of effectively managing our risk.
Change execution risk	▲	We have established a global transformation programme to oversee all initiatives mobilised to deliver the commitments made to restructure the business and reduce costs. The related execution risks are being monitored and managed, recognising that many initiatives impact our colleagues and require continued investment in technology. We are working to strengthen our change management practices to deliver changes efficiently and safely.

▲ Risk heightened during 2020

▶ Risk remained at the same level as 2019



This page is intentionally left blank

An aerial photograph of a winding asphalt road that curves through a dense, lush green forest. The road is flanked by a white guardrail and a dirt shoulder. The trees are tall and closely packed, creating a rich green canopy. The lighting suggests a bright, sunny day.

# Environmental, social and governance review

43	Our approach to ESG
44	Climate
52	Customers
62	Employees
70	Governance

## Our ESG reporting

We have changed how we report this year by embedding the content previously provided in our stand-alone *ESG Update* within our *Annual Report and Accounts*. This is to further demonstrate that how we do business is just as important as what we do. In response to the feedback from our investors, we are publishing a more extensive breakdown of ESG information in a supplementary *ESG Data Pack* for the first time alongside the ESG review, which can be found at [www.hsbc.com/esg](http://www.hsbc.com/esg).

# Our approach to ESG

We have sought to support our stakeholders through an unprecedented year, as we set a new climate ambition and refined our purpose, ambition and values to reflect our strategy.

## About the ESG review

Our new purpose is: 'Opening up a world of opportunity'.

To achieve our purpose and deliver our strategy in a way that is sustainable, we are guided by our values: we value difference; we succeed together; we take responsibility; and we get it done.

We also need to build strong relationships with all of our stakeholders, who are the people who work for us, bank with us, own us, regulate us, and live in the societies we serve and the planet we all inhabit.

Having a clear purpose and strong values have never been more important, with the Covid-19 pandemic testing us all in ways we could never have anticipated.

We introduced payment relief measures to our customers as part of government-backed and our own schemes, which impacted 87,000 personal accounts and \$5.5bn in balances, as at the end of 2020. We also provided \$35.3bn of lending support to more than 237,000 wholesale customers. For our colleagues, we adapted to new ways of working and provided extra support and resources to manage their mental and physical health. We also announced our climate ambition of net zero by 2050, but we know this is a journey and that the current means of tracking emissions globally need improving.

In this Environmental, Social and Governance ('ESG') review, we aim to set out our approach to our climate, customers, employees and governance.

### Environmental



– We announced our net zero climate ambition and increased our climate disclosures under TCFD, but we recognise more work is needed as methods to measure progress evolve.



– We surpassed our goal of reducing CO<sub>2</sub> per FTE to 2.0 tonnes in 2020, although we acknowledge this was mainly due to the consequences of the Covid-19 pandemic.

▶ Read more in the Climate section on page 44.

### Social



– The customer shift to digital accelerated, with 54% of retail customers digitally active in 2020. Mobile app downloads of our core business digital platform, HSBCnet, rose 146%.

– An increase in complaints in certain markets reflected a challenging year, but we continued to embed new ways of capturing feedback.

▶ Read more in the Customers section on page 52.



– Employees responded to our Snapshot surveys at a record rate, and our employee advocacy rose five points to 71%.

– We met our target of 30% women in senior leadership roles, and published ethnicity data in the UK and US. We recognise we need to take action, and aim to at least double the number of Black employees in senior leadership roles by 2025.

▶ Read more in the Employees section on page 62.

### Governance



– Our pioneering scheme to help survivors of human trafficking is used as a model for making financial services more accessible.



– In seeking to safeguard the financial system, we screen over 708 million transactions each month for signs of money laundering and financial crime.

▶ Read more in the Governance section on page 70.

## How we decide what to measure

We listen to our stakeholders in a number of different ways, which we set out in more detail within the ESG review. We use the information they provide us to identify the issues that are most important to them – and consequently also matter to our own business.

Our ESG Steering Committee and other relevant governance bodies regularly discuss the new and existing themes and issues that matter to our stakeholders. Our management team then uses this insight, alongside the framework of the ESG Guide (which refers to our obligations under the Environmental,

Social and Governance Reporting Guide contained in Appendix 27 to The Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited) to choose what we measure and publicly report in this ESG review.

Recognising the need for a consistent and global set of ESG metrics, we have committed to start aligning to World Economic Forum core metrics from next year.

Under the ESG Guide, 'materiality' is considered to be the threshold at which

ESG issues become sufficiently important to our investors and other stakeholders that they should be publicly reported. We are also informed by stock exchange listing and disclosure rules globally. We know that what is important to our stakeholders evolves over time and we will continue to assess our approach to ensure we remain relevant in what we measure and publicly report.

▶ For further information on our approach to reporting, see the 'Additional information' section on page 1b.



# Climate

We are powering new solutions to the climate crisis and supporting the transition to a low-carbon future, moving to carbon net zero ourselves and helping others to do so too.

## At a glance

### Our climate ambition

The transition to net zero carbon emissions creates a clear opportunity to set the global economy on a more sustainable, resilient and inclusive path. We have the ability to catalyse a resilient, vibrant future by financing the transformation of businesses and infrastructure to a low-carbon economy.

We have a strong track record of leadership in the transition to a low-carbon economy. In 2017, we committed that we would provide and facilitate \$100bn of sustainable finance and investment by 2025. Since then, we have achieved \$93.0bn of that goal, launched a number of award-winning products and been recognised as a leading bank for sustainable finance.

Achieving the scale of change required for the world to meet the Paris Agreement goal of net zero by 2050 will require us to go further and faster. As such, in October 2020, we set out a three-part plan to accelerate financing for the transition to net zero, underpinned by strong governance and risk management.

▶ A summary of our fourth TCFD disclosure can be found on page 20 in our *Strategic Report*. The full *TCFD Update 2020* can be found at [www.hsbc.com/esg](http://www.hsbc.com/esg).

## Becoming a net zero bank



To achieve our ambition to be a net zero bank, we can make changes both in our own operations and for our customers through our financing portfolio. We aim to bring our operations and supply chain to net zero by 2030 or sooner, and align our financed emissions to the Paris Agreement goal to achieve net zero by 2050 or sooner.

▶ Read more on becoming a net zero bank on page 45.

## Supporting our customers through transition



The most significant contribution we can make to solving the climate crisis is supporting our customers to decarbonise, while helping to ensure their ongoing resilience and prosperity. Our aim is to provide between \$750bn and \$1tn of sustainable finance and investment by 2030 to support our customers to transition to lower carbon emissions.

▶ Read more on supporting our customers through transition on page 48.

## Unlocking climate solutions and innovations



We need new ideas to increase the pace of the transition to net zero. We are working with a range of partners to increase investment in natural resources, technology and sustainable infrastructure. We also plan to donate \$100m to a programme that will support climate solutions to scale over the next five years.

▶ Read more on unlocking climate solutions and innovations on page 50.

## Our approach to sustainability policies



Our sustainability policies help define our appetite for business, and seek to encourage customers to meet good international standards of practice. In light of our new net zero ambition, we are undertaking a review of our sustainability risk policies. We have also removed an exception to our energy policy and are a signatory of the Equator Principles.

▶ Read more on our approach to sustainability policies on page 51.

## Awards and achievements



*Euromoney* Awards for Excellence 2020  
 World's Best Bank for Sustainable Finance  
 (second consecutive year)  
 Asia's Best Bank for Sustainable Finance  
 Middle East's Best Bank for Sustainable Finance  
 Western Europe's Best Bank for Sustainable Finance



*The Banker* Investment Banking Awards 2020  
 Best Investment Bank for Sustainability Finance  
 Best Investment Bank for Green/Climate Action Bonds  
 Best Investment Bank for Sustainable SSA Financing

*Environmental Finance* Bond Awards 2020  
 Lead Manager for the Year for Green Bond Bank  
 Lead Manager for the Year for Green Bond SSA  
 Lead Manager for the Year for Sustainability Bond Local Authority/Municipality  
 Lead Manager for the Year for Sustainability Bond Bank  
 Lead Manager for the Year for Social Bond SSA

## Becoming a net zero bank

Securing the future of our planet – and economic resilience and prosperity – depends on the transition to a net zero global economy. The Intergovernmental Panel on Climate Change, a United Nations body, indicated that in order to avoid the worst impacts of climate change, we need to reduce global greenhouse emissions by 45% by 2030, and achieve net zero by 2050.

### Our net zero ambition

In October 2020, we announced our ambition to become net zero in all direct and indirect emissions, known as scope 1, 2 and 3 emissions. We aim to deliver this by achieving net zero in our operations and our supply chain by 2030 or sooner. We also plan to align our financed emissions – the carbon emissions of our portfolio of customers – to the Paris Agreement goal of net zero by 2050 or sooner.

We have outlined on the following page a set of metrics and indicators against which we plan to report progress towards our climate ambition. We continue to make regular TCFD-aligned disclosures and have published our fourth disclosure, a summary of which is on page 20. Our stand-alone *TCFD Update 2020* is available at [www.hsbc.com/esg](http://www.hsbc.com/esg).

We understand that achieving net zero requires not just emissions reduction but investment in carbon offsets for a balanced transition. However, the world currently lacks both a globally consistent, future-proofed standard to measure financed emissions and

a fully functional carbon offset market. We are working closely with our peers, central banks and industry bodies to mobilise the financial system around these important goals.

### Reduce, replace and remove

To achieve net zero carbon emissions in our operations and our supply chain, we are building on the set of reduction targets that we set in 2011 to reduce environmental and carbon impacts from our operations by 2020. Among other achievements, we reduced carbon emissions from energy and travel per FTE by 49.6% from the 2011 baseline. For further details on our progress, see [www.hsbc.com/who-we-are/our-climate-strategy/becoming-a-net-zero-bank](http://www.hsbc.com/who-we-are/our-climate-strategy/becoming-a-net-zero-bank).

For our 2030 ambition, we have three elements to our strategy: reduce, replace and remove. We plan to first focus on reducing carbon emissions from consumption, and then replacing remaining emissions with low-carbon alternatives in line with the Paris Agreement goal of limiting global warming to below 1.5°C. We plan to remove the remaining emissions that cannot be reduced or replaced by procuring high-quality offsets at a later stage.

We will compare our success against our carbon emissions in 2019, including scope 1, 2 and 3 emissions. We will use 2019 figures as a baseline due to the Covid-19 outbreak affecting working behaviours, which helped to drive further reductions reflected in 2020 results. For our 2019 baseline, our operational

emissions were mainly composed of energy (approximately 16%), travel (approximately 6%) and supply chain emissions (approximately 78%). We are in the process of reviewing our supply chain methodology and we will be updating our 2019 baseline, accordingly. We will take into consideration cabin class in our recording of travel emissions, including the baseline, as it represents a more accurate representation of our air travel emissions.

### Reducing our operational emissions

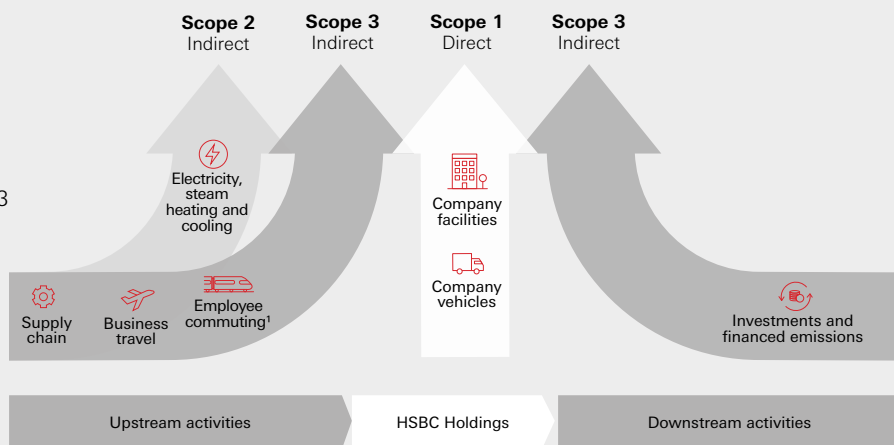
In 2017, we committed to achieving 100% renewable power across our operations by 2030, joining other global companies in the RE100 initiative. As electricity currently makes up 92% of our energy emissions, our aim is to reduce electricity consumption by 50% over the next 10 years. We plan to then transition the remainder to renewable energy. In 2020, 37.4% of our electricity was renewable, mainly due to our power purchase agreements of wind and solar energy in the UK, Mexico and India. We plan to continue to build our power purchase agreements portfolio and expand our purchase of green tariffs in markets where these are available.

The majority of our travel emissions are concentrated in air travel, which fell in 2020 due to the Covid-19 outbreak. As travel restrictions are lifted, we expect our travel emissions to rise. However, we will continue to encourage the use of technological solutions where possible to provide connectivity with colleagues and customers.

### Explaining scope 1, 2 and 3 emissions

To measure and manage our carbon emissions, we follow the Greenhouse Gas Protocol global framework, which identifies three scopes of emissions. Scope 1 represents the direct emissions we create. Scope 2 represents the indirect emissions resulting from the use of electricity and energy to run a business. Scope 3 represents indirect emissions attributed to upstream and downstream activities taking place to provide services to customers. Our upstream activities include business travel and emissions from our supply chain including transport, distribution and waste. Our downstream activities are those related to investments and financed emissions.

For further details, see our *ESG Data Pack* at [www.hsbc.com/esg](http://www.hsbc.com/esg).



<sup>1</sup> HSBC-sponsored shuttles only

## Becoming a net zero bank continued

### Working with our supply chain

As the majority of our emissions are within our supply chain, we know we cannot achieve our net zero goal without our suppliers joining us on our journey. Our supplier emissions are currently calculated using a methodology based on supplier spend. In 2020, we began the three-year process of targeting our largest suppliers, representing 60% of our annual supplier spend, to encourage them to make their own carbon commitments, and to disclose their emissions via the CDP supply chain programme. This programme will allow us to work with our suppliers to understand their commitment to carbon emission reduction, to educate those that are starting their journey, and to collaborate with those that are leading in this area.

### Our lending portfolio

At the heart of our climate plan is a goal to align our financed emissions to the Paris Agreement goal of net zero by 2050 or sooner.

This means making financing decisions with a consideration for climate change, and intensifying our support for customers in their transition to lower carbon emissions.

In 2017, we pledged to provide and facilitate \$100bn of sustainable finance and investment by 2025 to support our customers as they switch to more sustainable ways of doing business, and by the end of 2020 we had already achieved \$93.0bn of that ambition. In October 2020, we set ourselves a new target of providing between \$750bn and \$1tn in sustainable finance and investment by 2030 (for further details, see page 48).

We will work with our portfolio of customers to provide expert advice and support them on their transition to lower carbon emissions, while taking into account the unique conditions for customers across developed and developing economies. To do this, we will increase our portfolio of transition finance

solutions to help even the most heavy-emitting sectors to progressively decarbonise, while helping to ensure a just and stable transition to maintain economic stability.

Included within the \$100bn facilitation total is \$2.8bn-worth of advisory services on HSBC-issued green/SDG bonds. Our green bond report summarises and our asset register lists the loans that underpin our issuances. The latest report includes \$1.6bn of balances as at 30 June 2020 that have been included within the financing total. The green report and asset register are available at: [www.hsbc.com/our-approach/esg-information/esg-reporting-and-policies](http://www.hsbc.com/our-approach/esg-information/esg-reporting-and-policies).

### Our carbon dioxide emissions in 2020

We report our carbon emissions following the Greenhouse Gas Protocol, which incorporates the scope 2 market-based emission methodology. We report carbon dioxide emissions resulting from energy use in our buildings and employees' business travel.

In 2020, we surpassed our carbon emissions target of 2.0 tonnes per FTE, achieving 1.76 tonnes per FTE. This was mainly attributed to travel restrictions and the reduction of usage of our buildings due to the Covid-19 outbreak. We also implemented over 600 energy conservation measures that amounted to an estimated energy avoidance in excess of 15 million kWh.

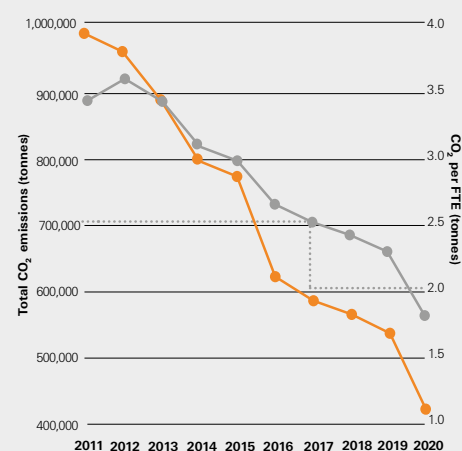
In 2020, we collected data on energy use and business travel for our operations in 28 countries and territories, which accounted for approximately 93% of our FTEs. To estimate the emissions of our operations in countries and territories

where we have operational control and a small presence, we scale up the emissions data from 93% to 100%.

We then apply emission uplift rates to reflect uncertainty concerning the quality and coverage of emission measurement and estimation. The rates are 4% for electricity, 10% for other energy and 6% for business travel. This is consistent both with the Intergovernmental Panel on Climate Change's Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories and our internal analysis of data coverage and quality.

Further details on our methodology, our third-party assurance report and relevant environment key facts found in our *ESG Data Pack* can each be found at [www.hsbc.com/esg](http://www.hsbc.com/esg).

### Carbon emissions (total and FTE)



#### Key:

- Total CO<sub>2</sub> emissions (tonnes)
- CO<sub>2</sub> per FTE (tonnes)
- .... The 2020 target was set at 2.5 CO<sub>2</sub> tonnes/FTE until 2017, when the target was stretched to 2.0 CO<sub>2</sub> tonnes/FTE

### Carbon dioxide emissions in tonnes

	2020	2019
Total	406,000	530,000
From energy	363,000	414,000
Included energy UK	8,000	10,400
From travel	43,000	116,000

### Carbon dioxide emissions in tonnes per FTE

	2020	2019
Total	1.76	2.26
From energy	1.57	1.76
From travel	0.19	0.5

### Energy consumption in GWh

	2020	2019
Total Group	928	1,050
UK only	247	281

## Becoming a net zero bank continued

### Measuring our progress

We are using several metrics to measure our progress of our net zero journey, including our carbon emissions, renewable energy sourced for our operations, balance sheet exposure to carbon-intensive sectors and progress made against our sustainable finance commitment.

We intend to develop clear, measurable pathways to net zero within our financing portfolio, using the Paris Agreement Capital Transition Assessment ('PACTA') tool, which measures the alignment of relevant sectors with net zero.

In 2020, we began to apply PACTA to the relevant segments of our loan book, starting with the automotive sector, to build our knowledge of the tool and improve our understanding of its effectiveness and limitations (for further details, see page 18 of our *TCFD Update 2020*).

We know this is a journey and recognise that the current means of measurement of financed emissions globally need improving to track reductions better. Over the course of 2021, we will be refining our approach to financed and supply chain emissions,

formalising the qualifying criteria for sustainable finance, and enhancing reporting on investments.

In the following table, we set out our ambition, the metrics and indicators we used in 2020 to measure our progress, and the metrics and indicators we aim to develop in future to measure our progress.

Ambition	Metrics and indicators used in 2020	Metrics and indicators to be developed in 2021
<b>Becoming a net zero bank<sup>1</sup></b> Be net zero in our operations and supply chain by 2030 or sooner	<ul style="list-style-type: none"> <li>– CO<sub>2</sub> emissions per FTE across scope 1, 2 and 3</li> <li>– Absolute CO<sub>2</sub> emissions across scope 1, 2 and 3</li> <li>– Percentage of renewable electricity sourced</li> </ul>	<ul style="list-style-type: none"> <li>– Supply chain emissions</li> </ul>
Align our financed emissions to achieve net zero by 2050 or sooner	<ul style="list-style-type: none"> <li>– Illustrative PACTA results for our automotive book. (For further details, see pages 18 and 19 of our <i>TCFD Update 2020</i>.)</li> <li>– Percentage of wholesale loans and advances in high transition risk sectors. (For a breakdown by sector, see page 9 of our <i>TCFD Update 2020</i>.)</li> <li>– Illustrative impacts of climate scenarios on our transition risk sectors. (For further details of our scenario analysis, see pages 14 to 16 of our <i>TCFD Update 2020</i>.)</li> </ul>	<ul style="list-style-type: none"> <li>– Net zero alignment of our financing portfolio</li> </ul>
<b>Supporting our customers</b> Support our customers in the transition to a sustainable future with \$750bn to \$1tn of sustainable finance and investment by 2030	<ul style="list-style-type: none"> <li>– Sustainable finance and investment provided (\$bn). (For further details of our progress, see pages 48 to 50.)</li> <li>– Ranking in Dealogic green, social and sustainable bond league tables<sup>2</sup></li> </ul>	
<b>Unlocking new climate solutions</b> Help transform sustainable infrastructure into a global asset class, and create a pipeline of bankable projects	<ul style="list-style-type: none"> <li>– Established HSBC Pollination Climate Asset Management with the aim to launch the first fund in mid-2021. (For further details, see page 50.)</li> </ul>	<ul style="list-style-type: none"> <li>– Cleantech investment within our technology venture debt fund</li> <li>– Philanthropic programme to provide scale to climate innovation ventures, renewable energy, and nature-based solutions</li> </ul>

<sup>1</sup> Our reported CO<sub>2</sub> emissions in 2020 related to energy and business travel. For further details on scopes 1, 2 and 3, and our progress on carbon emissions and renewable energy targets, see pages 45 and 46.

<sup>2</sup> Dealogic ranking based on apportioned bookrunner value, excluding self-issuances.

## Supporting our customers through transition

Our ability to finance the transformation of businesses and infrastructure is key to building a sustainable future for our customers and society. The most significant contribution we can make to this is supporting our portfolio of customers to decarbonise within the transition to a net zero global economy.

### A leader in sustainable finance

We are a recognised leader in sustainable finance, helping to pioneer the market for green, social and sustainable bonds and attaching ambitious environmental targets to business loans. We maintained leadership in green, social and sustainable bonds, ranking third globally in 2020, according to Dealogic on an excluding self-mandated basis. We also set up HSBC Pollination Climate Asset Management, the first large-scale venture to invest in natural capital as an asset class (see page 50). We have been recognised as the World's Best Bank for Sustainable Finance by *Eurromoney* in 2019 and 2020.

In 2020, we continued to expand the horizons of sustainable finance. We helped the Egyptian government launch the first sovereign green bond in the Middle East and supported Henkel, a German household goods company, to issue the world's first plastics reduction bond (see page 76). We also issued the first transition Islamic bond to enable Etihad, a Middle Eastern airline, to become more sustainable (see page 310). As we set out below, we are intensifying our support to customers as they transition to lower carbon emissions.

Our vision is to help create a vibrant, thriving and resilient future that opens up opportunities for new skills, ideas and jobs to thrive. Providing transition finance solutions, particularly in emerging markets where the opportunity is greatest, is core to our climate strategy.

### Transition solutions

In 2017, we committed to providing and facilitating \$100bn of sustainable finance and investment by 2025. At the end of 2020, we had fulfilled \$93.0bn of this commitment, comprising \$66.9bn through facilitating the flow of capital and providing customers

access to capital markets, and \$20.0bn in financing and \$6.1bn in investments to support environmental and social goals.

Our sustainable finance commitment has enabled sustainable infrastructure and energy systems, financed the transition towards net zero emissions by promoting decarbonisation efforts across the real economy, and enhanced investor capital through sustainable investments.

We recognise that more and faster action is needed to achieve the Paris Agreement goal of net zero by 2050 or sooner. That is why in October 2020 we announced our ambition to provide between \$750bn and \$1tn of sustainable finance and investment over the next 10 years. This new commitment builds on our 2017 target. Our new commitment incorporates sustainable finance and investment of \$40.6bn in 2020, which also contributed to our initial 2017 target, as well as additional products of \$3.5bn.

Our sustainable finance and investment in 2020 for our updated target comprises 23% green and sustainability-linked lending to companies, 9% investments we manage and distribute on behalf of investors, and 68% facilitating the flow of capital and providing access to capital markets.

We have developed and evolved our existing data dictionary, taking into consideration the principles we developed with UK Finance in the white paper 'Sustainable finance: Establishing a principles-based framework for the measurement and reporting of multi-year commitments'. Our progress will be published each year and will seek to continue to be independently assured.

- ▶ Our revised data dictionary, which includes a detailed definition of contributing activities, and our *ESG Data Pack*, which includes our third-party assurance letter and the breakdown of our sustainable finance and investment, can be found at [www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies](http://www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies).
- ▶ For further details of our net zero ambition, see [www.hsbc.com/who-we-are/our-climate-strategy/becoming-a-net-zero-bank](http://www.hsbc.com/who-we-are/our-climate-strategy/becoming-a-net-zero-bank).

### Sustainable finance

We define sustainable finance as:

- any form of financial service that integrates ESG criteria into business or investment decisions; and
- financing, investing and advisory activities that support the UN Sustainable Development Goals ('SDGs'), in particular taking action to combat climate change. The SDGs, also known as the Global Goals, were adopted by all UN member states in 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030.

We have reviewed and updated these definitions to reflect our updated climate ambition, which is available at [www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies](http://www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies).

# \$93.0bn

Cumulative progress since 2017 on our commitment to provide and facilitate sustainable finance and investment.

(Target: \$100bn by 2025)

# 3rd

Dealogic ranking for green, social and sustainability bonds globally in 2020.

(2019: 2nd)



## Our approach to climate risk

We continue to improve the identification, oversight and management of climate risk. In 2020, we enhanced our climate risk appetite statement with quantitative metrics to articulate the risks from climate change, and we plan to develop our risk appetite and key indicators iteratively through 2021.

We also formalised our overall approach to climate risk management to integrate climate risk into the Group-wide risk management framework.

- ▶ For further details on climate risk, see our *TCFD Update 2020* at [www.hsbc.com/esg](http://www.hsbc.com/esg).



## Supporting our customers through transition continued

### Sustainable infrastructure

Good infrastructure is the backbone of any successful society and economy. However, addressing climate change requires the world – particularly emerging markets – to develop a new generation of sustainable infrastructure quickly. The OECD estimates that up to \$6.9tn each year is needed through to 2030 to achieve this. While many institutions have been engaged in mobilising finance for this purpose, there remains a significant investment gap and lack of adequate, bankable projects. Stronger standards are also needed to bring investors to the table.

To help solve for this, we are leading the Finance to Accelerate the Sustainable Transition-Infrastructure ('FAST-Infra') initiative. This was established in partnership with the International Finance Corporation ('IFC'), the OECD, the World Bank's Global Infrastructure Facility and Climate Policy Initiative under the auspices of the One Planet Lab to develop a consistent, globally applicable labelling system for sustainable infrastructure investment. This will aim to ensure that governments and project developers embed high ESG standards into new infrastructure to access this label. We also co-chair the Coalition for Climate Resilient Investment, launched at the UN General Assembly's Climate Action Summit in 2019, bringing together institutional investors, banks, insurers, rating agencies and governments to develop risk-informed frameworks and tools to integrate and price physical climate risks in decision making.

### Responsible and sustainable investment

We offer a broad suite of ESG capabilities across asset management, global markets, research, wealth, private banking and securities services, enabling institutional and individual investors to manage risk and pursue ESG-related opportunities.

Our endeavour is to influence the market through active engagement on ESG issues. We have a dedicated Responsible Investment team across developed and emerging markets. The team's activities, along with portfolio managers and other investment

analysts, led to ESG issues being raised in engagements with over 2,300 corporate and non-corporate issuers in 78 markets in 2020. We voted on more than 86,000 resolutions at over 8,200 company meetings in 70 markets.

At HSBC Global Asset Management, nearly 89% of total assets under management were invested according to at least one of the seven strategies defined by the Global Sustainable Investment Alliance, as at December 2020.

We define sustainable investing as: inclusion, which involves strategies that enhance portfolio exposure to better ESG performers; thematic, where strategies provide exposure to transformative environmental or social trends; and impact, which are strategies linked to tangible societal or environmental outcomes/impact.

We launched the Real Economy Green Investment Opportunity ('REGIO') fund with the IFC, and at December 2020 had raised \$475m to fund green projects in developing economies that reduce emissions and meet the UN SDG Goals. Through our HGIF Lower Carbon Equity and Bond Funds, which are available in nine Wealth and Personal Banking markets and seven Global Private Banking markets, we aim to help investors generate long-term total return with a lower carbon footprint than reference benchmark indices. We expanded our investment offering for private banking and wealth clients, including: TPG Rise, an impact fund linked to the UN SDGs; structured products and certificates of deposit where proceeds were used to fund green and sustainable development projects; and various thematic solutions such as gender equality and energy transition.

As a signatory of the United Nations Environment Programme Finance Initiative's Principles of Sustainable Insurance, our insurance business has continued to implement its sustainability policy. The policy includes restricting investments that may have adverse impacts on people and the environment, and incorporating ESG principles into our investment governance. We continued

to build our sustainable investment portfolios to support the UN SDGs and the Paris Agreement. During 2020, we expanded the assets in scope of the policy with full compliance due in early 2021.

### Embedding ESG into our engagement

Our vision is to support our customers' aspirations to make a positive change in the world through wealth value creation. We are embedding ESG across client engagement and investment solutions in our wealth management and private banking businesses.

We offer a comprehensive range of sustainable investment products to help clients marry their sustainability and financial goals. These include green, social and sustainability bonds, investment funds, ETFs, discretionary mandates, private market investments, structured products and green certificates of deposit. Our advisory offering also covers securities with substantial exposure to environmental themes.

To help customers understand the topic and the benefits of investing sustainably, a range of educational materials, thought leadership publications, and articles on sustainability themes are distributed regularly. We partnered with the Principles for Responsible Investment to develop a training programme for our advisers, covering ESG fundamentals, investing strategies and client engagement.

We provide our customers with ESG insights and foster industry development. HSBC Global Research published over 200 climate and ESG-related reports in 2020, accompanied by approximately 500 client meetings and 15 client webcasts. Our ESG team works in close collaboration with analysts from other asset classes and across markets, embedding sustainability into research and offering a deeper integration approach to a global investor client base. The team released four episodes of the ESG Brief podcast. ESG Insights from HSBC Global Research are also repackaged for retail investors as a series known as #WhyESGMatters.



## Laying the foundations for a sustainable future

Cement is one of the world's most socially and economically important materials – and also among the most highly carbon intensive. Long-term change is needed to help cement producers reduce their environmental impact. Switzerland-based LafargeHolcim, one of the largest global cement producers, aims to lead its industry in becoming greener.

We helped LafargeHolcim towards its goals by playing a major role in the world's first building materials sustainability-linked bond. We acted as joint bookrunner on the €850m sustainability-linked bond, whose terms mean LafargeHolcim must pay a premium if it does not meet its target to reduce the carbon intensity of the cement it produces by 17.5% – from 2018 levels – by 2030.

## Unlocking climate solutions and innovations

We understand the need to find new solutions to increase the pace of change if the world is to achieve the Paris Agreement’s goal of being net zero by 2050. We are working closely with a range of partners to accelerate investment in natural resources, technology and innovations, and sustainable infrastructure to reduce emissions and address climate change.

### Working with our partners

We know that many investors want to invest in companies that can demonstrate their ESG credentials. Through philanthropy, partnerships and new initiatives our aim is to help them invest in protecting the planet, with HSBC Global Asset Management offering a range of funds for clients to invest in businesses and projects that have strong ESG track records and ambitions.

HSBC Global Asset Management also created a joint venture in 2020 with Pollination, a specialist climate change advisory and investment firm. The joint venture, HSBC Pollination Climate Asset Management, aims to be the world’s largest manager of capital invested in natural resources (see box below).

To encourage more investment in building sustainable infrastructure, we are at the forefront of an initiative that gives investors greater confidence about where their money is going. Working with the IFC, OECD, the World Bank’s Global Infrastructure Facility and the Climate Policy Initiative, under the auspices of the One Planet Lab, we helped conceive the FAST-Infra initiative. Our collective aim is to turn sustainable infrastructure into a mainstream asset class. We will aim to achieve this by establishing a global labelling system that clearly shows investors the infrastructure in which they are investing is sustainable and contributes to achieving the UN’s SDGs.

### Backing new technology and innovations

Addressing climate change requires innovative ideas. By connecting financing with fresh thinking, we can help climate solutions to scale to support sustainable growth. Formed in 2020, our \$100m philanthropic climate programme aims to do this and truly transform the way we protect our planet, overcoming barriers to addressing climate change. We provided \$7.1m to our non-governmental organisation partners during the year to get the programme underway.

We intend to expand our technology venture debt capabilities to provide \$100m of financing to companies developing clean technologies that can be deployed at scale to support businesses and households to transition to a low-carbon economy. We will provide further updates on cleantech investment and the philanthropic programme in 2021.

### Skills for a sustainable future

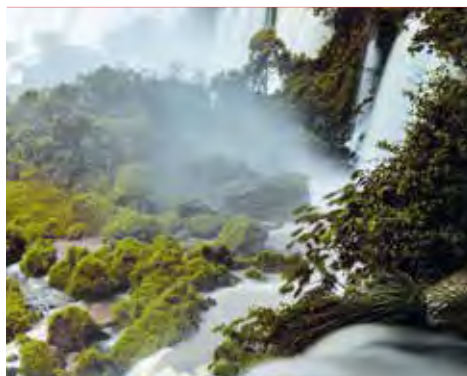
We have a responsibility to invest in the long-term prosperity of the communities where we operate. We recognise that technology is developing at a rapid pace and that a range of new and different skills are now needed to succeed. For this reason, much of our focus is on programmes that develop employability and financial capability. We also back climate solutions and innovation, and contribute to disaster relief efforts based on need (see panel on the right).

We also continue to increase knowledge on sustainability issues with our people. We developed a seven-part online course exclusively for our employees in partnership with the University of Cambridge Institute for Sustainability Leadership. In 2020, our colleagues completed more than 36,700 modules.

## Our charitable contributions

In 2020, our charitable giving totalled \$112.7m, including our \$25m Covid-19 donation fund. We also encourage our people to volunteer time and share their skills, offering paid volunteer days. In 2020, our colleagues gave over 82,000 hours to community activities during work time.

In 2018, we set out a three-year goal to help two million people in our communities be more employable and financially capable through providing more than \$100m in charitable donations. Current projections from our charity partners indicate our support reached more than four million people through donations of over \$115m. This funding helped marginalised young people prepare for and secure their first jobs, supported indigenous people to complete their education and gain employment, and helped migrant workers avoid financial fraud. The increased reach from our initial projection is due in part to increased reach from programmes moving online.



## Investing in nature-based projects with Pollination

A key part of our strategy is to unlock new climate solutions, helping to transform sustainable infrastructure into a global asset class. As part of this ambition, we launched HSBC Pollination Climate Asset Management in August 2020, with the vision to create the world’s largest dedicated natural capital investment manager. The joint venture with Pollination, a specialist climate change advisory and

investment firm, intends to set up funds that will invest in a range of nature-based projects that protect and enhance nature over the long term, and reduce greenhouse emissions. The intention is to launch a series of natural capital and carbon credit funds for institutional investors, with the aim to launch the first fund in mid-2021.

## Our approach to sustainability policies

We recognise that businesses can have an impact on the environment, individuals and communities around them. We have developed, implemented and refined our approach to working with our business customers to understand and manage these issues.

Our sustainability risk policies seek to ensure that the financial services that we provide to customers do not contribute to unacceptable impacts on people or the environment. We seek to analyse the impact of ESG issues and follow international good practice in these areas.

We believe that the key to managing sustainability risk is creating partnerships with our customers, assisting them on their transition path to a more sustainable and low-carbon economy.

### Our policies

Our sustainability risk policies cover agricultural commodities, chemicals, defence, energy, forestry, mining and metals, UNESCO World Heritage Sites and Ramsar-designated wetlands.

These policies define our appetite for business in these sectors and seek to encourage customers to meet good international standards of practice. Where we identify activities that could cause material negative impacts, we will only provide finance if we can confirm customers are managing these risks responsibly. Such customers are subject to greater due diligence and generally require additional approval by sustainability risk specialists. We will not provide finance if the business activities are not aligned to our aims and values.

Our sustainability policies are being aligned with our approach to climate risk as well as our net zero commitments, and will be enhanced during 2021.

▶ For further details on how we manage sustainability risk as well as our full policies, see [www.hsbc.com/our-approach/risk-and-responsibility/sustainability-risk](http://www.hsbc.com/our-approach/risk-and-responsibility/sustainability-risk).

### Supporting the transition

At the heart of our net zero plan is an aim to align our financed emissions – emissions produced by our portfolio of customers – to the Paris Agreement goal of net zero by 2050 or sooner. The most significant contribution we can make is to support our customers' transition to lowering carbon through transition financing, which is financial support that helps heavy-emitting companies take action to become more environmentally sustainable over time.

To accelerate the global transition to net zero, we also want to unlock climate solutions, such as cleantech innovation, sustainable infrastructure and nature-based solutions. These will help smooth a transition and shift to a more sustainable economy in the long term. As we move closer to 2050, we expect our portfolio of financed emissions to reflect this and our customers' business activities to be less carbon intensive.

In that light, we are undertaking a review of our sustainability risk policies to ensure that they will reflect this need to transition and the phased reduction of carbon-intensive business activities.

### Governance

Within our Global Risk function, we have reputational and sustainability risk specialists who are responsible for reviewing, implementing and managing our sustainability risk policies as well as our application of the Equator Principles. Our global network of more than 75 sustainability risk managers supports the implementation of these policies. In 2020, these local sustainability risk managers were further supported by regional reputational risk managers across the Group who have taken on additional oversight responsibilities for sustainability risk.

We have also established a Sustainability Risk Oversight Forum, made up of senior members of the Global Risk function and global businesses across the Group.

### Equator Principles

The Equator Principles provide a risk management framework for determining, assessing and managing environmental and social risk in projects. We were an early adopter of the principles in 2003.

In October 2020, the revised Equator Principles framework came into effect, after consultation with member banks and external stakeholders. In response to the launch of the revised framework, we are rolling out updated training for staff in 2021 to ensure that Equator Principles transactions are properly identified and managed.

We report annually on the transactions completed under the principles. Our latest Equator Principles report is available at: [www.hsbc.com/who-we-are/our-climate-strategy/sustainability-risk/equator-principles](http://www.hsbc.com/who-we-are/our-climate-strategy/sustainability-risk/equator-principles).

▶ For further details of our approach to human rights, see page 71.

▶ For further details of our approach to risk management, see page 37.



## Our energy policy

When we last updated our energy policy in 2018, we stated that we would not finance any new coal-fired power plants, with the potential targeted and time-limited exceptions in Bangladesh, Indonesia and Vietnam, recognising the need to balance local humanitarian needs with the need to transition to a low-carbon economy.

We therefore agreed that any funding of new coal-fired power plants in those three countries would only be considered subject to certain strict criteria. It is important to note that we have not provided any project finance for any new coal-fired power plants anywhere in the world since then, including those countries.

In April 2020, we removed these exceptions and will not finance any new coal-fired power plants anywhere globally. We continue to support the other needs of our customers in these countries and continue to support their governments.

Within the power and utilities, and metals and mining sectors shown in our TCFD disclosures on page 19, our direct exposure to thermal coal is 0.2% of the wholesale loans and advances figures.



# Customers

We are bringing the benefits of connectivity and a global economy to more people around the world.

## At a glance

### Our relationship

We create value by providing the products and services our customers need and aim to do so in a way that fits seamlessly into their lives. This helps us to build long-lasting relationships with our customers. We maintain trust by striving to protect our customers' data and information, and delivering fair outcomes for them. If things do go wrong, we aim to take action in a timely manner.

Operating with high standards of conduct is central to our long-term success and underpins our ability to serve our customers.

In this section, we report on our customers as three distinct groups: our wealth and personal banking customers; medium and large-sized corporate customers; and our global and institutional customers. These groups are served by our three global businesses respectively: Wealth and Personal Banking ('WPB'), Commercial Banking ('CMB') and Global Banking and Markets ('GBM').

## Digital and technology



Our retail and wholesale customers are using digital services more than ever before, with the Covid-19 outbreak accelerating the shift to digital banking. We have continued to invest in digital and technology to help make banking simpler and safer, and have launched new products and platforms to assist and support our customers.

▶ Read more on digital and technology on page 53.

## Customer satisfaction



Through a series of surveys, we aim to listen to our customers to put them at the centre of our decision making. We continued to redesign how we receive feedback to create a consistent measure of the customer experience and act on customers' feedback. While the roll-out of the full programme was slowed during the Covid-19 outbreak, we continue to embed the new ways of working.

▶ Read more on customer satisfaction on page 54.

## How we listen



We aim to be open and consistent in how we track, record and manage complaints. In 2020, complaints fell across our WPB and GBM businesses and were up overall in CMB. Complaint resolution was impacted by staffing challenges from the Covid-19 pandemic, while corporate complaints were focused on account opening and operations due to increased demand for finance.

▶ Read more on how we listen on page 56.

## Conduct



We responded to the changing environment and sought to help our customers, particularly the most vulnerable, with payment relief measures, lending support and improvements to our products and services. The conduct of our people is linked to the way we work. We adapted our global training and support for our colleagues, updated how we design products and deliver fair value, and continued to help customers transition from interbank offered rates.

▶ Read more on conduct on page 58.

## Digital and technology

The Covid-19 outbreak meant that many of our customers needed to increasingly use our services remotely. The significant technology investments we made in the years before the pandemic to make digital banking easier meant we could support the accelerated shift to mobile and online channels during 2020.

In 2020, more than nine out of every 10, or 92.7%, of our global personal banking transactions were done digitally, an increase of four points year-on-year. At the same time, 54% of our retail customers were digitally active, an increase of five points from 2019.

Our corporate customers also increased their use of our digital services, with mobile app downloads of our core business digital platform, HSBCnet, growing 146% in 2020.

Throughout the Covid-19 outbreak, we continued to invest in technology to help our customers to do more of their everyday banking online, and we rolled out new functionality to support them through the pandemic and provide digital solutions for their growth ambitions.

### Making banking simpler and faster

During 2020, we completed the initial roll-out of new online banking and mobile platforms for our retail customers, replacing legacy technology across 16 markets, which will let us innovate more quickly in the future.

In 2020, the retail mobile banking app achieved an average Apple rating of 4.8 in the UK and 4.7 in Hong Kong, and an average Android rating of 3.8 in the UK and 3.5 in Hong Kong.

We helped many customers in need of support during the economic slowdown. On average we deployed digital lending portals within six days for business customers to be able to apply for government lending schemes in the UK, the US and Hong Kong.

As it has been more difficult to meet in person, we introduced customer video meetings for all business areas across 47 markets. We also continued to expand the use of chatbots to support customers with day-to-day queries. In WPB, we launched online and in-app chat services across eight new markets and there were more than 10.5 million chat conversations in 2020.

For our clients with wealth management needs we launched a simplified version of Wealth View, an online platform enabling easier analysis of their holdings and transactions. It is available in Hong Kong, Singapore, Luxembourg, the UK, Channel Islands and the US.

Our improved global online Business Banking Experience, used by more than 49,000 businesses across nine markets, helps customers to complete everyday banking tasks themselves and run their businesses remotely. It has an average customer satisfaction score of 9 out of 10.

### Helping businesses to grow

We continue to transform our digital platform for Global Trade and Receivables Finance, HSBC Trade Solutions. We launched trade finance and risk mitigation solutions to 2,100 customers in Hong Kong in November 2020, making trade simpler, safer and faster.

In the UK, HSBC Kinetic, a new mobile proposition for SMEs, had 2,899 customers onboarded by the end of 2020. Launched in June 2020, it enables customers who need a business current account or a Business Bounceback loan from the UK Government to apply online and do their day-to-day banking digitally.

In GBM, we are investing heavily in digital and data capabilities to support our clients' growth ambitions and accelerated digital needs. In Securities Services, we are developing solutions to provide clients with fast access to data, and more control of their assets and transactions. The monthly usage of our API suite, which gives on-demand access to data, grew 2,716% in the year to December 2020, with a significant increase in committed customers.

To help make HSBC even more secure, we provide a front-end digital know-your-customer solution via our SmartServe platform, which has been launched in 20 countries and territories, including the UK, UAE, the US, Hong Kong and France.

▶ For further details of our digital satisfaction scores, see page 54.

▶ For further details of new features we introduced to give people more control over their financial lives during the Covid-19 outbreak, see page 58.



## Harnessing the benefits of blockchain

We are implementing distributed ledger technology, including blockchain, to improve efficiency, transparency and security for clients. In global trade, we are using the technology to replace the previously paper-driven letter of credit process, which are the documents guaranteeing the seller will be paid. It offers a fast and secure alternative, which is helping reduce letters of credit processing time from between five and 10 days to a matter of hours.

151%

Year-on-year increase in wholesale customer mobile payments during 2020.

92.7%

Retail banking transactions globally that were digital at the end of 2020.

119,782

Downloads of the HSBCnet mobile app in 2020, a 146% year-on-year increase.

## Customer satisfaction

We are continuing to redesign how we receive feedback from our customers to put them at the centre of decision making.

In 2019, we said we wanted to measure the likelihood of customers to recommend HSBC across our global businesses, and we now have this consistent measure of our customer experience to help engage our people and improve how we benchmark our performance internally and against our competitors.

### Our transition to a new feedback system

What we are trying to achieve goes beyond just a measure. It is a way of systematically collecting, analysing and acting on our customers' feedback. Across our global businesses, it will help us get better insight from our customers, build stronger relationships with them, and identify and prioritise areas where we can improve the experience they have with us.

Through a series of surveys, we ensure we are listening to our customers and creating insights at all levels of the relationship. We create more transparency of the customer experience by sharing feedback directly with our customer-facing teams and allowing them to respond directly to those customers to address specific feedback.

The metric that underpins this new system is the net promoter score based on the question: 'On a scale on 0 to 10, how likely is it that you would recommend HSBC to a friend or colleague?' The score is calculated by subtracting the percentage of 'detractors', who provide a score of 0 to 6, from the percentage of 'promoters', who provide a score of 9 to 10. It can range as low as -100 to as high as 100.

Although the roll-out of the full programme was slowed during the Covid-19 outbreak, as we redirected resources to ensure our front-line teams could focus on delivering for our customers, we continue to embed the new ways of working. In 2020, WPB launched more than 157 new surveys across 15 markets. In CMB, we launched elements of our programme in the UK, the US, Canada, Mexico and India, with more than 30 markets planned for 2021. Our GBM business is also continually working on ways to collect valuable feedback and improve customer experience. In 2020, we started conducting post-implementation assessments through questionnaires, which provide useful insights on our performance.

### How we fared

In 2017, we set ourselves the strategic targets to improve customer satisfaction in our WPB and CMB global businesses by 2020. Both businesses achieved high levels of satisfaction in the majority of their respective 'scale markets', although were unable to fully achieve their 2020 ambitions to be either ranked as top three against relevant competitors in these markets, or to have improved by at least two ranks compared with their 2017 baselines.

Our WPB business, which surveyed more than one million customers on their likelihood to recommend HSBC and their satisfaction with our services, achieved its target in seven of our eight scale markets in 2020. Overall, our ranking fell below ambition in Malaysia, despite our rank position improving during 2020. Our lower performance than target was largely due to 'the ease of banking with us' compared with our competitors. We are carrying out several initiatives to improve its performance, including the release of new digital features, staff training and a refresh of our customer propositions.

In surveys that we largely conducted of customers' views of our specific services and channels, increased market attention, geopolitical tensions and market volatility impacted scores in mainland China. This trend began to reverse due in part to enhanced customer communications and a greater emphasis on digital assistance. For our relationship manager scores, we noted

performance below expectations in France, where we have ongoing action plans to improve communications and drive more proactive contact with customers.

In our private bank, our global net promoter score fell to nine in 2020, compared with 24 in the previous year, largely due to a decline in Hong Kong and Switzerland. However, our scores improved in Singapore and in France. We achieved strong scores for our relationship management services, and our approach to coping with the Covid-19 outbreak was commended in many markets. Key areas where our clients would like us to improve were our digital and advisory offerings, on which we are focusing significant investment.

In CMB, five out of eight tracked markets met targets by improving their rank position by two places from 2017 or being in the top three against competitors, which were Hong Kong, the UAE, the Pearl River Delta, Singapore and Saudi Arabia in 2020. We declined to fifth position in the UK, as we deployed staff to Covid-19-related lending schemes impacting customer experience in telephony and specialist availability in branches. Our rank in Mexico remained unchanged at fifth. Similarly, in Malaysia, our position remained unchanged at sixth, notwithstanding improvement in underlying satisfaction scores.

In GBM, our aim is to outperform the average competitor score. To measure this, each year we partner with Greenwich Associates to conduct a relationship level satisfaction survey. In 2020, we achieved an overall net promoter score of 48, outperforming our competitors' score of 39. We scored 49 in Asia-Pacific, compared with 32 for our competitors, and 44 in the Europe and Middle East region, compared with 41 for our competitors. However, we scored 54 in North America, below our competitors' score of 73.

### Digital channels

Our customers have increasingly turned to our digital services in recent years, a trend which was accelerated in 2020 due to the Covid-19 outbreak. We launched new capabilities and digital enhancements in each of our global businesses to be closer to our customers and support them during the pandemic.

In WPB, we were able to maintain robust performance in our digital channels, with an improvement in scores in online banking in almost all markets compared with 2019.

This reflects the success of new mobile app functionality in the UK, including balance after bills forecasting, direct debits and standing orders cancellation and in-app overdraft limit



7 out of 8

WPB markets sustained top-three rank and/or improved in customer satisfaction.



5 out of 8













CMB markets sustained top-three rank and/or improved in customer satisfaction.

48

GBM's overall net promoter score, outperforming competitors' score of 39.

## Customer satisfaction continued

### WPB customer satisfaction by channel (Net promoter score<sup>1</sup>)

		 Branch	 Contact centre <sup>2</sup>	 Online banking	 Relationship manager
UK	<b>2020</b>	 <b>62</b>	 <b>39</b>	 <b>48</b>	 <b>58</b>
	2019	62	36	41	45
Hong Kong	<b>2020</b>	 <b>57</b>	 <b>57</b>	 <b>4</b>	 <b>49</b>
	2019	42	57	2	25

1 The net promoter score is measured by subtracting the percentage of 'detractors' from the percentage of 'promoters'. 'Detractors' are customers who provide a score of 0 to 6, and 'promoters' are customers who provide a score of 9 to 10 to the question: 'On a scale on 0 to 10, how likely is it that you would recommend HSBC to a friend or colleague'.

2 Hong Kong benchmark data for 2019 is unavailable as the survey methodology changed. The data reported for 2019 is based on January 2020.

management. Customers in the US, Canada and the UK gained a view of pending transactions, while in Hong Kong and UAE we added block and unblock cards capability. We introduced digital secure key access and pay by instalment in Singapore and Malaysia, and launched our HSBC Life Well+ in-app wellness and lifestyle programme in Hong Kong.

We faced a temporary technical issue related to Bill Pay, a service that allows our US customers to pay third-party bills online. This affected our digital banking scores, but they rebounded once this was resolved.

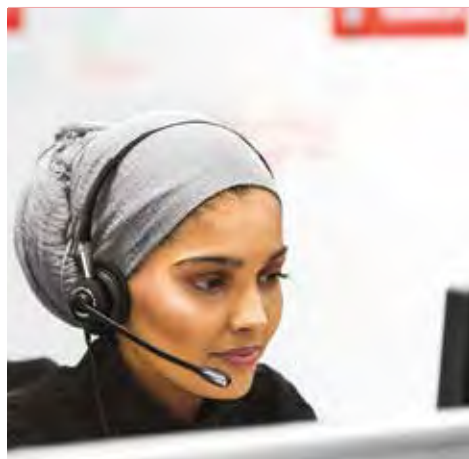
In CMB, customer satisfaction with our digital services improved in six of the seven markets assessed compared with 2019, which were Hong Kong, the UAE, Singapore, Malaysia, Mexico and the Pearl River Delta. However, it fell in the UK, as the significant increase in Covid-19-related lending schemes negatively impacted turnaround times and our customers' perception of our digital services.

Despite the difficulties of operating during the Covid-19 outbreak, technology enhancements introduced during 2020 increased our interactions with our customers, helping us to provide solutions to their problems, and contributed to performing at industry best practice levels in our Global Liquidity and Capital Management and Global Trade and Receivables Finance businesses.

All of our relationship managers were enabled to work remotely to support customers from home. We introduced digital capabilities that were particularly relevant in key markets, including remote cheque deposits, a one-hour turnaround of shipping guarantees and a dedicated trade finance helpline in the UK, and electronic signing for key product onboarding in Hong Kong. Improvements to our digital tools contributed to a 146% year-on-year increase in customer downloads of HSBCnet mobile in 2020 compared with 2019. Active desktop users increased from 400,000 to more than 470,000.

In GBM, the overall satisfaction with our digital proposition was strong with 64% satisfaction globally, and well ahead of competition in the Asia-Pacific, and Europe, Middle East and Africa regions, according to our relationship level satisfaction survey. Our scores were only slightly above our competitors' score in North America. Feedback from clients showed we needed to reduce the complexity associated with our systems and procedures. To address this, we are shifting towards the use of technology in our processes, helping to remove unnecessary layers while increasing efficiency. In 2020, we began the roll-out to a small set of customers of HSBC SmartServe, an automated centralised service that aims to help clients onboard digitally and use services with fewer manual transactions.

We also now offer customers the opportunity to sign documentation electronically for credit and lending, with this service live in 22 countries at December 2020. We have also begun rolling out new soft token security solutions.



### Providing support in challenging times

While we have invested in digital and technology, it has been important to provide effective access to support our vulnerable personal customers in our other channels during the Covid-19 outbreak.

Conditions have been challenging for in-person interactions at retail branches and with relationship managers, which hindered performance in some markets, such as in Mexico, where a portion of our branches remained closed until August 2020. This affected wait times and staffing at open branches.

Our WPB contact centres recorded strong scores during 2020.

In the UK, our WPB business issued new telephone security numbers to 1.6 million non-digitally active customers. We also created a customer line for key workers and vulnerable customers, supporting more than 1.67 million customers in 2020 through our contact centres.

## How we listen

To improve how we serve our customers, we must be open to feedback and acknowledge when things go wrong. This was especially true during periods of Covid-19-related lockdown restrictions when our customers encountered new challenges and we needed to adapt quickly.

We aim to be open and consistent in how we track, record and manage complaints, although as we serve a wide range of customers – from personal banking and wealth customers to large corporates, institutions and governments – we tailor our approach in each of our global businesses.

### When things go wrong

In 2020, our WPB business received just over one million complaints from customers. The ratio of complaints per 1,000 customers per month in our large markets reduced from 3.7 to 2.6.

During the year, 73% of complaints were resolved on the same or next working day, a decline from 77% in 2019, and 80% were resolved within five working days, compared with 83% in 2019. Complaint resolution was impacted predominantly due to staffing challenges caused by the Covid-19 outbreak, and by our focus on ensuring our customers were served safely during this difficult time.

The reduction in complaints in the UK was driven in part by the end of the payment protection insurance ('PPI') complaints programme in 2019. Our customers also demonstrated a high level of understanding of our Covid-19-related challenges. The increase in complaints in Hong Kong was related to operational stresses due to external events, such as the Covid-19 outbreak, economic relief measures, social-political sentiments and investment market activities. We are addressing these by equipping our colleagues with home working capabilities, offering flexible solutions and enhanced digital solutions to improve our customer servicing capabilities. In the fourth quarter of 2020, we succeeded in bringing down the number of complaints by 13% from its peak during June to September.

In our private bank in 2020, we received 572 complaints, an 8% increase on 2019. Administration and servicing issues remained the largest contributor of complaint categories, at 79% in total. Complaints linked to product and performance as well as advice and suitability were higher than in the previous year. This was largely attributable to complaints indirectly linked to the Covid-19 outbreak.

In 2020, the private bank resolved 557 complaints, which was a 14% increase from 2019. We upheld 270 complaints, which was a 3% increase on 2019.

Our CMB business resolved 105,215 customer complaints in 2020, a 14% increase from 2019. Of the overall volumes, 78% came from the UK, 16% from Hong Kong and 1% from France.

The highest sources of complaints involved operations and account opening. This was due to the unprecedented demand from customers for funding and finance during the Covid-19 outbreak through government lending schemes and other relief measures, which resulted in account opening delays and increased call handling times. Recognising the impact on our customers, we increased automation in our loan application process, extended repayment holidays and improved processes to escalate and prioritise vulnerable customers. We also redeployed resources to support increases in call volumes in key customer support functions.

Complaints on operations fell compared with the previous year. However, based on customer feedback, we are continuing to implement changes to reduce payment processing errors and delays, most notably in the UK and in Hong Kong with several digital business banking enhancements, including payment notification services.

An overall increase in the number of complaints in Hong Kong was largely attributed to the adoption of a more prudent complaints definition. This resulted in a substantial increase in March 2020, although it stabilised from July 2020.

### WPB complaint volumes<sup>1</sup> (per 1,000 customers per month)

		2020	2019
UK	▼	2.1	4.5
Hong Kong	▲	0.6	0.5
France	▼	6.8	7.8
US	▼	2.8	2.9
Canada	▼	3.8	3.9
Mexico	▼	4.9	5.7
Singapore	▲	1.4	1.3
Malaysia	▼	0.5	0.6
Mainland China	▶	0.6	0.6
UAE	▼	4.5	5.1

### CMB complaint volumes<sup>2</sup> (000s)

		2020	2019
UK <sup>2</sup>	▲	81.9	78.8
Hong Kong	▲	16.4	5.4
Europe	▼	2.4	2.7
Latin America	▼	1	1.3
US	▼	0.9	1.2
Middle East, North Africa and Turkey	▼	1.2	1.5
Rest of Asia-Pacific (excluding Hong Kong)	▲	0.9	0.8
Canada	▼	0.5	0.8

1 A complaint is defined as any expression of dissatisfaction, whether upheld or not, from (or on behalf of) a former, existing or prospective customer relating to the provision of, or failure to provide, a specific product or service activity.

2 Volumes for the UK are received complaints from eligible complaints aligned to the current FCA reporting requirements. Volume of complaints for all other markets, complaint reason breakdown and commentary are based on total volumes of resolved complaints.



## How we listen continued

Our GBM business received 1,432 customer complaints, which represented a 14% decline compared with 2019, despite the increased transaction volumes during the Covid-19 outbreak in 2020. Our Global Liquidity and Cash Management business received the most complaints of GBM businesses. This corresponds to the nature of the business and the high volume of transactions processed daily. Despite increased demands as a result of the Covid-19 pandemic, Global Liquidity and Cash Management demonstrated resilience to major shocks and had a reduced number of complaints compared with 2019.

### Capturing feedback

We listen to complaints to address customers' concerns and understand where we can improve processes, procedures and systems.

In 2020, we continued to focus on staff training in each of our global businesses and emphasise the importance of recording complaints. This is intended to improve our complaint handling expertise and help ensure our customers are provided with fair outcomes. Complaints are monitored and reported to governance forums to ensure they are handled quickly and thoroughly.

In our WPB business, we are using our new complaints management platform, which we set up in 2018, in seven markets, allowing us to deliver a more customer-focused experience when managing feedback. We have been able to streamline the complaints process by simplifying complaints forms and procedures, and integrating with our back-end systems. We introduced greater automation to track complaints from beginning to end and provide customers with regular updates. We also enhanced our reporting so we can spot trends and fix emerging issues more quickly.

We have also continued our efforts to improve the way we capture and report on customer complaints in our wholesale businesses. We are now piloting a single, overarching tool to gather customer feedback for parts of our wholesale businesses. The tool enables customer complaints to be recorded by customer-facing employees across GBM in four sites and CMB in one site. This holistic approach helps ensure consistent handling of complaints and fair outcomes for customers. It also makes it easier to identify a clear root cause for each complaint, allowing detailed thematic analysis, faster resolution and more efficient reporting. In 2021, we plan to expand the scope of the tool and use it in the majority of countries and territories in which we operate.

### GBM complaint volumes<sup>1</sup>

	2020	2019
Global Banking	▼ 309	340
Global Markets and Securities Services	▼ 363	409
Global Liquidity and Cash Management <sup>2</sup>	▼ 760	919
<b>Total</b>	<b>▼ 1,432</b>	<b>1,668</b>

<sup>1</sup> A complaint is defined as any expression of dissatisfaction, whether upheld/justified or not, from (or on behalf of) a client relating to the provision of, or failure to provide, a specific product or service activity.

<sup>2</sup> Global Liquidity and Cash Management excludes 1,175 complaints relating to payment operations, which is part of Digital Business Services.

### WPB top complaint categories

(% of total)



- Process and procedures **43%** (2019: 33%)
- Service **25%** (2019: 24%)
- Other<sup>1</sup> **16%** (2019: 29%)
- Fees, rates and charges **9%** (2019: 9%)
- Product features and policy **7%** (2019: 5%)

### CMB top complaint categories

(% of total)



- Operations **25%** (2019: 26%)
- Account opening **23%** (2019: 4%)
- Other<sup>1</sup> **16%** (2019: 22%)
- Contact centre **11%** (2019: 6%)
- Process and procedures (global standards) **8%** (2019: 27%)
- Internet banking **8%** (2019: 8%)
- Fees, rates and charges **5%** (2019: 5%)
- Credit risk decisions **4%** (2019: 3%)

### GBM top complaint categories

(% of total)



- Process **41%** (2019: 34%)
- Systems and data **21%** (2019: 29%)
- People **20%** (2019: 21%)
- Other<sup>1</sup> **18%** (2019: 16%)

<sup>1</sup> 'Other' in WPB includes issues related to underwriting decisions, claims, personal data privacy, global standards; in CMB, it refers to a wide range of issues, including service closures and mobile banking; and in GBM it includes complaints in relation to third parties, as well as legislative and regulatory changes.

## Conduct

We are committed to providing customers with products that meet their needs. Good conduct at HSBC means that we deliver fair outcomes for customers, and maintain the orderly and transparent operation of financial markets

In this section, we address how we endeavoured to help our customers in each of our global businesses during a difficult year, which included the global Covid-19 pandemic.

# 17

Number of major markets where we introduced payment relief measures for our personal and wealth customers.

# >237,000

Wholesale customers supported globally with \$35.3bn of lending through both government schemes and our own initiatives at the end of 2020.

# 21,000

GBM colleagues who completed virtual conduct training in 2020.

### Supporting our customers responsibly

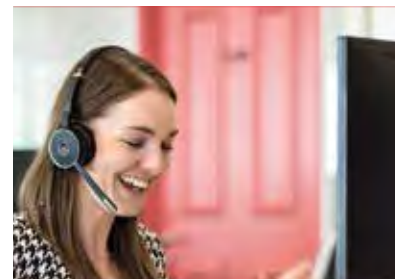
We responded rapidly to the changing environment caused by the Covid-19 outbreak and revised our internal policies and procedures to help our customers – especially the most vulnerable – fairly and safely.

Many of our personal banking and wealth customers needed financial relief as a result of the economic slowdown caused by the Covid-19 outbreak, which we sought to address in a responsible way. At 31 December 2020, we had active payment relief measures impacting 87,000 accounts and \$5.5bn in balances as part of market-wide schemes and our own payment holidays programmes. This consisted of \$4.7bn of mortgage balances and \$850m of other personal loans in repayment relief, compared with \$21.1bn of mortgage balances and \$5.2bn of other personal loans at the end of June 2020. To ensure customers were financially prepared, we followed local government guidelines. In the UK, we extended the payment relief scheme into March 2021 for customers who have not had a payment holiday, in line with local furlough timeframes.

In select markets, we used our digital messaging capabilities to inform customers about available financial help to reach more people more quickly. We also made the payment relief applications available online and offered support to customers through our chat functions, to enable a quick turnaround of payment relief requests. We responded quickly and flexibly to change our products for customers, adding insurance coverage for people whose health had been affected by Covid-19 in Hong Kong, mainland China, Singapore and Mexico, and extended the grace period for premium payment deferral in these countries as well as in France, the UK and Argentina.

While our digital services can support many of our customers, we were proactive in supporting the most vulnerable. In the UK, we identified customers who were at risk of being vulnerable during the Covid-19 outbreak, and conducted 565,780 outbound care calls to update them on safe options to access banking services, including access to emergency cash and the available payment relief options.

Global and country operational teams transitioned resources to homeworking throughout the period to ensure customer service levels were maintained with minimal disruption. Flexible resourcing and training was undertaken to allow staff to move from branches to call centres to support customers.



### Seeking solutions with our 'Covid bundle'

We aimed to reach more of our personal and wealth customers in innovative ways during the Covid-19 outbreak, which contributed to higher demand for banking services due to its economic impact. Our 'Covid bundle' project aimed to support our customers in our most affected markets through new features, capabilities and initiatives. In addition to providing customers in financial need a variety of payment options, we upgraded our telephony services and conversational capabilities on mobile and web chat to improve how we routed queries on forbearance and collections to our relevant front-line colleagues. This helped support our customers more quickly and mitigate the increased demand on our other front-line operational colleagues.

### Conduct continued

Prior to the Covid-19 outbreak, we increased our focus on identifying vulnerable customers in the UK, but this meant that our teams who service vulnerable customers in financial difficulty became much busier, resulting in a backlog of customer requests. In response, we added more staff to these teams, trained them and are working to resolve the backlog.

We also focused on training and coaching our customer-facing colleagues to meet the needs of customers who were made vulnerable due to having difficulties making payments.

#### Responding to business needs

Our CMB and GBM businesses introduced several measures to support our customers, many of whom faced pressures in their finances as lockdown restrictions impacted their businesses. As at the end of 2020, the lending support we provided to more than 237,000 wholesale customers globally was valued at \$35.3bn, both through government schemes and our own initiatives. We offered repayment holidays to help businesses respond to cash flow pressures and provided trade finance solutions to support customers with their supply chains.

We launched online portals for customer applications to various government-initiated loan schemes, and set up a global team to help oversee the provision of the loans, expediting the turnaround of loan requests and getting funds to our customers quicker. In the UK, a dedicated Covid-19-related phone line supported our customers by conveying what financial guidance and support is available to them. In order to help identify and mitigate any potential fraud associated with the Bounce Bank Loan Scheme, our UK Commercial Banking business is also part of an industry-wide fraud collaboration working

group, which has been set up by UK Finance and includes other lenders and government bodies.

In our GBM business, we focused on making responsible lending decisions and extending credit to corporate and institutional customers. We also sought to protect the integrity and flow of both internal and customer data, while maintaining an operationally resilient infrastructure. Relationship managers were in regular contact with customers, helping to ensure they received the most suitable support for their business.

Our Global Liquidity and Cash Management business, which helps our corporate clients access, manage and move their cash, provided urgent payment facilities to mobilise clients' cash where it was needed most, and helped them move rapidly to digital solutions. This included fast-tracking payments for urgent medical supplies from China to hospitals in Italy and enabling cashless, socially distanced payments for drive-through testing sites in Malaysia. Global Liquidity and Cash Management also launched a green deposit proposition during 2020 in the UK, Singapore and India, which involved allowing treasurers to make deposits that we use to finance environmentally beneficial initiatives, such as renewable energy and energy efficient projects.

Our Markets and Securities Services business provided additional guidance around pricing decisions in 2020, in light of heightened credit risk and remote working arrangements. We put in place measures and guidelines to help ensure information continues to be monitored effectively and controlled in the new working environment.

While working remotely, our Global Research team enhanced its review processes to provide timely research on economics, currencies, fixed income and equities, helping our institutional, government, corporate and central bank clients, as well as colleagues, navigate the extremely complex and fast-moving situation. We also increased the number of research products made freely available to help those affected by the crisis on a wide variety of platforms.

#### Digital support

We continued to invest in our digital services and tools to support our customers and colleagues, delivering initiatives to make banking with us simpler and more efficient, and we made greater use of online appointments and video calls to enable our workforce to work from home.

We launched new features in each of our businesses so we could handle crucial everyday activities remotely, such as onboarding.

In WPB, new digital features included allowing customers to activate cards and cancel regular payments through our mobile apps in select markets. Our CMB and GBM businesses each enabled key documents to be sent and received with paperless instructions, enabling digital sign-offs and eliminating the need for physical signatures.

We also rolled out globally our digital platform 'Vital Insights' in CMB following a pilot in Asia-Pacific, which helped enable us to understand the impact of Covid-19 on our customers and to take relevant action to help them manage uncertainty.



### Conduct of our colleagues

The conduct of our people is inextricably linked to the way we work.

In WPB, in response to the Covid-19 outbreak, we adapted and reprioritised global training, and rolled out well-being programmes and tools, such as coaching plans to support virtual working to ensure our teams had the resources they needed to work safely and productively.

We also remodelled our incentive programme scorecards to allow for flexibility, to help our colleagues focus on our customer needs, ensuring they can provide the appropriate solutions as a result of the pandemic.

In our CMB and GBM businesses, we issued guidance to our colleagues on remote working to help maintain high standards of conduct, adhere to competition law, and manage potential conflicts of interest.

In GBM, classroom-based conduct training was adapted for virtual learning, with more than 21,000 colleagues completing the curriculum in 2020. Cultivating a positive working culture is central to the well-being of our colleagues and the performance of our business. We introduced culture ambassadors, set up new communication channels for interactions with senior management, and established various well-being programmes.

## Conduct continued

### Delivering fair outcomes with our products

We are committed to providing customers with products that meet their needs. We have policies and procedures to help deliver fair outcomes for our customers, and to maintain orderly and transparent financial markets. Conduct principles are embedded into the way we develop, distribute, structure and execute products and services. We are refreshing our approach to conduct arrangements across the Group with a view to ensuring that the arrangements remain appropriate for the nature of our business.

### Product design and development

Our approach to product design and development entails the following overarching principles:

- We offer a carefully selected range of products that are continually reviewed to help ensure they remain relevant in each country they are offered and perform in line with expectations we have set. Where products do not meet our customers' needs or no longer meet our high standards, improvements are made or they are withdrawn from sale.
- Wherever possible, we act on feedback from our customers to provide better and more accessible products and services.
- We complete regular assessments of our products to help ensure we continue to deliver fair value.

Oversight of product design and sales governance for each of our global businesses is provided by governance committees chaired and attended by senior executives who are accountable for ensuring we manage our related non-financial risks appropriately, within appetite and in a manner designed to ensure fair customer outcomes.

Our CMB business considers customer feedback and user groups in its product development and has invested in the development of a new global product inventory and lifecycle management system to help ensure optimal product governance. The system uses Cloud technology to provide an improved way of managing our products from approval through to demise, and has been successfully piloted in our Global Trade and Receivables Finance and Global Liquidity and Cash Management businesses. The system, which we plan to deploy to all CMB markets within 2021, will help us to bring appropriate products to market more quickly, as well as helping to ensure we can more easily demonstrate fair customer outcomes.

In our GBM business, we made strides to further improve pricing transparency. We launched the first phase of our strategic foreign exchange margin management tool across 1.1 million wholesale customers in Singapore, the UAE, Australia and the UK. The tool provides customers who make or receive payments that require foreign exchange conversion with consistent pricing and improved transparency of information across our various banking channels.



## Transitioning away from Ibors

As a result of the planned cessation of the London interbank offered rates ('Libor'), Euro Overnight Index Average ('Eonia') and other benchmarks actively known as Ibors, we are ensuring that we have the product capability in place to support our customers on the transition to alternative rates. We aim to clearly outline the options available to our customers holding existing Libor-based products, and our commercial strategy is designed to minimise value transfer when transitioning their products from Libor to alternative rates.

In October 2020, we launched loans using the Sterling Overnight Index Average

('Sonia') benchmark administered by the Bank of England, which means that customers wanting to borrow on sterling Libor now have the option to borrow against Sonia instead.

We began offering Secured Overnight Financing Rate ('SOFR') loans as an alternative to US dollar Libor in the US, Hong Kong and the UK in 2020. Further products, notably derivatives, and country roll-outs are scheduled in 2021.

For further details on the transition from Ibors, see 'Ibor transition' in the Risk section on page 142.

## Conduct continued

### Ensuring sales quality

In our WPB business, to help ensure the quality of our sales process and our colleagues' behaviour in each of our markets, we conduct a mystery shopping programme and/or a sales quality programme. Issues identified are treated seriously.

We will take action to help achieve a fair outcome for our customers. Where concerns are found, we will contact the customer to apologise, explain and remediate. Depending on the severity of the issue, the relevant employee will be given enhanced training to improve their behaviour and they may become ineligible for an incentive reward payment. Where a case of misconduct occurs, disciplinary action may be taken, which can lead to dismissal.

In CMB, for our smaller business clients, we operate sales outcomes testing in 12 markets to ensure we correctly explain important product features, pricing, risks and benefits. In 2020, we identified 65 issues related to documentation, sales process and pricing, as well as some wrong customer outcomes. We ensured appropriate customer remediation took place along with the necessary internal action to resolve the situation. We plan to expand sales outcome testing to a further six sites in 2021.

### Meeting our customers' needs

We have robust oversight of the sales process, which aims to meet our customers' needs effectively. This involves reviewing the ongoing suitability of the products and services we offer and monitoring sales quality as well as examining how we incentivise our colleagues (see box below).

In our WPB business, we consider our customers' financial needs and personal circumstances to assist us in offering suitable product recommendations. This is achieved through:

- a globally consistent methodology to rate the riskiness of investment products, which is customised for local regulatory requirements;
- a thorough customer risk profiling methodology to help assess customers' financial objectives, attitude towards risk, financial ability to bear investment risk, and their knowledge and experience;
- robust testing during the design and development of a product to help ensure there is a clearly identifiable need in the market; and
- consistent standards to follow when we provide advice to our customers, while taking into account local regulations.

We realise that some circumstances can put customers in a vulnerable position, so we are training our colleagues to recognise and treat these individuals fairly.

Given the varying levels of customer sophistication and associated exposure to vulnerability in our CMB business, in 2020 we developed a globally consistent approach to ensure we can more effectively identify and support customers who are deemed potentially vulnerable, with a particular focus on sole traders and small and medium-sized enterprises.

### Lessons learned from the FX DPA

In 2018, we entered into a three-year deferred prosecution agreement with the US Department of Justice arising from its investigation into HSBC's historical foreign exchange activities ('FX DPA'). Since then, we have significantly raised our standards of conduct and strengthened our controls. We have introduced systems and enhanced procedures to monitor how we execute client transactions, carried out extensive conduct-focused training and built a conduct-led culture. As a result, the FX DPA has now expired, although the process to formally dismiss the underlying criminal charges will continue for several months. Our corresponding 2017 Consent Order with the US Federal Reserve Board remains in force and going forward we seek to continue to implement further reforms and we aim to ensure that they are effective and sustainable in the long term.



## Managing front-line employees and their incentives

In our WPB business, we provide training to our employees through our Product Management Academy, with more than 2,000 of our colleagues completing over 5,200 courses since 2017, including on customer insight, customer-focused design, communications, product development and governance.

We also use a discretionary approach to incentivising our front-line colleagues instead of a straight formula linked to sales. This global improvement has resulted in a more balanced performance assessment for our people. We have since reviewed the incentives approach during 2020 to

establish opportunities to be even more customer-centric, have greater focus on employee development and simplify the framework. We have also strengthened our approach to third-party sales agents that distribute our products, such as insurance, to ensure that our principles on balanced reward are in place. While there is still more to do, this change is designed to improve oversight and alignment with third-party sales agents.

# Employees

We are opening up a world of opportunity for our colleagues by building an inclusive organisation that prioritises well-being, invests in learning and careers and prepares our colleagues for the future of work.

## At a glance

### Our culture

Our organisation has been shaped by the many cultures, communities and continents we serve, with over 226,000 full-time equivalent employees ('FTEs') in 64 countries with 168 nationalities. We were founded on the strength of different experience and we continue to value that difference. We strive to champion inclusivity to better reflect the worlds of our customers and communities. Our culture is underpinned by our values: we value difference; we succeed together; we take responsibility, and we get it done.

▶ For further details on region, age, ethnicity, tenure and employment type of our workforce, see the *ESG Data Pack* at [www.hsbc.com/esg](http://www.hsbc.com/esg).

## The future of work



The Covid-19 outbreak taught us many roles can be undertaken effectively outside of our branches and offices, accelerating our focus on enabling greater flexibility in future working arrangements. Reskilling is also a key priority for us and we are investing in a programme to build future skills as we transform the structure of our business.

▶ Read more on the future of work on page 63.

## Inclusion



While there have been many new challenges during the Covid-19 outbreak, we continued our emphasis on inclusion. We believe that diversity makes us stronger, and we are dedicated to building a diverse and connected workforce. We made good progress on gender diversity and increased our focus on ethnicity and supporting our Black colleagues.

▶ Read more on inclusion on page 64.

## Well-being



We provided extra resources to help colleagues manage the mental and physical health challenges caused by the Covid-19 outbreak. We carried out two global well-being surveys of our colleagues in 2020, helping to shape our response and ensure we had the right assistance in place.

▶ Read more on well-being on page 66.

## Learning and skills development



We have continued to find new ways to support colleagues' learning and growth, transitioning to on-demand and digital platforms. We are also using video technologies to collaborate across boundaries more than ever before.

▶ Read more on learning and skills development on page 67.

## Listening to our colleagues



We believe in the importance of listening to our colleagues and seeking innovative ways to encourage colleagues to speak up. We monitor how we perform on selected metrics and benchmark against our peers.

▶ Read more on listening to our colleagues on page 68.

## The future of work

We expect the way our colleagues work to change as the workforce of the future meets new demands. Colleagues will be using new skills we have helped them to develop, and working more flexibly to support a better work-life balance.

### Adapting how we work

The Covid-19 outbreak tested our colleagues in many ways and they adapted at pace in this fast-changing environment.

In branches, we introduced social distancing measures, provided personal protective equipment, reduced operating hours and offered virtual appointments. For office workers, we made sure cybersecurity controls and software supported home working. In 2020, we delivered laptops, desktops or virtual desktop infrastructure to over 78,000 colleagues and had at points up to 70% of our whole workforce working from home at the same time. For some of our colleagues, we changed their roles, asking them to undertake activities that were outside of their normal activities (see box). We took an early decision not to furlough colleagues in the UK or apply for government support packages for our employees throughout 2020.

Our businesses are thinking about how we adapt to the future of work. As our offices reopen we expect to see a much greater degree of hybrid working, recognising that some roles and groups, such as regulated roles and new graduates, will need to spend more time in the office than others. We expect a change in the way we use our office space, recognising the work-life balance and environmental benefits of hybrid working arrangements.

The Covid-19 outbreak also impacted turnover, with 2020 recording the lowest voluntary turnover in the last 10 years at 8%, down three percentage points on 2019. The rates gradually declined month on month from April as the pandemic became more of a global challenge. Historically, voluntary turnover has on average been closer to 11%, and has remained largely flat at this rate over recent years.

### Building the skills of the future

We have developed a flagship Future Skills programme to prepare our colleagues for the changing skills required in the future workplace. We want our employees to take

greater ownership of their development and invest time in learning new skills. We are creating an innovative internal talent marketplace through new technology that helps improve career development by matching the skills and aspirations of our colleagues with business needs and opportunities.

### Managing change

Our three-year transformation programme, launched in February 2020, is accelerating the delivery of our strategy by creating a simpler, more customer-centric and future-focused bank.

We work hard to ensure our colleagues understand the reasons for change and how they might be affected. We communicate through our managers, supported by our transformation programme website, which explains our plans and rationale in each of our global businesses and functions, and we are committed to engaging meaningfully with our employee representative bodies. We ask our businesses to apply global guidance when carrying out changes to how we work to ensure a fair and consistent experience for our colleagues. We also provide mental health support guidance to managers to ensure they are mindful of the psychological impact of change for our colleagues and know how to access help. During the height of the Covid-19 outbreak, we paused the vast majority of redundancy activity.

We redeploy our colleagues impacted by change where possible. During 2020, we restricted external hiring and retained employees in preference to contractors so that internal talent came first wherever possible. We have made it easier for our colleagues affected by the transformation programme to find alternative roles with us by creating a dedicated platform on which their CVs are directly visible to internal recruiters. Of those whose roles became redundant in 2020, 14% were able to find new positions within HSBC. We provide skills development, career transition support and education for all our colleagues, including those who leave as a result of the transformation programme. We will aim to continue to retain and reskill our colleagues as much as possible over the next two years of the programme but where we cannot we provide severance payments in many locations that exceed statutory minimum levels.



## Adapting to a changing environment

Many of our colleagues have needed to adapt to the challenges brought about by the Covid-19 outbreak, and in some cases took on new responsibilities. In the UK, we asked colleagues to volunteer to undertake activities that were outside of their normal roles to meet the changing needs of our customers. This helped to keep many of our colleagues working during these extraordinary times. When we reduced branch opening times, over 1,000 UK branch staff worked in other business areas supporting activities such as processing Bounce Back loans to businesses, helping customers access loan repayment holidays and supporting with card disputes.

# 70%

Workforce working from home at the same time during the Covid-19 outbreak.

# 8%

Voluntary employee turnover. (2019: 11%)

## Inclusion

Our customers, suppliers and communities span many cultures and continents. We believe this diversity makes us stronger, and we are dedicated to building a diverse and connected workforce where everyone feels a sense of belonging.

### Women in senior leadership

In 2018, we committed to reach 30% women in senior leadership roles by 2020, which are classified as 0 to 3 in our global career band structure. We achieved 30.3%. Appointments of external female candidates into senior leadership reduced from 33.0% in 2019 to 31.6% in 2020. We will continue efforts to build more gender-balanced leadership teams and have set ourselves a target to achieve 35% women in senior leadership roles by 2025.

To diversify the talent pipeline, every member of our Group Executive Committee, as well as many members of their management teams, actively sponsor colleagues from under-represented groups, including women. We paid specific attention to how we select and promote candidates for roles and how colleagues can readily access opportunities.

In 2020, we expanded the Accelerating into Leadership programme to all businesses and functions. The programme provides group coaching, networking and development for high-performing women at manager level, which are those at level 4 in our global career band structure. Our Accelerating Female Leaders programme, which focuses on developing high-performing women at level 3 in the global career band structure, was attended by four times as many women in 2020 than in the previous year.

### Focus on UK gender and ethnicity pay gaps

In 2020, our median aggregate UK-wide gender pay gap, including all reported HSBC entities, was 48%, and our median bonus gap was 57.9%. Our overall UK gender pay gap is driven by the shape of our UK workforce. There are more men than women in senior and high-paid roles, and more women than men in junior roles, many of which are part-time.

For the first time we also published our UK ethnicity pay gap. Our median aggregate UK-wide ethnicity pay gap across all reported HSBC entities was -5.6%. Our median bonus gap was 0.8%. However, the pay gaps differ depending on the underlying ethnic minority group. The businesses and roles which employees from different ethnic groups work in impact the gaps, with relatively lower representation of ethnic minority employees in senior, higher paid roles. While 79% of our UK employees have declared their ethnicity, fewer senior, higher paid employees have done so to date and were therefore not included in our ethnicity pay gap analysis.

We intend to publish ethnicity representation and pay gap data annually to help ensure we continue making progress and help us identify further areas for action.

We review our pay practices regularly and also work with independent third parties to review equal pay. The most recent exercise was undertaken in 2020. If pay differences are identified that are not due to objective, tangible reasons such as performance or skills and experience, we make adjustments.

▶ Our complete Gender and Ethnicity UK Pay Gap Report 2020, along with more information about our pay gaps and related actions, can be found at [www.hsbc.com/who-we-are/our-people-and-communities/diversity-and-inclusion](http://www.hsbc.com/who-we-are/our-people-and-communities/diversity-and-inclusion).

### Gender diversity statistics<sup>1,2</sup>

Holdings Board	9	64%
	5	36%
Group Executive Committee	13	81%
	3	19%
Combined executive committee and direct reports	141	69%
	62	31%
Senior leadership	6,621	70%
	2,875	30%
Senior leadership WPB	1,059	66%
	545	34%
Senior leadership CMB	710	70%
	300	30%
Senior leadership GBM	2,218	78%
	635	22%
Senior leadership Digital Business Services	732	72%
	285	28%
All employees	111,422	48%
	119,618	52%

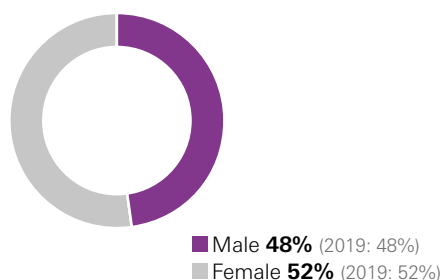
■ Male ■ Female

1 Combined executive committee and direct reports includes HSBC executive Directors, Group Managing Directors, Group Company Secretary and Chief Governance Officer and their direct reports (excluding administrative staff).

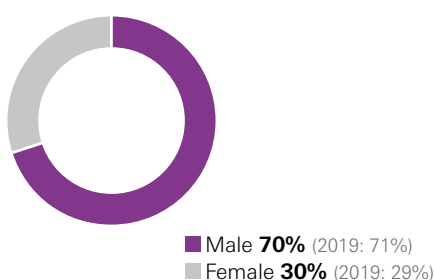
2 Senior leadership refers to employees performing roles classified as 0, 1, 2 and 3 in our global career band structure.

### Gender balance

All employees



Senior leaders<sup>2</sup>



### Percentage of our senior leadership who are women

30.3%

(2019: 29.4%)

## Our approach to ethnicity and Black Lives Matter

In May 2020, we launched a global ethnicity inclusion programme to help us respond to challenges that we identified through our data. This programme aims to improve the diversity of our workforce ethnicity profile across the organisation to reflect the customers and communities we serve.

The tragic death of George Floyd in the US accelerated conversations around race and

ethnicity across the Group. Listening to what our colleagues have told us in response to the Black Lives Matter movement has been so important in informing our actions. In July 2020, we also set out our race commitments to improve opportunities for Black and ethnic minority colleagues and boost the diversity of our senior leadership.

As part of this, we set an aspirational target

to at least double the number of Black employees in senior leadership roles from 0.7% at 31 December 2020 to 1.3% globally by 2025. To achieve our commitments, we are also strengthening our recruitment processes, partnering with specialist search firms, and enhancing talent development opportunities. In October 2020, we also published country-specific ethnicity data and action plans in the UK and US.



## Inclusion continued

### Delivering more inclusive outcomes for all

Our diversity and inclusion strategy is designed to deliver more inclusive outcomes for our colleagues, customers and suppliers. Globally we have driven improvements in representation and sentiment across multiple diversity strands, grown our commercial focus, strengthened our employee networks, and improved our diversity data. Here are some examples of our key achievements in 2020:



#### Beyond gender

Our global approach to diversity goes beyond gender to include ethnicity, disability and LGBT+ inclusion:

- Ethnicity: In 2020, we launched our global ethnicity inclusion programme, which is sponsored by Group Chief Risk Officer Pam Kaur and aims to diversify our workforce ethnicity profile (see box on page 64).
- Disability: We continue to develop our global approach to workplace adjustments to improve consistency for employees with disabilities, as part of our global disability confidence programme, sponsored by Group Chief Financial Officer Ewen Stevenson. We used our global footprint and connectivity to raise awareness about disability inclusion through our sponsorship of #PurpleLightUp.
- LGBT+: Our work, particularly around leadership and engaging colleagues, has again been recognised by Stonewall, which named HSBC as one of only 17 Top Global Employers for LGBT+ inclusion.



#### Beyond employees

Across our businesses, we are taking opportunities to be more inclusive of diverse customer groups.

In our private bank, we want to improve how we serve and gain insights into our female clients, and we are partnering with external networks AllBright and WealthiHer to address ways to improve women’s wealth.

Our Global Banking and Markets business has a team that incorporates a gender perspective into our mainstream products and business lines to generate business revenue from transactions that drive gender equality.

Our insurance business HSBC Life uses a diversity and inclusion framework to ensure product development and engagement opportunities are designed to address needs across different customer groups.



#### Employee networks

By appointing global executive sponsors from our Group People Committee as well as global co-chairs across our employee networks we are helping them to deliver consistent and impactful outcomes aligned to our strategy.

In 2020, we appointed our first global executive sponsors for our Embrace (ethnicity) and Generations (age) networks, and our first global co-chairs for Embrace, Ability (disability) and Nurture (caregivers) networks. Global sponsors and co-chairs are identifying issues and opportunities across their groups in different markets, and are collaborating with key business areas and across networks to implement changes that will help improve representation and engagement with diverse groups of colleagues.



#### Enhancing data

Collecting better diversity data is imperative to measure the success of our diversity and inclusion strategy, and to inform our inclusion priorities going forward. It will help us to gain a more accurate picture of our workforce diversity, pinpoint inclusion hotspots and be more transparent about our progress.

We have updated ethnicity categories in markets where we can currently collect that data to better reflect how colleagues self-identify. In many locations we have also delivered local campaigns to promote self-identification. In 2021, we are enabling more colleagues to share their ethnicity data with us where it is legally permissible and culturally acceptable to do so. We will run similar self-identification campaigns to improve declaration rates throughout the year.



### Making progress and next steps

There is a clear commitment to achieve change from across our leadership. This commitment is reinforced by enhanced recruitment processes, targets, partnerships with like-minded organisations, programmes to accelerate diverse leadership and ongoing dialogue with employees from under-represented groups to understand what we can do better.

The next phase of our strategy will take a broader approach to inclusion across the organisation. We will expand our focus to recognise the impact of belonging to multiple under-represented groups – for example, the barriers that might be faced by a Black women with disability.

We will continue to integrate inclusion principles into how we do business, and will use our employee networks to help us address barriers or opportunities together. Following colleague feedback, we will also seek to improve the HSBC experience for those with disability, using the Business Disability Forum’s Disability Standard – for which we achieved Silver in 2020 – as well as for our ethnic minority colleagues.

We are realistic that some progress will take time, and we will keep seeking to understand different perspectives and experiences to grow, learn and improve.

For further details on how our colleagues self-identify, see the *ESG Data Pack* at [www.hsbc.com/esg](http://www.hsbc.com/esg).

## Well-being

We are deeply committed to supporting the well-being of our people. Given the immense strain caused by the Covid-19 outbreak, including the new realities of working from home, home schooling and lack of physical contact with family members, friends and colleagues – it has never been more important. Our well-being priorities, driven by feedback from surveys of our people, remain mental health, work-life balance and financial security. Helping our colleagues be healthy and happy is the right thing to do, but by doing so, we also enable them to better support our customers and communities, which has been hugely important this year.

### Adapting to the challenges

In 2020, we provided extra resources to help colleagues manage the mental and physical health challenges caused by the Covid-19 outbreak. We launched a microsite to provide them with up-to-date information to support well-being, including guidance on how to work safely from home. We also made medical services available via video-conferencing to more than 50,000 colleagues.

At the start of the outbreak, we undertook additional surveys and virtual focus groups, helping us shape our response to the Covid-19 outbreak and to ensure we had the right assistance in place. From this, 86% told us they were confident in the approach our leadership team was taking to managing the crisis. In December 2020, we ran our annual global well-being survey, where 92,000 colleagues took part, helping us evaluate progress since 2019 and to shape future plans.

### Mental health

Our global well-being survey revealed 81% of colleagues rated their mental health as positive, a decrease of two points compared with 2019. Given the extraordinary challenges caused by the Covid-19 outbreak, we are not surprised to see that decrease. However, we are very encouraged to see that 70% of

colleagues feel confident talking to their line manager about mental health, an increase of 12 points compared with 2019.

Just over three-quarters (78%) of colleagues know how to get support at work about their mental health, an increase of 17 points compared with 2019, and 63% of colleagues feel able to take time off work when they experience a mental health concern, an increase of 17 points compared with 2019. In 2020, we provided specialist support to colleagues who were particularly affected by the Covid-19 outbreak, including a mental health seminar to colleagues in Wuhan, China. Human resources advisers and business continuity teams were given mental health resource packs. Our employee network group, Ability, offered weekly mental health calls to those in need.

We conducted an independent review of all our employee assistance programmes to see if they met best-practice standards, and to identify ways to improve our counselling services. We continued to promote our global mental health education programme that we launched in 2019, which has been completed by more than 22,000 colleagues. We also redesigned our mental health classroom course to be delivered virtually. Throughout 2020, we partnered with mental health groups, the City Mental Health Alliance and United for Global Mental Health, to share ideas with other organisations on ways to raise awareness and alleviate stigma surrounding mental health.

### Flexible working

Our colleagues have had to adapt how they work due to the Covid-19 outbreak, with 80% needing to work from home at the height of the outbreak. Our global well-being survey revealed 74% of colleagues feel they have a positive work-life balance, an increase of two points compared with 2019.

We are encouraged to see 76% of colleagues feel confident talking to their line manager about work-life balance and flexible working, an increase of 12 points compared with 2019, and 71% of colleagues know how to get support at work about work-life balance and flexible working, an increase of 14 points since 2019. In 2020, we promoted new resources, videos and education to help colleagues working remotely. Topics included stress management, coping with isolation, remote collaboration, workstation support, and balancing care-giving responsibilities. We are also thinking about how we will adapt when our offices reopen, recognising a greater need for hybrid working arrangements and the work-life benefits these bring.

### Financial security

Our global well-being survey revealed 68% of colleagues rated their financial well-being as positive, an increase of 14 points compared with 2019. We are encouraged to see that 50% of colleagues feel confident talking to their line manager about their financial well-being, an increase of 14 points compared with 2019. The survey also showed that 56% of colleagues know how to seek support at work about their financial well-being, an increase of 16 points since 2019, and 42% of colleagues feel they could handle an unexpected expense without significant hardship, an increase of 10 points since 2019. While these results are positive, we know there is more we can do.

Conscious that the pandemic may put financial pressures on some of our colleagues, we worked with experts from our Wealth and Personal Banking business to create a financial well-being education programme to help colleagues develop healthy financial habits. The programme was launched globally as part of our Future Skills Resilience curriculum. We will continue to expand this programme, with a follow-up module on the theme of building up savings, later in 2021.



## World Mental Health Day

To celebrate World Mental Health Day, we ran a global awareness campaign and created a film of colleagues sharing personal stories. Our human resources teams and employee network groups held virtual events in all locations across the whole month of October 2020. These events featured colleagues and external experts providing advice on a range of mental health-related topics including resilience, sleep and management of stress. Following this activity, we saw a 29% increase in colleagues accessing well-being resources

compared with the previous month. We believe this campaign activity contributed to the significant increases in levels of awareness, confidence and de-stigmatisation of mental health, and why 75% of colleagues said they believe HSBC cares about their well-being in our global well-being survey. In 2021, we will continue to work with our charity partner, United for Global Mental Health, to create campaigns that raise awareness and alleviate stigma.

## Learning and skills development

A workforce capable of meeting the challenges of today and tomorrow requires significant support to develop the right skills. Whatever our colleagues' career paths, we have a range of tools and resources to help them.

### A rapid shift to virtual learning

The Covid-19 outbreak resulted in a halt to classroom training and rapid expansion in virtual learning. We prioritised the transition to remote working and helping colleagues manage their well-being. The shift from physical classroom training to shorter virtual equivalents and online resources resulted in a total of 5.2 million hours and 2.9 days per FTE training in 2020.

We converted or rebuilt technical, professional and personal classroom programmes to deliver online. New joiners to HSBC experienced an immersive virtual induction programme and virtual internships. Our global graduate induction programme moved entirely online with more than 100 leaders and graduate alumni welcoming approximately 650 graduates.

### Supporting self-development

We have a range of tools and resources to help colleagues take ownership of their development and career.

- HSBC University is our one-stop shop for learning delivered via an online portal, network of global training centres and third-party providers.
- Our My HSBC Career portal offers career development resources and information on managing change and on giving back to the organisation and the communities in which we operate. Over 100,000 of our colleagues made use of it in 2020.
- We launched a global mentoring system in 2020 to enable colleagues to match with a mentor or mentee. At 31 December 2020, we had in excess of 6,800 mentors and mentees in 58 countries and territories.

### Developing core skills

Our managers are the critical link in supporting our colleagues. In 2020, we redesigned our suite of training and resources for managers so they can focus on the most important skills including leading and supporting teams through change.

Risk management remains central to development and is part of our mandatory training. Those at higher risk of exposure to financial wrongdoing experience more in-depth training on financial risks, such as money laundering, sanctions, bribery and corruption. Other programmes and resources address specific areas of risk, like management of third-party suppliers.

Our Cyber Hub brings together training, insights, events and campaigns on how to combat cyber-crime. We are also supporting those who develop models and senior leaders with training to help them understand and apply our Principles for the Ethical Use of Big Data and AI.

### A learning and feedback culture

We want our colleagues to be well prepared for changing workplace requirements and so have developed a flagship Future Skills programme to support them. We identified nine key behaviours we believe are necessary future skills for colleagues and built a curriculum of resources to support learners to develop these.

More than 1,000 colleagues now act as Future Skills Influencers, supporting their businesses and teams to invest in learning. In November 2020, we ran a week-long MySkills festival, which helped colleagues explore future skills through virtual events, interactive workshops and online resources. Demand to join sessions surpassed our expectations with more than 45,000 registrations for the events.

### Senior succession planning

Developing future leaders is critical to our long-term success. The Group Executive Committee dedicates time to articulate the current and future capabilities required to deliver the business strategy, and identify successors for our most critical roles.

Successors undergo robust assessment and participate in executive development. Potential successors for senior roles also benefit from coaching and mentoring and are moved into roles that build their skills and capabilities.



### Inspiring future coders

We know supporting the next generation provides a sense of fulfilment to our colleagues. We support the Technovation Girls programme, which inspires girls globally to design and code applications that solve problems in their community. The long-term goals of the programme are to build the capacity of girls as technology innovators, thereby reducing the gender gap in science, technology, engineering and mathematics ('STEM') professions.

Through our support, over 1,400 girls across the globe were able to participate in the programme in 2020. In August 2020, we supported the virtual Technovation World Summit that had nearly 2,000 participants. Winning teams were awarded cash prizes to spend on furthering their education in STEM subjects or turning their ideas into commercial projects.

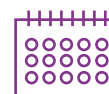


Training at HSBC

5.2 million

Training hours carried out by our colleagues in 2020.

(2019: 6.5 million)



2.9 days

Training days per FTE.

(2019: 3.5 days)

## Listening to our colleagues

We run a Snapshot survey every six months and report insights to our Group Executive Committee and the Board. Results are shared across the Group to provide managers in each region with a better understanding to plan and make decisions.

As our colleagues faced considerable challenges in 2020, Snapshot was a critical tool to ensure we were responding to our colleagues' needs.

### Listening to employee sentiment

In our 2020 Snapshot surveys, we had a record response rate of 62% in July and 56% in December, up from 52% and 50% respectively in the same periods of 2019. We undertook additional surveys and virtual focus groups, focusing on our colleagues' well-being, the changes that the Covid-19 outbreak brought to their working lives and their views on returning to the workplace. More than 50% of our colleagues participated in our Covid-19 well-being survey, with 86% telling us they were confident in the approach our leadership team was taking to managing the crisis.

### Finding new ways to listen

We used new and innovative ways to gather feedback and ideas from our colleagues in 2020. In June, we conducted virtual focus groups for the first time. Approximately 850 employees in four markets discussed what it was like to work during the Covid-19 outbreak and considered how work will evolve in the future. In October, we organised our first 'employee jam' – a live online chat between employees in 49 countries. This online conversation ran over 72 hours and captured more than 9,500 online posts on topics including the future of work and our values, which we have refreshed to remain relevant and reflective of our organisation.

In February 2021, we introduced to our colleagues our revised purpose and values, which were co-created through an extensive

listening, talking and reflecting exercise with tens of thousands of colleagues, customers and other stakeholders. Our new purpose is 'Opening up a world of opportunity'. Our new values are 'we value difference'; 'we succeed together'; 'we take responsibility'; and 'we get it done'.

It was the largest employee engagement programme in HSBC's history – helping to ensure our plans were an accurate reflection of everything our colleagues told us about what is best about HSBC, and everything we want to become.

During the consultation on our values, 90% of colleagues said they were clear on HSBC's new values and how they could be embedded into their day-to-day work.

### Encouraging our colleagues to speak up

We believe that change only happens when people speak up. If our colleagues have concerns, we want them to speak up to help us do what's right. In 2020, acting on findings from the November 2019 Snapshot survey, we ran a programme to raise awareness of how to speak up and what happens when we do. Our efforts focused on improving the process, demystifying how we investigate concerns and improving transparency about what action we should take as a result. Following the 2020 'Speak Up' campaign, our speak-up index, which is formed by surveying our colleagues' comfort on speaking up, rose six points in December 2020, compared with November 2019. The index outperformed peers by 10 points. We were pleased to see an improvement in employee sentiment, with 78% of respondents saying they felt able to speak up when they saw behaviour they considered to be wrong. However, a smaller proportion (66%) said they were confident that if they speak up, appropriate action will be taken. We recognise there is more to do to give our colleagues confidence that their concerns will be fully addressed. In 2021, we aim

to continue the speak-up programme and will monitor sentiment through our Snapshot survey.

### Our whistleblowing channels

At times individuals may not feel comfortable speaking up through the usual channels. Our global whistleblowing channel, HSBC Confidential, allows our colleagues and other stakeholders to raise concerns confidentially, and if preferred, anonymously (subject to local laws). Enhancements to the channel in December 2020 mean the majority of concerns are now raised through an independent third party offering 24/7 hotlines and a web portal in multiple languages.

We also provide and monitor an external email address for concerns about accounting, internal financial controls or auditing matters ([accountingdisclosures@hsbc.com](mailto:accountingdisclosures@hsbc.com)).

In 2020, while we continued to actively promote the channel, the volume of whistleblowing concerns fell by 11%, driven in part by the change in working environment during the Covid-19 outbreak. Of the whistleblowing cases closed in 2020, 81% related to behaviour and conduct, 15% to security and fraud risks, 4% to compliance risks and less than 1% to other categories.

The Group Audit Committee has overall oversight of the Group's whistleblowing arrangements. Concerns are investigated proportionately and independently, with action taken where appropriate. This can include disciplinary action, dismissal, and adjustments to variable pay and performance ratings.

Our 2020 Snapshot survey showed increasing confidence among our colleagues in raising whistleblowing concerns without fear of reprisal, reflecting our policy of zero tolerance for acts of retaliation. This continues to be an area of focus.

## Employee conduct and harassment

We rely on our people to deliver fair outcomes for our customers and to make sure we act with integrity in financial markets.

We foster a healthy working environment and expect our people to treat each other with dignity and respect, and take action where we find behaviour that falls short of our expectations.

The types of cases, thematic links between them, and changes in volumes are reported on a regular basis to management

committees. Where we see themes or adverse trends we take action, including training, communications and policy changes.

In 2020, to ensure clarity over the standards of behaviour expected, we delivered mandatory training on bullying and workplace harassment. The training emphasised our commitment to creating an environment where our people feel comfortable to speak up and step in where they witness poor behaviour.

We also took disciplinary action against 2% of our employees for poor conduct, examples of which include avoiding customer calls and not treating colleagues respectfully. Over 800 colleagues were dismissed for poor behaviour, including 41 for workplace harassment. We believe in transparency on these matters, and also know that we have room to improve. In 2021, we will enhance our conduct policies and procedures so that they remain current, clear and effective.

## Listening to our colleagues continued

### Measuring our progress against peers

In 2020, we introduced six new Snapshot indices to measure key areas of focus and to enable comparison against a peer group of global financial institutions. The table sets out how we performed.

Index	Score <sup>1</sup>	vs 2019	HSBC vs benchmark <sup>2</sup>	Questions that make up the index
Employee engagement	72	+5	+2	I am proud to say I work for this company. I feel valued at this company. I would recommend this company as a great place to work.
Employee focus	72	New	+4	I generally look forward to going to work. My work gives me a feeling of personal accomplishment. My work is challenging and interesting.
Strategy	68	New	-1	I have a clear understanding of this company's strategic objectives. I am seeing the positive impact of our strategy. I feel confident about this company's future.
Change leadership	74	New	0	Leaders in my area set a positive example. My line manager does a good job of communicating reasons behind important changes that are made. Senior leaders in my area communicate openly and honestly about changes to the business.
Speak-up	75	+6	+10	My company is genuine in its commitment to encourage colleagues to speak up. I feel able to speak up when I see behaviour which I consider to be wrong. Where I work, people can state their opinion without the fear of negative consequences.
Trust	75	+6	+5	I trust my direct manager. I trust senior leadership in my area. Where I work, people are treated fairly.

<sup>1</sup> Each index comprises three constituent questions, with the average of these questions forming the index score.  
<sup>2</sup> We benchmark Snapshot results against a peer group of global financial services institutions, provided by our research partner, Karian and Box. Scores for each question are calculated as the percentage of employees who agree to each statement. For further details on the constituent questions and past results, see the *ESG Data Pack* at [www.hsbc.com/esg](http://www.hsbc.com/esg).

### Measuring employee engagement

To understand how our colleagues perceive the organisation, we ask if they feel proud, valued and willing to recommend HSBC as a great place to work. These questions form our employee engagement index. Engagement rose significantly in 2020 and was two points above our peers. More colleagues said they 'feel valued by HSBC' compared with November 2019. Employee advocacy, which is defined as those who would recommend HSBC, improved five points in 2020 to 71%. We aim to continue improving our understanding and address why 20% of our colleagues report neutral levels of advocacy. Our research showed that key drivers of engagement are career opportunities, trust in leadership and our commitment to encourage speaking up. We expect our flagship programme to help build future skills and that this will in turn drive further improvements in engagement levels.

### Measuring employee focus

Our employee focus index tells us about our colleagues' perception of their work. The 2020 results were four points above our peers. This will be a key measure of progress for our transformation and our programme to build future skills.

### Measuring strategy and change leadership

Our strategy index, which measures how employees feel about HSBC's direction, was just below its benchmark. However, the index included an improvement in scores for questions on whether colleagues see a positive impact of our strategy and if they have confidence in the future. Our efforts to reshape the business and the uncertain business environment are affecting these results, and we recognise the challenge this creates for colleagues. Despite these challenges, our change leadership index, which measures how employees feel about change communication and leadership setting a positive example, performed in line with the benchmark. This will continue to be vital during our ongoing transformation.

### Measuring speak-up and trust

Our speak-up index rose six points from November 2019, representing the biggest improvement in the indices we measure. Similarly, trust, particularly in senior leadership, improved significantly. These results are encouraging but need to be viewed in the context of the Covid-19 outbreak where research showed our colleagues were positive about HSBC's handling of the crisis. Maintaining these gains through a period of ongoing change and uncertainty will require sustained effort.

### Whistleblowing concerns raised (subject to investigation) in 2020

**2,510**  
(2019: 2,808)

### Substantiated and partially substantiated whistleblowing cases in 2020<sup>1</sup>

**42%**  
(2019: 33%)

### Employee advocacy

**71%**

Would recommend HSBC as a great place to work.  
(2019: 66%)

<sup>1</sup> The 2020 substantiation rate excludes concerns redirected to other escalation routes.



# Governance

We remain committed to high standards of governance. We work alongside our regulators and recognise our contribution to building healthy and sustainable societies.

## At a glance

### Our relationship

We act on our responsibility to run our business in a way that upholds high standards of corporate governance.

We are committed to working with our regulators to manage the safety of the financial system, adhering to the spirit and the letter of the rules and regulations governing our industry. In our endeavour to restore trust in our industry, we aim to act with courageous

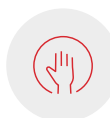
integrity and learn from past events to help prevent their recurrence.

We meet our responsibilities to society, including through being transparent in our approach to paying taxes. We also seek to ensure we respect global standards on human rights in our workplace and our supply chains, and continually work to improve our compliance management capabilities.

We acknowledge that increasing financial inclusion is a continuing effort, and we are carrying out a number of initiatives to increase access to financial services.

▶ For further details on our corporate governance see our corporate governance report on page 237.

## Respecting human rights



We respect human rights and have signed, or expressed support for, a number of international codes, as set out in our Statement on Human Rights.

▶ Read more on respecting human rights on page 71.

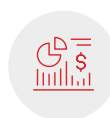
## Our approach with our suppliers



Our ethical code of conduct for suppliers of goods and services, which must be complied with by all suppliers, sets out minimum standards for economic, environmental and social impacts.

▶ Read more on our approach with our suppliers on page 73.

## Supporting financial inclusion



We aim to deliver products and services that address financial barriers. We invest in financial education to help customers, colleagues and people in our communities be confident users of financial services.

▶ Read more on supporting financial inclusion on page 71.

## A responsible approach to tax



We seek to pay our fair share of tax in the jurisdictions in which we operate and to minimise the likelihood of customers using our products to inappropriately avoid tax.

▶ Read more on a responsible approach to tax on page 74.

## Protecting data



We are committed to protecting the information we hold and process in accordance with local laws and regulations. We continue to strengthen our controls to prevent, detect and react to cyber threats.

▶ Read more on protecting data on page 72.

## Restoring trust



We have sought to learn from past mistakes and we are seeking to develop and implement specific measures designed to prevent recurrence of similar events in the future.

▶ Read more on restoring trust on page 75.

## Safeguarding the financial system



We remain committed in our efforts to combat financial crime by continuing to invest in new technology to protect our customers and organisation, while supporting key industry initiatives.

▶ Read more on safeguarding the financial system on page 73.

## Respecting human rights

We recognise the duty of states to protect human rights and the role played by business in respecting them, in line with the UN Guiding Principles' Protect, Respect and Remedy framework. We have signed, or expressed support for, a number of international codes as set out in our Statement on Human Rights. Our Human Rights Steering Committee, which was set up in 2018, continues to develop our approach to human rights. Our Statement on Human Rights is available at [www.hsbc.com/our-approach/esg-information](http://www.hsbc.com/our-approach/esg-information).

### Pioneering scheme

Our pioneering scheme to help survivors of human trafficking is now used as a model for making financial services more accessible to vulnerable communities through the UN's

Finance Against Slavery and Trafficking ('FAST') Survivor Inclusion Initiative.

Building on the success of our Survivor Bank programme in the UK, for which we received a Stop Slavery Award from the Thomson Reuters Foundation, we became the first bank in Hong Kong to offer a Hong Kong Dollar Statement Savings account for residents who do not have a fixed abode, or who are living in subdivided flats without access to postal services. Having a bank account can improve financial security for members of disadvantaged communities – including those under potential risk of forced labour or debt bondage – and potentially enable them to receive welfare allowances or find employment.

### Spotting the signs of human trafficking

In many cases, transactions related to modern slavery and human trafficking will not be identified by automated systems alone. As a result, our analysts also use a range of secondary indicators that may not signify suspicious activity on their own, but which can be assessed as part of a case review. Examples where such transactions have successfully been identified and escalated are then shared internally, as case studies for others to learn from.

For details of our approach to modern slavery, see: [www.hsbc.com/our-approach/risk-and-responsibility/modern-slavery-act](http://www.hsbc.com/our-approach/risk-and-responsibility/modern-slavery-act).



## Identifying suspicious activity

When two large cash deposits were made to the same account on two consecutive days, it raised suspicion with one of our analysts. Further investigation identified a number of cautionary flags for potential illegal activity, including the apparent findings that 17 people – all of whom banked with HSBC – lived in the same property. The case was escalated to an investigations team, who filed a suspicious

activity report with the UK regulator. We also proceeded to close the account. With these actions, we not only disrupted the individual, but also alerted the authorities to take the case forward through appropriate law enforcement channels.

## Supporting financial inclusion

We believe that financial services, when accessible and fair, can reduce inequality and help more people access opportunities.

### Access to products and services

We aim to deliver products and services that address the barriers people can face in accessing financial services.

In 2020, we continued to offer innovative product offerings. In the UK, we are educating people about banking services and reducing barriers for those who do not have a fixed address as well as for survivors of human trafficking. We also introduced new products, such as banking services for refugees in Hong Kong, allowing individuals to have a safe, affordable way to receive support from overseas family, friends or local non-governmental organisations.

We embedded diversity and inclusion standards into our new product approval framework for retail banking, wealth, insurance and digital products, such as in India, where we added a transgender option to the customer application and underwriting criteria for health insurance.

### Access to financial education

We invest in financial education to help customers, colleagues and people in our communities be confident users of financial services.

In 2020, we provided more of our own financial education content, such as articles and features on our digital channels. We had over 1.7 million unique visitors to our digital content in 2020, making progress towards our

2019 goal of reaching four million unique visitors by the end of 2022.

We also support charity programmes that deliver financial education. In 2020, HSBC UK partnered with Young Money, a UK-based charity focused on children's financial education, to introduce Money Heroes, an innovative education programme that brings together teachers and parents or carers to develop a child's financial capability from ages three to 11. Combining learning with real life activities, Money Heroes aims to reach one million children over three years, supporting the most vulnerable communities.

## Protecting data

### Cybersecurity

The threat of cyber-attacks remains a concern for our organisation, as it does across the entire financial sector. Failure to protect our operations from internet crime or cyber-attacks may result in financial loss, disruption for customers or a loss of data. This could undermine our reputation and ability to attract and retain customers.

We have invested in business and technical controls to help prevent, detect and react to these threats. We continually evaluate threat levels for the most prevalent attack types and their potential outcomes. We have strengthened our controls to reduce the likelihood and impact of advanced malware, data leakage, infiltration of payment systems and denial of service attacks. In 2020, we continued to strengthen our cyber defences to enhance our cybersecurity capabilities, including: Cloud security; identity and access management; metrics and data analytics; and third-party security reviews. These defences are grounded in mature controls that mitigate the current cyber-attacks and build upon a proactive data analytical approach to identify and mitigate future advanced targeted threats. In addition, an important part of our defence strategy is ensuring our people remain aware of cybersecurity issues and know how to report incidents. We continue to run regular cyber awareness campaigns and have dedicated training programmes in place.

We operate a three lines of defence model, aligned to the operational risk management framework, to ensure robust oversight and challenge of our cybersecurity capabilities and priorities. In the first line of defence, we have risk owners within global businesses and functions who are accountable for identifying, owning and managing the cyber risk. They work with control owners to help ensure controls are in place to mitigate issues, prevent risk events from occurring and resolve them if they do. These controls are executed in line with policies produced by the information

security risk teams, the second line of defence, which provide independent review and challenge. They are overseen by the third line of defence, which is the Global Internal Audit function.

We regularly report and review cyber risk and control effectiveness at relevant governance forums and the Board to ensure appropriate oversight. We also report across the global businesses, functions and regions to help ensure appropriate visibility and governance of risks and mitigating controls.

### Data privacy

We are committed to protecting and respecting the data we hold and process, in accordance with the laws and regulations of the geographies in which we operate.

Our approach rests on having the right talent, technology, systems, controls policies, and processes to help ensure appropriate management of privacy risk. Our Group-wide privacy policy and principles provide a consistent global approach to managing data privacy risk, and must be applied by all of our global businesses and global functions.

We conduct regular training sessions on data privacy and security issues throughout the year, including global mandatory training for all our colleagues, along with additional training sessions, where required, to keep abreast of new developments in this space.

We provide transparency to our customers and stakeholders on how we collect, use and manage their personal data, and their associated rights. Where relevant, we work closely with third parties to help ensure adequate protections are provided, in line with our data privacy policy and as required under data privacy law. We offer a broad range of channels in the markets we operate, through which customers and stakeholders can raise any concerns regarding the privacy of their data.

We have established dedicated privacy teams reporting to the highest level of management on data privacy risks and issues, and overseeing our global data privacy programmes. We report data privacy regularly at multiple governance forums, including at Board level, to help ensure there is appropriate challenge and visibility among senior executives. In addition, we have established data privacy governance structures and continue to embed accountability across all businesses.

We are committed to implementing industry practices for data security and our privacy teams work closely to drive the necessary design, implementation and monitoring of privacy solutions, including conducting regular reviews and data privacy risk assessments. We implemented procedures that articulate clearly the action to be taken when dealing with a data privacy breach. These include notifying regulators, customers or other data subjects, as required under applicable privacy laws and regulations, in the event of a reportable incident occurring.

### Data Privacy Day

In January 2020, we hosted a global data privacy event for all our colleagues to mark International Data Privacy Day. The event highlighted the importance of taking accountability for data privacy across the organisation and the continuing need to provide simple and clearer mechanisms for our customers to have more control and choice in managing their data.

We invited internal and external speakers, including the UK's former Deputy Information Commissioner, our Group Data Protection Officer and Group Chief Data Officer, as well as representatives from the technology industry. The event was broadcast across 62 countries.



## Cybersecurity Awareness Month

Our cybersecurity teams endeavour to educate, support and equip every colleague with the tools to prevent, mitigate and report cyber incidents, and keep our organisation and customers' data safe. Throughout October 2020, the cybersecurity team hosted a number of virtual awareness events for all colleagues as part of a dedicated annual Cybersecurity Awareness Month. The global

and local events were hosted by our executive leaders, with the support of a number of internal subject matter experts and external guest speakers. The Cybersecurity Awareness Month established a new level of awareness, participation, and commitment to cybersecurity inside the Group.



## Safeguarding the financial system

We have continued our efforts to combat financial crime risks and reduce their impact on our organisation and the wider world. These financial crime risks include money laundering, terrorist and proliferation financing, tax evasion, bribery and corruption, sanctions and fraud. As part of this work, we have made progress on several key initiatives, enabling us to manage and mitigate these risks more effectively, and further our pioneering work in financial crime risk management across the financial services industry.

### Financial crime risk management

We have embedded a strong financial crime risk management framework across all global businesses and all countries and territories in

which we operate. For further details on our financial crime risk management framework, see page 229.

We continue to invest in new technology to enable us to make an impact in the fight against financial crime. Our global social network analytics platform, which we launched in 2018 as an investigative tool, now helps us detect high-risk activity across our trade finance business. Using a contextual monitoring approach, we are able to improve the accuracy and efficiency of our operations, removing delays in approving genuine customer transactions while focusing attention on behaviour of concern.

Building on this approach, we have made progress in applying machine learning techniques to improve the accuracy and timeliness of our financial crime detection capabilities. Working with industry leaders, we have sought to share what we have learned, contributing to the development of best practice in this emerging field, in line with our Principles for the Ethical Use of Big Data and AI.

We are confident our adoption of these new technologies will continue to enhance our ability to respond quickly to suspicious activity and be more granular in our risk assessments, helping to protect our customers and the integrity of the financial system.

### The scale of our work

Each month, we screen over 708 million transactions across 275 million accounts for signs of money laundering and financial crime. In addition, we screen approximately 114 million customer records and 45 million transactions monthly for sanctions exposures. During 2020, we filed almost 50,000 suspicious activity reports to law enforcement and regulatory authorities where we identified potential financial crime.



## Our approach with our suppliers

We have globally consistent standards and procedures for the onboarding and use of external suppliers. We require suppliers to meet our compliance and financial stability requirements, as well as to comply with our supplier ethical code of conduct. We consider on time payment to be of paramount importance, and our commitment to paying our suppliers is in line with all local requirements, including the Prompt Payment Code in the UK.

### Supplier ethical code of conduct

We have an ethical code of conduct for suppliers of goods and services, which

must be complied with by all suppliers. While our businesses and functions are accountable for the suppliers they use, our global procurement function owns the code of conduct review process for them. Our goal is to work collaboratively with our supply chain partners on sustainability at all times.

The ethical code of conduct, which we require suppliers to adopt, sets out minimum standards for economic, environmental and social impacts and outlines the requirement for a governance and management structure to help ensure compliance. Our supplier management conduct principles set out how

we conduct business with our third-party suppliers both in our legal and commercial obligations. They also explain how we treat suppliers fairly through our behaviour and actions and in line with our values.

▶ Our supplier management principles and our ethical code of conduct are available at: [www.hsbc.com/our-approach/risk-and-responsibility/working-with-suppliers](http://www.hsbc.com/our-approach/risk-and-responsibility/working-with-suppliers).

## A responsible approach to tax

We seek to pay our fair share of tax in the jurisdictions in which we operate and to minimise the likelihood of customers using our products and services to evade or inappropriately avoid tax. Our approach to tax and governance processes is designed to achieve these goals.

Through adoption of the Group's risk management framework, controls are in place that are designed to ensure that inappropriately tax-motivated transactions or products are not adopted by the Group and that any tax planning used must be supported by genuine commercial activity. HSBC has no appetite for using aggressive tax structures. Significant investment has been made to strengthen our risk processes and train staff to identify instances of potential tax evasion and we continue to enhance these processes.

With respect to our own taxes, we are guided by the following principles:

- We are committed to applying both the letter and spirit of the law in all jurisdictions in which we operate. This includes adherence to a variety of measures arising from the OECD Base Erosion and Profit Shifting initiative.

- We seek to have open and transparent relationships with all tax authorities. As with any group of our size and complexity, a number of areas of differing interpretation or disputes with tax authorities exist at any point in time. We work with the local tax authorities to try to agree and resolve these in a timely manner.

- We have applied the OECD/G20 Inclusive Framework Pillar 2 guidance to identify those jurisdictions in which we operate that have nil or low tax rates (12.5% or below). We have identified seven such jurisdictions in which we had active subsidiaries during 2020<sup>1</sup>. We continually monitor the number of subsidiaries within the Group as part of the Group's ongoing entity rationalisation programme. We intend to continue this process, with the aim of ensuring that the HSBC entities remaining in such jurisdictions are regulated entities essential for conducting business.

With respect to our customers' taxes, we are guided by the following principles:

- We have made considerable investment implementing processes designed to enable us to support external tax transparency initiatives and reduce the risk of banking

services being used to facilitate customer tax evasion. These initiatives include the US Foreign Account Tax Compliance Act, the OECD Standard for Automatic Exchange of Financial Account Information (the 'Common Reporting Standard'), and the UK legislation on the corporate criminal offence of failing to prevent the facilitation of tax evasion.

- We have processes in place to help ensure that inappropriately tax-motivated products and services are not provided to our customers.

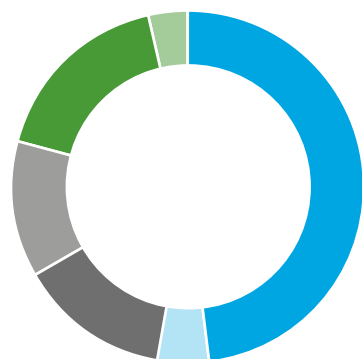
For further details of our approach to financial crime and action we have taken, see page 73.

### Our tax contributions

The effective tax rate for the year was 30.5%. Further details are provided on page 344.

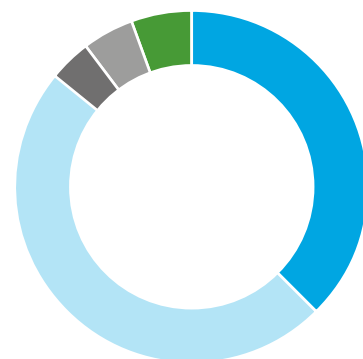
As highlighted below, in addition to paying \$8.1bn of our own tax liabilities during 2020, we collected taxes of \$9.5bn on behalf of governments around the world. A more detailed geographical breakdown of the taxes paid in 2020 is provided in the *ESG Data Pack*. The tax we paid during 2020 was higher than in 2019 due to differences in the timing of payments, particularly in Hong Kong.

Taxes paid – by type of tax



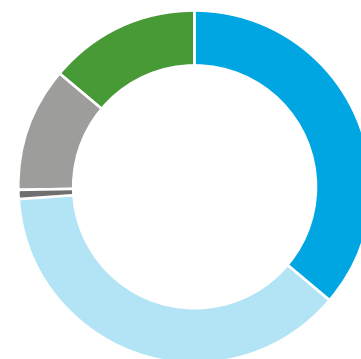
- Tax on profits **\$3,873m** (2019: \$1,988m)
- Withholding taxes **\$386m** (2019: \$282m)
- Employer taxes **\$1,121m** (2019: \$1,041m)
- Bank levy **\$1,011m** (2019: \$889m)
- Irrecoverable VAT **\$1,389m** (2019: \$1,164m)
- Other duties and levies **\$278m** (2019: \$227m)

Taxes paid – by region



- Europe **\$3,022m** (2019: \$3,077m)
- Asia-Pacific **\$3,911m** (2019: \$1,487m)
- Middle East and North Africa **\$299m** (2019: \$313m)
- North America **\$382m** (2019: \$314m)
- Latin America **\$444m** (2019: \$400m)

Taxes collected – by region



- Europe **\$3,462m** (2019: \$3,636m)
- Asia-Pacific **\$3,595m** (2019: \$3,288m)
- Middle East and North Africa **\$90m** (2019: \$127m)
- North America **\$1,089m** (2019: \$876m)
- Latin America **\$1,302m** (2019: \$1,379m)

1 The Bahamas, Bermuda, the Cayman Islands, Guernsey, Ireland, Jersey and the British Virgin Islands.

## Restoring trust

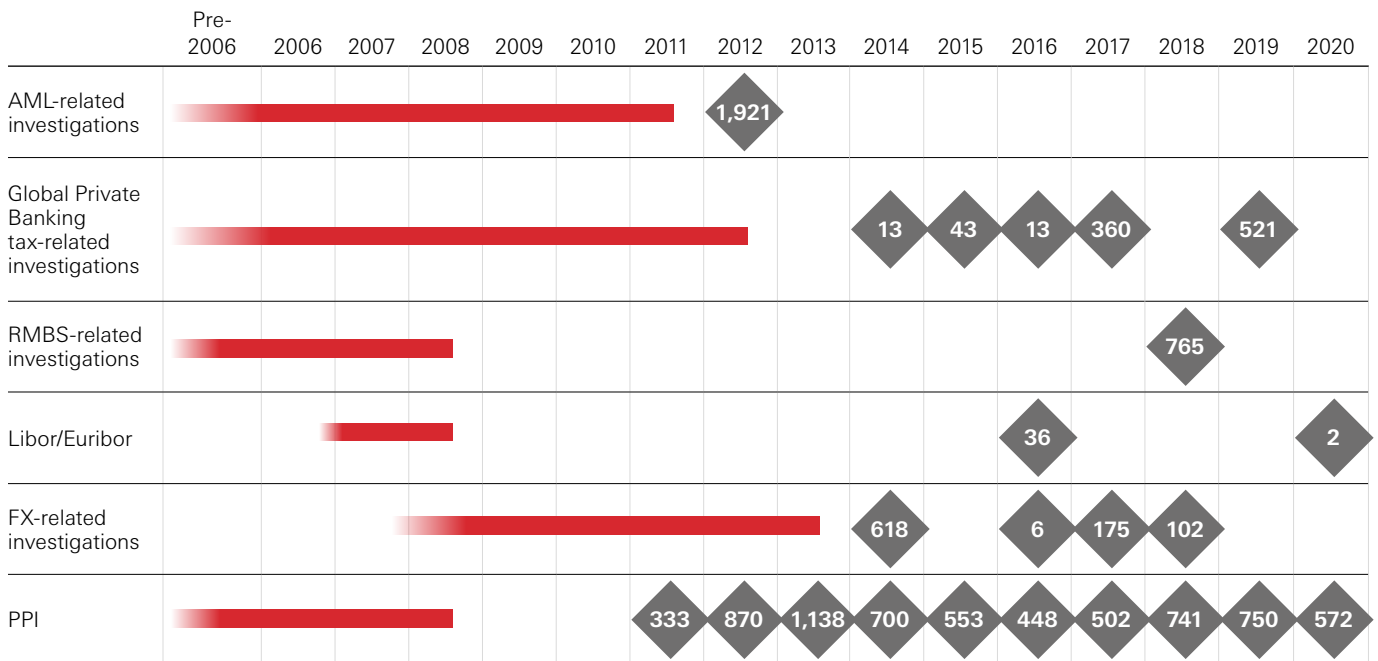
Restoration of trust in our industry remains a significant challenge as past misdeeds continue to remain in the spotlight. But it is a challenge we must meet successfully. We owe this not just to our customers and to society at large, but to our employees to ensure they can rightly be proud of the organisation where they work. We aim to act with courageous integrity in all we do. This guiding principle means having the courage

to make decisions based on doing the right thing for customers and never compromising our ethical standards.

The chart below sets out fines and penalties arising out of major investigations involving criminal, regulatory, competition or other law enforcement authorities, and costs relating to PPI remediation. We have sought to learn from these past mistakes and are seeking to

develop and implement specific measures designed to prevent recurrence of similar events in the future. Further information regarding the measures that we have taken to prevent the recurrence of some of these matters can be found at [www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies](http://www.hsbc.com/who-we-are/esg-and-responsible-business/esg-reporting-and-policies).

### Major criminal and regulatory fines and penalties and PPI remediation<sup>1</sup>



Key  
■ Duration of conduct period    **\$m** Fines/penalties/other costs

<sup>1</sup> This chart only includes fines and penalties arising out of major investigations involving criminal, regulatory, competition or other law enforcement authorities, and costs relating to PPI remediation. The chart reflects the year in which a fine, penalty or remediation cost was paid, which may be different from when a loss or provision was recognised under IFRSs. Settlements or other costs arising out of private litigation or arbitration proceedings are not included.



# Financial review

- 77 Financial summary
- 99 Global businesses and geographical regions
- 119 Reconciliation of alternative performance measures
- 121 Other information

## World's first corporate bonds to tackle plastic waste

Our green expertise and global connectivity helped Henkel, a leading consumer goods and industrial company, to issue the first ever corporate bonds aimed at tackling plastic waste.

The firm behind well-known brands and products such as Persil detergent, Schwarzkopf shampoo and Loctite adhesives will use the equivalent of \$100m raised for projects and expenditures related to its activities to foster a circular economy, which include the development of reusable and recyclable packaging.

We were sole green structuring adviser and sole lead manager on the five-year fixed-rate bonds, which were issued in two tranches. The bonds generated interest from international investors from Japanese insurers to German banks.

## Financial summary

	Page
Use of alternative performance measures	77
Changes from 1 January 2020	77
Critical accounting estimates and judgements	77
Consolidated income statement	78
Income statement commentary	79
Consolidated balance sheet	84

### Use of alternative performance measures

Our reported results are prepared in accordance with IFRSs as detailed in the financial statements starting on page 314. To measure our performance, we supplement our IFRS figures with non-IFRS measures that constitute alternative performance measures under European Securities and Markets Authority guidance and non-GAAP financial measures defined in and presented in accordance with US Securities and Exchange Commission rules and regulations. These measures include those derived from our reported results that eliminate factors that distort year-on-year comparisons. The 'adjusted performance' measure used throughout this report is described below. Definitions and calculations of other alternative performance measures are included in our 'Reconciliation of alternative performance measures' on page 119. All alternative performance measures are reconciled to the closest reported performance measure.

A change in reportable segments was made in 2020 by combining Global Private Banking and Retail Banking and Wealth Management to form Wealth and Personal Banking. We also reallocated our reporting of Markets Treasury, hyperinflation accounting in Argentina and HSBC Holdings net interest expense from Corporate Centre to the global businesses. Comparative data have been re-presented on an adjusted basis in accordance with IFRS 8 'Operating Segments' with the change in reportable segments explained in more detail in Note 10: Segmental analysis on page 347.

### Adjusted performance

Adjusted performance is computed by adjusting reported results for the effects of foreign currency translation differences and significant items, which both distort year-on-year comparisons. We consider adjusted performance provides useful information for investors by aligning internal and external reporting, identifying and quantifying items management believes to be significant, and providing insight into how management assesses year-on-year performance.

### Significant items

'Significant items' refers collectively to the items that management and investors would ordinarily identify and consider separately to improve the understanding of the underlying trends in the business.

The tables on pages 99 to 102 and pages 110 to 115 detail the effects of significant items on each of our global business segments, geographical regions and selected countries/territories in 2020, 2019 and 2018.

### Foreign currency translation differences

Foreign currency translation differences reflect the movements of the US dollar against most major currencies during 2020.

We exclude them to derive constant currency data, allowing us to assess balance sheet and income statement performance on a like-for-like basis and better understand the underlying trends in the business.

#### Foreign currency translation differences

Foreign currency translation differences for 2020 are computed by retranslating into US dollars for non-US dollar branches, subsidiaries, joint ventures and associates:

- the income statements for 2019 and 2018 at the average rates of exchange for 2020; and
- the balance sheets at 31 December 2019 and 31 December 2018 at the prevailing rates of exchange on 31 December 2020.

No adjustment has been made to the exchange rates used to translate foreign currency-denominated assets and liabilities into the functional currencies of any HSBC branches, subsidiaries, joint ventures or associates. The constant currency data of HSBC's Argentinian subsidiaries have not been adjusted further for the impacts of hyperinflation. When reference is made to foreign currency translation differences in tables or commentaries, comparative data reported in the functional currencies of HSBC's operations have been translated at the appropriate exchange rates applied in the current period on the basis described above.

### Changes from 1 January 2020

#### Interest rate benchmark reform – Phase 2

Interest Rate Benchmark Reform Phase 2: Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16 issued in August 2020 represents the second phase of the IASB's project on the effects of interest rate benchmark reform, addressing issues affecting financial statements when changes are made to contractual cash flows and hedging relationships as a result of the reform.

Under these amendments, changes made to a financial instrument that are economically equivalent and required by interest rate benchmark reform do not result in the derecognition or a change in the carrying amount of the financial instrument, but instead require the effective interest rate to be updated to reflect the change in the interest rate benchmark. In addition, hedge accounting will not be discontinued solely because of the replacement of the interest rate benchmark if the hedge meets other hedge accounting criteria.

These amendments apply from 1 January 2021 with early adoption permitted. HSBC has adopted the amendments from 1 January 2020 and has made the additional disclosures as required by the amendments, see pages 142 to 143.

### Critical accounting estimates and judgements

The results of HSBC reflect the choice of accounting policies, assumptions and estimates that underlie the preparation of HSBC's consolidated financial statements. The significant accounting policies, including the policies which include critical accounting estimates and judgements, are described in Note 1.2 on the financial statements. The accounting policies listed below are highlighted as they involve a high degree of uncertainty and have a material impact on the financial statements:

- Impairment of amortised cost financial assets and financial assets measured at fair value through other comprehensive income ('FVOCI'): The most significant judgements relate to defining what is considered to be a significant increase in credit risk, determining the lifetime and point of initial recognition of revolving facilities, and making assumptions and estimates to incorporate relevant information about past events, current conditions and forecasts of economic conditions. A high degree of uncertainty is involved in making estimations using assumptions that are highly subjective and very sensitive to the risk factors. See Note 1.2(i) on page 329.
- Deferred tax assets: The most significant judgements relate to judgements made in respect of expected future profitability. See Note 1.2(l) on page 334.
- Valuation of financial instruments: In determining the fair value of financial instruments a variety of valuation techniques are used, some of which feature significant unobservable inputs and are subject to substantial uncertainty. See Note 1.2(c) on page 327.
- Impairment of interests in associates: Impairment testing involves significant judgement in determining the value in use, and in particular estimating the present values of cash flows expected to arise from continuing to hold the investment, based on a number of management assumptions. The most significant judgements relate to the impairment testing of our investment in Bank of Communications Co., Limited ('BoCom'). See Note 1.2(a) on page 326.

## Financial summary

- Impairment of goodwill and non-financial assets: A high degree of uncertainty is involved in estimating the future cash flows of the cash-generating units ('CGUs') and the rates used to discount these cash flows. See Note 1.2(a) on page 326.
- Provisions: Significant judgement may be required due to the high degree of uncertainty associated with determining whether a present obligation exists, and estimating the probability and amount of any outflows that may arise. See Note 1.2(m) on page 334.
- Post-employment benefit plans: The calculation of the defined benefit pension obligation involves the determination of key

assumptions including discount rate, inflation rate, pension payments and deferred pensions, pay and mortality. See Note 1.2(k) on page 333.

Given the inherent uncertainties and the high level of subjectivity involved in the recognition or measurement of the items above, it is possible that the outcomes in the next financial year could differ from the expectations on which management's estimates are based, resulting in the recognition and measurement of materially different amounts from those estimated by management in these financial statements.

## Consolidated income statement

### Summary consolidated income statement

	Footnotes	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
Net interest income		27,578	30,462	30,489	28,176	29,813
Net fee income		11,874	12,023	12,620	12,811	12,777
Net income from financial instruments held for trading or managed on a fair value basis		9,582	10,231	9,531	8,426	7,521
Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss		2,081	3,478	(1,488)	2,836	1,262
Change in fair value of designated debt and related derivatives	1	231	90	(97)	155	(1,997)
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss		455	812	695	N/A	N/A
Gains less losses from financial investments		653	335	218	1,150	1,385
Net insurance premium income		10,093	10,636	10,659	9,779	9,951
Other operating income/(expense)		527	2,957	960	443	(876)
<b>Total operating income</b>		<b>63,074</b>	<b>71,024</b>	<b>63,587</b>	<b>63,776</b>	<b>59,836</b>
Net insurance claims and benefits paid and movement in liabilities to policyholders		(12,645)	(14,926)	(9,807)	(12,331)	(11,870)
<b>Net operating income before change in expected credit losses and other credit impairment charges/Loan impairment charges and other credit risk provisions</b>	2	<b>50,429</b>	<b>56,098</b>	<b>53,780</b>	<b>51,445</b>	<b>47,966</b>
Change in expected credit losses and other credit impairment charges		(8,817)	(2,756)	(1,767)	N/A	N/A
Loan impairment charges and other credit risk provisions		N/A	N/A	N/A	(1,769)	(3,400)
<b>Net operating income</b>		<b>41,612</b>	<b>53,342</b>	<b>52,013</b>	<b>49,676</b>	<b>44,566</b>
Total operating expenses excluding impairment of goodwill and other intangible assets		(33,044)	(34,955)	(34,622)	(34,849)	(36,416)
Impairment of goodwill and other intangible assets		(1,388)	(7,394)	(37)	(35)	(3,392)
<b>Operating profit</b>		<b>7,180</b>	<b>10,993</b>	<b>17,354</b>	<b>14,792</b>	<b>4,758</b>
Share of profit in associates and joint ventures		1,597	2,354	2,536	2,375	2,354
<b>Profit before tax</b>		<b>8,777</b>	<b>13,347</b>	<b>19,890</b>	<b>17,167</b>	<b>7,112</b>
Tax expense		(2,678)	(4,639)	(4,865)	(5,288)	(3,666)
<b>Profit for the year</b>		<b>6,099</b>	<b>8,708</b>	<b>15,025</b>	<b>11,879</b>	<b>3,446</b>
Attributable to:						
– ordinary shareholders of the parent company		3,898	5,969	12,608	9,683	1,299
– preference shareholders of the parent company		90	90	90	90	90
– other equity holders		1,241	1,324	1,029	1,025	1,090
– non-controlling interests		870	1,325	1,298	1,081	967
<b>Profit for the year</b>		<b>6,099</b>	<b>8,708</b>	<b>15,025</b>	<b>11,879</b>	<b>3,446</b>

### Five-year financial information

	Footnotes	2020 \$	2019 \$	2018 \$	2017 \$	2016 \$
Basic earnings per share		0.19	0.30	0.63	0.48	0.07
Diluted earnings per share		0.19	0.30	0.63	0.48	0.07
Dividends per ordinary share	3	—	0.51	0.51	0.51	0.51
		%	%	%	%	%
Dividend payout ratio	4	—	172.2	81.0	106.3	728.6
Post-tax return on average total assets		0.2	0.3	0.6	0.5	0.1
Return on average ordinary shareholders' equity		2.3	3.6	7.7	5.9	0.8
Return on average tangible equity		3.1	8.4	8.6	6.8	2.6
Effective tax rate		30.5	34.8	24.5	30.8	51.5

1 The debt instruments, issued for funding purposes, are designated under the fair value option to reduce an accounting mismatch.

2 Net operating income before change in expected credit losses and other credit impairment charges/Loan impairment charges and other credit risk provisions, also referred to as revenue.

3 Dividends recorded in the financial statements are dividends per ordinary share declared and paid in the period and are not dividends in respect of, or for, that period.

4 Dividends per ordinary share expressed as a percentage of basic earnings per share.

Unless stated otherwise, all tables in the Annual Report and Accounts 2020 are presented on a reported basis.

For a summary of our financial performance in 2020, see page 27.

For further financial performance data for each global business and geographical region, see pages 99 to 102 and 108 to 118 respectively. The global business segmental results are presented on an adjusted basis in accordance with IFRS 8 'Operating Segments', in Note 10: Segmental analysis on page 347.

## Income statement commentary

The following commentary compares Group financial performance for the year ended 2020 with 2019.

For commentary on the performance of our global businesses for the year ended 31 December 2020, see pages 30 to 36. For commentary on the performance of our global businesses for the year ended 31 December 2019, see pages 102 to 103.

### Net interest income

	Footnotes	Year ended			Quarter ended		
		31 Dec 2020 \$m	31 Dec 2019 \$m	31 Dec 2018 \$m	31 Dec 2020 \$m	30 Sep 2020 \$m	31 Dec 2019 \$m
Interest income		41,756	54,695	49,609	9,301	9,455	13,229
Interest expense		(14,178)	(24,233)	(19,120)	(2,682)	(3,005)	(5,575)
<b>Net interest income</b>		<b>27,578</b>	<b>30,462</b>	<b>30,489</b>	<b>6,619</b>	<b>6,450</b>	<b>7,654</b>
Average interest-earning assets		2,092,900	1,922,822	1,839,346	2,159,003	2,141,454	1,945,596
		%	%	%	%	%	%
Gross interest yield	1	2.00	2.84	2.70	1.71	1.76	2.70
Less: gross interest payable	1	(0.81)	(1.48)	(1.21)	(0.60)	(0.68)	(1.34)
Net interest spread	2	1.19	1.36	1.49	1.11	1.08	1.36
Net interest margin	3	1.32	1.58	1.66	1.22	1.20	1.56

1 Gross interest yield is the average annualised interest rate earned on average interest-earning assets ('AIEA'). Gross interest payable is the average annualised interest cost as a percentage on average interest-bearing liabilities.

2 Net interest spread is the difference between the average annualised interest rate earned on AIEA, net of amortised premiums and loan fees, and the average annualised interest rate payable on average interest-bearing funds.

3 Net interest margin is net interest income expressed as an annualised percentage of AIEA.

### Summary of interest income by type of asset

	2020			2019			2018		
	Average balance \$m	Interest income \$m	Yield %	Average balance \$m	Interest income \$m	Yield %	Average balance \$m	Interest income \$m	Yield %
Short-term funds and loans and advances to banks	298,255	1,264	0.42	212,920	2,411	1.13	233,637	2,475	1.06
Loans and advances to customers	1,046,795	29,391	2.81	1,021,554	35,578	3.48	972,963	33,285	3.42
Reverse repurchase agreements – non-trading	221,901	1,819	0.82	224,942	4,690	2.08	205,427	3,739	1.82
Financial investments	463,542	8,143	1.76	417,939	10,705	2.56	386,230	9,166	2.37
Other interest-earning assets	62,407	1,139	1.83	45,467	1,311	2.88	41,089	944	2.30
<b>Total interest-earning assets</b>	<b>2,092,900</b>	<b>41,756</b>	<b>2.00</b>	<b>1,922,822</b>	<b>54,695</b>	<b>2.84</b>	<b>1,839,346</b>	<b>49,609</b>	<b>2.70</b>

### Summary of interest expense by type of liability

	Footnotes	2020			2019			2018		
		Average balance \$m	Interest expense \$m	Cost %	Average balance \$m	Interest expense \$m	Cost %	Average balance \$m	Interest expense \$m	Cost %
Deposits by banks	1	65,536	330	0.50	52,515	702	1.34	44,530	506	1.14
Customer accounts	2	1,254,249	6,478	0.52	1,149,483	11,238	0.98	1,138,620	8,287	0.73
Repurchase agreements – non-trading		125,376	963	0.77	160,850	4,023	2.50	161,204	3,409	2.11
Debt securities in issue – non-trading		219,610	4,944	2.25	211,229	6,522	3.09	183,434	5,675	3.09
Other interest-bearing liabilities		76,395	1,463	1.92	59,980	1,748	2.91	53,731	1,243	2.31
<b>Total interest-bearing liabilities</b>		<b>1,741,166</b>	<b>14,178</b>	<b>0.81</b>	<b>1,634,057</b>	<b>24,233</b>	<b>1.48</b>	<b>1,581,519</b>	<b>19,120</b>	<b>1.21</b>

1 Including interest-bearing bank deposits only.

2 Including interest-bearing customer accounts only.

**Net interest income ('NII')** for 2020 was \$27.6bn, a decrease of \$2.9bn or 9.5% compared with 2019. This reflected lower average market interest rates across the major currencies compared with 2019. This was partly offset by interest income associated with the increase in average interest-earning assets ('AIEA') of \$170.1bn or 8.8%.

Excluding the favourable impact of significant items and the adverse effects of foreign currency translation differences, net interest income decreased by \$2.7bn or 9%.

NII for the fourth quarter of 2020 was \$6.6bn, down 13.5% year-on-year, and up 2.6% compared with the previous quarter. The year-on-year decrease was driven by the impact of lower market interest rates predominantly in Asia and North America. This was partly offset by higher NII from growth in AIEA, notably short-term funds and financial investments and predominantly in Asia and Europe. The increase compared with the previous quarter was mainly driven by lower rates on customer deposits and issued debt securities, which were partly offset by lower rates on AIEA.

**Net interest margin ('NIM')** for 2020 of 1.32% was 26 basis points ('bps') lower compared with 2019 as the reduction in the yield on AIEA of 84bps was partly offset by the fall in funding costs of average interest-bearing liabilities of 67bps. The decrease in NIM in 2020 included the favourable impacts of significant items and the adverse effects of foreign currency translation differences. Excluding this, NIM fell by 25bps.

NIM for the fourth quarter of 2020 was 1.22%, down 34bps year-on-year, and up 2bps compared with the previous quarter. The year-on-year decrease was mainly driven by Asia and caused by the impact of lower market interest rates. The increase compared with the previous quarter was driven by a reduction in funding costs of average interest-bearing liabilities of 8bps, which was partly offset by a reduction in the yield on AIEA of 5bps.

**Interest income** for 2020 of \$41.8bn decreased by \$12.9bn or 24%, primarily due to the lower average interest rates compared with 2019 as the yield on AIEA fell by 84bps. This was partly offset by income from balance sheet growth, predominantly in Asia and

## Financial summary

Europe. The balance sheet growth was driven by higher balances in short-term funds and loans and advances to banks and financial investments, which increased by \$85.3bn and \$45.6bn, respectively. The decrease in interest income included \$0.2bn in relation to the favourable impact of significant items and \$0.8bn from the adverse effects of foreign currency translation differences. Excluding these, interest income decreased by \$12.3bn.

Interest income of \$9.3bn in the fourth quarter of 2020 was down \$3.9bn year-on-year, and down \$0.2bn compared with the previous quarter. The year-on-year decrease was predominantly driven by the impact of lower market interest rates, predominantly in Asia and in North America, although partly offset by growth in AIEA, notably short-term funds and loans and advances to banks and financial investments. The small decrease compared with the previous quarter was mainly driven by reduced rates on financial investments and loans and advances to customers.

**Interest expense** for 2020 of \$14.2bn decreased by \$10.1bn or 41% compared with 2019. This reflected the decrease in funding costs of 67bps, mainly arising from lower interest rates paid on interest-bearing liabilities. This was partly offset by higher interest expense from growth in interest-bearing customer accounts, which increased by \$104.8bn. The decrease in interest expense included the favourable effects of foreign currency translation differences of \$0.5bn. Excluding this, interest expense decreased by \$9.6bn.

Interest expense of \$2.7bn in the fourth quarter of 2020 was down \$2.9bn year-on-year, and down \$0.3bn compared with the previous quarter. The year-on-year decrease was predominantly driven by the impact of lower market interest rates, partly offset by growth in interest-bearing customer accounts, which increased by \$142.9bn. The small decrease compared with the previous quarter was mainly due to reduced funding costs on customer deposits and debt issuances.

### 2019 compared with 2018

**Net interest income ('NII')** of \$30.5bn was broadly unchanged compared with 2018. Interest income associated with the increase in average interest-earning assets ('AIEA') of 5% was offset by higher funding costs, reflecting higher average interest rates compared with 2018.

Excluding the adverse effects of significant items and foreign currency translation differences between 2019 and 2018, NII increased by \$1.0bn.

**Net interest margin ('NIM')** of 1.58% was 8 basis points ('bps') lower than in 2018 as the higher yield on AIEA of 14bps was offset by the rise in funding costs of average interest-bearing liabilities of 27 basis points ('bps').

The decrease in NIM in 2019 included the adverse effects of foreign currency translation differences between 2019 and 2018 and significant items. Excluding these, NIM fell by 6bps.

**Interest income** increased by \$5.1bn or 10% compared with 2018, benefiting from growth in AIEA of 5% and higher average interest rates compared with 2018, with the yield on AIEA increasing by 14bps.

Interest income on loans and advances to customers increased by \$2.3bn. This was mainly driven by higher average interest rates compared with 2019, with yields increasing by 6bps and 5% volume growth in AIEA, notably in term lending in Asia, and growth in mortgages in Asia and Europe.

Interest income on short-term funds and financial investments increased by \$1.5bn, reflecting higher average interest rates compared with 2018.

The increase in interest income included \$1.6bn in relation to the adverse effects of significant items and foreign currency translation between 2019 and 2018. Excluding these, interest income increased by \$6.7bn.

**Interest expense** increased by \$5.1bn or 27% compared with 2018. This reflects growth in average interest-bearing liabilities of

3% and an increase in funding cost of 27bps, predominantly in customer accounts.

Interest expense on interest-bearing customer accounts was \$3.0bn higher, mainly in Asia, reflecting higher average interest rates compared with 2018 together with an increase in customer accounts, primarily towards term deposits.

Interest expense on debt securities in issue was \$0.8bn higher. This was mainly as a result of debt issuances by HSBC Holdings to meet regulatory requirements, which contributed \$0.5bn towards the increase.

The increase in interest expense included the favourable effects of significant items and foreign currency translation differences between 2019 and 2018 of \$0.6bn. Excluding these impacts, interest expense was \$5.7bn higher.

**Net fee income** of \$11.9bn was \$0.1bn lower, reflecting reductions in WPB and CMB, partly offset by an increase in GBM.

In WPB, lower fee income reflected a reduction in account services, notably in the UK, due to lower customer activity. Income from credit cards also reduced, as customer spending activity fell across most markets, mainly in Hong Kong, the UK, MENA and the US. Fee income on unit trusts fell, mainly in Hong Kong. These decreases were partly offset by higher income from broking, primarily in Hong Kong, as volatility in the equity markets resulted in increased customer activity. Fee expenses fell as a result of reduced customer activity levels, mainly in cards.

In CMB, trade-related fee income fell, reflecting the reduction in global trade activity, notably in Hong Kong and the UK. Income also fell in remittances due to lower client activity.

In GBM, net fee income was higher, mainly from growth in underwriting fees in the US and the UK. Global custody and broking fees also rose as client activity and turnover of securities increased due to market volatility. These increases were partly offset by a reduction in fee income from credit facilities, notably in the UK, Hong Kong and the US.

**Net income from financial instruments held for trading or managed on a fair value basis** of \$9.6bn was \$0.6bn lower and included a loss of \$0.3bn from asset disposals relating to our restructuring programme. This was partly offset by favourable fair value movements on non-qualifying hedges of \$0.1bn and favourable debit value adjustments of \$0.1bn.

The remaining reduction was primarily due to lower trading interest income, reflecting lower market rates. However, other trading income increased in GBM as elevated market volatility and wider spreads supported a strong performance in FICC.

**Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss** was a net income of \$2.1bn, compared with a net income of \$3.5bn in 2019. This decrease primarily reflected less favourable equity market performance, compared with 2019 in France and Hong Kong, due to the impact of the Covid-19 outbreak on the equity and unit trust assets supporting insurance and investment contracts. After large losses in the first quarter of 2020, there was a partial recovery in the remainder of the year, resulting in higher revenue in these subsequent quarters during 2020 compared with the equivalent quarters in 2019.

This adverse movement resulted in a corresponding movement in liabilities to policyholders and the present value of in-force long-term insurance business ('PVIF') (see 'Other operating income' below). This reflected the extent to which the policyholders and shareholders respectively participate in the investment performance of the associated assets.

**Change in fair value of designated debt and related derivatives** of \$0.2bn was \$0.1bn favourable compared with 2019. The movements were driven by the fall in interest rates between the periods, notably in US dollars and pounds sterling. The majority of our financial liabilities designated at fair value are fixed-rate, long-term debt issuances and are managed in conjunction with interest rate swaps as part of our interest rate management strategy. These liabilities are discussed further on page 85.



**Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss** of \$0.5bn was \$0.4bn lower compared with 2019. This primarily reflected adverse movements in equity markets due to the impact of the Covid-19 outbreak.

**Gains less losses from financial investments** of \$0.7bn increased by \$0.3bn, reflecting higher gains from the disposal of debt securities in Markets Treasury.

**Net insurance premium income** of \$10.1bn was \$0.5bn lower than in 2019, reflecting lower new business volumes, particularly in France and Hong Kong, partly offset by lower reinsurance arrangements in Hong Kong.

**Other operating income** of \$0.5bn decreased by \$2.4bn compared with 2019, primarily due to lower favourable changes in PVIF compared with 2019 (down \$1.4bn) and also the non-recurrence of a \$0.8bn dilution gain in 2019 following the merger of The Saudi British Bank ('SABB') with Alawwal bank in Saudi Arabia.

The change in PVIF included a reduction of \$0.8bn due to assumption changes and experience variances, mainly in Hong Kong and France due to the effect of interest rate changes on the valuation of liabilities under insurance contracts. In addition, the value of new business written fell by \$0.4bn, primarily in Hong Kong, as sales volumes decreased.

The reduction also reflected the non-recurrence of 2019 gains recognised in Argentina and Mexico.

**Net insurance claims and benefits paid and movement in liabilities to policyholders** was \$2.3bn lower, primarily due to lower returns on financial assets supporting contracts where the policyholder is subject to part or all of the investment risk. New business volumes were also lower, particularly in Hong Kong and France, partly offset by lower reinsurance arrangements in Hong Kong.

**Changes in expected credit losses and other credit impairment charges ('ECL')** of \$8.8bn were \$6.1bn higher compared with 2019 with increases in all global businesses.

The ECL charge in 2020 reflected a significant increase in stage 1 and stage 2 allowances, notably in the first half of the year, to reflect the deterioration in the forward economic outlook globally as a result of the Covid-19 outbreak. The economic outlook stabilised in the second half of 2020 and as a result stage 1 and stage 2 allowances were broadly unchanged at 31 December 2020, compared with 30 June 2020. Stage 3 charges also increased compared with 2019, largely against wholesale exposures, including a significant charge related to a CMB client in Singapore in the first quarter of 2020.

Excluding currency translation differences, ECL as a percentage of average gross loans and advances to customers was 0.81%, compared with 0.25% in 2019.

The estimated impact of the Covid-19 outbreak was incorporated in the ECL through additional scenario analysis, which considered differing severity and duration assumptions relating to the global pandemic. These included probability-weighted shocks to annual GDP and consequential impacts on unemployment and other economic variables, with differing economic recovery assumptions. Given the severity of the macroeconomic projections, and the complexities of the government measures, which have never been modelled, additional judgemental adjustments have been made to our provisions.

While we expect the full year ECL charge for 2021 to be materially lower than in 2020, the outlook is highly uncertain and remains dependent on the future path of the Covid-19 outbreak, including the successful deployment of mass vaccination programmes, and the credit quality of our loan portfolio as government support packages are gradually withdrawn.

For further details on the calculation of ECL, including the measurement uncertainties and significant judgements applied to such calculations, the impact of alternative/additional scenarios and management judgemental adjustments, see pages 169 to 177.

**Net fee income** of \$12.0bn was \$0.6bn lower compared with 2018, including adverse foreign currency translation differences

between 2019 and 2018 of \$0.3bn. The remaining reduction primarily reflected lower net fee income in WPB and GBM.

In WPB, the reduction reflected lower fees from broking and unit trusts in Hong Kong due to lower volumes as investor confidence was weaker compared with a strong 2018. In addition, funds under management fees also reduced, reflecting a change in mix of clients' investments to lower risk and lower margin products.

In GBM, net fee income was lower, mainly in the UK and the US. This was primarily due to lower corporate finance fees, which reflected reduced client activity. This was partly offset by higher underwriting fees, notably in Asia, France and the US, from higher volumes.

**Net income from financial instruments held for trading or managed on a fair value basis** increased by \$0.7bn and included a favourable fair value movement on non-qualifying hedges of \$0.3bn, offset by adverse movements in foreign currency translation differences of \$0.5bn between 2019 and 2018.

The increase was mainly in Asia, notably in Hong Kong, reflecting favourable market conditions and increased client activity in our Rates, Credit and Equities businesses, and from gains in Markets Treasury on funding swaps due to favourable movements on yield curves. In Latin America, income in Markets Treasury increased, primarily from gains on debt securities in Argentina and a favourable impact of hyperinflation, as well as increased client activity in GBM in Mexico. Income increased in the US from increased client activity on US Treasuries and emerging markets interest rate swaps, partly offset by lower revenue from precious metals trading.

In the UK, income fell as subdued market conditions resulted in lower Global Markets revenue, notably in Rates, Credit and Equities.

**Net income from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss** was \$3.5bn, compared with a net expense of \$1.5bn in 2018. This increase primarily reflected more favourable equity market performance in Hong Kong and France, resulting in revaluation gains on the equity and unit trust assets supporting insurance and investment contracts.

This positive movement resulted in a corresponding movement in liabilities to policyholders and the present value of in-force long-term insurance business (see 'Other operating income' below), reflecting the extent to which the policyholders and shareholders respectively participate in the investment performance of the associated assets.

**Change in fair value of designated debt and related derivatives** were \$0.1bn favourable in 2019, compared with adverse movements of \$0.1bn in 2018. These movements were driven by changes in interest rates between the periods, notably in US dollars and pounds sterling.

The majority of our financial liabilities designated at fair value are fixed-rate, long-term debt issuances, and are managed in conjunction with interest rate swaps as part of our interest rate management strategy.

**Gains less losses from financial investments** of \$0.3bn increased by \$0.1bn compared with 2018, reflecting higher gains from the disposal of debt securities.

**Net insurance premium income** was broadly unchanged compared with 2018, and included adverse effects of foreign currency translation differences between 2019 and 2018. Excluding these, the increase of \$0.2bn reflected higher new business volumes, particularly in Hong Kong, Singapore and UK, partly offset by higher reinsurance ceded in Hong Kong.

**Other operating income** of \$2.9bn in 2019 increased by \$2.0bn compared with 2018. This was primarily due to a higher favourable change in the present value of in-force long-term insurance business ('PVIF') in 2019 (up \$1.1bn), and a \$0.8bn

## Financial summary

dilution gain in 2019 following the merger of SABB with Alawwal bank in Saudi Arabia.

This increase in PVIF reflected a favourable movement in 'assumption changes and experience variances' of \$1.1bn. This was primarily in Hong Kong due to the effect of interest rate changes on the valuation of the liabilities under insurance contracts, which has a corresponding increase in 'net insurance claims and benefits paid and movement in liabilities to policyholders'. For further details, see Note 21 on the financial statements of the *HSBC Holdings plc 20-F for the year ended 31 December 2019*.

In 2019, we recognised a gain in Argentina following the sale of a stake in the payment processing company Prisma Medios de Pago S.A., and a gain in Mexico associated with the launch of a merchant acquiring services joint venture with Global Payments Inc. By contrast, 2018 included a loss of \$0.1bn on the early redemption of subordinated debt linked to the US run-off portfolio.

**Net insurance claims and benefits paid and movement in liabilities to policyholders** were \$5.1bn higher, primarily due to higher returns on financial assets supporting contracts where the policyholder is subject to part or all of the investment risk, and the impact of higher new business volumes, particularly in Hong Kong and Singapore. These were partly offset by the impact of higher reinsurance ceded in Hong Kong.

**Changes in expected credit losses and other credit impairment charges ('ECL')** of \$2.8bn were \$1.0bn higher compared with 2018. This was mainly driven by higher charges in CMB, WPB and GBM. ECL in 2019 included a charge to reflect the economic outlook in Hong Kong, as well as a partial release of allowances related to UK economic uncertainty. See page 131 of the *HSBC Holdings plc 20-F for the year ended 31 December 2019* for more information on the impact of alternative/additional scenarios. The effects of foreign currency translation differences between 2019 and 2018 were minimal.

- In CMB, ECL charges of \$1.2bn were \$0.5bn higher reflecting increases in Europe and Hong Kong, while 2018 benefited from net releases related to UK economic uncertainty. The movements were partly offset by a reduction in ECL charges in MENA.
- In WPB, ECL charges of \$1.4bn were \$0.3bn higher, driven by increased ECL related to unsecured lending, notably in the US, Mexico, and Hong Kong. In addition, ECL in 2019 included charges in Argentina related to government bond exposures in our insurance business.
- In GBM, net ECL charges of \$0.2bn compared with a net release of \$31m in 2018. Releases in 2018 more than offset ECL charges and primarily related to a small number of clients within the oil and gas sector in the US.
- In Corporate Centre, we recorded lower net releases of ECL related to our legacy portfolios in the UK, compared with 2018.

On a constant currency basis, ECL as a percentage of average gross loans and advances to customers was 0.27% in 2019, compared with 0.17% in 2018.

**Operating expenses** of \$42.3bn were \$7.7bn or 22% higher than in 2018 and included favourable foreign currency translation differences of \$1.1bn between 2019 and 2018, which were more than offset by net adverse movements in significant items of \$7.9bn.

Significant items included:

- a \$7.3bn impairment of goodwill, which included \$4.0bn related to our global GBM business, resulting from an update in long-term assumptions and the planned reshaping of the business, and \$2.5bn in our CMB business in Europe. For further details, see Note 21 on the financial statements of the *HSBC Holdings plc 20-F for the year ended 31 December 2019*;

- customer redress programme costs of \$1.3bn in 2019, \$1.2bn of which related to the mis-selling of payment protection insurance ('PPI') mainly driven by a higher than expected increase in the volume of complaints prior to the deadline in August 2019. This compared with \$0.1bn in 2018. For further details, see Note 10 on the financial statements of the *HSBC Holdings plc 20-F for the year ended 31 December 2019*; and
- restructuring and other related costs of \$0.8bn in 2019, which included \$753m of severance costs arising from cost efficiency measures across our global businesses and functions. We expect annualised cost savings from these measures to be approximately equal to 2019 severance costs.

These were partly offset by:

- the non-recurrence of settlements and provisions in connection with legal and regulatory matters of \$0.8bn in 2018;
- lower costs of structural reform of \$0.2bn, which included costs associated with the UK's withdrawal from the European Union; and
- the non-recurrence of a provision in relation to past service costs of guaranteed minimum pension obligations in 2018 of \$0.2bn.

The remaining increase primarily reflected investments to grow the business (up \$0.4bn), notably in WPB and CMB, as well as continued investment in digital capabilities across all of our global businesses.

Volume-related growth increased operating expenses by \$0.2bn, and the UK bank levy of \$988m was \$24m higher than in 2018.

The impact of our cost-saving efficiencies broadly offset inflation.

The number of employees expressed in full-time equivalent staff ('FTEs') at 31 December 2019 was 235,351, an increase of 134 from 31 December 2018. This largely reflected an increase in FTEs associated with our investment initiatives, which was broadly offset by reductions following our restructuring programmes. The number of contractors at 31 December 2019 was 7,411, a decrease of 3,443 from 31 December 2018.

**Share of profit in associates and joint ventures** was \$2.4bn, a decrease of \$0.2bn or 7% compared with 2018, and included the adverse effects of foreign currency translation differences of \$90m between 2019 and 2018.

The remaining decrease reflected lower income from SABB due to higher ECL charges and other expenses relating to the merger with Alawwal bank, partly offset by higher income from BoCom.

At 31 December 2019, we performed an impairment review of our investment in BoCom and concluded that it was not impaired, based on our value-in-use ('VIU') calculation. For more information on the key assumptions in our VIU calculation, including the sensitivity of the VIU to each key assumption, see Note 18 on the financial statements of the *HSBC Holdings plc 20-F for the year ended 31 December 2019*.

**Tax expense** of \$4.6bn was \$0.2bn lower than in 2018.

The effective tax rate for 2019 of 34.8% was higher than the 24.5% for 2018 due to the impairment of goodwill in 2019, which is not deductible for tax purposes.

This impairment charge increased the 2019 effective tax rate by 12.3%.

Further details are provided in Note 7 on the financial statements of the *HSBC Holdings plc 20-F for the year ended 31 December 2019*.

## Operating expenses – currency translation and significant items

	2020	2019
	\$m	\$m
Significant items	2,973	9,607
– costs of structural reform <sup>1</sup>	–	158
– customer redress programmes	(54)	1,281
– impairment of goodwill and other intangibles	1,090	7,349
– past service costs of guaranteed minimum pension benefits equalisation	17	–
– restructuring and other related costs <sup>2</sup>	1,908	827
– settlements and provisions in connection with legal and regulatory matters	12	(61)
– currency translation on significant items	–	53
Currency translation	–	223
<b>Year ended 31 Dec</b>	<b>2,973</b>	<b>9,830</b>

1 Comprises costs associated with preparations for the UK's exit from the European Union.

2 Includes impairment of software intangible assets of \$189m (of the total software intangible asset impairment of \$1,347m) and impairment of tangible assets of \$197m.

## Staff numbers (full-time equivalents)

	2020	2019 <sup>1</sup>	2018 <sup>1</sup>
<b>Global businesses</b>			
Wealth and Personal Banking	135,727	141,341	140,666
Commercial Banking	43,221	44,706	45,046
Global Banking and Markets	46,729	48,859	48,970
Corporate Centre	382	445	535
<b>At 31 Dec</b>	<b>226,059</b>	<b>235,351</b>	<b>235,217</b>

1 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

**Operating expenses** of \$34.4bn were \$7.9bn lower than in 2019, primarily reflecting the net favourable movements in significant items of \$6.6bn, which included:

- the non-recurrence of a \$7.3bn impairment of goodwill in 2019, primarily related to lower long-term economic growth assumptions in GBM and CMB, and the planned reshaping of GBM. This compared with a \$1.1bn impairment of goodwill and other intangibles in 2020, primarily capitalised software related to the businesses within HSBC Bank plc, and to a lesser extent our businesses in the US. These impairments reflected underperformance and a deterioration in the future forecasts of these businesses, and in the case of HSBC Bank plc substantially relating to prior periods; and
- customer redress programme costs, which were a net release of \$0.1bn in 2020, compared with charges of \$1.3bn in 2019.

This was partly offset by:

- restructuring and other related costs of \$1.9bn in 2020, of which \$0.9bn related to severance, \$0.2bn related to an impairment of software intangibles and \$0.2bn related to the impairment of tangible assets in France and the US. This compared with restructuring and other related costs of \$0.8bn in 2019.

The reduction also included favourable currency translation differences of \$0.2bn.

The remaining reduction of \$1.1bn reflected a \$0.5bn decrease in performance-related pay and lower discretionary expenditure, including marketing (down \$0.3bn) and travel costs (down \$0.3bn). In addition, our cost-saving initiatives resulted in a reduction of \$1.4bn, of which \$1.0bn related to our costs to achieve programme, and the UK bank levy was \$0.2bn lower than in 2019. These decreases were partly offset by an increase in investments in technology to enhance our digital and automation capabilities to improve how we serve our customers, as well as inflation and volume-related increases. In addition, the 2020 period included impairments of certain real estate assets.

During 2020, we reduced the number of employees expressed in full-time equivalent staff ('FTE') and contractors by 11,011. This included a 9,292 reduction in FTE to 226,059 at 31 December 2020, while the number of contractors reduced by 1,719 to 5,692 at 31 December 2020.

**Share of profit in associates and joint ventures** of \$1.6bn was \$0.8bn or 32% lower than in 2019, primarily reflecting our share of an impairment of goodwill by SABB of \$0.5bn. This

goodwill was recognised by SABB on the completion of its merger with Alawwal bank in 2019. The remaining reduction reflected a lower share of profit recognised from our associates in Asia and MENA due to the impact of the Covid-19 outbreak and the lower interest-rate environment.

At 31 December 2020, we performed an impairment review of our investment in BoCom and concluded that it was not impaired, based on our value-in-use ('VIU') calculations. However, the excess of the VIU of BoCom and its carrying value has reduced over the period, increasing the risk of impairment in the future. For more information, see Note 18: Interests in associates and joint ventures on page 367.

### Tax expense

The effective tax rate for 2020 of 30.5% was lower than the 34.8% effective tax rate for 2019. An impairment of goodwill and non-deductible customer redress charges increased the 2019 effective tax rate. These were not repeated in 2020. Additionally, the non-taxable dilution gain arising on the merger of SABB with Alawwal bank decreased the effective tax rate in 2019. Higher charges in respect of the non-recognition of deferred tax assets, particularly in the UK (\$0.4bn) and France (\$0.4bn), increased the 2020 effective tax rate.

## Financial summary

### Consolidated balance sheet

#### Five-year summary consolidated balance sheet

Footnotes	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
<b>Assets</b>					
Cash and balances at central banks	304,481	154,099	162,843	180,624	128,009
Trading assets	231,990	254,271	238,130	287,995	235,125
Financial assets designated and otherwise mandatorily measured at fair value through profit or loss	45,553	43,627	41,111	N/A	N/A
Financial assets designated at fair value	N/A	N/A	N/A	29,464	24,756
Derivatives	307,726	242,995	207,825	219,818	290,872
Loans and advances to banks	81,616	69,203	72,167	90,393	88,126
Loans and advances to customers	1,037,987	1,036,743	981,696	962,964	861,504
Reverse repurchase agreements – non-trading	230,628	240,862	242,804	201,553	160,974
Financial investments	490,693	443,312	407,433	389,076	436,797
Other assets	253,490	230,040	204,115	159,884	148,823
<b>Total assets at 31 Dec</b>	<b>2,984,164</b>	<b>2,715,152</b>	<b>2,558,124</b>	<b>2,521,771</b>	<b>2,374,986</b>
<b>Liabilities and equity</b>					
<b>Liabilities</b>					
Deposits by banks	82,080	59,022	56,331	69,922	59,939
Customer accounts	1,642,780	1,439,115	1,362,643	1,364,462	1,272,386
Repurchase agreements – non-trading	111,901	140,344	165,884	130,002	88,958
Trading liabilities	75,266	83,170	84,431	184,361	153,691
Financial liabilities designated at fair value	157,439	164,466	148,505	94,429	86,832
Derivatives	303,001	239,497	205,835	216,821	279,819
Debt securities in issue	95,492	104,555	85,342	64,546	65,915
Liabilities under insurance contracts	107,191	97,439	87,330	85,667	75,273
Other liabilities	204,019	194,876	167,574	113,690	109,595
<b>Total liabilities at 31 Dec</b>	<b>2,779,169</b>	<b>2,522,484</b>	<b>2,363,875</b>	<b>2,323,900</b>	<b>2,192,408</b>
<b>Equity</b>					
Total shareholders' equity	196,443	183,955	186,253	190,250	175,386
Non-controlling interests	8,552	8,713	7,996	7,621	7,192
<b>Total equity at 31 Dec</b>	<b>204,995</b>	<b>192,668</b>	<b>194,249</b>	<b>197,871</b>	<b>182,578</b>
<b>Total liabilities and equity at 31 Dec</b>	<b>2,984,164</b>	<b>2,715,152</b>	<b>2,558,124</b>	<b>2,521,771</b>	<b>2,374,986</b>

1 Net of impairment allowances.

A more detailed consolidated balance sheet is contained in the financial statements on page 316.

#### Five-year selected financial information

Footnotes	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
Called up share capital	10,347	10,319	10,180	10,160	10,096
Capital resources	184,423	172,150	173,238	182,383	172,358
Undated subordinated loan capital	1,970	1,968	1,969	1,969	1,967
Preferred securities and dated subordinated loan capital	30,721	33,063	35,014	42,147	42,600
Risk-weighted assets	857,520	843,395	865,318	871,337	857,181
Total shareholders' equity	196,443	183,955	186,253	190,250	175,386
Less: preference shares and other equity instruments	(22,414)	(22,276)	(23,772)	(23,655)	(18,515)
<b>Total ordinary shareholders' equity</b>	<b>174,029</b>	<b>161,679</b>	<b>162,481</b>	<b>166,595</b>	<b>156,871</b>
Less: goodwill and intangible assets (net of tax)	(17,606)	(17,535)	(22,425)	(21,680)	(19,649)
<b>Tangible ordinary shareholders' equity</b>	<b>156,423</b>	<b>144,144</b>	<b>140,056</b>	<b>144,915</b>	<b>137,222</b>
<b>Financial statistics</b>					
Loans and advances to customers as a percentage of customer accounts	63.2%	72.0%	72.0%	70.6%	67.7%
Average total shareholders' equity to average total assets	6.46%	6.97%	7.16%	7.33%	7.37%
Net asset value per ordinary share at year-end (\$)	8.62	8.00	8.13	8.35	7.91
Tangible net asset value per ordinary share at year-end (\$)	7.75	7.13	7.01	7.26	6.92
Tangible net asset value per fully diluted share at year-end (\$)	7.72	7.11	6.98	7.22	6.88
Number of \$0.50 ordinary shares in issue (millions)	20,694	20,639	20,361	20,321	20,192
Basic number of \$0.50 ordinary shares outstanding (millions)	20,184	20,206	19,981	19,960	19,838
Basic number of \$0.50 ordinary shares outstanding and dilutive potential ordinary shares (millions)	20,272	20,280	20,059	20,065	19,933
<b>Closing foreign exchange translation rates to \$:</b>					
\$1: £	0.732	0.756	0.783	0.740	0.811
\$1: €	0.816	0.890	0.873	0.834	0.949

1 Capital resources are regulatory capital, the calculation of which is set out on page 215.

2 Including perpetual preferred securities, details of which can be found in Note 28: Subordinated liabilities on page 380.

3 The definition of net asset value per ordinary share is total shareholders' equity, less non-cumulative preference shares and capital securities, divided by the number of ordinary shares in issue, excluding own shares held by the company, including those purchased and held in treasury.

## Balance sheet commentary compared with 31 December 2019

At 31 December 2020, our total assets were \$3.0tn, an increase of \$269bn or 10% on a reported basis and \$200bn or 7% on a constant currency basis.

The increase in total assets primarily reflected growth in cash balances, derivative assets and financial investments.

On a reported basis, our ratio of customer advances to customer accounts was 63.2%, compared with 72.0% at 31 December 2019, mainly due to growth in customer accounts.

### Assets

**Cash and balances at central banks** increased by \$150bn or 98%, mainly in the UK, France, Hong Kong and North America, as a result of deposit inflows and an increase in the commercial surplus.

**Trading assets** decreased by \$22bn or 9%, notably from a reduction in debt securities held, along with a reduction in bond positions previously used for hedging purposes.

**Derivative assets** increased by \$65bn or 27%, primarily in the UK, France and Hong Kong, reflecting favourable revaluation movements on interest rate contracts as interest rates fell in most major markets. There was also an increase in foreign exchange contracts linked to valuation movements attributable to market conditions. The growth in derivative assets was consistent with the increase in derivative liabilities, as the underlying risk is broadly matched.

**Loans and advances to customers** of \$1.0tn increased by \$1bn on a reported basis. This included favourable foreign currency translation differences of \$26bn. Excluding the effects of foreign currency translation differences, loans and advances to customers decreased by \$25bn or 2%.

The commentary below is on a constant currency basis.

In GBM, customer lending was down \$28bn or 11%, while in CMB customer lending was down \$11bn or 3%. Despite significant growth in these businesses in the first quarter of 2020 from customers drawing down on credit facilities, balances subsequently reduced as customers made repayments in part due to the uncertain economic outlook.

In GBM, lower lending was mainly from decreases in term lending in Asia, Europe and the US, and also from a decrease in overdrafts in Europe.

In CMB, the decrease in customer lending reflected a reduction in other lending and overdrafts in Asia and North America. In Europe, lending remained relatively flat as lower other lending and overdrafts were almost entirely offset by a rise in term lending.

In WPB, lending increased by \$14bn or 3%, notably from mortgage growth in the UK (up \$12bn) and in Hong Kong (up \$5bn). This was partly offset by a \$6bn reduction in credit card balances and overdrafts as customer activity fell as a result of government measures to contain the outbreak of Covid-19.

**Financial investments** increased by \$47bn or 11%, mainly as we redeployed our commercial surplus. We increased our holdings of debt securities and treasury bills and benefited from valuation gains resulting from interest rate reductions. The increases in financial investments were notably observed in Hong Kong, as we increased our holdings of government-issued bonds and bills. These increases were partly offset by lower holdings of debt securities in Canada.

**Other assets** increased by \$23bn due to a \$10bn increase in cash collateral balances, mainly in France and Hong Kong as underlying derivative balances grew. Additionally, there were increases in precious metals balances, mainly in the US as we grew our depository.

### Liabilities

**Customer accounts** of \$1.6tn increased by \$204bn or 14% on a reported basis and included the favourable effect of foreign currency translation differences of \$31bn. Excluding this, customer accounts increased by \$173bn or 12%.

The commentary below is on a constant currency basis.

Customer accounts increased in all our global businesses and regions. In CMB, balances grew by \$73bn, and in GBM, customer accounts increased by \$33bn. These increases included the impact of corporate clients consolidating their funds and depositing these into their customer accounts to maintain liquidity, notably in the UK, Hong Kong and the US.

In WPB, customer account balances increased by \$67bn, notably in the UK and Hong Kong, reflecting reduced customer spending resulting in larger balances held in current and savings accounts.

**Repurchase agreements – non-trading** decreased by \$28bn or 20%, primarily in the US, in line with our actions to manage our funding requirements across the Group.

**Derivative liabilities** increased by \$64bn or 27%, which is consistent with the increase in derivative assets, since the underlying risk is broadly matched.

### Equity

**Total shareholders' equity**, including non-controlling interests, increased by \$12bn or 6% compared with 31 December 2019, reflecting the effects of profits generated of \$6.1bn combined with other comprehensive income ('OCI') of \$8bn. OCI included fair value gains on debt instruments of \$2bn, favourable remeasurement of defined benefit pension obligations of \$1bn and foreign exchange differences of \$5bn. These increases were partly offset by \$2bn of coupon distributions on securities classified as equity and dividends paid by non-controlling interests.

### Risk-weighted assets

Risk-weighted assets ('RWAs') totalled \$857.5bn at 31 December 2020, a \$14.1bn increase since 2019. Excluding foreign currency translation differences, RWAs increased by \$1.0bn in 2020, and included the following movements:

- a \$9.7bn asset size decrease, largely driven by RWA reductions in CMB and GBM under our transformation programme. This was partly offset by lending growth and increases in counterparty credit risk RWAs due to mark-to-market movements;
- a \$24.5bn increase in RWAs due to changes in asset quality, mostly in CMB and GBM. This was largely due to credit migration in Asia, North America and Europe, partly offset by decreases due to portfolio mix changes; and
- a \$14.2bn fall in RWAs due to changes in methodology and policy, mostly in GBM and CMB. This included reductions under management initiatives involving risk parameter refinements, improved collateral linkage, and data enhancement, and changes under the CRR 'Quick Fix' relief package. These reductions were partly offset by changes in approach to credit risk exposures.

From a global business perspective, primarily in GBM and CMB, increases from credit migration, lending growth, and market risk volatility were mitigated by reductions of \$51.5bn as a result of our transformation programme.

## Financial summary

### Customer accounts by country/territory

	2020 \$m	2019 \$m
<b>Europe</b>	<b>629,647</b>	528,718
– UK	504,275	419,642
– France	55,111	47,699
– Germany	21,605	19,361
– Switzerland	10,102	6,558
– other	38,554	35,458
<b>Asia</b>	<b>762,406</b>	697,358
– Hong Kong	531,489	499,955
– Singapore	55,140	48,569
– mainland China	56,826	48,323
– Australia	29,286	23,191
– India	20,199	14,935
– Malaysia	15,997	14,624
– Taiwan	16,041	14,668
– Indonesia	5,198	4,732
– other	32,230	28,361
<b>Middle East and North Africa (excluding Saudi Arabia)</b>	<b>41,221</b>	38,126
– United Arab Emirates	20,974	17,949
– Turkey	3,987	3,870
– Egypt	5,659	5,186
– other	10,601	11,121
<b>North America</b>	<b>182,028</b>	146,676
– US	117,485	90,834
– Canada	56,520	48,425
– other	8,023	7,417
<b>Latin America</b>	<b>27,478</b>	28,237
– Mexico	22,220	23,051
– other	5,258	5,186
<b>At 31 Dec</b>	<b>1,642,780</b>	1,439,115

### Loans and advances, deposits by currency

\$m	At 31 Dec 2020						Total
	USD	GBP	HKD	EUR	CNY	Others <sup>1</sup>	
Loans and advances to banks	17,959	3,495	7,155	4,601	6,063	42,343	81,616
Loans and advances to customers	173,117	280,803	222,138	89,851	37,671	234,407	1,037,987
<b>Total loans and advances</b>	<b>191,076</b>	<b>284,298</b>	<b>229,293</b>	<b>94,452</b>	<b>43,734</b>	<b>276,750</b>	<b>1,119,603</b>
Deposits by banks	30,239	7,856	2,884	25,291	4,904	10,906	82,080
Customer accounts	433,647	431,143	310,197	135,851	60,971	270,971	1,642,780
<b>Total deposits</b>	<b>463,886</b>	<b>438,999</b>	<b>313,081</b>	<b>161,142</b>	<b>65,875</b>	<b>281,877</b>	<b>1,724,860</b>

\$m	At 31 Dec 2019						Total
	USD	GBP	HKD	EUR	CNY	Others	
Loans and advances to banks	19,386	3,245	6,242	4,266	5,772	30,292	69,203
Loans and advances to customers	177,696	264,029	234,945	84,919	34,338	240,816	1,036,743
<b>Total loans and advances</b>	<b>197,082</b>	<b>267,274</b>	<b>241,187</b>	<b>89,185</b>	<b>40,110</b>	<b>271,108</b>	<b>1,105,946</b>
Deposits by banks	23,508	7,537	1,865	11,154	4,265	10,693	59,022
Customer accounts	360,462	358,764	299,049	122,988	52,216	245,636	1,439,115
<b>Total deposits</b>	<b>383,970</b>	<b>366,301</b>	<b>300,914</b>	<b>134,142</b>	<b>56,481</b>	<b>256,329</b>	<b>1,498,137</b>

<sup>1</sup> 'Others' includes items with no currency information available (\$8,671m for loans to banks, \$56,729m for loans to customers, \$4m for deposits by banks and \$5m for customer accounts).

## Average balance sheet

### Average balance sheet and net interest income

Average balances and related interest are shown for the domestic operations of our principal commercial banks by geographical region. 'Other operations' comprise the operations of our principal commercial banking and consumer finance entities outside their domestic markets and all other banking operations, including investment banking balances and transactions.

Average balances are based on daily averages for the principal areas of our banking activities with monthly or less frequent averages used elsewhere. Balances and transactions with fellow subsidiaries are reported gross in the principal commercial banking and consumer finance entities, and the elimination entries are included within 'Other operations'.

Net interest margin numbers are calculated by dividing net interest income as reported in the income statement by the average interest-earning assets from which interest income is reported within the 'Net interest income' line of the income statement. Total interest-earning assets include credit-impaired loans where the carrying amount has been adjusted as a result of impairment allowances. In accordance with IFRSs, we recognise interest income on credit-impaired assets after the carrying amount has been adjusted as a result of impairment. Fee income that forms an integral part of the effective interest rate of a financial instrument is recognised as an adjustment to the effective interest rate and recorded in 'Interest income'.

### Assets

	Footnotes	2020			2019			2018		
		Average balance \$m	Interest income \$m	Yield %	Average balance \$m	Interest income \$m	Yield %	Average balance \$m	Interest income \$m	Yield %
<b>Summary</b>										
Interest-earning assets measured at amortised cost (itemised below)		<b>2,092,900</b>	<b>41,756</b>	<b>2.00</b>	1,922,822	54,695	2.84	1,839,346	49,609	2.70
Trading assets and financial assets designated and otherwise mandatorily measured at fair value through profit or loss		<b>188,648</b>	<b>3,328</b>	<b>1.76</b>	211,561	5,457	2.58	195,922	5,215	2.66
Expected credit losses provision		<b>(11,709)</b>	<b>N/A</b>	<b>N/A</b>	(8,524)	N/A	N/A	(7,816)	N/A	N/A
Non-interest-earning assets		<b>667,100</b>	<b>N/A</b>	<b>N/A</b>	586,517	N/A	N/A	584,524	N/A	N/A
<b>Total assets and interest income</b>		<b>2,936,939</b>	<b>45,084</b>	<b>1.54</b>	2,712,376	60,152	2.22	2,611,976	54,824	2.10
Average yield on all interest-earning assets				<b>1.98</b>			2.82			2.69
<b>Short-term funds and loans and advances to banks</b>										
Europe	HSBC Bank plc	<b>116,521</b>	<b>182</b>	<b>0.16</b>	84,254	376	0.45	113,605	471	0.41
	HSBC UK Bank plc	<b>63,190</b>	<b>111</b>	<b>0.18</b>	38,830	277	0.71	22,457	147	0.65
Asia	The Hongkong and Shanghai Banking Corporation Limited	<b>76,521</b>	<b>683</b>	<b>0.89</b>	66,430	1,147	1.73	71,631	1,169	1.63
MENA	HSBC Bank Middle East Limited	<b>4,837</b>	<b>54</b>	<b>1.12</b>	3,247	71	2.19	3,419	52	1.52
North America	HSBC North America Holdings Inc.	<b>24,429</b>	<b>89</b>	<b>0.36</b>	15,820	307	1.94	23,949	643	2.68
	HSBC Bank Canada	<b>8,953</b>	<b>22</b>	<b>0.25</b>	689	4	0.58	620	12	1.94
Latin America	Grupo Financiero HSBC, S. A. de C. V.	<b>2,084</b>	<b>104</b>	<b>4.99</b>	2,509	180	7.17	2,435	178	7.31
	HSBC Argentina Holdings S.A.	<b>43</b>	<b>—</b>	<b>—</b>	45	—	—	37	1	2.70
Other operations and intra-region eliminations		<b>1,677</b>	<b>19</b>	<b>1.13</b>	1,096	49	4.47	(4,516)	(198)	4.38
<b>At 31 Dec</b>		<b>298,255</b>	<b>1,264</b>	<b>0.42</b>	212,920	2,411	1.13	233,637	2,475	1.06

## Financial summary

### Assets (continued)

		2020			2019			2018			
		Average balance	Interest income	Yield	Average balance	Interest income	Yield	Average balance	Interest income	Yield	
		\$m	\$m	%	\$m	\$m	%	\$m	\$m	%	
		<i>Footnotes</i>									
<b>Loans and advances to customers</b>											
Europe	HSBC Bank plc	1	149,457	2,685	1.80	150,080	3,198	2.13	251,992	6,599	2.62
	HSBC UK Bank plc	1	242,013	6,307	2.61	231,031	6,650	2.88	116,144	3,370	2.90
Asia	The Hongkong and Shanghai Banking Corporation Limited		479,165	12,984	2.71	468,359	16,263	3.47	440,143	14,466	3.29
MENA	HSBC Bank Middle East Limited		21,244	786	3.70	20,557	1,000	4.86	20,832	983	4.72
North America	HSBC North America Holdings Inc.		66,642	2,090	3.14	66,074	2,713	4.11	63,036	2,479	3.93
	HSBC Bank Canada		46,432	1,306	2.81	42,942	1,585	3.69	40,587	1,425	3.51
Latin America	Grupo Financiero HSBC, S. A. de C. V.		18,796	1,898	10.10	20,379	2,348	11.52	17,486	2,038	11.66
	HSBC Argentina Holdings S.A.		1,619	462	28.54	2,081	652	31.33	2,903	741	25.53
Other operations and intra-region eliminations			21,427	873	4.07	20,051	1,169	5.83	19,840	1,184	5.97
<b>At 31 Dec</b>			<b>1,046,795</b>	<b>29,391</b>	<b>2.81</b>	<b>1,021,554</b>	<b>35,578</b>	<b>3.48</b>	<b>972,963</b>	<b>33,285</b>	<b>3.42</b>
<b>Reverse repurchase agreements – non-trading</b>											
Europe	HSBC Bank plc	1	87,959	535	0.61	98,391	1,191	1.21	85,967	905	1.05
	HSBC UK Bank plc	1	3,089	11	0.36	4,345	36	0.83	854	8	0.94
Asia	The Hongkong and Shanghai Banking Corporation Limited		71,325	585	0.82	56,093	1,030	1.84	50,730	902	1.78
MENA	HSBC Bank Middle East Limited		1,576	22	1.40	857	32	3.73	1,131	16	1.41
North America	HSBC North America Holdings Inc.		65,534	522	0.80	75,215	2,560	3.40	77,111	1,871	2.43
	HSBC Bank Canada		5,647	99	1.75	5,895	121	2.05	5,233	79	1.51
Latin America	Grupo Financiero HSBC, S. A. de C. V.		2,065	103	4.99	1,100	75	6.82	1,134	90	7.94
	HSBC Argentina Holdings S.A.		292	69	23.63	35	16	45.71	40	15	37.50
Other operations and intra-region eliminations			(15,586)	(127)	0.81	(16,989)	(371)	2.18	(16,773)	(147)	0.88
<b>At 31 Dec</b>			<b>221,901</b>	<b>1,819</b>	<b>0.82</b>	<b>224,942</b>	<b>4,690</b>	<b>2.08</b>	<b>205,427</b>	<b>3,739</b>	<b>1.82</b>
<b>Financial investments</b>											
Europe	HSBC Bank plc	1	65,848	842	1.28	64,021	1,195	1.87	69,552	1,205	1.73
	HSBC UK Bank plc	1	32,450	232	0.71	20,865	302	1.45	7,830	104	1.33
Asia	The Hongkong and Shanghai Banking Corporation Limited		251,760	4,653	1.85	228,733	5,831	2.55	218,439	5,074	2.32
MENA	HSBC Bank Middle East Limited		9,918	99	1.00	7,723	173	2.24	6,317	134	2.12
North America	HSBC North America Holdings Inc.		52,611	888	1.69	50,321	1,202	2.39	45,668	1,134	2.48
	HSBC Bank Canada		16,522	183	1.11	19,115	371	1.94	18,424	341	1.85
Latin America	Grupo Financiero HSBC, S. A. de C. V.		4,791	246	5.13	7,082	466	6.58	7,154	494	6.91
	HSBC Argentina Holdings S.A.		903	312	34.55	961	526	54.73	750	217	28.93
Other operations and intra-region eliminations			28,739	688	2.39	19,118	639	3.34	12,096	463	3.83
<b>At 31 Dec</b>			<b>463,542</b>	<b>8,143</b>	<b>1.76</b>	<b>417,939</b>	<b>10,705</b>	<b>2.56</b>	<b>386,230</b>	<b>9,166</b>	<b>2.37</b>



## Assets (continued)

		2020			2019			2018		
		Average balance	Interest income	Yield	Average balance	Interest income	Yield	Average balance	Interest income	Yield
		\$m	\$m	%	\$m	\$m	%	\$m	\$m	%
<b>Other interest-earning assets</b>										
Europe	HSBC Bank plc	54,323	994	1.83	41,949	1,060	2.53	35,757	808	2.26
	HSBC UK Bank plc	317	4	1.26	461	8	1.74	226	2	0.88
Asia	The Hongkong and Shanghai Banking Corporation Limited	8,661	94	1.09	5,417	146	2.69	3,987	87	2.18
MENA	HSBC Bank Middle East Limited	29	2	6.90	(205)	2	(0.98)	(67)	25	(37.31)
North America	HSBC North America Holdings Inc.	8,001	46	0.57	5,407	132	2.44	5,522	122	2.21
	HSBC Bank Canada	746	3	0.40	573	19	3.32	262	10	3.82
Latin America	Grupo Financiero HSBC, S. A. de C. V.	1,062	3	0.28	1,154	14	1.22	763	8	1.05
	HSBC Argentina Holdings S.A.	20	135	675.00	(146)	258	(176.70)	330	154	46.67
Other operations and intra-region eliminations		(10,752)	(142)		(9,143)	(328)		(5,691)	(272)	
<b>At 31 Dec</b>		<b>62,407</b>	<b>1,139</b>	<b>1.83</b>	<b>45,467</b>	<b>1,311</b>	<b>2.89</b>	<b>41,089</b>	<b>944</b>	<b>2.30</b>
<b>Total interest-earning assets</b>										
Europe	HSBC Bank plc	474,108	5,238	1.10	438,696	7,019	1.60	556,873	9,988	1.79
	HSBC UK Bank plc	341,059	6,665	1.95	295,532	7,273	2.46	147,511	3,631	2.46
Asia	The Hongkong and Shanghai Banking Corporation Limited	887,432	18,999	2.14	825,033	24,417	2.96	784,930	21,698	2.76
MENA	HSBC Bank Middle East Limited	37,604	963	2.56	32,179	1,278	3.97	31,632	1,210	3.83
North America	HSBC North America Holdings Inc.	217,217	3,635	1.67	212,838	6,914	3.25	215,286	6,249	2.90
	HSBC Bank Canada	78,300	1,613	2.06	69,215	2,099	3.03	65,126	1,867	2.87
Latin America	Grupo Financiero HSBC, S. A. de C. V.	28,798	2,354	8.17	32,224	3,082	9.56	28,972	2,808	9.69
	HSBC Argentina Holdings S.A.	2,877	978	33.99	2,976	1,453	48.82	4,060	1,128	27.78
Other operations and intra-region eliminations		25,505	1,311		14,129	1,160		4,956	1,030	
<b>At 31 Dec</b>		<b>2,092,900</b>	<b>41,756</b>	<b>2.00</b>	<b>1,922,822</b>	<b>54,695</b>	<b>2.84</b>	<b>1,839,346</b>	<b>49,609</b>	<b>2.70</b>

1 Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

## Equity and liabilities

		2020			2019			2018		
		Average balance	Interest expense	Cost	Average balance	Interest expense	Cost	Average balance	Interest expense	Cost
		\$m	\$m	%	\$m	\$m	%	\$m	\$m	%
<b>Summary</b>										
Interest-bearing liabilities measured at amortised cost (itemised below)		1,741,166	14,178	0.81	1,634,057	24,233	1.48	1,581,519	19,120	1.21
Trading liabilities and financial liabilities designated at fair value (excluding own debt issued)		137,349	2,356	1.72	151,224	3,639	2.41	142,184	3,524	2.48
Non-interest bearing current accounts		267,944			227,651			211,815		
Total equity and other non-interest bearing liabilities		790,480			699,442			676,458		
<b>Total equity and liabilities</b>		<b>2,936,939</b>	<b>16,534</b>	<b>0.56</b>	<b>2,712,374</b>	<b>27,872</b>	<b>1.03</b>	<b>2,611,976</b>	<b>22,644</b>	<b>0.87</b>
Average cost on all interest-bearing liabilities				<b>0.88</b>			<b>1.56</b>			<b>1.31</b>

## Financial summary

### Equity and liabilities (continued)

		2020			2019			2018			
		Average balance	Interest expense	Cost	Average balance	Interest expense	Cost	Average balance	Interest expense	Cost	
		\$m	\$m	%	\$m	\$m	%	\$m	\$m	%	
		Footnotes									
<b>Deposits by banks</b>											
Europe	HSBC Bank plc	2	36,958	120	0.32	29,717	246	0.83	28,960	207	0.71
	HSBC UK Bank plc	1	91	—	—	422	25	5.92	281	9	3.20
Asia	The Hongkong and Shanghai Banking Corporation Limited		30,929	123	0.40	25,216	290	1.15	22,687	202	0.89
MENA	HSBC Bank Middle East Limited		2,998	39	1.30	1,905	53	2.78	1,596	41	2.57
North America	HSBC North America Holdings Inc.		7,174	9	0.13	5,987	45	0.75	5,079	132	2.60
	HSBC Bank Canada		919	1	0.11	726	2	0.28	716	17	2.37
Latin America	Grupo Financiero HSBC, S. A. de C. V.		949	63	6.64	1,458	93	6.38	1,245	99	7.95
	HSBC Argentina Holdings S.A.		24	5	20.83	62	18	29.03	82	9	10.98
Other operations and intra-region eliminations			(14,506)	(30)	0.21	(12,978)	(70)	0.54	(16,116)	(210)	1.30
<b>At 31 Dec</b>			<b>65,536</b>	<b>330</b>	<b>0.50</b>	<b>52,515</b>	<b>702</b>	<b>1.34</b>	<b>44,530</b>	<b>506</b>	<b>1.14</b>
<b>Debt Securities in issue – non trading</b>											
Europe	HSBC Holdings plc		106,742	3,101	2.91	99,375	3,797	3.82	85,042	3,290	3.87
	HSBC Bank plc	1	67,703	719	1.06	69,328	1,138	1.64	68,211	1,063	1.56
	HSBC UK Bank plc	1	14,900	423	2.84	12,679	354	2.79	2,471	69	2.79
Asia	The Hongkong and Shanghai Banking Corporation Limited		40,602	841	2.07	37,336	1,202	3.22	32,213	1,088	3.38
MENA	HSBC Bank Middle East Limited		3,214	57	1.77	3,030	111	3.66	3,043	95	3.12
North America	HSBC North America Holdings Inc.		31,352	730	2.33	32,991	1,256	3.81	26,643	958	3.60
	HSBC Bank Canada		14,592	287	1.97	11,525	311	2.70	10,134	254	2.51
Latin America	Grupo Financiero HSBC, S. A. de C. V.		3,451	212	6.14	2,885	212	7.35	1,339	84	6.27
	HSBC Argentina Holdings S.A.		161	28	17.39	280	94	33.57	421	113	26.84
Other operations and intra-region eliminations			(63,107)	(1,454)	2.30	(58,200)	(1,953)	3.36	(46,082)	(1,339)	2.91
<b>At 31 Dec</b>			<b>219,610</b>	<b>4,944</b>	<b>2.25</b>	<b>211,229</b>	<b>6,522</b>	<b>3.09</b>	<b>183,434</b>	<b>5,675</b>	<b>3.09</b>
<b>Customer accounts</b>											
Europe	HSBC Bank plc	1	184,462	603	0.33	174,160	1,428	0.82	297,353	1,862	0.63
	HSBC UK Bank plc	1	237,077	378	0.16	214,028	806	0.38	122,406	372	0.30
Asia	The Hongkong and Shanghai Banking Corporation Limited		651,288	3,300	0.51	612,698	5,520	0.90	585,575	3,742	0.64
MENA	HSBC Bank Middle East Limited		10,678	84	0.79	9,308	134	1.44	9,213	86	0.93
North America	HSBC North America Holdings Inc.		86,470	504	0.58	65,917	872	1.32	63,309	564	0.89
	HSBC Bank Canada		47,175	428	0.91	41,352	642	1.55	39,717	480	1.21
Latin America	Grupo Financiero HSBC, S. A. de C. V.		16,325	535	3.28	16,687	832	4.99	13,929	640	4.59
	HSBC Argentina Holdings S.A.		2,596	307	11.83	2,840	554	19.51	3,316	384	11.58
Other operations and intra-region eliminations			18,178	339	1.86	12,493	450	3.60	3,802	157	4.13
<b>At 31 Dec</b>			<b>1,254,249</b>	<b>6,478</b>	<b>0.52</b>	<b>1,149,483</b>	<b>11,238</b>	<b>0.98</b>	<b>1,138,620</b>	<b>8,287</b>	<b>0.73</b>
<b>Repurchase agreements – non-trading</b>											
Europe	HSBC Bank plc	1	49,806	260	0.52	63,521	936	1.47	66,045	826	1.25
	HSBC UK Bank plc	1	4,110	2	0.05	727	8	1.10	238	2	0.84
Asia	The Hongkong and Shanghai Banking Corporation Limited		23,465	197	0.84	23,330	471	2.02	18,723	356	1.90
MENA	HSBC Bank Middle East Limited		332	1	0.30	66	2	3.03	47	1	2.13
North America	HSBC North America Holdings Inc.		58,247	401	0.69	79,298	2,510	3.17	82,178	1,970	2.40
	HSBC Bank Canada		4,188	41	0.98	7,011	149	2.13	5,932	87	1.47
Latin America	Grupo Financiero HSBC, S. A. de C. V.		2,374	130	5.48	5,499	458	8.33	5,297	458	8.65
	HSBC Argentina Holdings S.A.		24	5	20.83	30	13	43.33	20	3	15.00
Other operations and intra-region eliminations			(17,170)	(74)	0.43	(18,632)	(524)	2.81	(17,276)	(294)	1.70
<b>At 31 Dec</b>			<b>125,376</b>	<b>963</b>	<b>0.77</b>	<b>160,850</b>	<b>4,023</b>	<b>2.50</b>	<b>161,204</b>	<b>3,409</b>	<b>2.11</b>

## Equity and liabilities (continued)

		2020			2019			2018		
		Average balance	Interest expense	Cost	Average balance	Interest expense	Cost	Average balance	Interest expense	Cost
		\$m	\$m	%	\$m	\$m	%	\$m	\$m	%
<b>Other interest-bearing liabilities</b>										
Europe	HSBC Bank plc	60,780	1,100	1.81	49,181	1,384	2.81	43,648	987	2.26
	HSBC UK Bank plc	406	22	5.42	633	11	1.74	104	1	0.96
Asia	The Hongkong and Shanghai Banking Corporation Limited	12,950	166	1.28	8,796	228	2.59	7,574	176	2.32
MENA	HSBC Bank Middle East Limited	40	3	7.50	39	3	7.69	—	—	—
North America	HSBC North America Holdings Inc.	7,289	71	0.97	6,116	145	2.37	10,468	300	2.87
	HSBC Bank Canada	1,960	44	2.24	1,631	40	2.45	1,430	31	2.17
Latin America	Grupo Financiero HSBC, S. A. de C. V.	165	27	16.36	155	25	16.13	—	—	—
	HSBC Argentina Holdings S.A.	23	56	243.48	23	151	656.52	462	72	15.58
Other operations and intra-region eliminations		(7,218)	(26)	0.36	(6,594)	(239)		(9,955)	(324)	
<b>At 31 Dec</b>		<b>76,395</b>	<b>1,463</b>	<b>1.92</b>	<b>59,980</b>	<b>1,748</b>	<b>2.91</b>	<b>53,731</b>	<b>1,243</b>	<b>2.31</b>
<b>Total interest-bearing liabilities</b>										
Europe	HSBC Holdings plc	108,612	3,104	2.86	99,642	3,803	3.82	85,042	3,304	3.89
	HSBC Bank plc	399,709	2,802	0.70	385,906	5,131	1.33	504,217	4,945	0.98
	HSBC UK Bank plc	256,584	825	0.32	228,487	1,204	0.53	125,500	453	0.36
Asia	The Hongkong and Shanghai Banking Corporation Limited	759,234	4,627	0.61	707,377	7,711	1.09	666,772	5,564	0.83
MENA	HSBC Bank Middle East Limited	17,262	184	1.07	14,348	303	2.11	13,899	223	1.60
North America	HSBC North America Holdings Inc.	190,531	1,715	0.90	190,309	4,828	2.54	187,677	3,924	2.09
	HSBC Bank Canada	68,834	801	1.16	62,245	1,143	1.84	57,929	869	1.50
Latin America	Grupo Financiero HSBC, S. A. de C. V.	23,264	967	4.16	26,683	1,620	6.07	21,810	1,281	5.87
	HSBC Argentina Holdings S.A.	2,828	401	14.18	3,235	832	25.72	4,301	581	13.51
Other operations and intra-region eliminations		(85,692)	(1,248)	1.46	(84,175)	(2,342)		(85,628)	(2,024)	
<b>At 31 Dec</b>		<b>1,741,166</b>	<b>14,178</b>	<b>0.81</b>	<b>1,634,057</b>	<b>24,233</b>	<b>1.48</b>	<b>1,581,519</b>	<b>19,120</b>	<b>1.21</b>

1 Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

2 This includes interest-bearing bank deposits only. See page 96 for an analysis of all bank deposits.

3 This includes interest-bearing customer accounts only. See page 97 for an analysis of all customer accounts.

## Net interest margin<sup>1</sup>

		2020	2019	2018
		%	%	%
Europe	HSBC Bank plc <sup>2</sup>	0.51	0.43	0.89
	HSBC UK Bank plc <sup>2</sup>	1.71	2.05	2.16
Asia	The Hongkong and Shanghai Banking Corporation Limited	1.62	2.02	2.06
MENA	HSBC Bank Middle East Limited	2.07	3.03	3.12
North America	HSBC North America Holdings Inc.	0.88	0.98	1.08
	HSBC Bank Canada	1.03	1.38	1.53
Latin America	Grupo Financiero HSBC, S. A. de C. V.	4.82	4.54	5.27
	HSBC Argentina Holdings S.A.	19.99	20.88	13.44
<b>At 31 Dec</b>		<b>1.32</b>	<b>1.58</b>	<b>1.66</b>

1 Net interest margin is calculated as net interest income divided by average interest-earning assets.

2 Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

## Financial summary

### Distribution of average total assets

		2020	2019	2018
		%	%	%
Europe	HSBC Bank plc <sup>1</sup>	32.0	32.0	38.0
	HSBC UK Bank plc <sup>1</sup>	12.0	12.0	6.0
Asia	The Hongkong and Shanghai Banking Corporation Limited	40.0	40.0	40.0
MENA	HSBC Bank Middle East Limited	2.0	1.0	1.0
North America	HSBC North America Holdings Inc.	11.0	12.0	13.0
	HSBC Bank Canada	3.0	3.0	3.0
Latin America	Grupo Financiero HSBC, S. A. de C. V.	2.0	2.0	2.0
Other operations and intra-region eliminations		(2.0)	(2.0)	(3.0)
At 31 Dec		100.0	100.0	100.0

<sup>1</sup> Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

### Analysis of changes in net interest income and net interest expense

The following tables allocate changes in net interest income and net interest expense between volume and rate for 2020 compared

with 2019, and for 2019 compared with 2018. We isolate rate variances and allocate any change arising from both volume and rate/volume to volume.

#### Interest income

		Increase/(decrease) in 2020 compared with 2019			Increase/(decrease) in 2019 compared with 2018			
		2020	Volume	Rate	2019	Volume	Rate	2018
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>Short-term funds and loans and advances to banks</b>								
Europe	HSBC Bank plc <sup>1</sup>	182	50	(244)	376	(140)	45	471
	HSBC UK Bank plc <sup>1</sup>	111	40	(206)	277	117	13	147
Asia	The Hongkong and Shanghai Banking Corporation Limited	683	94	(558)	1,147	(94)	72	1,169
MENA	HSBC Bank Middle East Limited	54	18	(35)	71	(4)	23	52
North America	HSBC North America Holdings Inc.	89	32	(250)	307	(159)	(177)	643
	HSBC Bank Canada	22	20	(2)	4	—	(8)	12
Latin America	Grupo Financiero HSBC, S. A. de C. V.	104	(21)	(55)	180	5	(3)	178
	HSBC Argentina Holdings S.A.	—	—	—	—	—	(1)	1
Other operations and intra-region eliminations		19	7	(37)	49	251	(4)	(198)
<b>At 31 Dec</b>		<b>1,264</b>	<b>365</b>	<b>(1,512)</b>	<b>2,411</b>	<b>(228)</b>	<b>164</b>	<b>2,475</b>
<b>Loans and advances to customers</b>								
Europe	HSBC Bank plc <sup>1</sup>	2,685	(18)	(495)	3,198	(2,166)	(1,235)	6,599
	HSBC UK Bank plc <sup>1</sup>	6,307	281	(624)	6,650	3,303	(23)	3,370
Asia	The Hongkong and Shanghai Banking Corporation Limited	12,984	281	(3,560)	16,263	1,005	792	14,466
MENA	HSBC Bank Middle East Limited	786	24	(238)	1,000	(12)	29	983
North America	HSBC North America Holdings Inc.	2,090	18	(641)	2,713	121	113	2,479
	HSBC Bank Canada	1,306	99	(378)	1,585	87	73	1,425
Latin America	Grupo Financiero HSBC, S. A. de C. V.	1,898	(161)	(289)	2,348	334	(24)	2,038
	HSBC Argentina Holdings S.A.	462	(132)	(58)	652	(257)	168	741
Other operations and intra-region eliminations		873	57	(353)	1,169	13	(28)	1,184
<b>At 31 Dec</b>		<b>29,391</b>	<b>657</b>	<b>(6,844)</b>	<b>35,578</b>	<b>1,709</b>	<b>584</b>	<b>33,285</b>
<b>Reverse repurchase agreements – non-trading</b>								
Europe	HSBC Bank plc <sup>1</sup>	535	(66)	(590)	1,191	148	138	905
	HSBC UK Bank plc <sup>1</sup>	11	(5)	(20)	36	29	(1)	8
Asia	The Hongkong and Shanghai Banking Corporation Limited	585	127	(572)	1,030	98	30	902
MENA	HSBC Bank Middle East Limited	22	10	(20)	32	(10)	26	16
North America	HSBC North America Holdings Inc.	522	(82)	(1,956)	2,560	(59)	748	1,871
	HSBC Bank Canada	99	(4)	(18)	121	14	28	79
Latin America	Grupo Financiero HSBC, S. A. de C. V.	103	48	(20)	75	(2)	(13)	90
	HSBC Argentina Holdings S.A.	69	61	(8)	16	(2)	3	15
Other operations and intra-region eliminations		(127)	11	233	(371)	(6)	(218)	(147)
<b>At 31 Dec</b>		<b>1,819</b>	<b>(37)</b>	<b>(2,834)</b>	<b>4,690</b>	<b>417</b>	<b>534</b>	<b>3,739</b>

## Interest income (continued)

		Increase/(decrease) in 2020 compared with 2019			Increase/(decrease) in 2019 compared with 2018			
		2020	Volume	Rate	2019	Volume	Rate	2018
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>Financial investments</b>								
Europe	HSBC Bank plc <sup>1</sup>	842	25	(378)	1,195	(107)	97	1,205
	HSBC UK Bank plc <sup>1</sup>	232	84	(154)	302	189	9	104
Asia	The Hongkong and Shanghai Banking Corporation Limited	4,653	423	(1,601)	5,831	255	502	5,074
MENA	HSBC Bank Middle East Limited	99	22	(96)	173	31	8	134
North America	HSBC North America Holdings Inc.	888	38	(352)	1,202	109	(41)	1,134
	HSBC Bank Canada	183	(29)	(159)	371	13	17	341
Latin America	Grupo Financiero HSBC, S. A. de C. V.	246	(117)	(103)	466	(4)	(24)	494
	HSBC Argentina Holdings S.A.	312	(20)	(194)	526	115	194	217
Other operations and intra-region eliminations		688	231	(182)	639	235	(59)	463
<b>At 31 Dec</b>		<b>8,143</b>	<b>782</b>	<b>(3,344)</b>	<b>10,705</b>	<b>805</b>	<b>734</b>	<b>9,166</b>

1 Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

## Interest expense

		Increase/(decrease) in 2020 compared with 2019			Increase/(decrease) in 2019 compared with 2018			
		2020	Volume	Rate	2019	Volume	Rate	2018
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>Deposits by banks</b>								
Europe	HSBC Bank plc <sup>1</sup>	120	26	(152)	246	4	35	207
	HSBC UK Bank plc <sup>1</sup>	—	—	(25)	25	8	8	9
Asia	The Hongkong and Shanghai Banking Corporation Limited	123	22	(189)	290	29	59	202
MENA	HSBC Bank Middle East Limited	39	14	(28)	53	9	3	41
North America	HSBC North America Holdings Inc.	9	1	(37)	45	7	(94)	132
	HSBC Bank Canada	1	—	(1)	2	—	(15)	17
Latin America	Grupo Financiero HSBC, S. A. de C. V.	63	(34)	4	93	14	(20)	99
	HSBC Argentina Holdings S.A.	5	(8)	(5)	18	(6)	15	9
Other operations and intra-region eliminations		(30)	(3)	43	(70)	18	122	(210)
<b>At 31 Dec</b>		<b>330</b>	<b>69</b>	<b>(441)</b>	<b>702</b>	<b>107</b>	<b>89</b>	<b>506</b>
<b>Customer accounts</b>								
Europe	HSBC Bank plc <sup>1</sup>	603	28	(853)	1,428	(999)	565	1,862
	HSBC UK Bank plc <sup>1</sup>	378	43	(471)	806	336	98	372
Asia	The Hongkong and Shanghai Banking Corporation Limited	3,300	170	(2,390)	5,520	256	1,522	3,742
MENA	HSBC Bank Middle East Limited	84	11	(61)	134	1	47	86
North America	HSBC North America Holdings Inc.	504	120	(488)	872	36	272	564
	HSBC Bank Canada	428	51	(265)	642	27	135	480
Latin America	Grupo Financiero HSBC, S. A. de C. V.	535	(12)	(285)	832	136	56	640
	HSBC Argentina Holdings S.A.	307	(29)	(218)	554	(93)	263	384
Other operations and intra-region eliminations		339	106	(217)	450	313	(20)	157
<b>At 31 Dec</b>		<b>6,478</b>	<b>528</b>	<b>(5,288)</b>	<b>11,238</b>	<b>104</b>	<b>2,847</b>	<b>8,287</b>

## Financial summary

### Interest expense (continued)

		Increase/(decrease) in 2020 compared with 2019			Increase/(decrease) in 2019 compared with 2018			
		2020	Volume	Rate	2019	Volume	Rate	2018
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>Repurchase agreements – non-trading</b>								
Europe	HSBC Bank plc <sup>1</sup>	260	(73)	(603)	936	(35)	145	826
	HSBC UK Bank plc <sup>1</sup>	2	2	(8)	8	5	1	2
Asia	The Hongkong and Shanghai Banking Corporation Limited	197	1	(275)	471	93	22	356
MENA	HSBC Bank Middle East Limited	1	1	(2)	2	1	—	1
North America	HSBC North America Holdings Inc.	401	(142)	(1,967)	2,510	(93)	633	1,970
	HSBC Bank Canada	41	(27)	(81)	149	23	39	87
Latin America	Grupo Financiero HSBC, S. A. de C. V.	130	(171)	(157)	458	17	(17)	458
	HSBC Argentina Holdings S.A.	5	(1)	(7)	13	4	6	3
Other operations and intra-region eliminations		(74)	7	443	(524)	(38)	(192)	(294)
<b>At 31 Dec</b>		<b>963</b>	<b>(277)</b>	<b>(2,783)</b>	<b>4,023</b>	<b>(15)</b>	<b>629</b>	<b>3,409</b>
<b>Debt securities in issue – non trading</b>								
Europe	HSBC Holdings	3,101	208	(904)	3,797	550	(43)	3,290
	HSBC Bank plc <sup>1</sup>	719	(17)	(402)	1,138	21	55	1,062
	HSBC UK Bank plc <sup>1</sup>	423	63	6	354	285	2	67
Asia	The Hongkong and Shanghai Banking Corporation Limited	841	68	(429)	1,202	166	(52)	1,088
MENA	HSBC Bank Middle East Limited	57	3	(57)	111	—	16	95
North America	HSBC North America Holdings Inc.	730	(38)	(488)	1,256	242	56	958
	HSBC Bank Canada	287	60	(84)	311	38	19	254
Latin America	Grupo Financiero HSBC, S. A. de C. V.	212	35	(35)	212	114	14	84
	HSBC Argentina Holdings S.A.	28	(21)	(45)	94	(47)	28	113
Other operations and intra-region eliminations		(1,454)	(118)	617	(1,953)	(404)	(212)	(1,337)
<b>At 31 Dec</b>		<b>4,944</b>	<b>196</b>	<b>(1,774)</b>	<b>6,522</b>	<b>847</b>	<b>—</b>	<b>5,675</b>

<sup>1</sup> Impacted by transfers from HSBC Bank plc to HSBC UK Bank plc on 1 July 2018 following the completion of ring-fencing activities in the UK under the Financial Services (Banking Reform) Act 2013.

### Short-term borrowings

Short-term borrowings in the form of repurchase agreements – non-trading are shown separately on the face of the balance sheet. Other forms of short-term borrowings are included within customer accounts, deposits by banks, debt securities in issue and trading liabilities. Short-term borrowings are defined by the US Securities and Exchange Commission as Federal funds purchased and securities sold under agreements to repurchase, commercial paper and other short-term borrowings.

Our only significant short-term borrowings are securities sold under agreements to repurchase and certain debt securities in issue. For securities sold under agreements to repurchase, we run matched repo and reverse repo trading books. We generally observe lower year-end demand in our reverse repo lending business, which results in lower repo balances at the balance sheet date. Additional information on these is provided in the table below.

### Repos and short-term bonds

	2020	2019	2018
	\$m	\$m	\$m
<b>Securities sold under agreements to repurchase</b>			
Outstanding at 31 December	123,629	140,902	167,379
Average amount outstanding during the year	130,241	162,158	163,314
Maximum quarter-end balance outstanding during the year	152,847	185,432	172,150
Weighted average interest rate during the year	0.8%	2.5%	2.1%
Weighted average interest rate at the year-end	0.3%	1.5%	2.7%

## Contractual obligations

The table below provides details of our material contractual obligations at 31 December 2020.

	Payments due by period				
	Total \$m	Less than 1 year \$m	1-3 years \$m	3-5 years \$m	More than 5 years \$m
Long-term debt obligations	229,511	68,391	42,686	33,441	84,993
Term deposits and certificates of deposit	99,967	77,241	19,252	1,452	2,022
Capital lease obligations	4,621	922	1,275	1,243	1,181
Purchase obligations	1,102	682	127	256	37
Short positions in debt securities and equity shares	56,314	56,314	–	–	–
Current tax liability	690	690	–	–	–
Pension/healthcare obligation	19,524	1,783	3,696	3,799	10,246
	411,729	206,023	67,036	40,191	98,479

## Loan maturity and interest sensitivity analysis

At 31 December 2020, the geographical analysis of loan maturity and interest sensitivity by loan type on a contractual repayment basis was as follows.

	Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Total \$m
<b>Maturity of 1 year or less</b>						
Loans and advances to banks	10,185	48,885	8,565	3,277	3,053	73,965
Corporate and commercial	90,637	141,848	13,867	22,296	5,473	274,121
Non-bank financial institutions	14,292	19,664	288	5,390	250	39,884
	115,114	210,397	22,720	30,963	8,776	387,970
<b>Maturity after 1 year but within 5 years</b>						
Loans and advances to banks	3,221	3,093	1,060	27	20	7,421
Corporate and commercial	60,030	102,902	8,359	27,932	5,308	204,531
Non-bank financial institutions	6,668	9,620	91	3,464	811	20,654
	69,919	115,615	9,510	31,423	6,139	232,606
<b>Interest rate sensitivity of loans and advances to banks and commercial loans to customers</b>						
Fixed interest rate	44,953	4,404	4,802	5,261	1,345	60,765
Variable interest rate	24,966	111,211	4,708	26,162	4,794	171,841
	69,919	115,615	9,510	31,423	6,139	232,606
<b>Maturity after 5 years</b>						
Loans and advances to banks	136	135	–	–	–	271
Corporate and commercial	28,435	13,191	2,398	3,160	1,251	48,435
Non-bank financial institutions	1,213	2,354	–	438	36	4,041
	29,784	15,680	2,398	3,598	1,287	52,747
<b>Interest rate sensitivity of loans and advances to banks and commercial loans to customers</b>						
Fixed interest rate	17,157	979	1,064	954	242	20,396
Variable interest rate	12,627	14,701	1,334	2,644	1,045	32,351
	29,784	15,680	2,398	3,598	1,287	52,747

## Financial summary

### Deposits

The following tables summarise the average amount of bank deposits, customer deposits and certificates of deposit ('CDs') and other money market instruments (that are included within 'Debt securities in issue' in the balance sheet), together with the average

interest rates paid thereon for each of the past three years. The geographical analysis of average deposits is based on the location of the office in which the deposits are recorded and excludes balances with HSBC companies.

#### Deposits by banks

	2020		2019		2018	
	Average balance	Average rate	Average balance	Average rate	Average balance	Average rate
	\$m	%	\$m	%	\$m	%
<b>Europe</b>	<b>38,299</b>		31,243		28,609	
- demand and other - non-interest bearing	5,100	—	4,907	—	6,381	—
- demand - interest bearing	14,492	0.2	11,350	0.6	7,704	0.7
- time	18,701	0.5	14,981	1.2	14,503	0.9
- other	6	—	5	—	21	—
<b>Asia</b>	<b>29,791</b>		24,893		21,599	
- demand and other - non-interest bearing	3,787	—	3,876	—	3,305	—
- demand - interest bearing	19,381	0.3	16,612	1.0	13,775	0.8
- time	6,623	0.7	4,398	2.2	4,072	1.9
- other	—	—	7	—	447	—
<b>Middle East and North Africa</b>	<b>1,528</b>		1,108		981	
- demand and other - non-interest bearing	220	—	160	—	362	—
- demand - interest bearing	280	0.4	236	0.3	28	3.6
- time	969	1.7	696	3.1	475	5.5
- other	59	—	16	—	116	—
<b>North America</b>	<b>5,493</b>		4,454		3,818	
- demand and other - non-interest bearing	1,471	—	1,292	—	1,702	—
- demand - interest bearing	3,617	0.2	2,338	1.3	1,820	1.0
- time	405	0.7	824	2.2	296	1.0
- other	—	—	—	—	—	—
<b>Latin America</b>	<b>1,005</b>		1,084		1,289	
- demand and other - non-interest bearing	2	—	32	—	16	—
- demand - interest bearing	71	9.9	67	22.4	80	10.0
- time	932	6.7	985	9.8	1,193	6.6
- other	—	—	—	—	—	—
<b>Total</b>	<b>76,116</b>		62,782		56,296	
- demand and other - non-interest bearing	10,580	—	10,267	—	11,766	—
- demand - interest bearing	37,841	0.3	30,603	0.9	23,407	0.8
- time	27,630	0.8	21,884	1.9	20,539	1.6
- other	65	—	28	—	584	—



## Customer accounts

	2020		2019		2018	
	Average balance	Average rate	Average balance	Average rate	Average balance	Average rate
	\$m	%	\$m	%	\$m	%
<b>Europe</b>	<b>568,003</b>		510,513		500,811	
- demand and other – non-interest bearing	145,363	—	119,466	—	91,866	—
- demand – interest bearing	343,374	0.2	310,275	0.5	332,031	0.4
- savings	52,584	0.5	49,256	0.8	42,220	0.6
- time	25,755	0.6	30,498	1.7	33,264	1.3
- other	927	0.2	1,018	0.5	1,430	8.5
<b>Asia</b>	<b>722,371</b>		670,088		657,549	
- demand and other – non-interest bearing	71,629	—	64,871	—	73,024	—
- demand – interest bearing	486,903	0.2	430,760	0.3	455,443	0.2
- savings	138,508	1.6	147,959	2.3	107,078	2.1
- time	25,324	1.1	26,493	2.1	20,872	1.7
- other	7	14	5	20.0	1,132	0.9
<b>Middle East and North Africa</b>	<b>40,559</b>		36,340		35,074	
- demand and other – non-interest bearing	21,238	—	17,920	—	17,716	—
- demand – interest bearing	7,837	0.4	7,356	0.9	5,944	0.8
- savings	11,478	3.0	11,047	4.8	11,201	3.8
- time	6	—	17	—	213	2.3
- other	—	—	—	—	—	—
<b>North America</b>	<b>169,636</b>		137,126		134,486	
- demand and other – non-interest bearing	28,486	—	23,271	—	25,249	—
- demand – interest bearing	49,422	0.3	37,090	0.9	37,614	0.7
- savings	84,882	0.8	67,780	1.4	64,538	1.0
- time	6,846	1.3	8,984	2.3	7,079	1.7
- other	—	—	1	—	6	133.3
<b>Latin America</b>	<b>25,681</b>		25,847		24,193	
- demand and other – non-interest bearing	5,285	—	4,901	—	5,638	—
- demand – interest bearing	10,739	3.1	9,996	5.2	9,092	3.8
- savings	2,746	8.9	3,228	12.9	3,464	8.9
- time	6,911	4.0	7,722	6.2	5,906	6.4
- other	—	—	—	—	93	15.1
<b>Total</b>	<b>1,526,250</b>		1,379,914		1,352,113	
- demand and other – non-interest bearing	272,001	—	230,429	—	213,493	—
- demand – interest bearing	898,275	0.2	795,477	0.5	840,124	0.3
- savings	290,198	1.3	279,270	2.0	228,501	1.7
- time	64,842	1.2	73,714	2.4	67,334	1.9
- other	934	0.3	1,024	0.8	2,661	5.9

## Certificates of deposit and other money market instruments

	2020		2019		2018	
	Average balance	Average rate	Average balance	Average rate	Average balance	Average rate
	\$m	%	\$m	%	\$m	%
Europe	24,992	0.7	24,894	1.7	19,034	1.7
Asia	6,510	2.1	5,214	2.4	2,107	2.3
North America	13,144	1.2	9,887	2.4	7,497	2.4
Latin America	4,289	5.9	3,474	6.4	1,986	4.7
<b>Total</b>	<b>48,935</b>	<b>1.5</b>	43,469	2.3	30,624	2.1

## Financial summary

### Certificates of deposit and other time deposits

The maturity analysis of certificates of deposit ('CDs') and other wholesale time deposits is expressed by remaining maturity. The

majority of CDs and time deposits are in amounts of \$100,000 and over or the equivalent in other currencies.

	At 31 Dec 2020				
	3 months or less	After 3 months but within 6 months	After 6 months but within 12 months	After 12 months	Total
	\$m	\$m	\$m	\$m	\$m
<b>Europe</b>	<b>29,085</b>	<b>1,947</b>	<b>2,147</b>	<b>19,213</b>	<b>52,392</b>
– certificates of deposit	860	1,017	1,956	2,115	5,948
– time deposits:					
banks	2,269	55	42	16,962	19,328
customers	25,956	875	149	136	27,116
<b>Asia</b>	<b>24,859</b>	<b>2,342</b>	<b>1,673</b>	<b>357</b>	<b>29,231</b>
– certificates of deposit	2,112	1,607	1,182	351	5,252
– time deposits:					
banks	4,972	234	10	6	5,222
customers	17,775	501	481	–	18,757
<b>Middle East and North Africa</b>	<b>67</b>	<b>–</b>	<b>362</b>	<b>972</b>	<b>1,401</b>
– certificates of deposit	–	–	–	–	–
– time deposits:					
banks	67	–	362	972	1,401
customers	–	–	–	–	–
<b>North America</b>	<b>4,151</b>	<b>1,958</b>	<b>811</b>	<b>209</b>	<b>7,129</b>
– certificates of deposit	1,488	1,683	198	125	3,494
– time deposits:					
banks	–	–	–	–	–
customers	2,663	275	613	84	3,635
<b>Latin America</b>	<b>4,787</b>	<b>2,259</b>	<b>1,544</b>	<b>1,974</b>	<b>10,564</b>
– certificates of deposit	881	110	826	1,903	3,720
– time deposits:					
banks	–	–	–	51	51
customers	3,906	2,149	718	20	6,793
<b>Total</b>	<b>62,949</b>	<b>8,506</b>	<b>6,537</b>	<b>22,725</b>	<b>100,717</b>
– certificates of deposit	5,341	4,417	4,162	4,494	18,414
– time deposits:	–	–	–	–	–
banks	7,308	289	414	17,991	26,002
customers	50,300	3,800	1,961	240	56,301

## Global businesses and geographical regions

	Page
Summary	99
Reconciliation of reported and adjusted items – global businesses	99
Reconciliation of reported and adjusted risk-weighted assets	102
Supplementary tables for WPB and GBM	104
Analysis of reported results by geographical regions	108
Reconciliation of reported and adjusted items – geographical regions	110
Analysis by country	116

### Summary

The Group Chief Executive, supported by the rest of the Group Executive Committee ('GEC') (previously the Group Management

Board), reviews operating activity on a number of bases, including by global business and geographical region. Global businesses are our reportable segments under IFRS 8 'Operating Segments' and are presented in Note 10: Segmental analysis on page 347.

Geographical information is classified by the location of the principal operations of the subsidiary or, for The Hongkong and Shanghai Banking Corporation Limited, HSBC Bank plc, HSBC UK Bank plc, HSBC Bank Middle East Limited and HSBC Bank USA, by the location of the branch responsible for reporting the results or providing funding.

The expense of the UK bank levy is included in the Europe geographical region as HSBC regards the levy as a cost of being headquartered in the UK. For the purposes of the presentation by global business, the cost of the levy is included in the Corporate Centre.

The results of geographical regions are presented on a reported basis.

### Reconciliation of reported and adjusted items – global businesses

Supplementary unaudited analysis of significant items by global business is presented below.

	2020				
	Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	Total \$m
	<i>Footnotes</i>				
<b>Revenue</b>	<i>1</i>				
Reported	21,999	13,294	14,994	142	50,429
Significant items	14	18	309	(404)	(63)
– customer redress programmes	5	16	–	–	21
– disposals, acquisitions and investment in new businesses	9	–	–	1	10
– fair value movements on financial instruments	–	1	2	(267)	(264)
– restructuring and other related costs	–	1	307	(138)	170
<b>Adjusted</b>	<b>22,013</b>	<b>13,312</b>	<b>15,303</b>	<b>(262)</b>	<b>50,366</b>
<b>ECL</b>					
Reported	(2,855)	(4,754)	(1,209)	1	(8,817)
<b>Adjusted</b>	<b>(2,855)</b>	<b>(4,754)</b>	<b>(1,209)</b>	<b>1</b>	<b>(8,817)</b>
<b>Operating expenses</b>					
Reported	(15,446)	(6,900)	(10,169)	(1,917)	(34,432)
Significant items	422	211	905	1,435	2,973
– customer redress programmes	(64)	1	–	9	(54)
– impairment of goodwill and other intangibles	294	45	577	174	1,090
– past service costs of guaranteed minimum pension benefits equalisation	–	–	–	17	17
– restructuring and other related costs	192	165	326	1,225	1,908
– settlements and provisions in connection with legal and regulatory matters	–	–	2	10	12
<b>Adjusted</b>	<b>(15,024)</b>	<b>(6,689)</b>	<b>(9,264)</b>	<b>(482)</b>	<b>(31,459)</b>
<b>Share of profit in associates and joint ventures</b>					
Reported	6	(1)	–	1,592	1,597
Significant items	–	–	–	462	462
– impairment of goodwill	–	–	–	462	462
<b>Adjusted</b>	<b>6</b>	<b>(1)</b>	<b>–</b>	<b>2,054</b>	<b>2,059</b>
<b>Profit/(loss) before tax</b>					
Reported	3,704	1,639	3,616	(182)	8,777
Significant items	436	229	1,214	1,493	3,372
– revenue	14	18	309	(404)	(63)
– operating expenses	422	211	905	1,435	2,973
– share of profit in associates and joint ventures	–	–	–	462	462
<b>Adjusted</b>	<b>4,140</b>	<b>1,868</b>	<b>4,830</b>	<b>1,311</b>	<b>12,149</b>
<b>Loans and advances to customers (net)</b>					
Reported	469,186	343,182	224,364	1,255	1,037,987
<b>Adjusted</b>	<b>469,186</b>	<b>343,182</b>	<b>224,364</b>	<b>1,255</b>	<b>1,037,987</b>
<b>Customer accounts</b>					
Reported	834,759	470,428	336,983	610	1,642,780
<b>Adjusted</b>	<b>834,759</b>	<b>470,428</b>	<b>336,983</b>	<b>610</b>	<b>1,642,780</b>

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises losses associated with the RWA reduction commitments and gains relating to the business update in February 2020.

4 Includes impairment of software intangible assets of \$189m (of the total software intangible asset impairment of \$1,347m) and impairment of tangible assets of \$197m.

5 During the year, The Saudi British Bank ('SABB'), an associate of HSBC, impaired the goodwill that arose following the merger with Alawwal bank in 2019. HSBC's post-tax share of the goodwill impairment was \$462m.

## Global businesses

### Reconciliation of reported and adjusted items (continued)

	2019 <sup>4</sup>					Total \$m
	Footnotes	Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	
Revenue	1					
Reported		25,552	15,256	14,894	396	56,098
Currency translation		(208)	(103)	(107)	(53)	(471)
Significant items		221	11	82	(997)	(683)
– customer redress programmes		155	7	–	1	163
– disposals, acquisitions and investment in new businesses		52	–	–	(820)	(768)
– fair value movements on financial instruments	2	7	4	84	(179)	(84)
– currency translation on significant items		7	–	(2)	1	6
Adjusted		25,565	15,164	14,869	(654)	54,944
ECL						
Reported		(1,437)	(1,192)	(162)	35	(2,756)
Currency translation		89	30	9	1	129
Adjusted		(1,348)	(1,162)	(153)	36	(2,627)
Operating expenses						
Reported		(17,351)	(9,905)	(13,790)	(1,303)	(42,349)
Currency translation		135	18	21	49	223
Significant items		1,828	3,055	4,225	499	9,607
– costs of structural reform	3	–	4	42	112	158
– customer redress programmes		1,264	17	–	–	1,281
– goodwill impairment		431	2,956	3,962	–	7,349
– restructuring and other related costs		180	51	217	379	827
– settlements and provisions in connection with legal and regulatory matters		(69)	–	2	6	(61)
– currency translation on significant items		22	27	2	2	53
Adjusted		(15,388)	(6,832)	(9,544)	(755)	(32,519)
Share of profit in associates and joint ventures						
Reported		55	–	–	2,299	2,354
Currency translation		(1)	–	–	(2)	(3)
Adjusted		54	–	–	2,297	2,351
Profit before tax						
Reported		6,819	4,159	942	1,427	13,347
Currency translation		15	(55)	(77)	(5)	(122)
Significant items		2,049	3,066	4,307	(498)	8,924
– revenue		221	11	82	(997)	(683)
– operating expenses		1,828	3,055	4,225	499	9,607
Adjusted		8,883	7,170	5,172	924	22,149
Loans and advances to customers (net)						
Reported		443,025	346,105	246,492	1,121	1,036,743
Currency translation		12,593	7,676	5,639	45	25,953
Adjusted		455,618	353,781	252,131	1,166	1,062,696
Customer accounts						
Reported		753,769	388,723	295,880	743	1,439,115
Currency translation		14,382	8,459	8,214	37	31,092
Adjusted		768,151	397,182	304,094	780	1,470,207

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises costs associated with preparations for the UK's exit from the European Union.

4 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

**Reconciliation of reported and adjusted items (continued)**

	2018 <sup>4</sup>					Total \$m
	Footnotes	Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	
<b>Revenue</b>	<b>1</b>					
Reported		24,232	14,889	15,754	(1,095)	53,780
Currency translation		(699)	(475)	(590)	(90)	(1,854)
Significant items		18	(40)	(108)	302	172
– customer redress programmes		–	(53)	–	–	(53)
– disposals, acquisitions and investment in new businesses		2	–	–	111	113
– fair value movements on financial instruments	2	16	9	(112)	187	100
– currency translation on significant items		–	4	4	4	12
Adjusted		23,551	14,374	15,056	(883)	52,098
<b>ECL</b>						
Reported		(1,163)	(737)	26	107	(1,767)
Currency translation		91	54	8	(6)	147
Adjusted		(1,072)	(683)	34	101	(1,620)
<b>Operating expenses</b>						
Reported		(15,522)	(6,563)	(9,512)	(3,062)	(34,659)
Currency translation		625	255	304	96	1,280
Significant items		283	1	(108)	1,480	1,656
– costs of structural reform	3	2	8	41	310	361
– customer redress programmes		172	(5)	(21)	–	146
– disposals, acquisitions and investment in new businesses		52	–	–	–	52
– past service costs of guaranteed minimum pension benefits equalisation		–	–	–	228	228
– restructuring and other related costs		7	–	–	59	66
– settlements and provisions in connection with legal and regulatory matters		58	–	(132)	890	816
– currency translation on significant items		(8)	(2)	4	(7)	(13)
Adjusted		(14,614)	(6,307)	(9,316)	(1,486)	(31,723)
<b>Share of profit in associates and joint ventures</b>						
Reported		33	–	–	2,503	2,536
Currency translation		(1)	–	–	(91)	(92)
Adjusted		32	–	–	2,412	2,444
<b>Profit/(loss) before tax</b>						
Reported		7,580	7,589	6,268	(1,547)	19,890
Currency translation		16	(166)	(278)	(91)	(519)
Significant items		301	(39)	(216)	1,782	1,828
– revenue		18	(40)	(108)	302	172
– operating expenses		283	1	(108)	1,480	1,656
Adjusted		7,897	7,384	5,774	144	21,199
<b>Loans and advances to customers (net)</b>						
Reported		401,268	333,400	245,525	1,503	981,696
Currency translation		17,963	11,455	7,794	96	37,308
Adjusted		419,231	344,855	253,319	1,599	1,019,004
<b>Customer accounts</b>						
Reported		707,773	359,957	294,130	783	1,362,643
Currency translation		22,129	12,594	12,308	48	47,079
Adjusted		729,902	372,551	306,438	831	1,409,722

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises costs associated with preparations for the UK's exit from the European Union, costs to establish the UK ring-fenced bank (including the UK ServCo group) and costs associated with establishing an intermediate holding company in Hong Kong.

4 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

## Reconciliation of reported and adjusted risk-weighted assets

		At 31 Dec 2020				
		Wealth and Personal Banking	Commercial Banking	Global Banking and Markets	Corporate Centre	Total
		\$bn	\$bn	\$bn	\$bn	\$bn
	<i>Footnotes</i>					
<b>Risk-weighted assets</b>						
Reported		172.8	327.7	265.1	91.9	857.5
Adjusted	1	172.8	327.7	265.1	91.9	857.5
At 31 Dec 2019						
Risk-weighted assets						
Reported		162.6	325.9	273.4	81.5	843.4
Currency translation		2.0	6.6	3.4	0.5	12.5
Adjusted	1	164.6	332.5	276.8	82.0	855.9
At 31 Dec 2018						
Risk-weighted assets						
Reported		161.8	331.8	297.9	73.8	865.3
Currency translation		2.2	10.3	4.4	0.6	17.5
Disposals		–	–	–	(0.8)	(0.8)
– operations in Brazil		–	–	–	(0.8)	(0.8)
Adjusted	1	164.0	342.1	302.3	73.6	882.0

1 Adjusted risk-weighted assets are calculated using reported risk-weighted assets adjusted for the effects of currency translation differences and significant items.

## Wealth and Personal Banking

### 2019 compared with 2018

#### Financial performance

Adjusted profit before tax of \$8.9bn was \$1.0bn or 12% higher than in 2018. This increase reflected strong balance sheet growth, favourable market impacts of \$0.5bn in life insurance manufacturing and disposal gains of \$0.1bn. This was partly offset by increased adjusted operating expenses, driven by higher staff costs, inflation and strategic investments, as well as higher adjusted ECL.

WPB's reported profit before tax of \$6.8bn was \$0.8bn or 10% lower than in 2018. This included customer redress programme costs of \$1.3bn, mainly driven by a higher than expected increase in the volume of complaints prior to the deadline in respect of the mis-selling of payment protection insurance ('PPI') in the UK. In addition, reported results also included a goodwill impairment of \$0.4bn relating to our Private Banking business in North America, reflecting lower long-term economic growth rate assumptions. These costs are excluded from our adjusted performance.

Adjusted revenue of \$25.6bn was \$2.0bn or 9% higher, with strong performances in Hong Kong, Latin America, the UK and mainland China, partly offset by lower revenue in the US. Revenue also included disposal gains in Argentina and Mexico of \$133m.

In Retail Banking, revenue was up \$0.9bn or 6%, driven by growth in Hong Kong, Latin America and the UK, partly offset by lower revenue in the US. The increase in revenue reflected higher net interest income driven by deposit balance growth of \$38bn or 5%, particularly in Hong Kong, the UK and North America and lending balance growth of \$36n or 9%, notably from mortgages in the UK and Hong Kong. Additionally, a favourable interest rate environment contributed to higher retail margins in the first half of 2019, which began to contract in the second half following policy rate reductions. Overall, margins remained stable compared with 2018.

In Wealth Management, revenue of \$8.6bn was up \$0.9bn or 11%. This increase reflected higher life insurance manufacturing revenue (up \$0.8bn or 52%), primarily in Hong Kong, France and mainland China. This was driven by favourable market impacts of \$463m as 2019 recorded a favourable movement of \$128m, compared with an adverse movement of \$335m in 2018. This increase also reflected more favourable actuarial assumption changes of \$0.2bn and growth in the value of new business

written (up \$0.1bn or 12%). In addition, Global Private Banking revenue increased by \$0.1bn or 5%, primarily reflecting growth in investment and lending revenue in Asia. These increases were partly offset by lower investment distribution revenue (down \$0.1bn or 2%), mainly in Hong Kong, driven by lower fees from less favourable market conditions compared with 2018 and a change in the product mix of clients' investments to lower risk and lower margin products.

Adjusted ECL were \$1.3bn, up \$0.3bn or 26% from 2018, driven by higher charges related to unsecured lending, reflecting our growth strategy, notably in the US, Mexico and Hong Kong. ECL as a percentage of lending remained in line with 2018, at 0.31%, while ECL related to unsecured lending remained low at 2.2%, compared with 2.1% in 2018. In addition, ECL in 2019 included \$65m of charges in Argentina related to government bond exposures in our insurance business, as well as \$52m of charges related to economic uncertainty in Hong Kong. The net write-off in 2020 remained stable compared with 2018.

Adjusted operating expenses of \$15.4bn were \$0.8bn or 5% higher than in 2018, driven by inflation and higher staff costs as the business grew. Investment in strategic initiatives increased to grow Wealth Management in Asia, enhance our digital capabilities and drive growth in key markets through lending. IT system and infrastructure costs also rose.

## Commercial Banking

### 2019 compared with 2018

Adjusted profit before tax of \$7.2bn was \$0.2bn or 3% lower, as higher adjusted revenue was more than offset by an increase in adjusted ECL charges and higher adjusted operating expenses, as we continued to invest.

Reported results included a goodwill impairment of \$3.0bn, including \$2.5bn in our business in Europe, \$0.3bn in Latin America and \$0.1bn in the Middle East, reflecting lower long-term economic growth rate assumptions. This impairment is excluded from our adjusted performance.

Adjusted revenue of \$15.2bn was \$0.8bn or 5% higher, with growth in all regions, particularly in our largest market Hong Kong, and across all main products.

In GLCM, revenue was \$0.3bn or 5% higher, with growth across all regions except North America. The increase was mainly in Hong Kong, primarily reflecting wider margins, and in Latin America and the UK from wider margins and growth in average

deposit balances. While deposit margins were wider than in 2018, they began to contract during the second half of 2019 following interest rate cuts.

In C&L, revenue growth of \$0.3bn or 5% reflected continued lending growth in all regions, partly offset by the effects of margin compression.

In GTRF, revenue increased by \$20m or 1%, mainly from wider margins in Asia, partly offset by lower balances in Hong Kong. Revenue increased across all other regions, primarily reflecting balance growth.

Revenue growth in 'Markets products, Insurance and Investments and Other' included net gains on the revaluation of shares of \$43m in Europe, and a disposal gain of \$24m in Latin America.

Revenue across our three main products was adversely affected by customer redress provisions of \$0.1bn in the UK.

Adjusted ECL of \$1.2bn were \$0.5bn higher than in 2019, driven by an increase mainly in the UK, France and Germany, partly offset by a reduction in MENA. In addition, there were ECL charges in 2019, notably in Asia, which compared with 2018 where we recorded a low level of charges in Hong Kong and net releases in North America.

Adjusted operating expenses of \$6.8bn were \$0.5bn or 8% higher, reflecting increased investment in digital capabilities, to help enable us to reduce average onboarding time for our relationship-managed and international customers, improve our business banking applications, and provide clients with a faster, simpler and more secure payment experience through real-time payments.

---

## Global Banking and Markets

### 2019 compared with 2018

Adjusted profit before tax of \$5.2bn was \$0.6bn or 10% lower, driven by increased investment in the business and lower adjusted revenue, while adjusted ECL were at low levels against a net release in 2018.

Reported results included a goodwill impairment of \$4.0bn, primarily reflecting lower long-term economic growth rate assumptions, and the planned reshaping of the business. This impairment is excluded from our adjusted performance.

Adjusted revenue of \$14.9bn was \$0.2bn or 1% lower, and included a net favourable movement of \$224m on credit and funding valuation adjustments.

Global Markets revenue decreased by \$0.5bn or 8%, driven by low market volatility and reduced client activity due to ongoing economic uncertainty, as well as continued spread compression.

Global Banking revenue decreased \$0.1bn or 3%, reflecting a non-repeat of gains in 2018 on corporate lending restructuring, lower fees from reduced event-driven activity and the impact of tightening credit spreads on portfolio hedges. These reductions were partly offset by higher lending revenue as we grew balances, notably in Asia.

GLCM revenue increased by \$0.2bn or 6%, primarily driven by higher average deposit balances in Asia and Latin America, and wider margins in the UK from an interest rate rise in 2018, partly offset by lower revenue in the US due to lower average balances and interest rate decreases.

Securities Services revenue rose by \$0.1bn or 5%, mainly from higher interest rates in Hong Kong and the UK, as well as increased fee income reflecting higher assets under custody (up 4%) and assets under management (up 6%), although this was partly offset by margin compression.

GTRF revenue increased by 2% from growth in all regions except Europe, particularly from wider spreads and higher fees in Asia, while we continued to reduce risk-weighted assets ('RWAs') in all regions.

Adjusted ECL charges were \$0.2bn, compared with a net release of \$34m in 2018. ECL charges in 2018 were more than offset by releases that largely related to exposures within the oil and gas sector in the US.

Adjusted operating expenses increased \$0.2bn or 2% as we invested in GLCM and Securities Services to support business growth, in regulatory programmes, and from higher amortised investment costs, were more than offset by a lower performance-related pay accrual.

---

## Corporate Centre

### 2019 compared with 2018

Adjusted profit before tax of \$0.9bn was \$0.8bn higher than in 2018.

Adjusted revenue of negative \$0.7bn in 2019 was \$0.2bn favourable compared with 2018, largely reflecting higher revenue in Central Treasury.

Central Treasury revenue of \$0.2bn was \$0.5bn higher, reflecting:

- favourable fair value movements relating to the economic hedging of interest rate and exchange rate risk on our long-term debt with long-term derivatives of \$0.1bn in 2019, compared with adverse movements of \$0.3bn in 2018; and
- the non-recurrence of a \$0.2bn loss in 2018 arising from adverse swap mark-to-market movements following a bond reclassification under IFRS 9 'Financial Instruments'.

Other income decreased by \$0.2bn. In 2019, this included \$0.2bn of lease finance expenses following the adoption of IFRS 16 'Leases' from 1 January 2019. Prior to this, lease expenses were recorded within operating expenses.

Adjusted ECL releases of \$36m in 2019 compared with releases of \$101m in 2018, both related to our legacy credit portfolio.

Adjusted operating expenses of \$0.8bn were \$0.7bn or 49% lower. This reflected a change in the allocation of certain costs to global businesses, which reduced costs retained in Corporate Centre, the impact of the adoption of IFRS 16 'Leases' and lower costs relating to legacy portfolios.

Adjusted income from associates decreased by \$0.1bn or 5%, reflecting a lower share of profit from SABB as a result of higher ECL charges and other expenses relating to the merger with Alawwal bank, although share of profit from BoCom increased.

Supplementary tables for WPB and GBM

WPB adjusted performance by business unit

A breakdown of WPB by business unit is presented below to reflect the basis of how the revenue performance of the business units is assessed and managed.

WPB – summary (adjusted basis)

	Footnotes	Consists of <sup>1</sup>				
		Total WPB \$m	Banking operations \$m	Insurance manufacturing \$m	Global Private Banking \$m	Asset management \$m
<b>2020</b>						
Net operating income before change in expected credit losses and other credit impairment charges	2	22,013	17,346	1,874	1,745	1,048
– net interest income		15,090	12,181	2,241	670	(2)
– net fee income/(expense)		5,408	4,094	(518)	828	1,004
– other income		1,515	1,071	151	247	46
ECL		(2,855)	(2,707)	(80)	(67)	(1)
<b>Net operating income</b>		<b>19,158</b>	<b>14,639</b>	<b>1,794</b>	<b>1,678</b>	<b>1,047</b>
Total operating expenses		(15,024)	(12,422)	(479)	(1,390)	(733)
<b>Operating profit</b>		<b>4,134</b>	<b>2,217</b>	<b>1,315</b>	<b>288</b>	<b>314</b>
Share of profit in associates and joint ventures		6	5	1	–	–
<b>Profit before tax</b>		<b>4,140</b>	<b>2,222</b>	<b>1,316</b>	<b>288</b>	<b>314</b>
<b>2019</b>						
Net operating income before change in expected credit losses and other credit impairment charges	2	25,565	20,024	2,639	1,878	1,024
– net interest income		17,423	14,371	2,167	891	(6)
– net fee income/(expense)		5,621	4,582	(717)	784	972
– other income		2,521	1,071	1,189	203	58
ECL		(1,348)	(1,247)	(80)	(21)	–
Net operating income		24,217	18,777	2,559	1,857	1,024
Total operating expenses		(15,388)	(12,722)	(471)	(1,447)	(748)
Operating profit		8,829	6,055	2,088	410	276
Share of profit in associates and joint ventures		54	11	43	–	–
Profit before tax		8,883	6,066	2,131	410	276

WPB – summary (adjusted basis) (continued)

	Footnotes	Consists of <sup>1</sup>				
		Total WPB \$m	Banking operations \$m	Insurance manufacturing \$m	Global Private Banking \$m	Asset management \$m
<b>2018</b>						
Net operating income before change in expected credit losses and other credit impairment charges	2	23,551	18,860	1,868	1,783	1,040
– net interest income		16,418	13,477	2,060	884	(3)
– net fee income/(expense)		5,774	4,594	(593)	743	1,030
– other income		1,359	789	401	156	13
ECL		(1,072)	(1,079)	(1)	8	–
Net operating income		22,479	17,781	1,867	1,791	1,040
Total operating expenses		(14,614)	(12,023)	(437)	(1,449)	(705)
Operating profit		7,865	5,758	1,430	342	335
Share of profit in associates and joint ventures		32	1	31	–	–
Profit before tax		7,897	5,759	1,461	342	335

1 The results presented for insurance manufacturing operations are shown before elimination of inter-company transactions with HSBC non-insurance operations. These eliminations are presented within Banking operations.

2 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue. WPB insurance manufacturing adjusted revenue of \$1,874m (2019: \$2,639m, 2018: \$1,868m) was disclosed within the management view of adjusted revenue on page 31, as follows: Wealth Management \$1,816m (2019: \$2,464m, 2018: \$1,621m) and Other \$58m (2019: \$175m, 2018: \$247m).

WPB insurance manufacturing adjusted results

The following table shows the results of our insurance manufacturing operations by income statement line item. It shows

the results of insurance manufacturing operations for WPB and for all global business segments in aggregate, and separately the insurance distribution income earned by HSBC bank channels.



Adjusted results of insurance manufacturing operations and insurance distribution income earned by HSBC bank channels<sup>1, 2</sup>

	2020		2019		2018	
	WPB \$m	All global businesses \$m	WPB \$m	All global businesses \$m	WPB \$m	All global businesses \$m
Net interest income	2,241	2,408	2,167	2,308	2,060	2,217
Net fee income/(expense)	(518)	(556)	(717)	(742)	(593)	(567)
– fee income	110	131	108	130	186	277
– fee expense	(628)	(687)	(825)	(872)	(779)	(844)
Net income from/(expenses) financial instruments held for trading or managed on a fair value basis	76	95	(82)	(82)	84	27
Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss	2,182	2,137	3,582	3,565	(1,600)	(1,627)
Gains less losses from financial investments	13	13	5	5	54	56
Net insurance premium income	9,717	10,212	10,398	10,763	10,280	10,824
Other operating income	336	351	1,789	1,805	796	783
<i>Of which: PVI</i>	370	382	1,718	1,763	678	685
<b>Total operating income</b>	<b>14,047</b>	<b>14,660</b>	17,142	17,622	11,081	11,713
Net insurance claims and benefits paid and movement in liabilities to policyholders	(12,173)	(12,683)	(14,503)	(14,902)	(9,213)	(9,693)
<b>Net operating income before change in expected credit losses and other credit impairment charges</b>	<b>1,874</b>	<b>1,977</b>	2,639	2,720	1,868	2,020
Change in expected credit losses and other credit impairment charges	(80)	(92)	(80)	(86)	(1)	(1)
<b>Net operating income</b>	<b>1,794</b>	<b>1,885</b>	2,559	2,634	1,867	2,019
Total operating expenses	(479)	(509)	(471)	(497)	(437)	(462)
<b>Operating profit</b>	<b>1,315</b>	<b>1,376</b>	2,088	2,137	1,430	1,557
Share of profit in associates and joint ventures	1	1	43	43	31	31
<b>Profit before tax of insurance manufacturing operations</b>	<b>1,316</b>	<b>1,377</b>	2,131	2,180	1,461	1,588
Annualised new business premiums of insurance manufacturing operations	2,257	2,307	3,324	3,403	3,179	3,255
Insurance distribution income earned by HSBC bank channels	737	801	945	1,041	949	1,040

- 1 Adjusted results are derived by adjusting for year-on-year effects of foreign currency translation differences, and the effect of significant items that distort year-on-year comparisons. There are no significant items included within insurance manufacturing, and the impact of foreign currency translation on all global businesses' profit before tax is 2019: \$45m favourable (reported: \$2,135m), 2018: \$15m favourable (reported: \$1,573m).
- 2 The results presented for insurance manufacturing operations are shown before elimination of inter-company transactions with HSBC non-insurance operations.
- 3 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.
- 4 The effect on the insurance manufacturing operations of applying hyperinflation accounting in Argentina resulted in an increase in adjusted revenue in 2020 of \$9m (2019: reduction of \$1m, 2018: reduction of \$8m) and an increase in profit before tax in 2020 of \$12m (2019: increase of \$1m, 2018: reduction of \$3m). These effects are recorded within 'All global businesses'.

## Global businesses

### Insurance manufacturing

The following commentary, unless otherwise specified, relates to the 'All global businesses' results.

HSBC recognises the present value of long-term in-force insurance contracts and investment contracts with discretionary participation features ('PVIF') as an asset on the balance sheet. The overall balance sheet equity, including PVIF, is therefore a measure of the embedded value in the insurance manufacturing entities, and the movement in this embedded value in the period drives the overall income statement result.

Adjusted profit before tax of \$1.4bn decreased by \$0.8bn or 37% compared with 2019.

Net operating income before change in expected credit losses and other credit impairment changes was \$0.7bn or 27% lower than in 2019. This reflected the following:

- 'Net income from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss' of \$2.1bn in 2020 compared with \$3.6bn in 2019. This decrease primarily reflected less favourable equity market performance, compared with 2019 in France and Hong Kong, due to the impact of the Covid-19 outbreak on the equity and unit trust assets supporting insurance and investment contracts. While there was strong investment performance within the portfolio in light of volatile markets during the year, the overall fair value gains were lower compared with 2019.

This adverse movement resulted in a corresponding movement in liabilities to policyholders and PVIF (see 'Other operating income' below). This reflected the extent to which policyholders and shareholders respectively participate in the investment performance of the associated assets.

- Net insurance premium income of \$10.2bn was \$0.6bn lower than in 2019, primarily reflecting lower new business volumes due to the Covid-19 outbreak, particularly in France and Hong Kong, partly offset by lower reinsurance premiums ceded in Hong Kong.
- Other operating income of \$0.4bn decreased by \$1.5bn compared with 2019, mainly from adverse movements in PVIF. This included a reduction of \$0.8bn due to assumption changes and experience variances, mainly in Hong Kong and France due to the effect of interest rate changes. In addition, the value of

new business written fell by \$0.4bn, primarily in Hong Kong, as sales volumes decreased.

- Net insurance claims and benefits paid and movement in liabilities to policyholders was \$2.2bn lower, primarily due to lower returns on financial assets supporting contracts where the policyholder is subject to part or all of the investment risk. New business volumes were lower, particularly in Hong Kong and France, partly offset by lower reinsurance arrangements in Hong Kong.
- Change in expected credit losses and other credit impairment charges ('ECL') of \$92m was \$6m higher compared with 2019, mainly from charges relating to the global impact of the Covid-19 outbreak on the forward economic outlook, partly offset by the ECL release on Argentina sovereign exposure due to the debt restructure in 2020.

Adjusted operating expenses of \$0.5bn increased by 2% compared with 2019, reflecting investments in core insurance functions and capabilities during the period.

Annualised new business premiums ('ANP') is used to assess new insurance premium generation by the business. It is calculated as 100% of annualised first year regular premiums and 10% of single premiums, before reinsurance ceded. Lower ANP during the period reflected a reduction in new business volumes, mainly in Hong Kong and France.

Insurance distribution income from HSBC channels included \$470m (2019: \$658m; 2018: \$644m) on HSBC manufactured products, for which a corresponding fee expense is recognised within insurance manufacturing, and \$331m (2019: \$382m; 2018: \$397m) on products manufactured by third-party providers. The WPB component of this distribution income was \$423m (2019: \$583m; 2018: \$575m) from HSBC manufactured products and \$314m (2019: \$362m; 2018: \$374m) from third-party products.

### WPB: Client assets and funds under management

The following table shows the client assets and funds under management, including self-directed client investments and execution-only trades, across our WPB global business. Funds under management represents assets managed, either actively or passively, on behalf of our customers.

### WPB – reported client assets and funds under management<sup>1</sup>

	2020 \$bn	2019 \$bn
Global Private Banking client assets	394	361
– managed by Global Asset Management	66	61
– external managers, direct securities and other	328	300
Retail wealth balances	407	380
– managed by Global Asset Management	219	199
– external managers, direct securities and other	188	181
Asset Management third-party distribution	317	247
<b>Closing balance</b>	<b>1,118</b>	<b>988</b>

<sup>1</sup> Client assets and funds distributed and under management are not reported on the Group's balance sheet, except where it is deemed that we are acting as principal rather than agent in our role as investment manager. Customer deposits included in client assets are on balance sheet.

### WPB wealth balances

The following table shows the consolidated areas of focus across all WPB wealth balances.

### WPB wealth balances

	2020 \$bn	2019 \$bn
Client assets and funds under management	1,118	988
Premier and Jade deposits <sup>1</sup>	470	433
<b>Total</b>	<b>1,588</b>	<b>1,421</b>

<sup>1</sup> Premier and Jade deposits, which include Prestige deposits in Hang Seng Bank, form part of the total WPB customer accounts balance of \$835bn on page 99 (31 December 2019: \$754bn).

## Asset Management: Funds under management

The following table shows the funds under management of our Asset Management business. Funds under management represents assets managed, either actively or passively, on behalf

of our customers. Funds under management are not reported on the Group's balance sheet, except where it is deemed that we are acting as principal rather than agent in our role as investment manager.

### Asset Management – reported funds under management

	2020 \$bn	2019 \$bn	2018 \$bn
Opening balance	506	444	462
Net new money	53	30	8
Value change	17	30	(14)
Exchange and other	26	2	(12)
<b>Closing balance</b>	<b>602</b>	<b>506</b>	<b>444</b>

### Asset Management – reported funds under management by geography

	2020 \$bn	2019 \$bn	2018 \$bn
Europe	346	287	235
Asia	176	161	164
MENA	6	6	2
North America	65	44	36
Latin America	9	8	7
<b>Closing balance</b>	<b>602</b>	<b>506</b>	<b>444</b>

At 31 December 2020, Asset Management funds under management amounted to \$602bn, an increase of \$96bn or 19%. The increase reflected strong net new money, primarily from money market funds and passive investment products. In addition, the growth reflected positive market performance and favourable foreign exchange translation.

## Global Private Banking: client assets

The following table shows the client assets of our Global Private Banking business which are translated at the rates of exchange applicable for their respective year-ends, with the effects of currency translation reported separately.

### Global Private Banking – reported client assets<sup>1</sup>

	2020 \$bn	2019 \$bn	2018 \$bn
<b>At 1 Jan</b>	<b>361</b>	<b>309</b>	<b>330</b>
Net new money	6	23	10
Value change	6	23	(17)
Disposals	–	–	–
Exchange and other	21	6	(14)
<b>At 31 Dec</b>	<b>394</b>	<b>361</b>	<b>309</b>

### Global Private Banking – reported client assets by geography<sup>1</sup>

	2020 \$bn	2019 \$bn	2018 \$bn
Europe	174	171	149
Asia	176	151	124
North America	44	39	36
<b>At 31 Dec</b>	<b>394</b>	<b>361</b>	<b>309</b>

<sup>1</sup> Client assets are not reported on the Group's balance sheet, except where it is deemed that we are acting as principal rather than agent in our role as investment manager. Customer deposits included in these client assets are on balance sheet.

## GBM: Securities Services and Issuer Services

### Assets held in custody

Custody is the safekeeping and servicing of securities and other financial assets on behalf of clients. Assets held in custody are not reported on the Group's balance sheet, except where it is deemed that we are acting as principal rather than agent in our role as investment manager. At 31 December 2020, we held \$10.0tn of assets as custodian, 17% higher than at 31 December 2019. This increase was driven by favourable market movements and the effect of currency translation differences globally. In addition, there were increases from new client asset inflows, notably in Asia.

### Assets under administration

Our assets under administration business, which includes the provision of bond and loan administration services, transfer agency services and the valuation of portfolios of securities and other financial assets on behalf of clients, complements the custody business. At 31 December 2020, the value of assets held under administration by the Group amounted to \$4.5tn, which was 13% higher than at 31 December 2019. This increase was mainly driven by the favourable effect of currency translation differences in Europe and favourable market movements globally. It also included increases from the onboarding of new client assets, notably in Europe.

## Geographical regions

### Analysis of reported results by geographical regions

#### HSBC reported profit/(loss) before tax and balance sheet data

	Footnotes	2020						Total \$m
		Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Intra-HSBC \$m	
Net interest income		5,695	14,318	1,465	2,836	1,960	1,304	27,578
Net fee income		3,499	5,418	695	1,795	467	–	11,874
Net income from financial instruments held for trading or managed on a fair value basis		3,266	4,273	402	997	593	51	9,582
Net income from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit and loss		327	1,699	–	–	55	–	2,081
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss		1,747	17	3	2	40	(1,354)	455
Other income/(expense)	1	3,885	1,197	63	745	(95)	(6,936)	(1,141)
<b>Net operating income before change in expected credit losses and other credit impairment charges</b>	2	<b>18,419</b>	<b>26,922</b>	<b>2,628</b>	<b>6,375</b>	<b>3,020</b>	<b>(6,935)</b>	<b>50,429</b>
Change in expected credit losses and other credit impairment charges		(3,751)	(2,284)	(758)	(900)	(1,124)	–	(8,817)
<b>Net operating income</b>		<b>14,668</b>	<b>24,638</b>	<b>1,870</b>	<b>5,475</b>	<b>1,896</b>	<b>(6,935)</b>	<b>41,612</b>
Total operating expenses excluding impairment of goodwill and other intangible assets		(17,860)	(13,584)	(1,521)	(5,081)	(1,933)	6,935	(33,044)
Impairment of goodwill and other intangible assets		(1,014)	(78)	(65)	(226)	(5)	–	(1,388)
<b>Operating profit/(loss)</b>		<b>(4,206)</b>	<b>10,976</b>	<b>284</b>	<b>168</b>	<b>(42)</b>	<b>–</b>	<b>7,180</b>
Share of profit/(loss) in associates and joint ventures		1	1,856	(265)	–	5	–	1,597
<b>Profit/(loss) before tax</b>		<b>(4,205)</b>	<b>12,832</b>	<b>19</b>	<b>168</b>	<b>(37)</b>	<b>–</b>	<b>8,777</b>
		%	%	%	%	%	%	%
Share of HSBC's profit before tax		(47.9)	146.2	0.2	1.9	(0.4)	–	100.0
Cost efficiency ratio		102.5	50.7	60.4	83.2	64.2	–	68.3
<b>Balance sheet data</b>		<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>
Loans and advances to customers (net)		408,495	473,165	28,700	107,969	19,658	–	1,037,987
Total assets		1,416,111	1,206,404	68,860	373,167	49,703	(130,081)	2,984,164
Customer accounts		629,647	762,406	41,221	182,028	27,478	–	1,642,780
Risk-weighted assets	3	284,322	384,228	60,181	117,755	35,240	–	857,520
		2019						
Net interest income		5,601	16,607	1,781	3,241	2,061	1,171	30,462
Net fee income		3,668	5,325	685	1,804	540	1	12,023
Net income from financial instruments held for trading or managed on a fair value basis		3,785	4,735	327	873	883	(372)	10,231
Net income from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit and loss		1,656	1,803	–	–	14	5	3,478
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss		1,516	28	1	31	41	(805)	812
Other income/(expense)	1	1,830	1,921	916	638	(23)	(6,190)	(908)
Net operating income before change in expected credit losses and other credit impairment charges	2	18,056	30,419	3,710	6,587	3,516	(6,190)	56,098
Change in expected credit losses and other credit impairment charges		(938)	(724)	(117)	(237)	(740)	–	(2,756)
Net operating income		17,118	29,695	3,593	6,350	2,776	(6,190)	53,342
Total operating expenses excluding impairment of goodwill and other intangible assets		(19,209)	(13,284)	(1,452)	(5,150)	(2,050)	6,190	(34,955)
Impairment of goodwill and other intangible assets		(2,550)	(13)	(97)	(433)	(339)	(3,962)	(7,394)
<b>Operating profit/(loss)</b>		<b>(4,641)</b>	<b>16,398</b>	<b>2,044</b>	<b>767</b>	<b>387</b>	<b>(3,962)</b>	<b>10,993</b>
Share of profit/(loss) in associates and joint ventures		(12)	2,070	283	–	13	–	2,354
<b>Profit/(loss) before tax</b>		<b>(4,653)</b>	<b>18,468</b>	<b>2,327</b>	<b>767</b>	<b>400</b>	<b>(3,962)</b>	<b>13,347</b>
		%	%	%	%	%	%	%
Share of HSBC's profit before tax		(34.9)	138.4	17.4	5.7	3.0	(29.6)	100.0
Cost efficiency ratio		120.5	43.7	41.8	84.8	67.9	–	75.5
<b>Balance sheet data</b>		<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>	<b>\$m</b>
Loans and advances to customers (net)		393,850	477,727	28,556	113,474	23,136	–	1,036,743
Total assets		1,248,205	1,102,805	65,369	377,095	52,879	(131,201)	2,715,152
Customer accounts		528,718	697,358	38,126	146,676	28,237	–	1,439,115
Risk-weighted assets	3	280,983	366,375	57,492	121,953	38,460	–	843,395

HSBC reported profit/(loss) before tax and balance sheet data (continued)

	2018						
	Europe	Asia	MENA	North America	Latin America	Intra-HSBC items	Total
Footnotes	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Net interest income	6,841	16,108	1,763	3,521	2,020	236	30,489
Net fee income	3,996	5,676	607	1,854	498	(11)	12,620
Net income from financial instruments held for trading or managed on a fair value basis	3,942	4,134	285	728	736	(294)	9,531
Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit and loss	(789)	(717)	—	—	18	—	(1,488)
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	601	(26)	(1)	36	27	58	695
Other income/(expense)	<sup>1</sup> 3,113	3,609	33	586	(237)	(5,171)	1,933
Net operating income before loan impairment (charges)/recoveries and other credit risk provisions	<sup>2</sup> 17,704	28,784	2,687	6,725	3,062	(5,182)	53,780
Change in expected credit losses and other credit impairment (charges)/recoveries	(609)	(602)	(209)	223	(570)	—	(1,767)
Net operating income	17,095	28,182	2,478	6,948	2,492	(5,182)	52,013
Total operating expenses excluding impairment of goodwill and other intangible assets	(17,912)	(12,449)	(1,357)	(6,151)	(1,935)	5,182	(34,622)
Impairment of goodwill and other intangible assets	(22)	(17)	—	2	—	—	(37)
Operating profit/(loss)	(839)	15,716	1,121	799	557	—	17,354
Share of profit in associates and joint ventures	24	2,074	436	—	2	—	2,536
Profit/(loss) before tax	(815)	17,790	1,557	799	559	—	19,890
	%	%	%	%	%		%
Share of HSBC's profit before tax	(4.1)	89.5	7.8	4.0	2.8		100.0
Cost efficiency ratio	101.3	43.3	50.5	91.4	63.2		64.4
Balance sheet data	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Loans and advances to customers (net)	373,073	450,545	28,824	108,146	21,108	—	981,696
Total assets	1,150,235	1,047,636	57,455	390,410	51,923	(139,535)	2,558,124
Customer accounts	503,154	664,824	35,408	133,291	25,966	—	1,362,643
Risk-weighted assets	<sup>3</sup> 298,056	363,894	56,689	131,582	38,341	—	865,318

<sup>1</sup> 'Other income/(expense)' in this context comprises where applicable net income/expense from other financial instruments designated at fair value, gains less losses from financial investments, dividend income, net insurance premium income and other operating income less net insurance claims and benefits paid and movement in liabilities to policyholders.

<sup>2</sup> Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

<sup>3</sup> Risk-weighted assets are non-additive across geographical regions due to market risk diversification effects within the Group.

## Geographical regions

### Reconciliation of reported and adjusted items – geographical regions

#### Reconciliation of reported and adjusted items

	Footnotes	2020					
		Europe	Asia	MENA	North America	Latin America	Total
		\$m	\$m	\$m	\$m	\$m	\$m
<b>Revenue</b>	1						
Reported	2	18,419	26,922	2,628	6,375	3,020	50,429
Significant items		(242)	(37)	–	43	(3)	(63)
– customer redress programmes		21	–	–	–	–	21
– disposals, acquisitions and investment in new businesses		–	–	–	10	–	10
– fair value movements on financial instruments	3	(254)	(5)	–	(2)	(3)	(264)
– restructuring and other related costs	2,4	(9)	(32)	–	35	–	170
<b>Adjusted</b>	2	<b>18,177</b>	<b>26,885</b>	<b>2,628</b>	<b>6,418</b>	<b>3,017</b>	<b>50,366</b>
<b>ECL</b>							
Reported		(3,751)	(2,284)	(758)	(900)	(1,124)	(8,817)
<b>Adjusted</b>		<b>(3,751)</b>	<b>(2,284)</b>	<b>(758)</b>	<b>(900)</b>	<b>(1,124)</b>	<b>(8,817)</b>
<b>Operating expenses</b>							
Reported	2	(18,874)	(13,662)	(1,586)	(5,307)	(1,938)	(34,432)
Significant items		2,203	171	83	601	91	2,973
– customer redress programmes		(54)	–	–	–	–	(54)
– impairment of goodwill and other intangibles		803	–	64	223	–	1,090
– past service costs of guaranteed minimum pension benefits equalisation		17	–	–	–	–	17
– restructuring and other related costs	2,5	1,425	171	19	378	91	1,908
– settlements and provisions in connection with legal and regulatory matters		12	–	–	–	–	12
<b>Adjusted</b>	2	<b>(16,671)</b>	<b>(13,491)</b>	<b>(1,503)</b>	<b>(4,706)</b>	<b>(1,847)</b>	<b>(31,459)</b>
<b>Share of profit/(loss) in associates and joint ventures</b>							
Reported		1	1,856	(265)	–	5	1,597
Significant items		–	–	462	–	–	462
– impairment of goodwill	6	–	–	462	–	–	462
<b>Adjusted</b>		<b>1</b>	<b>1,856</b>	<b>197</b>	<b>–</b>	<b>5</b>	<b>2,059</b>
<b>Profit/(loss) before tax</b>							
Reported		(4,205)	12,832	19	168	(37)	8,777
Significant items		1,961	134	545	644	88	3,372
– revenue	2	(242)	(37)	–	43	(3)	(63)
– operating expenses	2	2,203	171	83	601	91	2,973
– share of profit in associates and joint ventures		–	–	462	–	–	462
<b>Adjusted</b>		<b>(2,244)</b>	<b>12,966</b>	<b>564</b>	<b>812</b>	<b>51</b>	<b>12,149</b>
<b>Loans and advances to customers (net)</b>							
Reported		408,495	473,165	28,700	107,969	19,658	1,037,987
<b>Adjusted</b>		<b>408,495</b>	<b>473,165</b>	<b>28,700</b>	<b>107,969</b>	<b>19,658</b>	<b>1,037,987</b>
<b>Customer accounts</b>							
Reported		629,647	762,406	41,221	182,028	27,478	1,642,780
<b>Adjusted</b>		<b>629,647</b>	<b>762,406</b>	<b>41,221</b>	<b>182,028</b>	<b>27,478</b>	<b>1,642,780</b>

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Amounts are non-additive across geographical regions due to inter-company transactions within the Group.

3 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

4 Comprises losses associated with the RWA reduction commitments and gains relating to the business update in February 2020.

5 Includes impairment of software intangible assets of \$189m (of the total software intangible asset impairment of \$1,347m) and impairment of tangible assets of \$197m.

6 During the year, The Saudi British Bank ('SABB'), an associate of HSBC, impaired the goodwill that arose following the merger with Alawwal bank in 2019. HSBC's post-tax share of the goodwill impairment was \$462m.

Reconciliation of reported and adjusted items (continued)

	Footnotes	2020				
		UK \$m	Hong Kong \$m	Mainland China \$m	US \$m	Mexico \$m
<b>Revenue</b>						
Reported	1	13,886	16,345	3,088	4,590	2,234
Significant items		(187)	15	(5)	41	(13)
– customer redress programmes		21	–	–	–	–
– disposals, acquisitions and investment in new businesses		–	–	–	10	–
– fair value movements on financial instruments	2	(256)	–	(1)	(2)	(1)
– restructuring and other related costs	3	48	15	(4)	33	(12)
<b>Adjusted</b>		<b>13,699</b>	<b>16,360</b>	<b>3,083</b>	<b>4,631</b>	<b>2,221</b>
<b>ECL</b>						
Reported		(3,256)	(824)	(114)	(622)	(1,050)
<b>Adjusted</b>		<b>(3,256)</b>	<b>(824)</b>	<b>(114)</b>	<b>(622)</b>	<b>(1,050)</b>
<b>Operating expenses</b>						
Reported		(14,855)	(7,312)	(2,211)	(4,194)	(1,376)
Significant items		1,318	100	19	556	42
– customer redress programmes		(54)	–	–	–	–
– impairment of goodwill and other intangibles		650	–	–	223	–
– past service costs of guaranteed minimum pension benefits equalisation		17	–	–	–	–
– restructuring and other related costs		693	100	19	333	42
– settlements and provisions in connection with legal and regulatory matters		12	–	–	–	–
<b>Adjusted</b>		<b>(13,537)</b>	<b>(7,212)</b>	<b>(2,192)</b>	<b>(3,638)</b>	<b>(1,334)</b>
<b>Share of profit/(loss) in associates and joint ventures</b>						
Reported		1	(2)	1,849	–	5
Significant items		–	–	–	–	–
– impairment of goodwill		–	–	–	–	–
<b>Adjusted</b>		<b>1</b>	<b>(2)</b>	<b>1,849</b>	<b>–</b>	<b>5</b>
<b>Profit/(loss) before tax</b>						
Reported		(4,224)	8,207	2,612	(226)	(187)
Significant items		1,131	115	14	597	29
– revenue		(187)	15	(5)	41	(13)
– operating expenses		1,318	100	19	556	42
– share of profit in associates and joint ventures		–	–	–	–	–
<b>Adjusted</b>		<b>(3,093)</b>	<b>8,322</b>	<b>2,626</b>	<b>371</b>	<b>(158)</b>
<b>Loans and advances to customers (net)</b>						
Reported		314,530	302,454	46,113	58,082	17,296
<b>Adjusted</b>		<b>314,530</b>	<b>302,454</b>	<b>46,113</b>	<b>58,082</b>	<b>17,296</b>
<b>Customer accounts</b>						
Reported		504,275	531,489	56,826	117,485	22,220
<b>Adjusted</b>		<b>504,275</b>	<b>531,489</b>	<b>56,826</b>	<b>117,485</b>	<b>22,220</b>

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises losses associated with the RWA reduction commitments and gains relating to the business update in February 2020.

## Geographical regions

### Reconciliation of reported and adjusted items (continued)

	Footnotes	2019					Total \$m
		Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	
Revenue	1						
Reported	2	18,056	30,419	3,710	6,587	3,516	56,098
Currency translation	2	125	34	(26)	(17)	(613)	(471)
Significant items		30	35	(826)	68	10	(683)
– customer redress programmes		163	–	–	–	–	163
– disposals, acquisitions and investment in new businesses		–	–	(828)	59	1	(768)
– fair value movements on financial instruments	3	(137)	35	–	9	9	(84)
– currency translation on significant items		4	–	2	–	–	6
Adjusted	2	18,211	30,488	2,858	6,638	2,913	54,944
ECL							
Reported		(938)	(724)	(117)	(237)	(740)	(2,756)
Currency translation		(2)	–	2	–	129	129
Adjusted		(940)	(724)	(115)	(237)	(611)	(2,627)
Operating expenses							
Reported	2,5	(21,759)	(13,297)	(1,549)	(5,583)	(2,389)	(42,349)
Currency translation	2	(166)	25	28	11	351	223
Significant items	5	4,495	126	112	543	369	9,607
– costs of structural reform	4	154	4	–	–	–	158
– customer redress programmes		1,281	–	–	–	–	1,281
– goodwill impairment	5	2,522	–	97	431	337	7,349
– restructuring and other related costs		538	123	15	113	38	827
– settlements and provisions in connection with legal and regulatory matters		(60)	(1)	–	–	–	(61)
– currency translation on significant items		60	–	–	(1)	(6)	53
Adjusted	5	(17,430)	(13,146)	(1,409)	(5,029)	(1,669)	(32,519)
Share of profit/(loss) in associates and joint ventures							
Reported		(12)	2,070	283	–	13	2,354
Currency translation		–	(1)	–	–	(2)	(3)
Adjusted		(12)	2,069	283	–	11	2,351
Profit/(loss) before tax							
Reported	5	(4,653)	18,468	2,327	767	400	13,347
Currency translation	5	(43)	58	4	(6)	(135)	(122)
Significant items		4,525	161	(714)	611	379	8,924
– revenue		30	35	(826)	68	10	(683)
– operating expenses		4,495	126	112	543	369	9,607
Adjusted	5	(171)	18,687	1,617	1,372	644	22,149
Loans and advances to customers (net)							
Reported		393,850	477,727	28,556	113,474	23,136	1,036,743
Currency translation		18,021	9,114	(537)	964	(1,609)	25,953
Adjusted		411,871	486,841	28,019	114,438	21,527	1,062,696
Customer accounts							
Reported		528,718	697,358	38,126	146,676	28,237	1,439,115
Currency translation		22,977	10,172	(731)	979	(2,305)	31,092
Adjusted		551,695	707,530	37,395	147,655	25,932	1,470,207

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Amounts are non-additive across geographical regions due to inter-company transactions within the Group.

3 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

4 Comprises costs associated with preparations for the UK's exit from the European Union.

5 Amounts are non-additive across geographical regions due to goodwill impairment recognised on the Global Banking and Markets cash-generating unit, which is monitored on a global basis.



Reconciliation of reported and adjusted items (continued)

	2019				
	UK \$m	Hong Kong \$m	Mainland China \$m	US \$m	Mexico \$m
Revenue					
Reported	13,538	19,412	3,101	4,638	2,555
Currency translation	65	192	—	—	(256)
Significant items	29	26	1	66	7
– customer redress programmes	162	—	—	—	—
– disposals, acquisitions and investment in new businesses	—	—	—	59	—
– fair value movements on financial instruments	(139)	26	1	7	8
– currency translation on significant items	6	—	—	—	(1)
Adjusted	13,632	19,630	3,102	4,704	2,306
ECL					
Reported	(714)	(459)	(129)	(170)	(491)
Currency translation	(2)	(4)	—	—	49
Adjusted	(716)	(463)	(129)	(170)	(442)
Operating expenses					
Reported	(16,157)	(6,935)	(2,111)	(4,033)	(1,390)
Currency translation	(63)	(66)	(5)	—	141
Significant items	1,805	65	6	93	18
– costs of structural reform	101	4	—	—	—
– customer redress programmes	1,281	—	—	—	—
– restructuring and other related costs	405	61	6	93	20
– settlements and provisions in connection with legal and regulatory matters	8	(1)	—	—	—
– currency translation on significant items	10	1	—	—	(2)
Adjusted	(14,415)	(6,936)	(2,110)	(3,940)	(1,231)
Share of profit/(loss) in associates and joint ventures					
Reported	(12)	31	2,016	—	13
Currency translation	—	1	1	—	(2)
Adjusted	(12)	32	2,017	—	11
Profit/(loss) before tax					
Reported	(3,345)	12,049	2,877	435	687
Currency translation	—	123	(4)	—	(68)
Significant items	1,834	91	7	159	25
– revenue	29	26	1	66	7
– operating expenses	1,805	65	6	93	18
Adjusted	(1,511)	12,263	2,880	594	644
Loans and advances to customers (net)					
Reported	303,041	306,964	42,380	63,588	20,426
Currency translation	9,925	1,403	2,802	—	(1,033)
Adjusted	312,966	308,367	45,182	63,588	19,393
Customer accounts					
Reported	419,642	499,955	48,323	90,834	23,051
Currency translation	13,744	2,286	3,194	—	(1,166)
Adjusted	433,386	502,241	51,517	90,834	21,885

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises costs associated with preparations for the UK's exit from the European Union.

## Geographical regions

### Reconciliation of reported and adjusted items (continued)

	Footnotes	2018					
		Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Total \$m
Revenue	1						
Reported		17,704	28,784	2,687	6,725	3,062	53,780
Currency translation	2	(760)	(263)	(37)	(57)	(803)	(1,854)
Significant items		105	(35)	(1)	97	6	172
– customer redress programmes		(53)	–	–	–	–	(53)
– disposals, acquisitions and investment in new businesses		(5)	–	–	103	15	113
– fair value movements on financial investments	3	156	(38)	(1)	(8)	(9)	100
– currency translation on significant items		7	3	–	2	–	12
Adjusted	2	17,049	28,486	2,649	6,765	2,265	52,098
ECL							
Reported		(609)	(602)	(209)	223	(570)	(1,767)
Currency translation		5	6	17	(2)	121	147
Adjusted		(604)	(596)	(192)	221	(449)	(1,620)
Operating expenses							
Reported	2	(17,934)	(12,466)	(1,357)	(6,149)	(1,935)	(34,659)
Currency translation	2	530	185	47	33	551	1,280
Significant items		664	16	–	976	–	1,656
– costs of structural reform	4	352	9	–	–	–	361
– customer redress programmes		146	–	–	–	–	146
– disposals, acquisitions and investment in new businesses		52	–	–	–	–	52
– past service costs of guaranteed minimum pension benefits equalisation		228	–	–	–	–	228
– restructuring and other related costs		46	7	–	13	–	66
– settlements and provisions in connection with legal and regulatory matters		(147)	–	–	963	–	816
– currency translation on significant items		(13)	–	–	–	–	(13)
Adjusted	2	(16,740)	(12,265)	(1,310)	(5,140)	(1,384)	(31,723)
Share of profit in associates and joint ventures							
Reported		24	2,074	436	–	2	2,536
Currency translation		(1)	(90)	–	–	(1)	(92)
Adjusted		23	1,984	436	–	1	2,444
Profit/(loss) before tax							
Reported		(815)	17,790	1,557	799	559	19,890
Currency translation		(226)	(162)	27	(26)	(132)	(519)
Significant items		769	(19)	(1)	1,073	6	1,828
– revenue		105	(35)	(1)	97	6	172
– operating expenses		664	16	–	976	–	1,656
Adjusted		(272)	17,609	1,583	1,846	433	21,199
Loans and advances to customers (net)							
Reported		373,073	450,545	28,824	108,146	21,108	981,696
Currency translation		26,141	10,289	(521)	2,957	(1,558)	37,308
Adjusted		399,214	460,834	28,303	111,103	19,550	1,019,004
Customer accounts							
Reported		503,154	664,824	35,408	133,291	25,966	1,362,643
Currency translation		34,940	12,491	(632)	3,094	(2,814)	47,079
Adjusted		538,094	677,315	34,776	136,385	23,152	1,409,722

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Amounts are non-additive across geographical regions due to inter-company transactions within the Group.

3 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

4 Comprises costs associated with preparations for the UK's exit from the European Union, costs to establish the UK ring-fenced bank (including the UK ServCo group) and costs associated with establishing an intermediate holding company in Hong Kong.

Reconciliation of reported and adjusted items (continued)

	Footnotes	2018				
		UK \$m	Hong Kong \$m	Mainland China \$m	US \$m	Mexico \$m
Revenue						
Reported	1	13,597	18,231	2,888	4,741	2,294
Currency translation		(616)	191	(120)	—	(232)
Significant items		115	5	(1)	97	(7)
– customer redress programmes		(53)	—	—	—	—
– disposals, acquisitions and investment in new businesses		—	—	—	103	—
– fair value movements on financial instruments	2	162	5	(1)	(6)	(7)
– currency translation on significant items		6	—	—	—	—
Adjusted		13,096	18,427	2,767	4,838	2,055
ECL						
Reported		(516)	(214)	(143)	199	(463)
Currency translation		4	(3)	1	—	45
Adjusted		(512)	(217)	(142)	199	(418)
Operating expenses						
Reported		(14,502)	(6,539)	(1,920)	(4,987)	(1,303)
Currency translation		425	(69)	76	—	131
Significant items		519	16	—	919	—
– costs of structural reform	3	294	9	—	—	—
– customer redress programmes		146	—	—	—	—
– past service costs of guaranteed minimum pension benefits equalisation		228	—	—	—	—
– restructuring and other related costs		39	7	—	11	—
– settlements and provisions in connection with legal and regulatory matters		(176)	—	—	908	—
– currency translation on significant items		(12)	—	—	—	—
Adjusted		(13,558)	(6,592)	(1,844)	(4,068)	(1,172)
Share of profit in associates and joint ventures						
Reported		25	36	2,033	—	—
Currency translation		(1)	—	(90)	—	—
Adjusted		24	36	1,943	—	—
Profit/(loss) before tax						
Reported		(1,396)	11,514	2,858	(47)	528
Currency translation		(188)	119	(133)	—	(56)
Significant items		634	21	(1)	1,016	(7)
– revenue		115	5	(1)	97	(7)
– operating expenses		519	16	—	919	—
Adjusted		(950)	11,654	2,724	969	465
Loans and advances to customers (net)						
Reported		287,144	290,547	38,979	64,011	17,895
Currency translation		19,928	2,945	2,068	—	(180)
Adjusted		307,072	293,492	41,047	64,011	17,715
Customer accounts						
Reported		399,487	484,897	45,712	82,523	19,936
Currency translation		27,720	4,915	2,426	—	(195)
Adjusted		427,207	489,812	48,138	82,523	19,741

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

3 Comprises costs associated with preparations for the UK's exit from the European Union, costs to establish the UK ring-fenced bank (including the UK ServCo group) and costs associated with establishing an intermediate holding company in Hong Kong.

## Geographical regions

### Analysis by country

Profit/(loss) before tax by country/territory within global businesses

<i>Footnotes</i>	Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	Total \$m
<b>Europe</b>	<b>(680)</b>	<b>(529)</b>	<b>(1,809)</b>	<b>(1,187)</b>	<b>(4,205)</b>
– UK <sup>1</sup>	(357)	(543)	(1,769)	(1,555)	(4,224)
– of which: HSBC UK Bank plc (RFB)	113	167	90	(124)	246
– of which: HSBC Bank plc (NRFB)	109	36	(1,030)	(454)	(1,339)
– of which: Holdings and other	(579)	(746)	(829)	(977)	(3,131)
– France	(340)	(168)	(347)	(310)	(1,165)
– Germany	17	16	197	(15)	215
– Switzerland	(2)	(4)	–	(10)	(16)
– other	2	170	110	703	985
<b>Asia</b>	<b>5,031</b>	<b>1,944</b>	<b>4,002</b>	<b>1,855</b>	<b>12,832</b>
– Hong Kong	4,927	1,787	1,674	(181)	8,207
– Australia	108	76	138	(7)	315
– India	16	187	593	228	1,024
– Indonesia	(6)	(14)	147	(13)	114
– mainland China	(34)	295	506	1,845	2,612
– Malaysia	8	33	141	(55)	127
– Singapore	45	(644)	239	(12)	(372)
– Taiwan	9	18	104	(2)	129
– other	(42)	206	460	52	676
<b>Middle East and North Africa</b>	<b>(15)</b>	<b>(120)</b>	<b>478</b>	<b>(324)</b>	<b>19</b>
– Egypt	68	46	185	(1)	298
– UAE	(21)	(210)	102	(39)	(168)
– Saudi Arabia	21	–	26	(264)	(217)
– other	(83)	44	165	(20)	106
<b>North America</b>	<b>(449)</b>	<b>366</b>	<b>712</b>	<b>(461)</b>	<b>168</b>
– US	(547)	139	573	(391)	(226)
– Canada	52	225	100	(67)	310
– other	46	2	39	(3)	84
<b>Latin America</b>	<b>(183)</b>	<b>(22)</b>	<b>233</b>	<b>(65)</b>	<b>(37)</b>
– Mexico	(115)	(106)	59	(25)	(187)
– other	(68)	84	174	(40)	150
<b>Year ended 31 Dec 2020</b>	<b>3,704</b>	<b>1,639</b>	<b>3,616</b>	<b>(182)</b>	<b>8,777</b>

<sup>1</sup> UK includes results from the ultimate holding company, HSBC Holdings plc, and the separately incorporated group of service companies ('ServCo Group').

Profit/(loss) before tax by country/territory within global businesses (continued)

	Footnotes	Wealth and Personal Banking <sup>3</sup> \$m	Commercial Banking <sup>3</sup> \$m	Global Banking and Markets <sup>3</sup> \$m	Corporate Centre <sup>3</sup> \$m	Total \$m
Europe		(841)	(1,324)	(997)	(1,491)	(4,653)
– UK	1	(1,053)	904	(1,217)	(1,979)	(3,345)
– of which: HSBC UK Bank plc (RFB)		(331)	1,555	70	13	1,307
– of which: HSBC Bank plc (NRFB)		245	278	(186)	(467)	(130)
– of which: Holdings and other		(967)	(929)	(1,101)	(1,525)	(4,522)
– France		55	120	(65)	(74)	36
– Germany		18	46	95	2	161
– Switzerland		93	7	(3)	(6)	91
– other	2	46	(2,401)	193	566	(1,596)
Asia		7,715	4,519	4,083	2,151	18,468
– Hong Kong		7,220	3,242	1,729	(142)	12,049
– Australia		130	127	199	(12)	444
– India		67	201	533	205	1,006
– Indonesia		20	55	127	14	216
– mainland China		(73)	317	512	2,121	2,877
– Malaysia		102	73	189	(22)	342
– Singapore		154	105	250	(31)	478
– Taiwan		43	25	97	(4)	161
– other		52	374	447	22	895
Middle East and North Africa		254	212	761	1,100	2,327
– Egypt		73	81	245	11	410
– UAE		139	94	246	(54)	425
– Saudi Arabia		(3)	–	13	1,145	1,155
– other	2	45	37	257	(2)	337
North America		(573)	855	729	(244)	767
– US		(277)	386	547	(221)	435
– Canada		70	427	143	(22)	618
– other	2	(366)	42	39	(1)	(286)
Latin America		264	(103)	328	(89)	400
– Mexico		311	176	229	(29)	687
– other	2	(47)	(279)	99	(60)	(287)
GBM goodwill impairment	2	–	–	(3,962)	–	(3,962)
Year ended 31 Dec 2019		6,819	4,159	942	1,427	13,347

1 UK includes results from the ultimate holding company, HSBC Holdings plc, and the separately incorporated group of service companies ('ServCo Group').

2 Includes the impact of goodwill impairment. As per Group accounting policy, HSBC's cash-generating units are based on geographical regions subdivided by global business, except for Global Banking and Markets, for which goodwill is monitored on a global basis.

3 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

## Geographical regions

### Profit/(loss) before tax by country/territory within global businesses (continued)

	Footnotes	Wealth and Personal Banking <sup>2</sup>	Commercial Banking <sup>2</sup>	Global Banking and Markets <sup>2</sup>	Corporate Centre <sup>2</sup>	Total
		\$m	\$m	\$m	\$m	\$m
Europe		134	1,798	147	(2,894)	(815)
– UK	<sup>1</sup>	256	1,393	(175)	(2,870)	(1,396)
– of which: HSBC UK Bank plc (RFB)		602	967	4	(191)	1,382
– of which: HSBC Bank plc (NRFB)		618	1,408	839	(787)	2,078
– of which: Holdings and other		(964)	(982)	(1,018)	(1,892)	(4,856)
– France		(42)	163	7	(91)	37
– Germany		26	92	116	(33)	201
– Switzerland		(76)	5	(2)	(4)	(77)
– other		(30)	145	201	104	420
Asia		7,025	4,475	4,097	2,193	17,790
– Hong Kong		6,673	3,291	1,768	(218)	11,514
– Australia		120	137	212	(6)	463
– India		36	157	433	199	825
– Indonesia		7	21	97	(21)	104
– mainland China		(195)	282	592	2,179	2,858
– Malaysia		145	89	137	3	374
– Singapore		125	127	266	(27)	491
– Taiwan		60	29	138	(2)	225
– other		54	342	454	86	936
Middle East and North Africa		251	142	769	395	1,557
– Egypt		51	63	215	4	333
– UAE		142	65	307	(41)	473
– Saudi Arabia		–	–	–	436	436
– other		58	14	247	(4)	315
North America		37	1,036	901	(1,175)	799
– US		(106)	498	734	(1,173)	(47)
– Canada		99	489	187	(10)	765
– other		44	49	(20)	8	81
Latin America		133	138	354	(66)	559
– Mexico		214	119	204	(9)	528
– other		(81)	19	150	(57)	31
Year ended 31 Dec 2018		7,580	7,589	6,268	(1,547)	19,890

<sup>1</sup> UK includes results from the ultimate holding company, HSBC Holdings plc, and the separately incorporated group of service companies ('ServCo Group').

<sup>2</sup> A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

## Reconciliation of alternative performance measures

	Page
Use of alternative performance measures	119
Return on average ordinary shareholders' equity and return on average tangible equity	119
Net asset value and tangible net asset value per ordinary share	120
Post-tax return and average total shareholders' equity on average total assets	121
Expected credit losses and other credit impairment charges as % of average gross loans and advances to customers	121

### Use of alternative performance measures

Our reported results are prepared in accordance with IFRSs as detailed in our financial statements starting on page 314.

As described on page 77, we use a combination of reported and alternative performance measures, including those derived from our reported results that eliminate factors that distort year-on-year comparisons. These are considered alternative performance measures (non-GAAP financial measures).

The following information details the adjustments made to the reported results and the calculation of other alternative performance measures. All alternative performance measures are reconciled to the closest reported performance measure.

## Return on average ordinary shareholders' equity and return on average tangible equity

Return on average ordinary shareholders' equity ('RoE') is computed by taking profit attributable to the ordinary shareholders of the parent company ('reported results'), divided by average ordinary shareholders' equity ('reported equity') for the period. The adjustment to reported results and reported equity excludes amounts attributable to non-controlling interests and holders of preference shares and other equity instruments.

Return on average tangible equity ('RoTE') is computed by adjusting reported results for the movements in the present value of in-force long-term insurance business ('PVIF') and for impairment of goodwill and other intangible assets (net of tax), divided by average reported equity adjusted for goodwill, intangibles and PVIF for the period.

Return on average tangible equity excluding significant items and UK bank levy is annualised profit attributable to ordinary shareholders, excluding changes in PVIF, significant items and bank levy (net of tax), divided by average tangible shareholders' equity excluding fair value of own debt, debt valuation adjustment ('DVA') and other adjustments for the period.

We provide RoTE ratios in addition to RoE as a way of assessing our performance, which is closely aligned to our capital position.

### Return on average ordinary shareholders' equity and return on average tangible equity

	2020 \$m	2019 \$m	2018 \$m
<b>Profit</b>			
Profit attributable to the ordinary shareholders of the parent company	3,898	5,969	12,608
Impairment of goodwill and other intangible assets (net of tax)	1,036	7,349	—
Increase/(decrease) in PVIF (net of tax)	(253)	(1,248)	(506)
<b>Profit attributable to the ordinary shareholders, excluding goodwill impairment and PVIF</b>	<b>4,681</b>	12,070	12,102
Significant items (net of tax) and UK bank levy	2,402	2,251	2,590
<b>Profit attributable to the ordinary shareholders, excluding goodwill impairment, PVIF, significant items and UK bank levy</b>	<b>7,083</b>	14,321	14,692
<b>Equity</b>			
Average total shareholders' equity	189,719	189,035	186,979
Effect of average preference shares and other equity instruments	(22,326)	(23,614)	(23,496)
<b>Average ordinary shareholders' equity</b>	<b>167,393</b>	165,421	163,483
Effect of goodwill, PVIF and other intangibles (net of deferred tax)	(17,292)	(22,574)	(22,102)
<b>Average tangible equity</b>	<b>150,101</b>	142,847	141,381
Fair value of own debt, DVA and other adjustments	422	1,032	2,439
<b>Average tangible equity excluding fair value of own debt, DVA and other adjustments</b>	<b>150,523</b>	143,879	143,820
	%	%	%
<b>Ratio</b>			
Return on average ordinary shareholders' equity	2.3	3.6	7.7
Return on average tangible equity	3.1	8.4	8.6
Return on average tangible equity excluding significant items and UK bank levy	4.7	10.0	10.2

## Reconciliation of alternative performance measures

The following table details the adjustments made to reported results by global business:

### Return on average tangible equity by global business

	Year ended 31 Dec 2020				
	Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	Total \$m
<b>Profit before tax</b>	<b>3,704</b>	<b>1,639</b>	<b>3,616</b>	<b>(182)</b>	<b>8,777</b>
Tax expense	(509)	(661)	(977)	(531)	(2,678)
<b>Profit after tax</b>	<b>3,195</b>	<b>978</b>	<b>2,639</b>	<b>(713)</b>	<b>6,099</b>
Less attributable to: preference shareholders, other equity holders, non-controlling interests	(736)	(673)	(784)	(8)	(2,201)
<b>Profit attributable to ordinary shareholders of the parent company</b>	<b>2,459</b>	<b>305</b>	<b>1,855</b>	<b>(721)</b>	<b>3,898</b>
Increase in PVIF (net of tax)	(242)	(10)	—	(1)	(253)
Significant items (net of tax) and UK bank levy	190	208	958	2,041	3,397
Markets Treasury allocation and other adjustments	20	(14)	(25)	60	41
<b>Profit attributable to ordinary shareholders, excluding PVIF, significant items and UK bank levy</b>	<b>2,427</b>	<b>489</b>	<b>2,788</b>	<b>1,379</b>	<b>7,083</b>
Average tangible shareholders' equity excluding fair value of own debt, DVA and other adjustments	26,551	37,826	41,566	44,580	150,523
Return on average tangible equity excluding significant items and UK bank levy (%)	9.1	1.3	6.7	3.1	4.7

	Year ended 31 Dec 2019				
Profit before tax	6,819	4,159	942	1,427	13,347
Tax expense	(720)	(1,502)	(460)	(1,957)	(4,639)
<b>Profit after tax</b>	<b>6,099</b>	<b>2,657</b>	<b>482</b>	<b>(530)</b>	<b>8,708</b>
Less attributable to: preference shareholders, other equity holders, non-controlling interests	(1,279)	(846)	(784)	170	(2,739)
<b>Profit attributable to ordinary shareholders of the parent company</b>	<b>4,820</b>	<b>1,811</b>	<b>(302)</b>	<b>(360)</b>	<b>5,969</b>
Increase in PVIF (net of tax)	(1,207)	(40)	—	(1)	(1,248)
Significant items (net of tax) and UK bank levy	1,641	3,036	4,218	702	9,597
Markets Treasury allocation and other adjustments	1	—	—	2	3
<b>Profit attributable to ordinary shareholders, excluding PVIF, significant items and bank levy</b>	<b>5,255</b>	<b>4,807</b>	<b>3,916</b>	<b>343</b>	<b>14,321</b>
Average tangible shareholders' equity excluding fair value of own debt, DVA and other adjustments	26,627	36,856	39,999	40,397	143,879
Return on average tangible equity excluding significant items and UK bank levy (%)	19.7	13.0	9.8	0.8	10.0

### Net asset value and tangible net asset value per ordinary share

Net asset value per ordinary share is total shareholders' equity less non-cumulative preference shares and capital securities ('total ordinary shareholders' equity'), divided by the number of ordinary shares in issue excluding shares that the company has purchased and are held in treasury.

Tangible net asset value per ordinary share is total ordinary shareholders' equity excluding goodwill, PVIF and other intangible assets (net of deferred tax) ('tangible ordinary shareholders' equity'), divided by the number of basic ordinary shares in issue excluding shares that the company has purchased and are held in treasury.

### Net asset value and tangible net asset value per ordinary share

	2020 \$m	2019 \$m	2018 \$m
Total shareholders' equity	196,443	183,955	186,253
Preference shares and other equity instruments	(22,414)	(22,276)	(23,772)
<b>Total ordinary shareholders' equity</b>	<b>174,029</b>	<b>161,679</b>	<b>162,481</b>
Goodwill, PVIF and intangible assets (net of deferred tax)	(17,606)	(17,535)	(22,425)
<b>Tangible ordinary shareholders' equity</b>	<b>156,423</b>	<b>144,144</b>	<b>140,056</b>
Basic number of \$0.50 ordinary shares outstanding	20,184	20,206	19,981
	\$	\$	\$
<b>Value per share</b>			
Net asset value per ordinary share	8.62	8.00	8.13
Tangible net asset value per ordinary share	7.75	7.13	7.01



## Post-tax return and average total shareholders' equity on average total assets

Post-tax return on average total assets is profit after tax divided by average total assets for the period.

Average total shareholders' equity to average total assets is average total shareholders' equity divided by average total assets for the period.

### Post-tax return and average total shareholders' equity on average total assets

	2020 \$m	2019 \$m	2018 \$m
Profit after tax	6,099	8,708	15,025
Average total shareholders' equity	189,719	189,035	186,979
Average total assets	2,936,939	2,712,376	2,611,976
<b>Ratio</b>	<b>%</b>	<b>%</b>	<b>%</b>
Post-tax return on average total assets	0.2	0.3	0.6
Average total shareholders' equity to average total assets	6.46	6.97	7.16

## Expected credit losses and other credit impairment charges as % of average gross loans and advances to customers

Expected credit losses and other credit impairment charges ('ECL') as % of average gross loans and advances to customers is the annualised adjusted ECL divided by adjusted average gross loans and advances to customers for the period.

The adjusted numbers are derived by adjusting reported ECL and loans and advances to customers for the effects of foreign currency translation differences.

### Expected credit losses and other credit impairment charges as % of average gross loans and advances to customers (%)

	2020 \$m	2019 \$m	2018 \$m
Expected credit losses and other credit impairment charges ('ECL')	(8,817)	(2,756)	(1,767)
Currency translation		129	147
<b>Adjusted ECL</b>	<b>(8,817)</b>	<b>(2,627)</b>	<b>(1,620)</b>
Average gross loans and advances to customers	1,047,114	1,021,238	982,409
Currency translation	36,702	38,167	14,911
<b>Average gross loans and advances to customers – at most recent balance sheet foreign exchange rates</b>	<b>1,083,816</b>	<b>1,059,405</b>	<b>997,320</b>
<b>Ratio</b>	<b>%</b>	<b>%</b>	<b>%</b>
Expected credit losses and other credit impairment charges as % of average gross loans and advances to customers	0.81	0.25	0.16

## Other information

	Page
Disclosure controls	121
Management's assessment of internal controls over financial reporting	121
Regulation and supervision	122
Disclosures pursuant to Section 13(r) of the Securities Exchange Act	130

## Disclosure controls

The Group Chief Executive and Group Chief Financial Officer, with the assistance of other members of management, carried out an evaluation of the effectiveness of the design and operation of HSBC Holdings' disclosure controls and procedures as at 31 December 2020. Based upon that evaluation, the Group Chief Executive and Group Chief Financial Officer concluded that the disclosure controls and procedures at 31 December 2020 were effective to provide reasonable assurance that information required to be disclosed in the reports that the company files and submits under the US Securities Exchange Act of 1934, as amended, is recorded, processed, summarised and reported as and when required. There are inherent limitations to the effectiveness of any system of disclosure controls and procedures, including the possibility of human error and the circumvention or overriding of the controls and procedures. Accordingly, even effective disclosure controls and procedures can only provide reasonable assurance of achieving their control objectives.

There have been no changes in HSBC Holdings' internal control over financial reporting during the year ended 31 December 2020

that have materially affected, or are reasonably likely to materially affect, HSBC Holdings' internal control over financial reporting.

## Management's assessment of internal controls over financial reporting

Management is responsible for establishing and maintaining an adequate internal control structure and procedures for financial reporting, and has completed an assessment of the effectiveness of the Group's internal controls over financial reporting for the year ended 31 December 2020. In making the assessment, management used the framework for internal control evaluation contained in the Financial Reporting Council's Guidance on Risk Management, Internal Control and Related Financial and Business Reporting (September 2014), as well as the criteria established by the Committee of Sponsoring Organizations of the Treadway Commission ('COSO') in 'Internal Control-Integrated Framework (2013)'.

Based on the assessment performed, management concluded that for the year ended 31 December 2020, the Group's internal controls over financial reporting were effective.

PricewaterhouseCoopers LLP, which has audited the consolidated financial statements of the Group for the year ended 31 December 2020, has also audited the effectiveness of the Group's internal control over financial reporting under Auditing Standard No. 5 of the Public Company Accounting Oversight Board (United States) as stated in their report on page 311.

---

## Regulation and supervision

The ordinary shares of HSBC Holdings are listed in London, Hong Kong, New York and Bermuda. As a result of the listing in London, HSBC Holdings is subject to the Listing Rules of the Financial Conduct Authority ('FCA'). As a result of the listing in Hong Kong, HSBC Holdings is subject to The Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited ('HKE'). In the US, where the listing is through an American Depositary Receipt Programme, shares are traded in the form of American Depositary Shares ('ADS'), which are registered with the US Securities and Exchange Commission ('SEC'). As a consequence of its US listing, HSBC Holdings is also subject to the reporting and other requirements of: the US Securities Act of 1933, as amended; the Securities Exchange Act of 1934, as amended; and the New York Stock Exchange's ('NYSE') Listed Company Manual, in each case as applied to foreign private issuers. In Bermuda, HSBC Holdings is subject to the listing rules of the Bermuda Stock Exchange applicable to companies with secondary listings.

A statement of our compliance with the provisions of the UK Corporate Governance Code issued by the Financial Reporting Council and with the Hong Kong Corporate Governance Code set out in Appendix 14 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited can be found in the 'Report of the Directors: Corporate Governance Codes' on page 308.

Our operations throughout the world are regulated and supervised globally by a large number of different regulatory authorities, central banks and other bodies in those jurisdictions in which we have offices, branches or subsidiaries. These authorities impose a variety of requirements and controls designed to provide financial stability, transparency in financial markets and a contribution to economic growth. Requirements to which our operations must adhere include those relating to capital and liquidity, disclosure standards and restrictions on certain types of products or transaction structures, recovery and resolution, governance standards, conduct of business and financial crime.

The UK Prudential Regulation Authority ('PRA') is the HSBC Group's consolidated lead regulator. The other lead UK regulator, the FCA, supervises 15 HSBC entities in the UK, including eight where the PRA is responsible for prudential supervision. Additionally, HSBC Holdings, through which the FCA has maintained, and is expected in the future to maintain, global oversight of the Group's management of financial crime risk, is now required to obtain supervisory approval, following which it will be directly subject to consolidated supervision. In addition, each operating bank, finance company and insurance operation within HSBC is regulated by local supervisors.

The Group's primary regulatory authorities include those in the UK, Hong Kong and the US and our other principal jurisdictions of operation. However, and in addition, with the implementation of the European Union's ('EU') Single Supervisory Mechanism ('SSM') in 2014, the European Central Bank ('ECB') assumed direct supervisory responsibility for HSBC France and HSBC Malta as 'significant supervised entities' within the eurozone for the purposes of the EU's SSM Regulation, and HSBC Germany may also come under the ECB's direct supervision in due course. Under the SSM, the ECB increasingly engages with the relevant 'national competent authorities' in relation to HSBC's businesses in other eurozone countries and more widely with HSBC's other regulators. It is therefore expected that we will continue to see changes in how the Group is regulated and supervised on a day-to-day basis in the eurozone and, more generally, as the ECB and other of our regulators develop their powers having regard to some of the regulatory initiatives highlighted in this report including the UK's exit from the EU.

### UK regulation and supervision

The UK's financial services regulatory structure is comprised of three regulatory bodies: the Financial Policy Committee, a committee of the Bank of England ('BoE'); the PRA; and the FCA.

The Financial Policy Committee is responsible for macro-prudential supervision, focusing on systemic risks that may affect the UK's financial stability. The BoE prudentially regulates and supervises financial services firms through the PRA, and in addition to its wider role as the UK's central bank, the BoE is also the resolution authority responsible for taking action to manage the failure of financial institutions in the UK, if necessary. The latter involves a set of responsibilities and powers that apply outside of an actual bank failure and relate to general resolution planning, including an assessment of any barriers to the resolution of banks, the exercise of powers to require the removal of impediments to resolvability and the setting of minimum requirements for own funds and eligible liabilities.

The PRA and the FCA are micro-prudential supervisors. The Group's banking subsidiaries in the UK, such as HSBC Bank plc and HSBC UK, are 'dual-regulated' firms, subject to prudential regulation by the PRA and to conduct regulation by the FCA. Other (generally smaller, non-bank) UK-based Group subsidiaries are 'solo regulated' by the FCA (i.e. the FCA is responsible for both prudential and conduct regulation of those subsidiaries). HSBC Group is subject to consolidated supervision by the PRA.

UK banking and financial services institutions are subject to multiple regulations. The primary UK statute in this context is the Financial Services and Markets Act 2000, as amended by subsequent legislation. As a result of a referendum in 2016, the UK left the EU on 31 January 2020 and agreed a transition period which ended at 11pm on 31 December 2020. At the end of the transition period, the HSBC Group and its subsidiaries in the UK ceased to be subject to EU law. However, at that time, the EU's financial services legislation was onshored into UK law under the EU (Withdrawal) Act 2018 ('EUWA'). EU law continues to apply to HSBC's EU subsidiaries. The UK and the EU have entered into a Trade and Cooperation Agreement, and have made certain declarations relating to financial services. See the European Regulation section for more information.

The PRA and FCA are together responsible for authorising and supervising all our operating businesses in the UK that require authorisation under the Financial Services and Markets Act 2000. These include deposit-taking, retail banking, consumer credit, life and general insurance, pensions, investments, mortgages, custody and share-dealing businesses, and treasury and capital markets activity. The FCA is also responsible for promoting effective competition in the interests of consumers, and an independent subsidiary of the FCA, the Payment Systems Regulator, regulates payment systems in the UK.

The PRA and FCA rules establish the minimum criteria for the authorisation of banks and other financial sector entities that carry out regulated activities. In the UK, the PRA and FCA have the right to object, on prudential grounds, to persons who hold, or intend to hold, 10% or more of the voting power or shares of a financial institution that they regulate, or of its parent undertaking. In its capacity as our supervisor on a consolidated basis, the PRA receives information on the capital adequacy of, and sets requirements for, the Group as a whole. In addition, it conducts stress tests both on HSBC's UK entities and more widely on the Group. Individual banking subsidiaries in the Group are directly regulated by their local banking supervisors, who set and monitor, inter-alia, their capital adequacy requirements.

The Group is subject to capital requirements as set out in the Capital Requirements Regulation, as amended and onshored by the EUWA (the 'CRR') and the UK law implementing the Capital Requirements Directive, as amended and onshored by the EUWA (the 'CRD' and together with the CRR, the 'Capital Requirements Legislative Package'). Broadly, the changes to the framework that resulted from onshoring the legislation under EUWA will be delayed until 31 March 2022 under transitional powers exercised by the PRA.

The Pillar 1 regulatory capital framework has been, and continues to be, significantly enhanced. The UK law implementing the Bank Recovery and Resolution Directive, as amended and onshored under the EUWA (the 'BRRD') requires the UK's resolution authority to set a minimum requirement for own funds and eligible

liabilities ('MREL') for banks in the UK. These include own funds and liabilities that can be written down or converted into capital resources in order to absorb losses or recapitalise a bank in the event of its failure. These requirements are based on the resolution strategy for the Group, as agreed by the BoE in consultation with our local regulators. The UK has implemented the MREL requirements through the Banking Act, and the Bank Recovery and Resolution (No 2) Order 2014. The BoE separately updated its statement of policy on its approach to setting MREL in June 2018. The BoE expects to direct firms to comply with an end-state MREL requirement from 1 January 2022 and has set interim MREL requirements from 1 January 2019. These interim MREL requirements apply to the Group and to some of the Group's UK subsidiaries. The UK MREL framework has been designed to be broadly compatible with the term sheet published by the Financial Stability Board (the 'FSB') on total loss absorbing capacity ('TLAC') requirements for global systemically important banks ('G-SIBs'). In addition, additional TLAC requirements were implemented in 2019 through amendments to the CRR in line with the FSB TLAC standards; these also apply to HSBC as a G-SIB.

The Group is also subject to liquidity requirements as set out in the Capital Requirements Legislative Package and implemented by the PRA, and will in due course become subject to the net stable funding requirements prescribed under the Basel III Reforms which are expected to be implemented in January 2022.

The PRA and FCA monitor authorised institutions through ongoing supervision and the review of routine and ad hoc reports relating to financial, prudential and conduct of business matters. They may also obtain independent reports from a Skilled Person on the adequacy of procedures and systems covering internal control and governing records and accounting. The PRA meets regularly with the Group's senior executives to discuss our adherence to its prudential requirements. In addition, both the PRA and FCA regularly discuss with relevant management fundamental matters relating to our business in the UK and internationally, including areas such as strategic and operating plans, risk control, loan portfolio composition, organisational changes, succession planning and recovery and resolution arrangements.

There are a substantial number of other ongoing regulatory initiatives affecting the Group driven by or from the UK. The current and anticipated areas of particular focus for the UK's regulators include:

- the effects of the Covid-19 outbreak on the regulatory framework and its implications for banks' credit risk management and provisioning processes, capital adequacy and liquidity;
- changes to UK law and regulation following the UK's exit from the EU, including the overarching Future Regulatory Framework Review led by HM Treasury;
- the UK's implementation of the final reforms to Basel III, including the changes to the market risk framework and the revised approaches to calculate credit, counterparty, operational and credit valuation adjustment RWAs, changes to the leverage ratio framework and the application of capital floors;
- the UK's implementation of changes to the internal ratings based ('IRB') approach to credit risk as part of the IRB Repair programme;
- ongoing implementation of requirements regarding resolution plans (see further details outlined below under 'Recovery and resolution');
- the ending of the production of the London Inter-bank Offered Rate ('Libor') and the transition to the Sterling Overnight Index Average and the replacement of other similar reference rates;
- measures designed to support both retail and business customers in the wake of the Covid-19 outbreak, with particular focus on vulnerability and financial difficulty;
- consideration of the UK's Cash Infrastructure including measures designed to maintain access to cash for consumers;

- proposals to provide greater levels of protection and remediation to SMEs;
- proposals for strengthening operational resilience and for outsourcing and third party risk management;
- consideration of digital regulatory reporting and the future of data collection by the regulators;
- review and proposed approach to the UK payments infrastructure and regulation;
- measures to prevent financial crime, including market abuse and fraud;
- the effects of climate change within their Pillar 2 assessments, stress testing and mandatory disclosures; and
- the continued assessment of the completeness and accuracy of regulatory returns by the PRA

The FCA also continues to apply close scrutiny to the Group's financial crime control framework both generally, in the exercise of its wider powers under FSMA, and more specifically through the exercise of direct supervisory powers over HSBC Holdings and the 2020 Direction as described above.

### **Hong Kong regulation and supervision**

The Banking Ordinance provides the legal framework for banking supervision in Hong Kong. Section 7(1) of the Ordinance provides that the principal function of the Hong Kong Monetary Authority ('HKMA') is to 'promote the general stability and effective working of the banking system'. The HKMA seeks to establish a regulatory framework in line with international standards, in particular those issued by the Basel Committee on Banking Supervision ('Basel Committee') and the Financial Stability Board ('FSB'). The objective is to maintain a prudential supervisory system that underpins the general stability and effective working of the banking system, while at the same time providing sufficient flexibility for authorised institutions to take commercial decisions. Under the Banking Ordinance, the HKMA is the licensing authority responsible for the authorisation, suspension and revocation of authorised institutions. To provide checks and balances, the HKMA is required under the Ordinance to consult with the Financial Secretary on important authorisation decisions, such as suspension and involuntary revocation.

The Hongkong and Shanghai Banking Corporation Limited and its overseas branches and subsidiaries are licensed under the Banking Ordinance and hence subject to the supervision, regulation and examination of the HKMA.

The HKMA follows international practices as recommended by the Basel Committee to supervise authorised institutions. Under the Banking Ordinance, the HKMA imposes capital requirements on authorised institutions through the Banking (Capital) Rules, liquidity requirements through the Banking (Liquidity) Rules and large exposure limits through the Banking (Exposure Limits) Rules. These rules take into account the latest standards set by the Basel Committee.

The HKMA adopts a risk-based supervisory approach based on a policy of 'continuous supervision' through on-site examinations, off-site reviews, prudential meetings, cooperation with external auditors and sharing information with other supervisors. The HKMA requires all authorised institutions to have adequate systems of internal control and requires the institutions' external auditors, upon request, to report on those systems and other matters, such as the accuracy of information provided to the HKMA. In addition, the HKMA may from time to time conduct tripartite discussions with authorised institutions and their external auditors.

The HKMA aims to ensure that the standards for regulatory disclosure in Hong Kong remain in line with those of other leading financial centres. The Banking (Disclosure) Rules take into account the latest disclosure standards released by the Basel Committee, which prescribe quarterly, semi-annual and annual disclosure of specified items, including in the form of standard templates and tables, in order to promote user-relevance and the consistency and

comparability of regulatory disclosure among banks and across jurisdictions.

The HKMA's powers to collect prudential data from authorised institutions on a routine or ad hoc basis are provided by Section 63 of the Banking Ordinance. The same section of the Ordinance also empowers the HKMA to require any holding company or subsidiary or sister company of an authorised institution to submit such information as may be required for the exercise of the HKMA's functions under the Ordinance.

The HKMA has the power to serve a notice of objection on persons if they are no longer deemed to be fit and proper to be controllers of the authorised institution, if they may otherwise threaten the interests of depositors or potential depositors, or if they have contravened any conditions specified by the HKMA. The HKMA may revoke authorisation in the event of an institution's non-compliance with the provisions of the Banking Ordinance. These provisions require, among other things, the furnishing of accurate reports.

The HKMA is the relevant authority under the Anti-Money Laundering and Counter-Terrorist Financing Ordinance for supervising authorised institutions' compliance with the legal and supervisory requirements set out in the Anti-Money Laundering and Counter-Terrorist Financing Ordinance and the Guideline on Anti-Money Laundering and Counter-Financing of Terrorism (for Authorised Institutions). The HKMA requires authorised institutions in Hong Kong and its overseas branches and subsidiaries to establish effective systems and controls to prevent and detect money laundering and terrorist financing. It works closely with other stakeholders within both the government and the industry to ensure that the banking sector is able to play its gatekeeper role in Hong Kong's anti-money laundering and counter-financing of terrorism regime.

To enhance the exchange of supervisory information and cooperation, the HKMA has entered into a Memorandum of Understanding or other formal arrangements with a number of banking supervisory authorities within and outside Hong Kong.

The marketing of, dealing in and provision of advice and asset management services in relation to securities and futures in Hong Kong are subject to the provisions of the Securities and Futures Ordinance of Hong Kong. Entities engaging in activities regulated by the Ordinance are required to be licensed or registered with the Securities and Futures Commission ('SFC'). The HKMA is the front-line regulator for banks involved in the securities and futures business.

The HKMA and the SFC work very closely to ensure that there is an open market with a level playing field for all intermediaries in the securities industry of Hong Kong. The HKMA has entered into a Memorandum of Understanding with the SFC, which elaborates on the legal framework and sets out the operational details relating to the respective roles and responsibilities of the two regulators regarding the securities-related activities of authorised institutions. The HKMA and the SFC hold regular meetings under the Memorandum of Understanding to discuss matters of mutual interest.

Among other functions, the Securities and Futures Ordinance vests the SFC with powers to set and enforce market regulations, including investigating breaches of rules and market misconduct and taking appropriate enforcement action. The SFC is responsible for licensing and supervising intermediaries conducting SFC-regulated activities, such as investment advisers, fund managers and brokers. Additionally, the SFC sets standards for the authorisation and regulation of investment products, and reviews and authorises offering documents of retail investment products to be marketed to the public.

To promote proper conduct and increase awareness of individual responsibility and accountability, the SFC introduced and implemented the Manager-In-Charge ('MIC') regime in Hong Kong in October 2017. The MIC regime captures senior individuals of licensed corporations responsible for managing core functions within financial services businesses supervised by the SFC. The regime required SFC licensed corporations to review their

organisational structure and the roles of senior management and their responsible officers in light of the SFC's classification of core functions within licensed corporations and its guidelines on identifying Managers-In-Charge of Core Functions. The regime also imposes new reporting requirements on SFC licensed corporations.

Similar to the SFC, the HKMA launched its Management Accountability Initiative in October 2017 aimed at increasing the accountability of the senior management of Hong Kong registered institutions ('RIs') i.e. Hong Kong banks registered to carry on one or more regulated activities under the SFO. The Management Accountability Initiative clarified the HKMA's expectations on the responsibility and accountability of RIs' senior management and enhanced its information gathering on RIs' regulated activities, while requiring RIs to better identify lines of responsibility and accountability for their regulated activities. The HKMA and the Insurance Authority ('IA') have signed a Memorandum of Understanding to enhance the cooperation, exchange of information and mutual assistance between the two authorities. This Memorandum of Understanding sets out the framework between the HKMA and the IA for strengthening co-operation in respect of regulation and supervision of entities or financial groups in which the two authorities have a common regulatory interest.

Pursuant to the statutory regulatory regime for insurance intermediaries under the Insurance Ordinance, the IA has delegated its inspection and investigation powers to the HKMA in relation to insurance related businesses of authorised institutions in Hong Kong, which aims to improve efficiency and minimise possible regulatory overlap.

Under the statutory regime for the regulation of Mandatory Provident Fund ('MPF') intermediaries, the Mandatory Provident Fund Schemes Authority is the lead regulator in respect of regulation of MPF intermediaries whereas the HKMA, the IA and the SFC are the front-line regulators of the MPF intermediaries. A Memorandum of Understanding Concerning the Regulation of Regulated Persons with Respect to Registered Schemes under the Mandatory Provident Fund Schemes Ordinance has been signed by the four regulators. It sets out certain administrative and operational arrangements among the four regulators regarding the exercise of their respective functions under the Mandatory Provident Fund Schemes Ordinance concerning regulation of MPF intermediaries.

The Financial Institutions (Resolution) Ordinance established the legal basis for a cross-sector resolution regime in Hong Kong, under which the HKMA is the resolution authority for banking sector entities, including all authorised institutions. The HKMA is also designated as the lead resolution authority for the cross-sectoral groups in Hong Kong that include banking sector entities within the scope of the Financial Institutions (Resolution) Ordinance ('FIRO'). The HKMA's function as a resolution authority is supported by the Resolution Office within the HKMA. The Resolution Office is operationally independent and has a direct reporting line to the chief executive of the HKMA.

The Financial Institutions (Resolution) (Loss-absorbing Capacity Requirements – Banking Sector) Rules ('LAC Rules') were made by the HKMA under section 19(1) of the FIRO. The LAC Rules enable the HKMA to designate entities within Hong Kong as resolution entities or material subsidiaries and require them to issue Loss Absorbing Capacity ('LAC') instruments, in accordance with the Financial Stability Board's standard 'Principles on Loss-absorbing and Recapitalisation Capacity of G-SIBs in Resolution – Total Loss-absorbing Capacity ('TLAC') Term Sheet'. The LAC Rules also incorporate the Basel Committee's disclosure standards on TLAC.

In order to support capacity building and talent development, the HKMA is working with the banking industry and relevant professional bodies to implement an industry-wide enhanced competency framework for banking practitioners. The availability of a set of common and transparent competency standards enables more effective training for new entrants and professional development for existing practitioners. Authorised institutions are encouraged to adopt it as the benchmark for enhancing the level

of core competence and ongoing professional development of banking practitioners.

Currently, the enhanced competency framework for banking practitioners covers four professional work streams: anti-money laundering and counter-financing of terrorism; cybersecurity; treasury management; and retail and wealth management, with credit risk management, risk management and compliance to be launched in due course.

## US regulation and supervision

The Group is subject to federal and state supervision and regulation in the US. Banking laws and regulations of the Federal Reserve Board ('FRB'), the Office of the Comptroller of the Currency (the 'OCC') and the Federal Deposit Insurance Corporation (the 'FDIC') (collectively, the 'US banking regulators') govern all aspects of our US business. HSBC Bank USA, N.A. ('HSBC Bank USA') is subject to direct supervision and regulation by the Consumer Financial Protection Bureau ('CFPB'), which has the authority to examine and take enforcement action related to compliance with US federal consumer financial laws and regulations. The Group's US securities broker/dealer and investment banking operations are also subject to ongoing supervision and regulation by the Securities and Exchange Commission ('SEC'), the Financial Industry Regulatory Authority and other government agencies and self-regulatory organisations under US federal and state securities laws. Similarly, the Group's US commodity futures, commodity options and swaps-related and client clearing operations are subject to ongoing supervision and regulation by the Commodity Futures Trading Commission ('CFTC'), the National Futures Association and other self-regulatory organisations under US federal commodities laws. Furthermore, since we have substantial operations outside the US that conduct many of their day-to-day transactions with the US, HSBC entities' operations outside the US are also subject to the extraterritorial effects of US regulation in many respects.

HSBC Holdings and its US operations are subject to supervision, regulation and examination by the FRB because HSBC Holdings is a 'bank holding company' under the US Bank Holding Company Act of 1956, as a result of its control of HSBC Bank USA and HSBC Trust Company (Delaware), N.A., Wilmington, Delaware ('HTCD'). HNAH and HSBC USA Inc., are each a 'bank holding company' and HNAH is also an intermediate holding company ('IHC') regulated by the FRB. HSBC Holdings, HNAH and HSBC USA Inc. have elected to be financial holding companies pursuant to the provisions of the Gramm-Leach-Bliley Act and, accordingly, may affiliate with securities firms and insurance companies, and engage in other activities that are financial in nature or incidental or complementary to activities that are financial in nature.

Under regulations implemented by the FRB, if any financial holding company, or any depository institution controlled by a financial holding company, ceases to meet certain capital or management standards, the FRB may impose corrective capital and/or managerial requirements on the financial holding company and place limitations on its ability to conduct the broader financial activities permissible for financial holding companies. In addition, the FRB may require divestiture of the holding company's depository institutions or its affiliates engaged in broader financial activities in reliance on the Gramm-Leach-Bliley Act if the deficiencies persist. The regulations also provide that if any depository institution controlled by a financial holding company fails to maintain a satisfactory rating under the Community Reinvestment Act of 1977, the FRB must prohibit the financial holding company and its subsidiaries from engaging in any additional activities other than those permissible for bank holding companies that are not financial holding companies.

The two US banks, HSBC Bank USA and HTCD, are subject to regulation and examination primarily by the OCC. HSBC Bank USA and HTCD are subject to additional regulation and supervision by the FDIC, the Consumer Financial Protection Bureau and the FRB. Banking laws and regulations restrict many aspects of their operations and administration, including the establishment and maintenance of branch offices, capital and reserve requirements,

deposits and borrowings, investment and lending activities, payment of dividends and numerous other matters.

In the US, parent company insolvencies are governed by the US Bankruptcy Code, 11 U.S.C. § 101 et seq. (the 'Bankruptcy Code'). Chapter 7 of the Bankruptcy Code sets forth the procedures for liquidation of a debtor company's assets for distribution to creditors, whereas Chapter 11 permits the operation of the debtor's business while either negotiating a plan of reorganisation with the company's creditors or liquidating the business. Subsidiary banks are subject to the Federal Deposit Insurance Act (the 'FDIA'). Under the FDIA, the FDIC has the authority as receiver to liquidate and wind up a bank's affairs and to succeed to all rights, titles, powers and privileges of the bank and relevant associated persons.

Under a special regime introduced by Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act ('Dodd-Frank'), the US Secretary of the Treasury has the authority to appoint the FDIC as receiver of certain qualifying parent companies and their subsidiaries under specified conditions. The FDIC's powers under what is referred to as the Orderly Liquidation Authority incorporate elements of both the FDIA and the Bankruptcy Code, and are intended to minimise the adverse effects of a complex financial group's failure on the financial stability of the US. In respect of a banking group with a parent company not organised under the laws of the US, any actions under the Orderly Liquidation Authority would likely be directed at the US-based intermediate holding company.

Following implementation of the Basel III capital framework by the US banking regulators, HNAH, HSBC USA Inc. and HSBC Bank USA are required to maintain minimum capital ratios (exclusive of any capital buffers), including a minimum Tier 1 leverage ratio of 4%, and a minimum total risk-based capital ratio of at least 8%. HNAH and HSBC Bank USA are also subject to a minimum supplementary leverage ratio of 3%. Over and above the minimum risk-based requirements, HNAH is subject to a Stress Capital Buffer ('SCB'), which has replaced the static 2.5% Capital Conservation Buffer ('CCB') and is floored at 2.5%. HSBC USA Inc. and HSBC Bank USA continue to be subject to the static 2.5% CCB. Compliance with the SCB / CCB does not represent minimum requirements per se, but rather a necessary condition to allow capital distributions. A countercyclical capital buffer requirement also applies to HNAH and HSBC Bank USA, and the buffer has currently been set at 0% by the US banking regulators. In addition to stress testing requirements imposed under the FRB's Comprehensive Capital Analysis and Review ('CCAR'), the Dodd-Frank Act Stress Test ('DFAST') requires that HNAH undergo annual supervisory stress tests conducted by the FRB and company-run stress tests that HNAH must conduct annually (with disclosure of the company-run stress tests every other year).

Under CCAR, the FRB assesses whether the largest US banking organisations have sufficient capital to continue operations throughout times of economic and financial stress and whether they have robust, forward-looking capital-planning processes that account for their unique risks. As part of the CCAR process, the FRB undertakes a supervisory assessment of the capital adequacy of bank holding companies, including HNAH, based on a review of a comprehensive capital plan submitted by each participating bank holding company to the FRB that describes the company's planned capital actions, such as plans to pay or increase common stock dividends, reinstate or increase common stock repurchase programmes, or redeem preferred stock or other regulatory capital instruments, during the nine-quarter review period, as well as the results of stress tests conducted by both the company and the FRB under different hypothetical macroeconomic scenarios, including a severely adverse scenario provided by the FRB.

HNAH submitted its CCAR capital plan and annual company-run DFAST results in April 2020. The company-run stress tests are forward-looking exercises to assess the impact of hypothetical macroeconomic baseline and severely adverse scenarios provided by the FRB for the annual exercise, and internally developed scenarios for both the annual periodic exercises, on the financial

condition and capital adequacy of a bank holding company or bank over a nine-quarter planning horizon.

On 4 March 2020, the FRB issued a final rule that eliminated the quantitative and qualitative 'pass/fail' assessments from CCAR and modified the static capital conservation buffer to incorporate an institution-specific stress capital buffer, which is floored at 2.5%. The stress capital buffer equals (i) a bank holding company's projected decline in common equity tier 1 under the annual CCAR supervisory severely adverse stress testing scenario prior to any planned capital actions, plus (ii) one year of planned common stock dividends. The buffer will be reset each year.

On 10 August 2020, the FRB announced an SCB for each CCAR firm based on 2020 supervisory stress testing results conducted as part of CCAR. The first SCB became effective 1 October 2020 and would generally remain in effect until 30 September 2021, at which point the size of the SCB for each bank will be recalibrated based on the results of the 2021 stress tests. HNAH already utilizes an internal capital assessment approach that is analogous to the SCB and continues to review the composition of its capital structures and capital buffers in light of the final rule.

In June 2020, the FRB publicly disclosed its CCAR results along with aggregated results of a sensitivity analysis aimed at gauging the ongoing economic impact of the Covid-19 outbreak on CCAR firms. Each CCAR firm, including HNAH, was required to resubmit its capital plan in November 2020 based on additional economic scenarios provided by the FRB to assess the potential impact of the ongoing COVID-19 outbreak. On 18 December 2020, the FRB released certain information related to this second round of bank stress tests, and indicated that it is extending, through 31 March 2021, the time period for notifying CCAR firms, including HNAH, whether the FRB will recalculate a firm's SCB. The FRB also announced it is limiting CCAR firms' distributions in the first quarter of 2021. Under these restrictions, IHCs, such as HNAH, may make certain capital distributions in the first quarter of 2021, provided that the distributions paid in the final three quarters of 2020 and the first quarter of 2021, in the aggregate, do not exceed the amount of net income the IHC has earned in the preceding four calendar quarters.

Large international banks, such as HSBC Holdings (generally with regard to its US operations), and large insured depository institutions, such as HSBC Bank USA, are required to file resolution plans identifying among other things, material subsidiaries and core business lines, and describing which strategy would be followed to resolve the institution in the event of significant financial distress, including identifying how insured bank subsidiaries would be adequately protected from risk created by other affiliates. The failure to cure deficiencies in a resolution plan would enable the FRB and the FDIC, acting jointly, to impose more stringent capital, leverage or liquidity requirements, or restrictions on growth, activities or operations and, if such failure persists, require the divestiture of assets or operations. HSBC Holdings and HSBC Bank USA submitted their latest resolution plans in 2018.

In 2014, the FRB adopted a rule requiring enhanced supervision of the US operations of non-US banks such as HSBC Holdings. The rule required HSBC to establish an IHC to hold its US bank and non-bank subsidiaries, although because the HSBC Group had already been operating in the US through such an IHC structure (i.e. HNAH), the implementation of this requirement did not itself have a significant impact on our US operations.

In October 2019, the FRB and the other US banking regulators jointly finalised rules that would tailor the application of the enhanced prudential standards for large US banking organisations and certain foreign banking organisations (the 'Tailoring Rules'). The Tailoring Rules assign each BHC and US IHC with \$50bn or more in total US assets to one of five categories based on its size and four risk-based indicators.

As a Category III firm under the Tailoring Rules, HNAH and its subsidiaries HSBC USA Inc. and HSBC Bank USA are no longer considered 'Advanced Approaches banking organisations'. Prior to adoption of the Tailoring Rules, HNAH and HSBC Bank USA had requested and received regulatory approval to opt out of the

Advanced Approaches and therefore have previously calculated and will continue to calculate their risk-based capital requirements for credit risk solely under the Standardised Approach. Under the Tailoring Rules, HNAH and HSBC Bank USA remain subject to certain other capital requirements that were previously applicable only to 'Advanced Approaches banking organisations', including the SLR and the countercyclical capital buffer. The Tailoring Rules also permit Category III firms, including HNAH and HSBC Bank USA, to make a one-time election to opt-out of the requirement to recognise most elements of accumulated other comprehensive income in regulatory capital.

The provisions of the Tailoring Rules relevant to HSBC, HNAH, HSBC USA Inc. and HSBC Bank USA became effective on 1 January 2020.

The US banking regulators finalised a rule in October 2020 which provides that Category III firms and their subsidiary banks will not be subject to any requirement to deduct from their regulatory capital holdings of TLAC instruments issued by other banks.

The Tailoring Rules reduced the liquidity coverage ratio requirement for Category III IHCs with weighted short-term wholesale funding under \$75bn, including HNAH, and their depository institution subsidiaries, including HSBC Bank USA, from 100 to 85% on a daily basis. In October 2020, the agencies finalised the NSFR, which will apply an 85% NSFR to Category III IHCs with weighted short-term wholesale funding under \$75bn, including HNAH, and their depository institution subsidiaries, including HSBC Bank USA beginning 1 July 2021. As a Category III firm, HNAH remains subject to liquidity stress testing on a monthly basis and related liquidity buffer and liquidity risk management requirements.

Simultaneous with the Tailoring Rules, the FRB and FDIC jointly finalised a proposal to revise the regulations implementing the resolution planning requirements for depository institution holding companies in the Dodd-Frank Act (the 'Holdco Resolution Plan Rule'). Under the Holdco Resolution Plan Rule, HSBC Holdings is required to file a resolution plan every three years (rather than annually), alternating between a full resolution plan and a targeted resolution plan, which would generally be limited to core areas such as capital and liquidity, as well as material changes in other areas. Under the Holdco Resolution Plan Rule, HSBC's first targeted resolution plan submission is not required until 17 December 2021 and its full resolution plan submission is not required until 1 July 2024. The Holdco Resolution Plan Rule did not revise the resolution plan requirements applicable to HSBC Bank USA, which are administered solely by the FDIC. In April 2019, the FDIC requested comment on an advance notice of proposed rulemaking that would alter the FDIC's separate resolution plan requirements for insured depository institutions (the 'IDI Plan') with total consolidated assets of at least \$50bn ('Covered IDIs'), including HSBC Bank USA. The proposal delayed the requirement for HSBC Bank USA (as well as other Covered IDIs) to file a resolution plan under the FDIC's current rules until a future date to be specified by the FDIC. Consequently, HSBC Bank USA has not been required to file an IDI Plan since 2018. In January 2021, the FDIC announced it will resume requiring IDI Plan submission for banks with \$100 billion or more in assets and will provide at least 12 months advance notice to firms required to submit IDI Plans.

In June 2018, the FRB finalised a rule to limit credit exposures to single counterparties for large bank holding companies and IHCs, including HNAH. Under the rule, HNAH, together with its subsidiaries, is prohibited from having net credit exposure to a single unaffiliated counterparty in excess of 25% of HNAH's tier 1 capital. In addition, HNAH, together with its subsidiaries, could become subject to a separate limit on its exposures to certain unaffiliated systemically important counterparties if its parent, HSBC Holdings, cannot certify its compliance with a large exposure regime in the UK that is consistent with the Basel large exposure framework by 1 July 2021.

In 2018, the FRB adopted final rules implementing the FSB's TLAC standard. The rules require that IHCs of non-US G-SIBs, including HNAH, maintain minimum amounts of TLAC that may include minimum levels of tier 1 capital and long-term debt satisfying

certain eligibility criteria, and a related TLAC buffer commencing 1 January 2019 without the benefit of a phase-in period. In October 2020, the FRB finalised a proposal to align the calculation of TLAC buffer for US IHCs of non-US G-SIBs with the calculation methodology used by US G-SIBs which will take effect on 1 April 2021. The TLAC rules also include 'clean holding company requirements' that impose limitations on the types of financial transactions HSBC's US intermediate holding company, HNAH, may engage in. HNAH maintains long-term debt to support compliance with the TLAC rules and will continue to assess if additional long-term debt is needed to remain compliant in future periods.

In September 2017, HSBC Holdings and HNAH entered into a consent order with the FRB in connection with its investigation into HSBC's historical foreign exchange activities, which requires HSBC Holdings and HNAH to undertake certain remedial steps.

The US government response to the Covid-19 outbreak included enactment of the Coronavirus Aid, Relief, and Economic Security Act ('CARES Act') and a number of emergency lending and liquidity facilities established by the FRB. The CARES Act provides financial institutions with the option to temporarily suspend certain requirements under U.S. GAAP for loan modifications related to Covid-19 and any determination that a loan modified as a result of Covid-19 is a troubled debt restructuring (including impairment for accounting purposes). The CARES Act also created the Paycheck Protection Program (the 'PPP'), a programme designed to aid small- and medium-sized businesses through federally guaranteed loans distributed through banks. In December 2020, additional federal stimulus legislation was enacted, which includes additional funding for the PPP. HSBC Bank USA is participating in the PPP program. Throughout 2020, the US banking regulators issued a number of regulatory rule changes in response to the Covid-19 outbreak, including the following key rules: In March 2020, the US banking regulators issued an interim final rule allowing US banks the option to delay, over a five-year transition period, the regulatory capital impacts of implementing the Current Expected Credit Loss accounting standard. In May 2020, the US banking regulators issued an interim final rule allowing banks that are subject to the Supplementary Leverage Ratio to temporarily exclude on-balance sheet US Treasury securities and deposits held at the Federal Reserve from the Supplementary Leverage Ratio denominator until 31 March 2021.

Title VII of Dodd-Frank provides for an extensive framework for the regulation of over-the-counter ('OTC') derivatives by the CFTC and the SEC, including mandatory clearing, exchange trading, and public and regulatory transaction reporting of certain OTC derivatives, as well as rules regarding the registration of swap dealers and major swap participants, and related capital, margin, business conduct, record keeping and other requirements applicable to such entities.

The CFTC has adopted rules implementing the most significant provisions of Title VII. In particular, HSBC Bank USA and HSBC Bank plc are provisionally registered as swap dealers with the CFTC. Because HSBC Bank plc is a non-US swap dealer, application of certain CFTC requirements is limited to HSBC Bank plc's swap transactions with US persons and certain affiliates of US persons. In July 2020, the CFTC finalised rules that largely codified existing cross-border guidance and existing no action relief issued to date for transactions between non-US persons. The cross-border application of CFTC requirements that were not addressed in the final rule, including mandatory clearing, exchange trading and public transaction reporting requirements, remain subject to prior CFTC guidance and, where applicable, exemptive relief until the CFTC addresses each in further rulemakings. In addition, the CFTC has continued to permit UK-based swap dealers (e.g., HSBC Bank plc) to temporarily rely on existing substituted compliance orders for comparable EU regulations to satisfy certain CFTC requirements. The ability of HSBC Bank plc to transact with non-US persons and compete with other non-UK swap dealers could be negatively affected were existing CFTC exemptive relief to expire or additional CFTC requirements to apply.

In October 2020, the CFTC finalised rules that will apply position limits to certain physical commodity swaps beginning in January 2022. The expansion of position limits requirements for swaps will significantly increase the burden and cost of executing certain commodity swaps and may adversely affect HSBC to a greater extent than some of our competitors.

The SEC has finalised the key rules governing the application of Title VII requirements to security-based swap ('SBS') dealers and major SBS participants. These rules share many similarities with parallel rules applicable to swap dealers finalised by the CFTC, but there are material differences in several key rulemaking areas. Because our equity and credit derivatives businesses are also subject to the CFTC's jurisdiction under Title VII, material differences between the final SEC rules and existing CFTC rules could materially increase our costs of compliance with Title VII by requiring the implementation of significant additional policies, procedures, documentation, systems and controls for those businesses. Compliance with the SEC's SBS dealer rules, including registration of SBS dealers, is scheduled to begin on 1 November 2021. Accordingly, HSBC Bank plc expects to rely on substituted compliance in connection with certain of its SBS dealer requirements, although the SEC has not yet made any substituted compliance determinations for UK-based firms. The substance and scope of those determinations will materially affect our costs of implementation and compliance.

In 2015, the US banking regulators, adopted final rules establishing margin requirements for non-cleared swaps and SBS. Subject to certain exceptions, the final margin rules require HSBC Bank USA and HSBC Bank plc to collect and post initial and variation margin for certain non-cleared swaps and SBS entered into with other swap dealers and financial end-users that exceed a minimum threshold of transactional activity and for financial end-users that do not meet the minimum transactional activity threshold, to collect and post variation margin (but not initial margin).

The margin rules also limit the types of assets that are eligible to satisfy initial and variation margin requirements, require initial margin to be segregated at a third-party custodian, impose requirements on internal models used to calculate initial margin requirements and contain specific provisions for cross-border and inter-affiliate transactions.

In June 2020, the U.S. banking regulators finalized a rule that makes significant amendments to the margin rules, including (i) mostly exempting swap entities from needing to collect initial margin for swaps with affiliates; (ii) preserving legacy status for swaps that are amended to replace certain interest rate provisions or due to technical amendments, notional reductions, or portfolio compression exercises; (iii) clarifying the time at which initial margin trading documentation must be in place; and (iv) adding a new compliance phase for initial margin requirements. The amendments in the final rule took effect 31 August 2020, which reduced the amount of initial margin HSBC Bank USA and HSBC Bank plc need to collect from many of their affiliates. The final margin rules follow a phased implementation schedule with additional counterparties becoming subject to initial margin requirements in September 2021 and September 2022, depending on the transactional volume of the parties and their affiliates. These final rules, as well as parallel non-cleared swaps and SBS margin rules from the CFTC, the SEC and certain non-US regulators increase the costs and liquidity burden associated with trading non-cleared swaps and SBS, and may adversely affect our business in such products.

Dodd-Frank grants the SEC discretionary rule-making authority to modify the standard of care that applies to brokers, dealers and investment advisers when providing personalised investment advice to retail customers and to harmonise other rules applying to these regulated entities. In June 2019, pursuant to this authority, the SEC finalised a rule that requires broker-dealers to act in the best interest of a retail customer when making a recommendation of any securities transaction or investment strategy involving securities. This rule impacts the manner in which business is

conducted with customers seeking investment advice and may affect certain investment product offerings.

Dodd-Frank also expands the extra-territorial jurisdiction of US courts over actions brought by the SEC or the US with respect to violations of the anti-fraud provisions in the Securities Act, the Securities Exchange Act of 1934 and the Investment Advisers Act of 1940. In addition, regulations which the FSOC, the Consumer Financial Protection Bureau or other regulators may adopt could affect the nature of the activities that our FDIC-insured depository institution subsidiaries may conduct, and may impose restrictions and limitations on the conduct of such activities. The implementation of the remaining Dodd-Frank provisions could result in additional costs or limit or restrict the way we conduct our business in the US.

### Global and regional prudential and other regulatory developments

The Group is subject to regulation and supervision by a large number of regulatory bodies and other agencies. In addition to changes being introduced at a country level, changes are often driven by global bodies such as the G-20, the FSB and the Basel Committee, which are then implemented at country level or regionally through the EU and the UK sometimes with modifications and with separate additional measures.

We are also subject to regulatory stress testing in many jurisdictions. These have increased both in frequency and in the granularity of information required by supervisors. They include the programmes of the BoE, the FRB (as explained in the 'US regulation and supervision' section), the OCC, the EBA, the ECB, the HKMA and other regulators. For further details, see 'Stress testing' on page 134. On prudential changes, further details can be found in the 'Regulatory developments' section on page 6 of the *Pillar 3 Disclosures at 31 December 2020*.

### Recovery and resolution

The HSBC Group is subject to recovery and resolution requirements in many of the jurisdictions in which it operates. In Europe, the BRRD establishes a framework for the recovery and resolution of EU credit institutions and investment firms. This framework has been established where HSBC has material or locally significant operating banks operating in the European region including France and Malta. Although outside the EU, the UK has implemented recovery and resolution requirements that are materially consistent with the framework set out in the BRRD. In Hong Kong, the Banking Ordinance and Financial Institutions (Resolution) Ordinance set out requirements for recovery and resolution planning, respectively. In the US, the Board of Governors of the Federal Reserve System ('FRB') and Federal Deposit Insurance Corporation ('FDIC') have jointly implemented Dodd-Frank Act resolution planning requirements for depository institution holding companies that are at or above certain thresholds. The FDIC has a separate resolution planning requirement for insured depository institutions (the 'IDI Plan'), although the FDIC Chair has stated that the IDI Plan requirement is being held in abeyance pending finalisation of a new rule. The FRB has separately established a framework for recovery plans, although HSBC is not currently required to submit a recovery plan to US regulators unless specifically requested to do so. In general, each respective part of the HSBC Group is responsible for ensuring that it meets local recovery and resolution requirements where they exist, which are mainly applicable only to those regulated entities in a particular jurisdiction. The PRA/FCA and BoE, however, represent the lead regulators from a prudential and resolution perspective for the consolidated HSBC Group.

#### Recovery

HSBC maintains recovery plans that are designed to outline credible actions that the HSBC Group could implement in the event of severe stress in order to restore its business to a stable and sustainable condition. HSBC typically submits recovery plans on an annual basis both to the PRA and to other regulators that have implemented recovery planning requirements. HSBC's recovery plans are continually re-appraised, and this involves

stress testing and 'fire drill' tests at the Group and material entity levels.

#### Resolution

Resolution refers to the exercise of statutory powers where a financial institution and/or its parent or other group company is deemed by its regulators to be failing, or likely to fail and it is not reasonably likely that action could be taken that would result in the institution recovering.

HSBC issues loss absorbing instruments to external investors predominantly from HSBC Holdings in order to ensure loss absorbing capacity is available to support the objectives of a resolution, were such an event to occur. In the event of a resolution of the HSBC Group, in the UK, it is anticipated that the MREL issued externally by HSBC Holdings would be written down or converted to equity by the BoE using its statutory powers. This would enable subsidiaries of the HSBC Group to be recapitalised, as needed, to support the resolution objectives and maintain the provision of critical functions. Recapitalisation of subsidiaries could be achieved through the write-down, or conversion to equity, of internally issued MREL, TLAC or LAC. It is anticipated that this approach to recapitalising the HSBC Group's subsidiaries could allow the HSBC Group to stay together in order to ensure an effective stabilisation of the HSBC Group, as a whole, whilst also facilitating an orderly restructuring process, as needed, to remediate the cause of resolution.

In view of the HSBC Group's legal structure which comprises a group of locally regulated operating banks, HSBC recognises the imperative for local regulators to be satisfied with resolution planning as those regulators may ultimately determine the need to use the statutory powers available to them locally to resolve or place into insolvency HSBC subsidiaries in their jurisdictions. In addition to the BoE and the PRA/FCA, HSBC is overseen locally by other regulators and resolution authorities such as the ECB, the European Banking Union's Single Resolution Board, the HKMA, and the FRB, FDIC and OCC, and many of these have statutory resolution powers which could be applied to the local subsidiaries of the HSBC Group in their jurisdictions. The application of these local statutory resolution powers may result in one or more individual resolution authorities leading a local resolution of the subsidiaries within their jurisdiction. This may or may not result in such subsidiaries ceasing to be part of the HSBC Group, depending on the resolution strategy adopted by the relevant resolution authority.

The HSBC Group can, therefore, be resolved either on a consolidated basis or at a local level, in combination with a bail-in of externally issued MREL at the HSBC Holdings level. This preferred resolution strategy for the HSBC Group, as confirmed by its regulators, is a multiple point of entry ('MPE') strategy.

In July 2019, the BoE and PRA published final policies on the Resolvability Assessment Framework ('RAF'), which places the onus on firms to demonstrate their own resolvability and is designed to increase transparency and accountability for resolution planning. In order to be considered resolvable, HSBC must meet three outcomes (i) have adequate resources in resolution; (ii) be able to continue business through resolution and restructuring; and (iii) be able to co-ordinate its resolution and communicate effectively with stakeholders.

The RAF requires HSBC to perform a self-assessment of its preparedness for resolution, submit a report of the outcome of this self-assessment to the PRA in October 2021 and publish a public summary of the HSBC Group's resolvability in June 2022. The BoE will similarly publish a statement concerning the resolvability of HSBC at the same time.

HSBC continues to engage with the BoE, PRA and its global regulators in other jurisdictions to ensure that it meets current and future recovery and resolution requirements.

#### European regulation

Through the UK's membership of the EU, HSBC has been both directly and indirectly subject to European financial services regulation. The UK left the EU on 31 January 2020 but was subject



to EU law during a transition period, which ended on 31 December 2020. At the end of the transition period, the HSBC Group and its subsidiaries in the UK ceased to be subject to EU law. However, EU law continues to apply to HSBC's EU subsidiaries.

On 30 December 2020, the UK and the EU signed a Trade and Cooperation Agreement ('TCA') setting out their future relationship. The TCA is in force in the UK and the agreement applies provisionally in the EU, pending the completion of the ratification procedures necessary for its entry into force. The financial services provisions of the agreement are limited. In particular, the TCA provided no new arrangements to replace the passporting arrangements which allowed UK and EU firms access to the others markets. The agreement preserves the respective rights of both the UK and EU to put in place measures for prudential reasons. In a declaration accompanying the TCA, the UK and EU have agreed to establish structured regulatory cooperation on financial services, with the aim of establishing a durable and stable relationship. The declaration states that these arrangements will allow for 'transparency and appropriate dialogue in the process of adoption, suspension and withdrawal of equivalence decisions' and 'enhanced cooperation and coordination'. The EU and UK have also committed to agree, by March 2021, a Memorandum of Understanding establishing the framework for this cooperation and to discuss how to move forward with equivalence determinations between them.

During the transition period, the UK implemented EU legislative changes that were scheduled to enter into force before the end of the implementation period. Certain changes that were scheduled to enter into force after 31 December 2020 will be implemented separately by the UK under the Financial Services Bill (the 'Bill') which proposes powers for HMT to revoke rules within the CRR where they are superseded by new rules published by the Basel Committee. The Bill contains a specified list of publications by the Basel Committee that may be used as a basis to revoke the CRR. This includes all of the papers that form the basis of the Basel III Reforms, including those that have been enacted by the EU as part of its amendments to the CRR ('CRR2').

The PRA will be responsible for designing and writing the new rules. The Bill does not require that the PRA implement rules that replicate the Basel III Reforms in the UK; instead, the PRA will be given the discretion to decide the substance of the rule, having regards to the likely effect of the rules on the relative standing of the UK as a place for internationally active banks to be based or to carry on activities.

In the EU, the principal changes arising from the CRR2 will enter into force in June 2021. In order to give firms in the UK a reasonable time to implement following the finalisation of the UK's version of the rules, the PRA has announced a delay to the UK's implementation of CRR2 until 1 January 2022. The remaining Basel III Reforms remain scheduled for 1 January 2023.

## Financial crime regulation

HSBC has built a strong financial crime risk management framework across its global Compliance function. We are committed to acting with integrity, and conducting our activities in each of the countries and territories in which we operate around the world in accordance with all laws and regulations relating to financial crime; namely money laundering, sanctions breaches, fraud, bribery and corruption, tax evasion, and terrorist and proliferation financing.

HSBC has established a global anti-money laundering ('AML') programme to enable HSBC to appropriately mitigate the money laundering, terrorist and proliferation financing risks that it may face. The AML programme is informed by various laws, regulations and regulatory guidance from the UK, the EU, Hong Kong, and the US, although local country requirements which are more stringent will apply to the local HSBC business or entity.

The AML programme is designed to ensure that our employees know how to detect, prevent and manage money laundering risks, and we continue to evolve our AML programme in the light of emerging risks and new regulations.

HSBC's global sanctions policy is based on a comprehensive assessment of financial crime risk and is derived from the sanctions resolutions, laws and regulations of the United Nations Security Council, the UK, Hong Kong, the EU and the US, and seeks to adopt the highest and most effective standard.

During 2020, the US has continued to expand the scope of sanctions against Iran, North Korea, Syria, Cuba and Russian gas export pipeline projects. Some of these US sanctions have extraterritorial effect and may affect non-US operators undertaking certain activity captured by these sanctions. In addition, the US also enacted legislation authorising sanctions to be imposed on individuals and entities determined by the US to be involved in undermining Hong Kong's autonomy and human rights abuses in the Xinjiang Uyghur Autonomous Region of China. The EU also imposed targeted sanctions against Russia and Turkey. The UK enacted human rights sanctions legislation, which was the UK's first new autonomous sanctions regime post-Brexit. The EU participants to the Joint Comprehensive Plan of Action ("JCPOA") and Iran both triggered the JCPOA's dispute resolution mechanism, which could lead to the snapback of EU and UN sanctions on Iran if the disputes are unresolved. As HSBC's global sanctions policy is based on a comprehensive assessment of financial crime risk and acknowledges the primacy of local laws, no material changes were required to our global sanctions policy as a result of the changes to the US, UK and EU sanctions regulations. We do not consider that our business activities with counterparties with whom transactions are restricted under applicable sanctions are material to our business for the year ended 31 December 2020.

HSBC requires compliance with all applicable anti-bribery and corruption laws in all markets and jurisdictions in which we operate. These laws include the UK Bribery Act, the US Foreign Corrupt Practices Act, and the Hong Kong Prevention of Bribery Ordinance, as well as other similar laws and regulations in the countries where we operate. We have a global anti-bribery and corruption policy, which gives practical effect to these laws and regulations, but also requires compliance with the spirit of laws and regulations to demonstrate HSBC's commitment to ethical behaviours and conduct.

Despite the expiration on 11 December 2017 of the five-year deferred prosecution agreement ('DPA') entered into with the US Department of Justice, and the dismissal of the charges contained within, we continue to take further steps to refine and strengthen our defences against financial crime by investing in advanced analytics and artificial intelligence. HSBC Bank USA entered into a Consent Order with the Office of the Comptroller of the Currency, and HSBC North American Holdings ('HNAH') entered into a Consent Order with the Federal Reserve Board in October 2010. The Orders required improvement of our compliance risk management programme, including AML controls across our US businesses. These Orders were both terminated in 2018.

In 2012, Holdings entered into a Consent Order with the Federal Reserve Board (the "2012 Order") and agreed to an undertaking with the Financial Services Authority (from 2013 a Direction from the UK Financial Conduct Authority (the "FCA Direction")), both of which contained certain forward-looking obligations in relation to HSBC's AML and sanctions compliance programme. Reflective of HSBC's progress towards achieving a sustainable financial crime risk management capability, in July 2020, the FCA issued a new Direction, replacing the previous Direction issued in 2013. The 2012 Order and the FCA Direction remain in effect as of year-end 2020.

---

## Disclosures pursuant to Section 13(r) of the Securities Exchange Act

Section 13(r) of the Securities Exchange Act requires each issuer registered with the SEC to disclose in its annual or quarterly reports whether it or any of its affiliates have knowingly engaged in specified activities or transactions with persons or entities targeted by U.S. sanctions programmes relating to Iran, terrorism, or the proliferation of weapons of mass destruction, even if those activities are not prohibited by U.S. law and are conducted outside the U.S. by non-U.S. affiliates in compliance with local laws and regulations.

To comply with this requirement, HSBC Holdings plc (together with its affiliates, "HSBC") has requested relevant information from its affiliates globally. The following activities conducted by HSBC are disclosed in response to Section 13(r):

### Legacy contractual obligations related to guarantees

Between 1996 and 2007, we provided guarantees to a number of our non-Iranian customers in Europe and the Middle East for various business activities in Iran. In a number of cases, we issued counter indemnities involving Iranian banks as the Iranian beneficiaries of the guarantees required that they be backed directly by Iranian banks. The Iranian banks to which we provided counter indemnities included Bank Tejarat, Bank Mellī, and the Bank of Industry and Mine.

There was no measurable gross revenue in 2020 under those guarantees and counter indemnities. We do not allocate direct costs to fees and commissions and, therefore, have not disclosed a separate net profit measure. We are seeking to cancel all relevant guarantees and counter indemnities, and we do not currently intend to provide any new guarantees or counter indemnities involving Iran. None were cancelled in 2020 and approximately 17 remain outstanding.

### Other relationships with Iranian banks

Activity related to U.S.-sanctioned Iranian banks not covered elsewhere in this disclosure includes the following:

- We act as the trustee and administrator for a pension scheme involving eight employees of a U.S.-sanctioned Iranian bank in Hong Kong. Under the rules of this scheme, we accept contributions from the Iranian bank each month and allocate the funds into the pension accounts of the Iranian bank's employees. We run and operate this pension scheme in accordance with Hong Kong laws and regulations. Estimated gross revenue, which includes fees and/or commissions, generated by this pension scheme during 2020, was approximately \$2,440.

For the Iranian bank related-activity discussed above, we do not allocate direct costs to fees and commissions and, therefore, have not disclosed a separate net profit measure.

We have been holding a safe custody box for the Central Bank of Iran. For a number of years, the box has not been accessed by the Central Bank of Iran, and no fees have been charged to the Central Bank of Iran.

We currently intend to continue to wind down the activity discussed in this section, to the extent legally permissible, and not enter into any new such activity.

### Activity related to U.S. Executive Order 13224

During 2020, we processed a number of small local currency payments on behalf of UK customers to a UK-registered charity that is designated under Executive Order 13224, but that is not sanctioned by the UK, EU, or the United Nations Security Council.

There was no measurable gross revenue or net profit to HSBC during 2020 relating to these transactions.

## Other activity

We have an insurance company customer in the United Arab Emirates that, during 2020, made local currency payments for the reimbursement of medical treatment to a hospital located in the United Arab Emirates and owned by the Government of Iran. We processed these payments to the hospital made by our customer.

We have a customer in the United Arab Emirates that, during 2020, received a local currency check for the reimbursement for food and medicine samples from a hospital located in the United Arab Emirates and owned by the Government of Iran. We processed this check from the hospital to our customer.

We have a small number of customers in the United Arab Emirates that, during 2020, received local currency checks from an Iranian-owned insurance company. We processed these checks to our customers.

We have a customer in India that, during 2020, received four local currency checks from the Consulate General of the Islamic Republic of Iran as part of retirement settlement funds. We processed these checks to our customer.

We have an international organisation as a customer in France, and during 2020, that customer received a local currency payment from the Iranian Embassy in Austria for membership fees. We processed this payment.

We have a customer in France that, during 2020, received four local currency payments from an Iranian-owned bank. We processed these payments to our customer.

We exited a customer relationship with the Iranian Embassy in the UK in 2013. In 2020, we made two domestic local currency payments to return funds related to this legacy customer relationship that were being held in an unclaimed balance account.

For these activities, there was no measurable gross revenue or net profit to HSBC during 2020.

## Frozen accounts and transactions

We maintain several accounts that are frozen as a result of relevant sanctions programmes, and safekeeping boxes and other similar custodial relationships, for which no activity, except as licensed or otherwise authorised, took place during 2020. There was no measurable gross revenue or net profit to HSBC during 2020 relating to these frozen accounts.

# Risk review

132	Our approach to risk
132	Our risk appetite
132	Risk management
134	Key developments in 2020
135	Risk elements in the loan portfolio
140	Top and emerging risks
140	Externally driven
144	Internally driven
146	Risk Factors
157	Areas of special interest
157	Risks related to Covid-19
159	UK withdrawal from the European Union
160	Our material banking risks
161	Credit risk
211	Treasury risk
224	Market risk
228	Resilience risk
228	Regulatory compliance risk
229	Financial crime risk
230	Model risk
231	Insurance manufacturing operations risk

## Operational resilience in a pandemic

We upheld our operational resilience during the Covid-19 outbreak during a period of increased demand on our teams and systems, with approximately 1.6 million of our WPB customers granted payment relief options across more than 30 markets.

We supplemented our existing approach to risk management with additional tools and practices helping to mitigate and manage risks. Initiatives included mortgage assistance, payment holidays, and the waiving of certain fees and charges.

As we helped our customers during these challenging times, we continued to prioritise effective and robust credit risk management. We also increased our focus on the quality and timeliness of the data used to inform management decisions, so we were able to manage the varying level of risk actively throughout the year.

▶ For further details of our customer relief programmes, see page 184.

### Our approach to risk

#### Our risk appetite

We recognise the importance of a strong culture, which refers to our shared attitudes, values and standards that shape behaviours related to risk awareness, risk taking and risk management. All our people are responsible for the management of risk, with the ultimate accountability residing with the Board.

We seek to build our business for the long term by balancing social, environmental and economic considerations in the decisions we make. Our strategic priorities are underpinned by our endeavour to operate in a sustainable way. This helps us to carry out our social responsibility and manage the risk profile of the business. We are committed to managing and mitigating climate-related risks, both physical and transition, and continue to incorporate consideration of these into how we manage and oversee risks internally and with our customers.

The following principles guide the Group's overarching appetite for risk and determine how our businesses and risks are managed.

#### Financial position

- We aim to maintain a strong capital position, defined by regulatory and internal capital ratios.
- We carry out liquidity and funding management for each operating entity, on a stand-alone basis.

#### Operating model

- We seek to generate returns in line with a conservative risk appetite and strong risk management capability.
- We aim to deliver sustainable earnings and consistent returns for shareholders.

#### Business practice

- We have zero tolerance for any of our people knowingly engaging in any business, activity or association where foreseeable reputational risk or damage has not been considered and/or mitigated.
- We have no appetite for deliberately or knowingly causing detriment to consumers, or incurring a breach of the letter or spirit of regulatory requirements.
- We have no appetite for inappropriate market conduct by any member of staff or by any Group business.

#### Enterprise-wide application

Our risk appetite encapsulates the consideration of financial and non-financial risks. We define financial risk as the risk of a financial loss as a result of business activities. We actively take these types of risks to maximise shareholder value and profits. Non-financial risk is the risk to achieving our strategy or objectives as the result of failed internal processes, people and systems, or from external events.

Our risk appetite is expressed in both quantitative and qualitative terms and applied at the global business level, at the regional level and to material operating entities. Every three years, the Global Risk function commissions an external independent firm to review the Group's approach to risk appetite and to help ensure that it remains in line with market best practice and regulatory expectations. The exercise carried out in 2019 confirmed the Group's risk appetite statement ('RAS') remains aligned to best practices, regulatory expectations and strategic goals. Our risk appetite continues to evolve and expand its scope as part of our regular review process.

The Board reviews and approves the Group's risk appetite twice a year to make sure it remains fit for purpose. The Group's risk appetite is considered, developed and enhanced through:

- an alignment with our strategy, purpose, values and customer needs;
- trends highlighted in other Group risk reports;

- communication with risk stewards on the developing risk landscape;
- strength of our capital, liquidity and balance sheet;
- compliance with applicable laws and regulations;
- effectiveness of the applicable control environment to mitigate risk, informed by risk ratings from risk control assessments;
- functionality, capacity and resilience of available systems to manage risk; and
- the level of available staff with the required competencies to manage risks.

We formally articulate our risk appetite through our RAS. Setting out our risk appetite ensures that we agree a suitable level of risk for our strategy. In this way, risk appetite informs our financial planning process and helps senior management to allocate capital to business activities, services and products.

The RAS consists of qualitative statements and quantitative metrics, covering financial and non-financial risks. It is applied to the development of business line strategies, strategic and business planning and remuneration. At a Group level, performance against the RAS is reported to the Group Risk Management Meeting ('RMM') alongside key risk indicators to support targeted insight and discussion on breaches of risk appetite and associated mitigating actions. This reporting allows risks to be promptly identified and mitigated, and informs risk-adjusted remuneration to drive a strong risk culture.

Each global business, region and strategically important country and territory is required to have its own RAS, which is monitored to help ensure it remains aligned with the Group's RAS. Each RAS and business activity is guided and underpinned by qualitative principles and/or quantitative metrics.

#### Risk management

We recognise that the primary role of risk management is to protect our customers, business, colleagues, shareholders and the communities that we serve, while ensuring we are able to support our strategy and provide sustainable growth. This is supported through our three lines of defence model described on page 134.

We are focused on the implementation of our business strategy, as part of which we are carrying out a major change programme. It is critical that we ensure that as we implement changes, we use active risk management to manage the execution risks.

We will also perform periodic risk assessments, including against strategies, to help ensure retention of key personnel for our continued safe operation.

We use a comprehensive risk management framework across the organisation and across all risk types, underpinned by our culture and values. This outlines the key principles, policies and practices that we employ in managing material risks, both financial and non-financial.

The framework fosters continual monitoring, promotes risk awareness and encourages sound operational and strategic decision making. It also ensures a consistent approach to identifying, assessing, managing and reporting the risks we accept and incur in our activities.

#### Our risk management framework

The following diagram and descriptions summarise key aspects of the risk management framework, including governance and structure, our risk management tools and our culture, which together help align employee behaviour with our risk appetite.

## Key components of our risk management framework

HSBC Values and risk culture		
Risk governance	Non-executive risk governance	The Board approves the Group's risk appetite, plans and performance targets. It sets the 'tone from the top' and is advised by the Group Risk Committee (see page 251).
	Executive risk governance	Our executive risk governance structure is responsible for the enterprise-wide management of all risks, including key policies and frameworks for the management of risk within the Group (see pages 134 and 160).
Roles and responsibilities	Three lines of defence model	Our 'three lines of defence' model defines roles and responsibilities for risk management. An independent Global Risk function helps ensure the necessary balance in risk/return decisions (see page 134).
Processes and tools	Risk appetite	The Group has processes in place to identify/assess, monitor, manage and report risks to help ensure we remain within our risk appetite.
	Enterprise-wide risk management tools	
	Active risk management: identification/assessment, monitoring, management and reporting	
Internal controls	Policies and procedures	Policies and procedures define the minimum requirements for the controls required to manage our risks.
	Control activities	Operational and resilience risk management defines minimum standards and processes for managing operational risks and internal controls.
	Systems and infrastructure	The Group has systems and/or processes that support the identification, capture and exchange of information to support risk management activities.

### Risk governance

The Board has ultimate responsibility for the effective management of risk and approves our risk appetite.

The Group Chief Risk Officer, supported by the RMM, holds executive accountability for the ongoing monitoring, assessment and management of the risk environment and the effectiveness of the risk management framework.

The Group Chief Risk Officer is also responsible for the oversight of reputational risk, with the support of the Group Reputational Risk Committee. The Group Reputational Risk Committee considers matters arising from customers, transactions and third parties that either present a serious potential reputational risk to the Group or merit a Group-led decision to ensure a consistent risk management approach across the regions, global businesses and global functions. Our reputational risk policy sets out our risk appetite and the principles for managing reputational risk. Further details can be found under the 'Reputational risk' section of [www.hsbc.com/our-approach/risk-and-responsibility](http://www.hsbc.com/our-approach/risk-and-responsibility).

The management of regulatory compliance risk and financial crime risk resides with the Group Chief Compliance Officer. Oversight is maintained by the Group Chief Risk Officer, in line with their enterprise risk oversight responsibilities, through the RMM.

Day-to-day responsibility for risk management is delegated to senior managers with individual accountability for decision making. All our people have a role to play in risk management. These roles are defined using the three lines of defence model, which takes into account our business and functional structures as described in the following commentary, 'Our responsibilities'.

We use a defined executive risk governance structure to help ensure there is appropriate oversight and accountability of risk, which facilitates reporting and escalation to the RMM. This structure is summarised in the following table.

### Governance structure for the management of risk

Authority	Membership	Responsibilities include:
Risk Management Meeting	Group Chief Risk Officer Group Chief Legal Officer Group Chief Executive Group Chief Financial Officer All other Group Executive Committee members	<ul style="list-style-type: none"> <li>Supporting the Group Chief Risk Officer in exercising Board-delegated risk management authority</li> <li>Overseeing the implementation of risk appetite and the risk management framework</li> <li>Forward-looking assessment of the risk environment, analysing possible risk impacts and taking appropriate action</li> <li>Monitoring all categories of risk and determining appropriate mitigating action</li> <li>Promoting a supportive Group culture in relation to risk management and conduct</li> </ul>
Global Risk Executive Committee	Group Chief Risk Officer Chief risk officers of HSBC's global businesses and regions Heads of Global Risk sub-functions	<ul style="list-style-type: none"> <li>Supporting the Group Chief Risk Officer in providing strategic direction for the Global Risk function, setting priorities and providing oversight</li> <li>Overseeing a consistent approach to accountability for, and mitigation of, risk across the Group</li> </ul>
Global business/regional risk management meetings	Global business/regional chief risk officer Global business/regional chief executive officer Global business/regional chief financial officer Global business/regional heads of global functions	<ul style="list-style-type: none"> <li>Supporting the Group Chief Risk Officer in exercising Board-delegated risk management authority</li> <li>Forward-looking Group assessment of the risk environment, analysing the possible risk impact and taking appropriate action</li> <li>Implementation of risk appetite and the risk management framework</li> <li>Monitoring all categories of risk and determining appropriate mitigating actions</li> <li>Embedding a supportive culture in relation to risk management and controls</li> </ul>

The Board committees with responsibility for oversight of risk-related matters are set out on page 255.

## Risk

### Our responsibilities

All our people are responsible for identifying and managing risk within the scope of their roles as part of the three lines of defence model.

#### Three lines of defence

To create a robust control environment to manage risks, we use an activity-based three lines of defence model. This model delineates management accountabilities and responsibilities for risk management and the control environment.

The model underpins our approach to risk management by clarifying responsibility and encouraging collaboration, as well as enabling efficient coordination of risk and control activities. The three lines of defence are summarised below:

- The first line of defence owns the risks and is responsible for identifying, recording, reporting and managing them in line with risk appetite, and ensuring that the right controls and assessments are in place to mitigate them.
- The second line of defence challenges the first line of defence on effective risk management, and provides advice and guidance in relation to the risk.
- The third line of defence is our Global Internal Audit function, which provides independent assurance that our risk management approach and processes are designed and operating effectively.

#### Global Risk function

Our Global Risk function, headed by the Group Chief Risk Officer, is responsible for the Group's risk management framework. This responsibility includes establishing global policy, monitoring risk profiles, and identifying and managing forward-looking risk. Global Risk is made up of sub-functions covering all risks to our business. Global Risk forms part of the second line of defence. It is independent from the global businesses, including sales and trading functions, to provide challenge, appropriate oversight and balance in risk/return decisions.

Responsibility for minimising both financial and non-financial risk lies with our people. They are required to manage the risks of the business and operational activities for which they are responsible. We maintain adequate oversight of our risks through our various specialist risk stewards and the collective accountability held by our chief risk officers.

Non-financial risk is the risk to achieving our strategy or objectives as a result of failed internal processes, people and systems, or from external events. Sound non-financial risk management is central to achieving good outcomes for our customers.

During 2020, we continued to strengthen the control environment and our approach to the management of non-financial risk, as broadly set out in our risk management framework. The management of non-financial risk focuses on governance and risk appetite, and provides a single view of the non-financial risks that matter the most and the associated controls. It incorporates a risk management system designed to enable the active management of non-financial risk. Our ongoing focus is on simplifying our approach to non-financial risk management, while driving more effective oversight and better end-to-end identification and management of non-financial risks. This is overseen by the Operational and Resilience Risk function, headed by the Group Head of Operational and Resilience Risk.

#### Stress testing and recovery planning

We operate a wide-ranging stress testing programme that is a key part of our risk management and capital and liquidity planning. Stress testing provides management with key insights into the impact of severely adverse events on the Group, and provides confidence to regulators on the Group's financial stability.

Our stress testing programme assesses our capital and liquidity strength through a rigorous examination of our resilience to external shocks. As well as undertaking regulatory-driven stress tests, we conduct our own internal stress tests in order to understand the nature and level of all material risks, quantify the

impact of such risks and develop plausible business-as-usual mitigating actions.

The Bank of England ('BoE') annual cyclical scenario stress test in 2020 was cancelled and the publication of the results of the 2019 biennial exploratory scenario on liquidity was postponed due to the Covid-19 outbreak.

#### Internal stress tests

Our internal capital assessment uses a range of stress scenarios that explore risks identified by management. They include potential adverse macroeconomic, geopolitical and operational risk events, as well as other potential events that are specific to HSBC.

The selection of stress scenarios is based upon the output of our identified top and emerging risks and our risk appetite. Stress testing analysis helps management understand the nature and extent of vulnerabilities to which the Group is exposed. Using this information, management decides whether risks can or should be mitigated through management actions or, if they were to crystallise, be absorbed through capital and liquidity. This in turn informs decisions about preferred capital and liquidity levels and allocations.

In addition to the Group-wide stress testing scenarios, each major subsidiary conducts regular macroeconomic and event-driven scenario analyses specific to its region. They also participate, as required, in the regulatory stress testing programmes of the jurisdictions in which they operate, such as the Comprehensive Capital Analysis and Review and Dodd-Frank Act Stress Testing programmes in the US, and the stress tests of the Hong Kong Monetary Authority ('HKMA'). Global functions and businesses also perform bespoke stress testing to inform their assessment of risks to potential scenarios.

We also conduct reverse stress tests each year at Group level and, where required, at subsidiary entity level to understand potential extreme conditions that would make our business model non-viable. Reverse stress testing identifies potential stresses and vulnerabilities we might face, and helps inform early warning triggers, management actions and contingency plans designed to mitigate risks.

#### Recovery and resolution plans

Recovery and resolution plans form part of the integral framework safeguarding the Group's financial stability. The Group recovery plan together with stress testing help us understand the likely outcomes of adverse business or economic conditions and in the identification of appropriate risk mitigating actions. The Group is committed to further developing its recovery and resolution capabilities in line with the BoE resolvability assessment framework requirements.

#### Key developments in 2020

We actively managed the risks resulting from the Covid-19 outbreak and its impacts on our customers and operations during 2020, as well as other key risks described in this section.

In addition, we enhanced our risk management in the following areas:

- In January 2020, we simplified our approach and articulation of risk management through the combination of our enterprise risk management framework and our operational risk management framework.
- The global model risk policy and associated standards were revised to improve how we manage model risk and meet enhanced external expectations.
- We continued to focus on simplifying our approach to non-financial risk management. We are implementing more effective oversight and better end-to-end identification and management of non-financial risks.
- We established the Treasury Risk Management function. This function is a dedicated second line of defence, providing independent oversight of treasury activities across capital risk, liquidity and funding risk, structural foreign exchange risk and

interest rate risk in the banking book, together with pension risk.

- We continued to support the business and our customers throughout the global pandemic, while continuing our focus on managing financial crime risk. We continued to invest in both advanced analytics and artificial intelligence, which remain key components of our next generation of tools to fight financial crime.
- We combined our Operational Risk and Resilience Risk teams to form a new Operational and Resilience Risk sub-function. This sub-function provides robust non-financial risk first line of defence oversight and risk steward oversight of the management of risk by the Group's businesses, functions, legal entities and critical business services. The sub-function helps to ensure that the first line of defence is focused firmly on priority tasks. By bringing the two teams together, we expect to benefit from improved stewardship, better risk management capabilities and better outcomes for our customers.
- We established a dedicated Climate Risk Oversight Forum to shape and oversee our approach to climate risk. We have also established a climate risk programme to drive the delivery of our enhanced climate risk management approach.

## Risk elements in the loan portfolio

Unless otherwise stated, the disclosure of credit risk elements in this section reflects US accounting practice and classifications. The purpose of the disclosure is to present within the US disclosure framework those elements of the loan portfolios with a greater risk of loss. The three main classifications of credit risk elements presented are:

- impaired loans;
- unimpaired loans contractually more than 90 days past due as to interest or principal; and
- troubled debt restructurings not included in the above.

### Interest forgone on impaired and restructured loans

	2020	2019
	\$m	\$m
Europe	192	181
Asia	122	103
Middle East and North Africa	111	125
North America	80	69
Latin America	52	37
<b>Year ended 31 Dec</b>	<b>557</b>	<b>515</b>

### Interest recognised on impaired and restructured loans

	2020	2019
	\$m	\$m
Europe	192	178
Asia	32	43
Middle East and North Africa	23	38
North America	60	57
Latin America	58	38
<b>Year ended 31 Dec</b>	<b>365</b>	<b>354</b>

## Impaired loans

A loan is impaired, and an impairment allowance is recognised, when there is objective evidence of a loss event that has an effect on the cash flows of the loan that can be reliably estimated. In accordance with IFRSs, we recognise interest income on assets after they have been written down as a result of an impairment loss.

The balance of impaired loans at 31 December 2020 was \$19.4bn, \$5.7bn higher than \$13.7bn at 31 December 2019. This increase was largely due to an increase in impaired loans and advances to customers with corporate and commercial customers of \$4.6bn, personal lending customers of \$0.8bn and non-bank financial institutions of \$0.3bn.

## Unimpaired loans more than 90 days past due

Under IFRS 9, the Group determines that a financial instrument is credit impaired and in stage 3 by considering relevant objective evidence, primarily whether:

- contractual payments of either principal or interest are past due for more than 90 days;
- there are other indications that the borrower is unlikely to pay such as that a concession has been granted to the borrower for economic or legal reasons relating to the borrower's financial condition; and
- the loan is otherwise considered to be in default.

If such unlikelihood to pay is not identified at an earlier stage, it is deemed to occur when an exposure is 90 days past due, even where regulatory rules permit default to be defined based on 180 days past due. Therefore, the definitions of credit impaired and default are aligned as far as possible so that stage 3 represents all loans that are considered defaulted or otherwise credit impaired. Interest income is recognised by applying the effective interest rate to the amortised cost amount, (i.e. gross carrying amount less ECL allowance).

As a financial instrument is considered impaired if contractual payments of either principal or interest are past due for more than 90 days, these amounts will be reported under impaired loans with no balance reported under unimpaired loans more than 90 days past due.

Previously under IAS 39, examples of unimpaired loans more than 90 days past due included individually assessed mortgages that are in arrears more than 90 days where there was no other indicators of impairment, but where the value of collateral was sufficient to repay both the principal debt and all potential interest for at least one year; and short-term trade facilities past due more than 90 days for technical reasons such as delays in documentation, but where there was no concern over the creditworthiness of the counterparty.

## Troubled debt restructurings

Under US GAAP, a troubled debt restructuring ('TDR') is a loan, the terms of which have been modified for economic or legal reasons related to the borrower's financial difficulties to grant a concession to the borrower that the lender would not otherwise consider. A modification that results in a delay in payment that is considered insignificant is not regarded as a concession for the purposes of this disclosure. The SEC requires separate disclosure of any loans that meet the definition of a TDR that are not included in the previous two loan categories. These are classified as TDRs in the table on page 137. Loans that have been identified as a TDR under the US guidance retain this designation until maturity or derecognition. This treatment differs from the Group's impaired loans disclosure convention under IFRSs under which a loan may return to unimpaired status after demonstrating a significant reduction in the risk of non-payment of future cash flows. As a result, reported TDRs include those loans that have returned to unimpaired status under the Group's disclosure convention for renegotiated loans.

The balance of TDRs not included as impaired loans at 31 December 2020 was \$1.3bn, \$1bn lower than 2019 mainly due to a reduction in Europe and MENA. Under the Group's IFRS 9 methodology financial instruments (except for renegotiated loans) are transferred out of stage 3 when they no longer exhibit any evidence of credit impairment. Wholesale renegotiated loans will continue to be in stage 3 until there is sufficient evidence to demonstrate a significant reduction in the risk of non-payment of future cash flows, observed over a minimum one-year period and there are no other indicators of impairment. For loans that are assessed for impairment on a portfolio basis, the evidence typically comprises a history of payment performance against the original or revised terms, as appropriate to the circumstances. For loans that are assessed for impairment on an individual basis, all available evidence is assessed on a case-by-case basis. Retail renegotiated loans are deemed to remain credit impaired until repayment or derecognition.

### Potential problem loans

Potential problem loans are loans where information on possible credit problems among borrowers causes management to seriously doubt their ability to comply with the loan repayment terms. The following concentrations of credit risk have a higher risk of containing potential problem loans. Interest bearing financial instruments included in the “substandard” credit quality classification as disclosed on page 180 include financial instruments that would be regarded as potential problem loans. These are debt securities and bills with an external rating of CCC and below, wholesale lending rated CRR 8 and retail lending rated in band 6.

Under IFRS 9, an assessment of whether credit risk has increased significantly since initial recognition is performed at each reporting period by considering the change in the risk of default occurring over the remaining life of the financial instrument. Any financial instrument deemed to have suffered a significant increase in credit risk is transferred from stage 1 to stage 2.

The assessment explicitly or implicitly compares the risk of default occurring at the reporting date compared to that at initial recognition, taking into account reasonable and supportable information, including information about past events, current conditions and future economic conditions. The assessment is unbiased, probability weighted, and to the extent relevant, uses forward-looking information consistent with that used in the measurement of ECL.

The analysis of credit risk is multifactor. The determination of whether a specific factor is relevant and its weight compared with other factors depends on the type of product, the characteristics of the financial instrument and the borrower, and the geographical region. Therefore, it is not possible to provide a single set of criteria that will determine what is considered to be a significant increase in credit risk and these criteria will differ for different types of lending, particularly between retail and wholesale. However, unless identified at an earlier stage, all financial assets are deemed to have suffered a significant increase in credit risk when 30 days past due.

‘Renegotiated loans and forbearance’ on page 184 includes disclosure about the credit quality of loans whose contractual terms have been changed at some point in the life of the loan because of significant concerns about the borrower’s ability to make contractual payments when due. Renegotiated loans are classified as impaired when:

- there has been a change in contractual cash flow as a result of a concession that the lender would otherwise not consider; and
- it is probable that without the concession, the borrower would be unable to meet contractual payment obligations in full.

This presentation applies unless the concession is insignificant and there are no other indicators of impairment. The renegotiated loan will continue to be disclosed as impaired until there is sufficient evidence to demonstrate a significant reduction in the risk of non-repayment of future cash flows, and there are no other indicators of impairment.

Renegotiated loans that are not classified as impaired may have a higher risk of becoming delinquent in the future, and may therefore be potential problem loans. Further information regarding the credit quality classification of renegotiated loans can be found on page 161. Loans issued under customer relief schemes are not currently considered potential problem loans (unless otherwise categorised as stage 2 or 3), however, we continue to monitor the recoverability of loans granted under these programmes, including loans to a small number of customers that were subsequently found to be ineligible for such relief. The ongoing performance of such loans remains an area of uncertainty at 31 December 2020. Refer to page 184 for further details on customer relief schemes.

### Analysis of risk elements in the loan portfolio by geographical region

The following table sets out the amount of risk elements in loan portfolios included within loans and advances to customers and banks in the consolidated balance sheet, trading loans classified as in default and assets obtained by taking possession of security. The table excludes the amount of risk elements in loan portfolios classified as ‘Assets held for sale’ in the consolidated balance sheet.



Risk elements in the loan portfolio by geographical region

	2020	2019	2018	2017	2016
	\$m	\$m	\$m	\$m	\$m
<b>Impaired loans</b>					
Europe	9,151	7,135	6,434	8,042	8,062
Asia	4,718	2,284	2,521	2,249	2,499
Middle East and North Africa	2,233	2,003	2,233	1,949	2,230
North America	2,291	1,696	1,500	2,606	4,842
Latin America	979	592	659	624	595
	19,372	13,710	13,347	15,470	18,228
<b>Unimpaired loans contractually more than 90 days past due as to principal or interest</b>					
Europe	–	–	–	–	–
Asia	–	–	–	–	–
Middle East and North Africa	–	–	–	24	15
North America	–	–	–	–	3
Latin America	–	–	–	–	–
	–	–	–	24	18
<b>Troubled debt restructurings (not included in the classifications above)</b>					
Europe	1,073	1,665	1,682	1,890	1,900
Asia	–	68	98	273	269
Middle East and North Africa	150	452	527	459	549
North America	107	136	229	174	518
Latin America	19	30	189	83	130
	1,349	2,351	2,725	2,879	3,366
<b>Trading loans classified as in default</b>					
Europe	–	–	–	56	–
Asia	–	–	–	–	–
Middle East and North Africa	–	–	–	–	–
North America	–	–	–	–	–
Latin America	–	–	–	–	–
	–	–	–	56	–
<b>Risk elements on loans</b>					
Europe	10,224	8,800	8,116	9,988	9,962
Asia	4,718	2,352	2,619	2,522	2,768
Middle East and North Africa	2,383	2,455	2,760	2,432	2,794
North America	2,398	1,832	1,729	2,780	5,363
Latin America	998	622	848	707	725
	20,721	16,061	16,072	18,429	21,612
<b>Assets held for sale</b>					
Europe	10	18	16	14	16
Asia	28	27	39	51	46
Middle East and North Africa	–	–	–	–	1
North America	3	10	12	11	57
Latin America	3	3	9	18	22
	44	58	76	94	142
<b>Total risk elements</b>					
Europe	10,234	8,818	8,132	10,002	9,978
Asia	4,746	2,379	2,658	2,573	2,814
Middle East and North Africa	2,383	2,455	2,760	2,432	2,795
North America	2,401	1,842	1,741	2,791	5,420
Latin America	1,001	625	857	725	747
<b>At 31 Dec</b>	<b>20,765</b>	16,119	16,148	18,523	21,754
	%	%	%	%	%
Allowance for ECL/loan impairment allowances as a percentage of risk elements on loans	70.1	54.5	53.7	40.6	36.3

## Risk

### Supplementary information

#### Gross loans and advances by industry sector over five years

	In accordance with IFRS 9			In accordance with IAS 39	
	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
Personal	<b>460,809</b>	434,271	394,337	376,481	339,798
– first lien residential mortgages	<b>352,282</b>	322,178	293,333	278,173	249,778
– other personal	<b>108,527</b>	112,093	101,004	98,308	90,020
Corporate and commercial	<b>527,088</b>	540,499	534,577	522,248	465,827
– agriculture, forestry and fishing	<b>7,445</b>	6,696	6,701	6,302	5,261
– mining and quarrying	<b>11,947</b>	14,435	14,172	10,911	15,781
– manufacturing	<b>93,906</b>	104,380	105,704	115,531	112,965
– electricity, gas, steam and air-conditioning supply	<b>16,200</b>	15,040	16,044	17,397	14,302
– water supply, sewerage, waste management and remediation	<b>3,174</b>	3,501	3,523	2,806	2,380
– construction	<b>14,600</b>	15,287	15,254	15,443	14,876
– wholesale and retail trade, repair of motor vehicles and motorcycles	<b>90,663</b>	94,681	97,665	98,079	82,848
– transportation and storage	<b>29,433</b>	25,580	25,541	24,258	23,081
– accommodation and food	<b>26,071</b>	24,656	21,547	16,971	12,823
– publishing, audiovisual and broadcasting	<b>19,979</b>	19,971	21,172	18,405	19,058
– real estate	<b>127,027</b>	130,752	123,233	114,349	96,639
– professional, scientific and technical activities	<b>24,072</b>	24,122	22,573	18,094	15,557
– administrative and support services	<b>26,423</b>	25,714	25,103	19,960	15,707
– public administration and defence, compulsory social security	<b>2,008</b>	2,377	1,463	221	137
– education	<b>2,122</b>	1,900	1,829	1,490	1,033
– health and care	<b>5,510</b>	4,465	4,308	5,688	4,971
– arts, entertainment and recreation	<b>3,437</b>	2,824	5,041	3,003	2,490
– other services	<b>13,110</b>	14,276	13,913	20,354	16,989
– activities of households	<b>802</b>	791	830	–	–
– extra-territorial organisations and bodies activities	<b>10</b>	2	59	–	–
– government	<b>8,538</b>	8,313	8,073	11,728	8,442
– asset-backed securities	<b>611</b>	736	829	1,258	487
Financial	<b>146,238</b>	139,924	133,587	162,112	151,855
– non-bank financial institutions	<b>64,580</b>	70,705	61,407	71,719	63,729
– banks	<b>81,658</b>	69,219	72,180	90,393	88,126
<b>Total gross loans and advances</b>	<b>1,134,135</b>	1,114,694	1,062,501	1,060,841	957,480
Impaired loans and advances to customers	<b>19,372</b>	13,710	13,347	15,470	18,228
Impairment allowances on loans and advances to customers and banks	<b>14,532</b>	8,748	8,638	7,484	7,850
Loans and advances change in ECL/Loan impairment charge	<b>8,102</b>	2,629	1,896	1,992	3,350
– new allowances net of allowance releases	<b>8,428</b>	2,990	2,304	2,636	3,977
– recoveries	<b>(326)</b>	(361)	(408)	(644)	(627)

#### Loans and advances change in ECL/loan impairment charges by industry sector over five years

	In accordance with IFRS 9			In accordance with IAS 39	
	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
<b>Change in ECL/loan impairment charge/(release)</b>					
Personal	<b>2,622</b>	1,221	1,158	959	1,703
Corporate and commercial	<b>5,311</b>	1,331	786	927	1,608
Financial	<b>169</b>	77	(48)	106	39
<b>Year ended 31 Dec</b>	<b>8,102</b>	2,629	1,896	1,992	3,350

#### Loans and advances change in ECL/impairment losses as a percentage of average gross loans and advances to customers

	In accordance with IFRS 9			In accordance with IAS 39	
	2020 %	2019 %	2018 %	2017 %	2016 %
New allowances net of allowance releases	<b>0.80</b>	0.29	0.23	0.29	0.46
Recoveries	<b>(0.03)</b>	(0.04)	(0.04)	(0.07)	(0.07)
<b>Total charge for ECL/impairment losses</b>	<b>0.77</b>	0.25	0.19	0.22	0.39
Amount written off net of recoveries	<b>0.25</b>	0.24	0.22	0.28	0.32

## Movement in loans and advances allowance for ECL/impairment allowances over five years

	In accordance with IFRS 9			In accordance with IAS 39	
	2020 \$m	2019 \$m	2018 \$m	2017 \$m	2016 \$m
<b>Impairment allowances at 1 Jan</b>	<b>8,748</b>	8,638	7,484	7,850	9,573
Opening adjustment upon adoption of IFRS 9	–	–	1,882	N/A	N/A
Amounts written off	<b>(2,974)</b>	(2,797)	(2,553)	(3,173)	(3,456)
– personal	<b>(1,407)</b>	(1,345)	(1,380)	(1,720)	(1,602)
– corporate and commercial	<b>(1,537)</b>	(1,447)	(1,050)	(1,376)	(1,830)
– financial	<b>(30)</b>	(5)	(123)	(77)	(24)
Recoveries of amounts written off in previous years	<b>326</b>	361	408	644	627
– personal	<b>280</b>	314	290	545	515
– corporate and commercial	<b>44</b>	46	108	97	109
– financial	<b>2</b>	1	10	2	3
Loans and advances change in ECL/loan impairment charge	<b>8,375</b>	2,970	1,896	1,992	3,350
Exchange and other movements	<b>57</b>	(424)	(479)	171	(2,244)
<b>Allowance for ECL/Impairment allowances at 31 Dec</b>	<b>14,532</b>	8,748	8,638	7,484	7,850
ECL/Impairment allowances <sup>1</sup>					
– stage 1	<b>2,007</b>	1,311	1,287	N/A	N/A
– stage 2	<b>4,974</b>	2,286	2,110	N/A	N/A
– stage 3	<b>7,439</b>	5,052	5,047	N/A	N/A
– POCI	<b>112</b>	99	194	N/A	N/A
– individually assessed	<b>N/A</b>	N/A	N/A	4,960	4,932
– collectively assessed	<b>N/A</b>	N/A	N/A	2,524	2,918
<b>Allowance for ECL/Impairment allowances at 31 Dec</b>	<b>14,532</b>	8,748	8,638	7,484	7,850

1 In IAS 39, impairment allowances were categorised as being either individually or collectively assessed whereas IFRS 9 categorises ECL by staging.

## Movement in renegotiated loans and advances to customers

	2020				2019			
	Personal \$m	Corporate and commercial \$m	Financial \$m	Total \$m	Personal \$m	Corporate and commercial \$m	Financial \$m	Total \$m
Renegotiated loans as at 1 Jan	<b>2,207</b>	<b>5,947</b>	<b>63</b>	<b>8,217</b>	2,248	6,769	71	9,088
Loans renegotiated in the year without derecognition	<b>740</b>	<b>1,571</b>	<b>9</b>	<b>2,320</b>	489	1,084	7	1,580
Loans renegotiated in the year resulting in recognition of a new loan (POCI in 2020)	–	<b>13</b>	–	<b>13</b>	–	132	–	132
Net repayments and other	<b>(518)</b>	<b>(2,093)</b>	<b>(25)</b>	<b>(2,636)</b>	(530)	(2,038)	(15)	(2,583)
– Repayments	<b>(408)</b>	<b>(1,746)</b>	<b>(29)</b>	<b>(2,183)</b>	(438)	(1,345)	(16)	(1,799)
– Amounts written off	<b>(150)</b>	<b>(448)</b>	<b>(14)</b>	<b>(612)</b>	(108)	(441)	(2)	(551)
– Other	<b>40</b>	<b>101</b>	<b>18</b>	<b>159</b>	16	(252)	3	(233)
<b>Renegotiated loans as at 31 Dec</b>	<b>2,429</b>	<b>5,438</b>	<b>47</b>	<b>7,914</b>	2,207	5,947	63	8,217

## Country distribution of outstandings and cross-border exposures

We control the risk associated with cross-border lending through a centralised structure of internal country limits. Exposures to individual countries and cross-border exposure in the aggregate are kept under continual review.

The following table summarises the aggregate of our in-country foreign currency and cross-border outstandings by type of borrower to countries that individually represent in excess of 0.75% of our total assets. The classification is based on the

country of residence of the borrower but also recognises the transfer of country risk in respect of third-party guarantees, eligible collateral held and residence of the head office when the borrower is a branch. In accordance with the Bank of England Country Exposure Report (Form CE) guidelines, outstandings comprise loans and advances (excluding settlement accounts), amounts receivable under finance leases, acceptances, commercial bills, certificates of deposit, and debt and equity securities (net of short positions), and exclude accrued interest and intra-HSBC exposures.

## Risk

### In-country foreign currency and cross-border amounts outstanding

		Banks	Government and official institutions	Other	Total
	Footnotes	\$bn	\$bn	\$bn	\$bn
<b>At 31 Dec 2020</b>					
US		5.4	65.4	53.1	123.9
UK		15.9	10.8	45.1	71.8
Mainland China		21.7	14.0	35.4	71.1
Hong Kong		4.1	0.3	54.9	59.3
Japan		14.4	31.7	6.2	52.3
Germany		17.4	12.4	7.6	37.4
Canada		11.8	13.0	5.9	30.7
France	1	9.6	10.8	7.9	28.3
Singapore	1	1.6	11.0	14.8	27.4
<b>At 31 Dec 2019</b>					
US		4.4	73.3	36.7	114.4
UK		25.1	9.6	45.8	80.5
Mainland China		23.0	8.3	38.0	69.3
Hong Kong		2.6	0.2	43.7	46.5
Japan		17.9	29.7	10.5	58.1
Germany		15.7	7.1	7.6	30.4
Canada	1	8.7	9.2	8.4	26.3
France	1	6.2	8.0	7.4	21.6
Singapore	1	2.9	5.4	15.0	23.3
<b>At 31 Dec 2018</b>					
US		4.3	50.5	30.6	85.4
UK		28.0	9.5	39.8	77.3
Mainland China		23.0	6.7	32.2	61.9
Hong Kong		5.8	0.3	40.6	46.7
Japan		18.6	33.0	7.7	59.3
Germany		15.0	9.6	5.5	30.1
Canada		10.2	10.9	8.4	29.5
France	1	4.6	5.9	8.8	19.3
Singapore	1	4.1	8.9	12.1	25.1

1 These balances were between 0.75% and 1% of total assets. All other balances were above 1%.

### Top and emerging risks

We use a top and emerging risks process to provide a forward-looking view of issues with the potential to threaten the execution of our strategy or operations over the medium to long term.

We proactively assess the internal and external risk environment, as well as review the themes identified across our regions and global businesses, for any risks that may require global escalation, updating our top and emerging risks as necessary.

We define a 'top risk' as a thematic issue that may form and crystallise within one year, and which has the potential to materially affect the Group's financial results, reputation or business model. It may arise across any combination of risk types, regions or global businesses. The impact may be well understood by senior management and some mitigating actions may already be in place.

An 'emerging risk' is a thematic issue with large unknown components that may form and crystallise beyond a one-year time horizon. If it were to materialise, it could have a material effect on our long-term strategy, profitability and/or reputation. Existing mitigation plans are likely to be minimal, reflecting the uncertain nature of these risks at this stage. Some high-level analysis and/or stress testing may have been carried out to assess the potential impact.

Our current top and emerging risks are as follows.

#### Externally driven

##### Geopolitical and macroeconomic risks

Our operations and portfolios are exposed to risks associated with political instability, civil unrest and military conflict, which could

lead to disruption of our operations, physical risk to our staff and/or physical damage to our assets.

Global tensions over trade, technology and ideology can manifest themselves in divergent regulatory standards and compliance regimes, presenting long-term strategic challenges for multinational businesses.

The Covid-19 outbreak dominated the political and economic landscape through much of 2020. The twin shocks of a public health emergency and the resultant economic fallout were felt around the world, hitting both advanced and emerging markets. The closure of borders threatened medical and food supplies for many markets, leading to countries and territories focusing efforts on building resilient supply chains closer to home. The Covid-19 outbreak and corresponding vaccine roll-out will likely dominate the political and economic agenda for most of 2021.

Tensions could increase as countries compete for access to the array of vaccines either under development, approved or pending approval, while the potential differences of protection offered by vaccines, and the speed and scale with which they can be manufactured and distributed may further add to tensions.

The Covid-19 outbreak also heightened existing US-China tensions. Tensions span a wide range of issues, including trade, finance, military, technology and human rights. The Covid-19 outbreak has accelerated US and Chinese efforts to reduce mutual dependence in strategic industries such as sensitive technology, pharmaceuticals and precursor chemicals.

A range of tensions in US-China relations could have potential ramifications for the Group and its customers. These tensions could include divisions over Hong Kong, US funding of and trading with strategic Chinese industries and claims of human rights violations. Some of these tensions have manifested themselves through actions taken by the governments of the US and China in

2020 and early 2021. These tensions may affect the Group through the impact of sanctions, including the impact of sanctions on customers, and could result in regulatory, reputational and market risks for the Group.

The US has imposed a range of sanctions and trade restrictions on Chinese persons and companies, focusing on entities the US believes are involved in human rights violations, information technology and communications equipment and services, and military activities, among others. In response, China has announced a number of sanctions and trade restrictions that target or provide authority to target foreign officials and companies, including those in the US. Certain measures are of particular relevance.

The US Hong Kong Autonomy Act provides 'secondary sanctions' authority that allows for the imposition of US sanctions against non-US financial institutions found to be engaged in significant transactions with certain Chinese individuals and entities subject to US sanctions as a result of a US determination that these individuals or entities engaged in activities undermining Hong Kong's autonomy. The US has also imposed restrictions on US persons' ability to engage in transactions in or relating to publicly traded securities of a number of prominent Chinese companies. China has subsequently adopted regulations providing a framework for specific prohibitions against compliance with, and private rights of action for damages resulting from, measures that the government determines have an unjustified extraterritorial application that impairs Chinese sovereignty.

No penalties have yet been imposed against financial institutions under any of these measures, and their scope and application remain uncertain. These and any future measures that may be taken by the US and China may affect the Group, its customers, and the markets in which we operate.

It remains unclear the extent to which the new US administration will affect the current geopolitical tensions, following the inauguration of President Biden on 20 January 2021. However, long-term differences between the two nations will likely remain, which could affect sentiment and restrict global economic activity. We continue to monitor the situation.

While UK-China relations have historically been shaped by strong trade and investment, there are also emerging challenges. Following China's implementation of the Hong Kong national security law, the UK offered residency rights and a path to citizenship to eligible British National (Overseas) passport holders in Hong Kong. In addition, both the UK and Hong Kong governments have suspended their extradition treaties with each other.

As geopolitical tensions rise, the compliance by multinational corporations with their legal or regulatory obligations in one jurisdiction may be seen as supporting the law or policy objectives of that jurisdiction over another, creating additional reputational and political risks for the Group. We maintain an open dialogue with our regulators on the impact of legal and regulatory obligations on HSBC's business and customers.

China's expanding data privacy and cybersecurity laws could pose potential challenges to intra-group data sharing, especially within the Greater Bay Area. China's draft Personal Information Protection Law and Data Security Law, if passed in their current forms, could increase financial institutions' compliance burdens in respect of cross-border transfers of personal information. In Hong Kong, there is also an increasing focus by regulators on the use of data and artificial intelligence. Use of personal data through digital platforms for initiatives in the Greater Bay Area may need to take into account these evolving data privacy and cybersecurity obligations.

Emerging and frontier markets have suffered particularly heavily from the Covid-19 outbreak, in light of healthcare shortcomings, widespread labour informality, exposure to commodities production and often weak policy frameworks and buffers. Multilateral institutions have mobilised support for the weaker frontier markets, with the World Bank and G-20 marshalling efforts to implement a standstill on debt to public sector institutions. The

International Monetary Fund has also, to date, made approximately \$106bn in emergency funds available to over 80 countries. However, negotiations on debt to the private sector will likely prove more difficult, and may result in sovereign debt restructuring and defaults for several countries. Most developed markets are expected to recover from the crisis, as macroeconomic policies remain highly accommodative. However, permanent business closures and job losses in some sectors will likely prevent several developed markets from achieving pre-crisis growth rates or activity levels in the near term. These countries and territories should be able to shoulder the higher public deficits and debts necessary to offset private sector weaknesses, given the continuing low cost of servicing public debt. However, some continental European countries entered the Covid-19 crisis on a weak economic and fiscal footing and suffered high healthcare and economic costs. Although substantial joint EU monetary and fiscal measures should help support recoveries and keep debt servicing costs down at least through 2021, there are concerns that permanently higher debt burdens will eventually lead to investors questioning their sustainability. Renewed government restrictions in response to new waves of infections will put further pressure on these economies.

Central banks have reduced interest rates in most financial markets due to the adverse impact on the path for economic recovery from the Covid-19 outbreak, which has in turn increased the likelihood of negative interest rates. This raises a number of risks and concerns, such as the readiness of our systems and processes to accommodate zero or negative rates, the resulting impacts on customers, and the financial implications given the significant impact that prolonged low interest rates have had, and may continue to have, on our net interest income. For some products, we have floored deposit rates at zero or made decisions not to charge negative rates. This, alongside loans repriced at lower rates, will result in our commercial margins being compressed, which is expected to be reflected in our profitability. The pricing of this risk will need to be carefully considered. These factors may challenge the long-term profitability of the banking sector, including HSBC, and will be considered as part of the Group's transformation programme.

A Trade and Cooperation Agreement between the EU and the UK was agreed on 24 December 2020 and ratified by the UK on 30 December 2020. This avoids the imposition of tariffs and quotas on UK-EU goods trade, and thus a more material setback to the expected gradual recovery of the UK and EU economies from recessions caused by the Covid-19 outbreak. However, the new trading relationship features non-tariff barriers, and leaves several aspects of the broader relationship, including financial services trade, for further negotiation. While it is too early to assess the full economic impact, the UK's exit from the EU may lead to an increase in market volatility and economic risk, particularly in the UK, which could adversely impact our profitability and prospects for growth in this market. For further details on our approach to the UK's withdrawal from the EU, see 'Areas of special interest' on page 157.

The contraction in the global economy during 2020 has had varying effects on our customers, with many of them experiencing financial difficulties. This has resulted in an increase in expected credit losses ('ECL') and risk-weighted assets ('RWAs'). For further details on customer relief programmes, see page 184. For further details on RWAs, see page 216.

#### Mitigating actions

- We closely monitor economic developments in key markets and sectors and undertake scenario analysis. This helps enable us to take portfolio actions where necessary, including enhanced monitoring, amending our risk appetite and/or reducing limits and exposures.
- We stress test portfolios of particular concern to identify sensitivity to loss under a range of scenarios, with management actions being taken to rebalance exposures and manage risk appetite where necessary.

## Risk

- We undertake regular reviews of key portfolios to help ensure that individual customer or portfolio risks are understood and our ability to manage the level of facilities offered through any downturn is appropriate.
- We continually monitor the geopolitical outlook, in particular in countries where we have material exposures and/or a significant physical presence. We have also established dedicated forums to monitor geopolitical developments.
- We continue to carry out contingency planning following the UK's withdrawal from the EU and we are assessing the potential impact on our portfolios, operations and staff. This includes the possibility of disputes arising from differing interpretations of the Trade and Cooperation Agreement and other aspects of the bilateral relationship.
- We have taken steps to enhance physical security in those geographical areas deemed to be at high risk from terrorism and military conflicts.

### Climate-related risks

Climate change can have an impact across HSBC's risk taxonomy through both transition and physical channels. Transition risk can arise from the move to a low-carbon economy, such as through policy, regulatory and technological changes. Physical risk can arise through increasing severity and/or frequency of severe weather or other climatic events, such as rising sea levels and flooding.

These have the potential to cause both idiosyncratic and systemic risks, resulting in potential financial and non-financial impacts for HSBC. Financial impacts could materialise if transition and physical risks impact the ability of borrowers to repay their loans. Non-financial impacts could materialise if our own assets or operations are impacted by extreme weather or chronic changes in weather patterns, or as a result of business decisions to achieve our climate ambition.

Climate risks increased over 2020, primarily as a result of the pace and volume of policy and regulatory changes. These impacted the Group both directly and indirectly through our customers.

### Mitigating actions

- A dedicated Climate Risk Oversight Forum is responsible for shaping and overseeing our approach to climate risk to provide support in managing the Group climate-related risks that are outside of our risk appetite. We have also established a climate risk programme to drive the delivery of our plans relating to the enhancement of our risk management approach.
- The Group's risk appetite statement has been enhanced with quantitative metrics to articulate the risks from climate change and embed climate risk into our risk management framework. We established a transition risk framework to gain a better understanding of our exposure to the highest transition risk sectors.
- We implement sustainability risk policies as part of our reputational risk framework. We focus our policies on sensitive sectors that may have a high adverse impact on people or on the environment and in which we have a significant number of customers. These include sectors with potentially high-carbon impacts.
- We have conducted a climate stress test pilot to inform the development of our approach to climate risk management. This pilot also aims to help us prepare and build the necessary capabilities to execute the Bank of England's climate biennial exploratory scenario in 2021.
- We continue to engage with our customers, investors and regulators proactively when compiling and disclosing the information needed to manage climate risk. We also engage with initiatives actively, including the Climate Financial Risk Forum, Equator Principles, Taskforce on Climate-related Financial Disclosures and CDP (formerly the Carbon Disclosure Project) to drive best practice for climate risk management.

For further information, see our TCFD report on page 20.

### Ibor transition

Interbank offered rates ('Ibors') are used to set interest rates on hundreds of trillions of US dollars of different types of financial transactions and are used extensively for valuation purposes, risk measurement and performance benchmarking.

The UK's Financial Conduct Authority ('FCA') announced in July 2017 that it would no longer continue to persuade or require panel banks to submit rates for the London interbank offered rate ('Libor') after 2021. In addition, the 2016 EU Benchmark Regulation, which aims to ensure the accuracy, robustness and integrity of interest rate benchmarks, has resulted in other regulatory bodies reassessing their national benchmarks. As a result, industry-led national working groups are actively discussing the mechanisms for an orderly transition of five Libor currencies, four Asia-Pacific benchmarks that reference US dollar Libor, the Euro Overnight Index Average ('Eonia'), the Singapore interbank offered rate ('Sibor'), and the Turkish Lira interbank offered rate ('TRLibor') to their chosen replacement rates.

The transition process away from Ibors, including the transition of legacy contracts that reference Ibors, exposes HSBC to material execution risks, and increases some financial and non-financial risks.

As our Ibor transition programme progresses into the execution phase, resilience and operational risks are heightened. This is due to an expected increase in the number of new near risk-free rate ('RFR') products being rolled out, compressed timelines for the transition of legacy Ibor contracts and the extensive systems and process changes required to facilitate both new products and the transition. This is being exacerbated by the current interest rate environment where low Libor rates, in comparison with replacement RFRs, could affect decisions to transition contracts early, further compressing transition timelines. Regulatory compliance, legal and conduct risks may also increase as a result of both the continued sale of products referencing Ibors, and the sale of new products referencing RFRs, principally due to the lack of established market conventions across the different RFR products, and the compressed timelines for transition. Financial risks resulting from the discontinuation of Ibors and the development of market liquidity in RFRs will also affect HSBC throughout transition. The differences in Ibor and RFR interest rates will create a basis risk that we need to actively manage through appropriate financial hedging. Basis risk in the trading book and in the banking book may arise out of the asymmetric adoption of RFRs across assets and liabilities and across currencies and products. In addition, this may limit the ability to hedge effectively.

The continued orderly transition from Ibors continues to be the programme's key objective through 2021 and can be broadly grouped into two workstreams: the development of alternative rate and RFR product capabilities and the transition of legacy Ibor contracts.

### Development of alternative rate and RFR product capabilities

All of our global businesses have actively developed and implemented system and operational capabilities for alternative rates, such as base or prime rates and RFR products during 2020. Several key RFR product transactions were undertaken within the wholesale, Wealth and Personal Banking and Markets and Securities Services business areas. The offering of RFR products is expected to be expanded, with further releases for products referencing the Sterling Overnight Index Average ('Sonia') and the Secured Overnight Financing Rate ('SOFR') set for the first half of 2021, in addition to products linked to other RFRs set to be released throughout 2021.

These developments and the reduced suitability of Ibor products have enabled HSBC to cease selling certain Ibor-linked products. Notably, the origination of US adjustable rate mortgages linked to Libor has ceased, and Libor-linked loan products have been demised for Business Banking and mid-market enterprise segments in certain countries, where suitable alternatives are available.

While Ibor sales do continue for a number of product lines, Ibor exposures that have post-2021 maturities are reducing, aided by market compression of Ibor trades, and undertaking new transactions in alternative rate and replacement RFR products, as market liquidity builds.

### Transition legacy contracts

In addition to offering alternative rate and replacement RFR products, the development of new product capabilities will also help facilitate the transition of legacy Ibor and Eonia products. HSBC has begun to engage clients to determine their ability to transition in line with the readiness of alternative rate and replacement RFR products. The Covid-19 outbreak and the interest-rate environment may have affected clients' abilities to transition early, and has resulted in compressed timelines for the transition of legacy Ibor contracts. However, for some US dollar Libor legacy contracts, this timing risk may be mitigated in part by the recent announcement by the Libor benchmark administrator, ICE Benchmark Administration Limited ('IBA'), to consult on extending the publication of overnight and one, three, six and 12 month US dollar Libor settings to 30 June 2023. Despite the proposed extension, regulatory and industry guidance has been clear that market participants should cease writing new US dollar Libor contracts as soon as is practicable, and in any event by the end of 2021 for the majority of products. While the extended deadline will result in additional US dollar Libor transactions maturing before cessation, not all of them will, so it is possible that other proposed solutions, including legislative relief, will still be needed.

The Group continues to have Ibor and Eonia derivatives, loan and bond exposures maturing beyond 2021.

For the derivatives exposures, HSBC's main trading entities have adhered to the adoption of the International Swaps and Derivatives Association ('ISDA') protocol as a fallback provision, which came into effect in January 2021, and the successful changes made by clearing houses to discount derivatives using the euro short-term rate ('€STR') and SOFR, to reduce the risk of a disorderly transition of the derivatives market.

For HSBC's loan book, our global businesses have developed commercial strategies that include active client engagement and communication, providing detailed information on RFR products to determine our clients' abilities to transition to a suitable alternative rate or replacement RFR product, before Ibor cessation.

With respect to HSBC's legacy bond issuances referencing Ibors that may be subject to demise, we continue to assess the terms of those bond issuances and a variety of transition options, with a view to implementing, through 2021 and beyond, transition plans that we expect to be value neutral and in line with market practice. The timing of that implementation will depend on a variety of factors, including the expected timing for the demise of the relevant Ibor rate. The success of these transition plans will, to a certain extent, also depend on the participation and engagement of third-party market participants. In addition, bond issuances that reference Ibors by certain issuing entities in the Group also reduced during 2020, with such entities opting to issue bonds that reference RFRs such as Sonia and SOFR. For those bonds where HSBC is the paying agent, there remains dependence on engagement of third-party market participants in the transition process of their issued debt.

### Mitigating actions

- Our global Ibor transition programme continues to assist in progressing towards an orderly transition to alternative

benchmarks and replacement RFRs for our business and our clients, which is overseen by the Group Chief Risk Officer.

- We have widened the scope of the global Ibor transition programme to include additional interest rate benchmarks, where plans are in place to demise those benchmarks in the near future.
- We have and continue to carry out extensive training, communication and client engagement to facilitate appropriate selection of products.
- We have dedicated teams in place to support the development of and transition to alternative rate and replacement RFR products.
- We are implementing IT and operational changes to enable a longer transition window.
- We met the third quarter of 2020 regulatory endorsed milestones for implementing changes to contractual documentation and the clearing house-led transition to RFR discounting for derivatives.
- We actively compressed derivative contracts and are targeting regulatory endorsed and industry-agreed milestones for the cessation of new issuance of Libor transactions maturing post-2021. These include the first quarter 2021 for sterling Libor and the second quarter 2021 for US dollar Libor. This led to a reduction in the Group's Ibor portfolio of financial instruments.
- We are undertaking reviews of existing Ibor hedge accounting strategies and have implemented policy and entity tools in respect of regulatory reliefs.
- We assess, monitor and dynamically manage risks, and implement specific mitigating controls when required.
- We continue to engage with regulatory and industry bodies actively to mitigate risks relating to hedge accounting changes, multiple RFR market conventions, and so-called 'tough legacy' contracts that have no appropriate replacements or no likelihood of renegotiation to transition. This includes providing feedback and responses on recent IBA and FCA consultations.

### Financial instruments impacted by Ibor reform

(Audited)

Interest Rate Benchmark Reform Phase 2, the amendments to IFRSs issued in August 2020, represents the second phase of the IASB's project on the effects of interest rate benchmark reform. The amendments address issues affecting financial statements when changes are made to contractual cash flows and hedging relationships.

Under these amendments, changes made to a financial instrument measured at other than fair value through profit or loss that are economically equivalent and required by interest rate benchmark reform, do not result in the derecognition or a change in the carrying amount of the financial instrument. Instead they require the effective interest rate to be updated to reflect the change in the interest rate benchmark. In addition, hedge accounting will not be discontinued solely because of the replacement of the interest rate benchmark if the hedge meets other hedge accounting criteria.

These amendments applied from 1 January 2021 with early adoption permitted. HSBC adopted the amendments from 1 January 2020.

At 31 Dec 2020

Non-derivative financial assets<sup>2</sup>

Non-derivative financial liabilities<sup>2</sup>

Derivative notional contract amount

Financial instruments yet to transition to alternative benchmarks, by main benchmark				
USD Libor	GBP Libor	JPY Libor	Others <sup>1</sup>	
\$m	\$m	\$m	\$m	\$m
94,148	46,587	371	10,763	
33,602	7,183	1,548	549	
3,045,337	1,196,865	508,200	514,959	

<sup>1</sup> Comprises financial instruments referencing other significant benchmark rates yet to transition to alternative benchmarks (Euro Libor, Swiss franc Libor, Eonia, SOR, MIFOR, THBFX, PHIREF, TRLibor and Sibor).

<sup>2</sup> Gross carrying amount excluding allowances for expected credit losses.

## Risk

The amounts in the above table relate to HSBC's main operating entities where HSBC has material exposures impacted by Ibor reform, including in the UK, Hong Kong, France, the US, Mexico, Canada, Singapore, the UAE, Bermuda, Australia, Qatar, Germany, Japan and Thailand. The amounts provide an indication of the extent of the Group's exposure to the Ibor benchmarks that are due to be replaced. Amounts are in respect of financial instruments that:

- contractually reference an interest rate benchmark that is planned to transition to an alternative benchmark;
- have a contractual maturity date after 31 December 2021, the date by which Ibor is expected to cease; and
- are recognised on HSBC's consolidated balance sheet.

The administrator of Ibor, IBA, has announced a proposal to extend the publication date of most US dollar Ibor tenors until 30 June 2023. Publication of one-week and two-month tenors will cease after 31 December 2021. This proposal, if endorsed, would reduce the amounts presented in the above table as some financial instruments included will reach their contractual maturity date prior to 30 June 2023.

### Financial crime risk environment

Financial institutions remain under considerable regulatory scrutiny regarding their ability to prevent and detect financial crime. Financial crime threats continue to evolve, often in tandem with increased geopolitical developments and tensions, posing challenges for financial institutions to keep abreast of developments and manage conflicting laws. In particular, during 2020, the escalating US-China tensions had significant impacts on sanctions and export control legal and regulatory regimes. The global economic slowdown as a result of the Covid-19 outbreak, and the resulting rapid deployment of government relief measures to support individuals and businesses, have increased the risk of fraud. Developments around virtual currencies, stablecoins and central bank digital currencies have continued, with the industry's financial crime risk assessment and management frameworks in their early stages. The evolving regulatory environment presents an execution challenge. We continue to face increasing challenges presented by national data privacy requirements in a global organisation, which may affect our ability to manage financial crime risks effectively. There has also been an increase in media and public scrutiny on how financial crime is managed within financial institutions.

#### Mitigating actions

- We continue to enhance our financial crime risk management capabilities. We are investing in next generation capabilities to fight financial crime through the application of advanced analytics and artificial intelligence. We continue to monitor geopolitical developments closely and the impacts on our financial crime controls.
- We are strengthening and investing in our fraud controls, to introduce next generation anti-fraud capabilities to protect both our customers and the Group.
- We have developed procedures and controls to manage the risks associated with direct and indirect exposure to virtual currencies. We continue to monitor external developments. We continue to educate our staff on emerging digital products and associated risks.
- We continue to monitor external developments on stablecoins and central bank digital currencies, engaging with central banks and regulators on financial crime risk management.
- We continue to work with jurisdictions and relevant international bodies to address data privacy challenges through international standards, guidance and legislation to help enable effective management of financial crime risk.
- We continue to take steps designed to ensure that the reforms we have put in place are both effective and sustainable over the long term.

- We continue to work closely with our regulators and engage in public-private partnerships, playing an active role in shaping the industry's financial crime controls for the future.

### Regulatory compliance risk environment including conduct

Financial service providers continue to face numerous regulatory and supervisory requirements, particularly in the areas of capital and liquidity management, conduct of business, financial crime, internal control frameworks, the use of models and the integrity of financial services delivery. The competitive landscape in which the Group operates may be significantly altered by future regulatory changes and government intervention. Regulatory changes, including those driven by geopolitical issues, such as US-China tensions and those resulting from the UK's exit from the EU, may affect the activities of the Group as a whole, or of some or all of its principal subsidiaries. For further details, see page 140.

#### Mitigating actions

- We engage, wherever possible, with governments and regulators in the countries and territories in which we operate, to help ensure that new requirements are considered properly and can be implemented effectively. In particular, we were proactive with the global policy changes issued in response to the Covid-19 outbreak to help our customers and contribute to an economic recovery.
- We have had regular meetings with all relevant authorities to discuss strategic contingency plans, including those arising from geopolitical issues.

### Cyber threat and unauthorised access to systems

Together with other organisations, we continue to operate in an increasingly hostile cyber threat environment, which requires ongoing investment in business and technical controls to defend against these threats.

Key threats include unauthorised access to online customer accounts, advanced malware attacks, attacks on our third-party suppliers and security vulnerabilities being exploited.

#### Mitigating actions

- We continually evaluate threat levels for the most prevalent attack types and their potential outcomes. To further protect HSBC and our customers and help ensure the safe expansion of our global business lines, we strengthen our controls to reduce the likelihood and impact of advanced malware, data leakage, exposure through third parties and security vulnerabilities.
- We continue to enhance our cybersecurity capabilities, including Cloud security, identity and access management, metrics and data analytics, and third-party security reviews. An important part of our defence strategy is ensuring our colleagues remain aware of cybersecurity issues and know how to report incidents.
- We report and review cyber risk and control effectiveness quarterly at executive and non-executive Board level. We also report across our global businesses, functions and regions to help ensure appropriate visibility and governance of the risk and mitigating actions.
- We participate globally in several industry bodies and working groups to share information about tactics employed by cyber-crime groups and to collaborate in fighting, detecting and preventing cyber-attacks on financial organisations.

### Internally driven

#### Data management

We use a large number of systems and applications to support key business processes and operations. To manage the risk of error, HSBC employs data controls at the point of capture, transfer and consumption. Along with other organisations, we also need to meet external/regulatory obligations such as the General Data Protection Regulation ('GDPR') and Basel III.



### Mitigating actions

- We are improving data quality across a large number of systems globally. Our data management, aggregation and oversight continues to strengthen and enhance the effectiveness of internal systems and processes. We are implementing data controls for end-to-end critical processes to improve our data capture at the point of entry and throughout the data lifecycle.
- Through our global data management framework we are expanding and enhancing our data governance processes to help monitor the quality of critical customer, product, reference and transaction data proactively and resolve associated data issues in a timely manner.
- We continue to modernise our data and analytics infrastructure through investments in advanced capabilities in Cloud, visualisation, machine learning and artificial intelligence platforms.
- We help protect customer data via our global data privacy framework programme, which establishes data privacy practices, design principles and guidelines that help enable us to demonstrate compliance with data privacy laws and regulations in the jurisdictions in which we operate.
- To help our employees keep abreast of data privacy laws and regulations we hold data privacy awareness training, highlighting our commitment to protect personal data for our customers, employees and other stakeholders.

### Model risk management

Model risk arises whenever business decision making includes reliance on models. We use models in both financial and non-financial contexts, as well as in a range of business applications such as customer selection, product pricing, financial crime transaction monitoring, creditworthiness evaluation and financial reporting. Assessing model performance is a continuous undertaking. Models can need redevelopment as market conditions change. This was required following the outbreak of Covid-19 as some models used for estimating credit losses needed to be redeveloped due to the dramatic change to inputs including GDP, unemployment rates and housing prices.

Prior to the Covid-19 outbreak a key area of focus was improving and enhancing our model risk governance, and this activity continued throughout 2020. We prioritised the redevelopment of internal ratings-based ('IRB') and internal models methods ('IMM') models, in relation to counterparty credit, as part of the IRB repair and Basel III programmes with a key focus on enhancing the quality of data used as model inputs.

### Mitigating actions

- We enhanced the monitoring and review of loss model performance through our Model Risk Management function as part of a broader quarterly process to determine loss levels. The Model Risk Management team aims to provide strong and effective review and challenge of any future redevelopment of these models.
- We appointed model risk stewards for each of the global businesses and functions to support, oversee and guide the global businesses and functions on model risk management. The risk stewards will provide close monitoring of changes in model behaviour, working closely with business and function model owners and sponsors.
- We worked with the model owners of IRB models and traded risk models to increase our engagement on management of model risk with key regulators including the Prudential Regulation Authority ('PRA').
- We updated the model risk policy and introduced model risk standards to enable a more risk-based approach to model risk management.
- We refreshed the model risk controls through the risk control assessment process. Employees who work in the first line of defence are expected to complete testing using the new

enhanced controls in order to assess and understand model risk across the global businesses and key geographies.

- We upgraded the Group model inventory system to provide more granular measurement and management of model risk for multiple applications of a single model.
- We are redeveloping our IRB and IMM models for counterparty credit and our internal models approach ('IMA') for traded risk models. These will be submitted for PRA approval over the next two years.

### Risks arising from the receipt of services from third parties

We use third parties for the provision of a range of services, in common with other financial service providers. Risks arising from the use of third-party service providers may be less transparent and therefore more challenging to manage or influence. It is critical that we ensure we have appropriate risk management policies, processes and practices. These should include adequate control over the selection, governance and oversight of third parties, particularly for key processes and controls that could affect operational resilience. Any deficiency in our management of risks arising from the use of third parties could affect our ability to meet strategic, regulatory or customer expectations.

### Mitigating actions

- We continue to embed our delivery model in the first line of defence led by a global third-party management team, which works closely with our global businesses, global functions and regions. We have deployed processes, controls and technology to assess third-party service providers against key criteria and associated control monitoring, testing and assurance. This includes requesting third-party service providers to attest to HSBC's ethical code of conduct during onboarding.
- A dedicated oversight forum in the second line of defence monitors the embedding of policy requirements and performance against risk appetite.
- We delivered a major programme involving our global businesses, global functions and regions to help ensure that we are compliant with our third-party risk policy.
- We reviewed our external supplier engagements to ensure that they meet our third-party risk quality standards including remediation where necessary.
- We implemented a new process for risk assessing our internal group service providers and ensuring that services we provide to other parts of our business also meet defined standards.

### Risks associated with workforce capability, capacity and environmental factors with potential impact on growth

Our success in delivering our strategic priorities and managing the regulatory environment proactively depends on the development and retention of our leadership and high-performing employees. The ability to continue to attract, develop and retain competent individuals in an employment market impacted by the Covid-19 outbreak is challenging particularly due to organisational restructuring. Changed working arrangements, local Covid-19 restrictions and health concerns during the pandemic also impact on employee mental health and well-being.

### Mitigating actions

- We have put in place measures to help support our people so they are able to work safely during the Covid-19 outbreak. While our approach to workplace recovery around the world is consistent, the measures we take in different locations are specific to their environment.
- We promote a diverse and inclusive workforce and provide active support across a wide range of health and well-being activities. We continue to build our speak-up culture through active campaigns.

## Risk

- We monitor people risks that could arise due to organisational restructuring, helping to ensure we manage redundancies sensitively and support impacted employees.
- We launched the Future Skills curriculum through HSBC University to help provide critical skills that will enable employees and HSBC to be successful in the future.
- We continue to develop succession plans for key management roles, with actions agreed and reviewed on a regular basis by the Group Executive Committee.
- We have robust plans in place, driven by senior management, to mitigate the effects of external factors that may impact our employment practices. Political and regulatory challenges are closely monitored to minimise the impact on the attraction and retention of talent and key performers.

### IT systems infrastructure and resilience

We are committed to investing in the reliability and resilience of our IT systems and critical services. We do so to protect our customers and ensure they are not impacted by disruption to services.

#### Mitigating actions

- We continue to invest in transforming how software solutions are developed, delivered and maintained, with a particular focus on providing high-quality, stable and secure services. We concentrate on improving system resilience and service continuity testing. We have enhanced the security features of our software development life cycle and improved our testing processes and tools.
- We upgraded many of our IT systems, simplified our service provision and replaced older IT infrastructure and applications. These enhancements led to continued global improvements in service availability during 2020 for both our customers and employees.

### Change execution risk

In February 2020, we announced our plans to restructure our business, reallocate freed-up capital into higher-growth and higher-return businesses and markets, and to simplify our organisation and reduce costs. Our success in delivering our strategic priorities and continuing to address regulatory change and other top and emerging risks is dependent on the effective and safe delivery of change across the Group.

#### Mitigating actions

- We have established a global transformation programme to deliver the commitments made in February 2020. The programme is overseen by members of the Group Executive Committee. Related execution risks across the initiatives, including their sequencing and prioritisation, are being monitored and managed. Many of the initiatives impact our staff and require continued investment in technology.
- We continue to work to strengthen our change management practices to deliver sustainable change. These include increased adoption across the Group of Agile ways of working to deliver change.

### Risk factors

We have identified a suite of risk factors that cover a broad range of risks our businesses are exposed to. These risks have the potential to have a material adverse effect on our business, financial condition, results of operations, prospects, capital position, strategy, reputation and/or customers. They may not necessarily be deemed as top or emerging risks; however, they inform the ongoing assessment of our top and emerging risks that may result in our risk appetite being revised. The risk factors are set out below.

### Macroeconomic and geopolitical risk

#### Current economic and market conditions may adversely affect our results

Our earnings are affected by global and local economic and market conditions.

Uncertain and at times volatile economic conditions can create a challenging operating environment for financial services companies such as HSBC. In particular, we have faced and may continue to face the following challenges to our operations and operating model in connection with these factors:

- the Covid-19 outbreak and its impact on global economies could have a material adverse effect on (among other things) the profitability, capital and liquidity of financial services companies such as HSBC (see 'Risks relating to the impact of Covid-19');
- the demand for borrowing from creditworthy customers may diminish during periods of recession or where economic activity slows or remains subdued;
- low or negative interest rates could impact bank profitability due to reductions in banks' net interest income. This deterioration in bank profits might affect financial stability or cause credit supply to subsequently tighten;
- our ability to borrow from other financial institutions or to engage in funding transactions may be adversely affected by market disruption; and
- market developments may depress consumer and business confidence beyond expected levels. If economic growth is subdued, for example, asset prices and payment patterns may be adversely affected, leading to greater than expected increases in delinquencies, default rates and ECLs. However, if growth is too rapid, new asset valuation bubbles could appear, particularly in the real estate sector, with potentially negative consequences for banks.

The occurrence of any of these events or circumstances could have a material adverse effect on our business, financial condition, results of operations, prospects and customers.

### Risks relating to the impact of Covid-19

The Covid-19 outbreak and its effect on the global economy have impacted the Group's customers and performance, and the future effects of the outbreak are uncertain. Covid-19 necessitated governments to respond at unprecedented levels to protect public health, local economies and livelihoods. It has affected regions at different times and varying degrees as it has developed. The varying government support measures and restrictions imposed in response to the Covid-19 outbreak have added challenges, given the rapid pace of change and significant operational demands. The speed at which countries and territories will be able to unwind the government support measures and restrictions and return to pre-Covid-19 economic levels will vary based on the levels of infection, local governmental decisions and access to and ability to roll out vaccines. There remains a risk of subsequent waves of infection, as evidenced by the recently emerged variants of the virus. Renewed outbreaks emphasise the ongoing threat of Covid-19 even in countries that have recorded lower than average cases so far.

Government restrictions imposed around the world to limit the spread of Covid-19 resulted in a sharp contraction in global economic activity during 2020. At the same time governments also took steps designed to soften the extent of the damage to investment, trade and labour markets. Economic activity recovered unevenly in the second half of 2020 as some jurisdictions imposed renewed restrictions in the fourth quarter in response to a resurgence in Covid-19 cases. While a number of vaccine candidates have announced high efficacy rates, raising hopes of widespread immunisation from Covid-19 being achieved by the end of 2021 and government restrictions being eased, the rollout of vaccination programmes could be uneven across markets, hampering the global pace of recovery even as individual markets return to pre-pandemic levels of activity.

A recovery in economic activity in the Group's major markets is currently expected in 2021, but the level of such recovery is contingent on the successful containment of the virus and the evolution of other top risks. These include the UK's relationship

with the EU now that the transition period has ended, political unrest in Hong Kong and tensions between the US and China. It also relies on the willingness and ability of households and businesses to return towards pre-Covid-19 spending levels.

There is a material risk of a renewed drop in economic activity. The economic fallout from Covid-19 risks increasing inequality across markets that have already suffered from social unrest. This leaves the burden on governments and central banks to maintain or increase fiscal and monetary stimulus. After financial markets suffered a sharp fall in the early phases of the spread of Covid-19, they rebounded but still remain volatile. Depending on the degree to which global economic growth suffers permanent losses, financial asset prices may suffer a further sharp fall.

Depending on the time taken for economic activity to return to previous levels, there could be further adverse impacts on the Group's income due to lower lending and transaction volumes and lower wealth and insurance manufacturing revenue due to equity market volatility and weakness. Lower or negative interest rates globally will increase the cost of guarantees for insurance manufacturing, and there could also be adverse impacts on other assets, such as the Group's investment in Bank of Communications Co., Limited, goodwill and other intangible assets.

The Covid-19 outbreak may also have material impacts on capital and liquidity. This may include downward customer credit rating migration, which could negatively impact the Group's risk-weighted assets ('RWAs') and capital position, and potential liquidity stress due, among other factors, to increased customer drawdowns, notwithstanding the significant initiatives that governments and central banks have put in place to support funding and liquidity. Central banks in some markets have also initiated a series of capital measures, including the reduction of certain regulatory capital buffers, to support the ability of banks to supply credit to businesses and households through this period of economic disruption. For instance, the Bank of England's Financial Policy Committee reduced the UK countercyclical capital buffer rate to zero per cent.

Governments and central banks in major economies have deployed extensive measures to support their local populations. Measures implemented by governments included income support to households and funding support to businesses. Central bank measures included cuts to policy rates, support to funding markets and asset purchases. These measures are being extended in countries where further waves of the pandemic are prompting renewed government restrictions. Central banks are expected to maintain low interest rates for a considerable period of time as inflation remains contained and the debt burden of governments is expected to rise significantly.

The Group has initiated market-specific measures to support its personal and business customers through these challenging times. These have included mortgage assistance, payment holidays, the waiving of certain fees and charges, and liquidity relief for businesses facing market uncertainty and supply chain disruption. The Group is also working closely with governments, and providing support to national schemes that focus on the parts of the economy most impacted by Covid-19.

Central bank and government actions and support measures taken in response to the Covid-19 outbreak, and the Group's responses to those, have created, and may in the future create, restrictions in relation to capital. This has limited and may in the future limit management's flexibility in managing the business and taking action in relation to capital distribution and capital allocation. For example, on 31 March 2020, HSBC announced that in response to a written request from the PRA, the Group had cancelled the fourth interim dividend for 2019. We also announced that we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares until the end of 2020. Following this, in December 2020, the PRA announced a temporary approach to shareholder distributions by large UK banks for 2020 in which it set out a framework for board decisions on dividends. After considering the requirements of the temporary approach, the Board announced an interim dividend for 2020 of \$0.15 per

ordinary share. Should central banks or regulatory authorities introduce further restrictions in relation to our capital distributions, our ability to declare, or to pay, dividends or to carry out share buybacks may be negatively impacted.

It is recognised that all of the above measures and actions, and the Group's responses to those, expose the Group to heightened risks. The rapid introduction and varying nature of the government support schemes, as well as customer expectations, has led to risks as the Group implements large-scale changes in a short period of time. This has led to increased operational risks, including complex conduct considerations, increased reputational risk and increased risk of fraud. These risks are likely to be heightened further as and when those government support schemes are unwound. Central bank and government actions and support measures, and the Group's responses to those, have also led to increased litigation risk, including lawsuits that have been and may continue to be brought in connection with its cancellation of the fourth interim dividend for 2019.

In many of the Group's markets, the Covid-19 outbreak has led to a worsening of economic conditions and increased uncertainty, which has been reflected in higher ECL reserves. Furthermore, credit losses may increase due to exposure to vulnerable sectors of the economy, such as retail, hospitality and commercial real estate. The impact of the pandemic on the long-term prospects of businesses in these sectors is uncertain and may lead to significant credit losses on specific exposures, which may not be fully captured in ECL estimates. In addition, in times of crisis, fraudulent activity is often more prevalent, leading to potentially significant credit or operational losses.

The significant changes in economic and market drivers, customer behaviours and government actions caused by Covid-19 have also impacted the performance of financial models. These include retail and wholesale credit models such as IFRS loss models, as well as capital models, traded risk models and models used in the asset/liability management process. This has required more ongoing monitoring and more frequent testing across the Group, particularly for credit models. It also has resulted in enhanced and more frequent loss model monitoring and the use of compensating controls, specifically management judgemental adjustments based on the expert judgement of senior credit risk managers. See "The Group could incur losses or be required to hold additional capital as a result of model limitations or failure."

Central banks have reduced interest rates in most financial markets due to the adverse impact of the Covid-19 outbreak on the path for economic recovery, which in turn increased the likelihood of negative interest rates. This raises a number of risks and concerns, such as the readiness of the Group's systems and processes to accommodate zero or negative rates, the resulting impacts on customers and the financial implications given the significant impact that prolonged low interest rates have had, and may continue to have on the Group's net interest income. For some products, the Group has floored deposit rates at zero or made decisions not to charge negative rates. This, alongside loans repriced at lower rates, will result in the Group's commercial margins being compressed, which has been and is expected to continue to impact the Group's profitability. The pricing of this risk will need to be considered carefully. If there is a rebalancing of portfolios toward fee-generating business and trading activities to offset reduced profits, the Group may become exposed once rates start rising again. These factors may challenge the long-term profitability of the banking sector, including the Group. There remain significant uncertainties in assessing the duration of the Covid-19 outbreak and its impact. The actions taken by various governments and central banks, in particular in the UK, mainland China, Hong Kong and the U.S., provide an indication of the potential severity of the downturn and post-recovery environment, which from a commercial, regulatory and risk perspective could be significantly different to past crises and persist for a prolonged period. A continued period of significantly reduced economic activity as a result of the impact of the Covid-19 outbreak could have a material adverse effect on the Group's financial condition, results of operations, prospects, liquidity, capital position and credit ratings.

### **We are subject to political, social and other risks in the countries in which we operate**

We operate through an international network of subsidiaries and affiliates across countries and territories around the world. Our global operations are subject to potentially unfavourable political, social, environmental and economic developments in such jurisdictions, which may include:

- coups, civil wars or acts of terrorism;
- political and/or social instability;
- geopolitical tensions;
- climate change, acts of God, including epidemics and pandemics (such as the Covid-19 outbreak, further details on which can be found in 'Risks relating to the impact of Covid-19') and natural disasters (such as floods and hurricanes); and
- infrastructure issues, such as transportation or power failures.

Each of the above could impact credit RWAs, and the financial losses caused by any of these risk events or developments could impair asset values and the creditworthiness of customers.

These risk events or developments may also give rise to disruption to the Groups services and some may result in physical damage to our operations and/or risks to the safety of our personnel and customers. In 2020, we saw heightened levels of geopolitical risk particularly with respect to our operations and portfolios in Asia-Pacific. Escalation could have broader social, political and economic ramifications, affecting the Group's portfolios.

The financial impact to the Group of geopolitical risks in Asia is heightened due to the importance and profitability of the region, and Hong Kong in particular. These geopolitical risks include, but are not limited to the following:

- Tensions in US-China relations, some of which have been heightened by the Covid-19 outbreak, could have potential ramifications for the Group and its customers. These tensions could include divisions over Hong Kong, US funding of and trading with strategic Chinese industries, claims of human rights violations, and others. Some of these tensions have manifested themselves through actions taken by the governments of the US and China in 2020 and early 2021. These tensions may affect the Group through the impact of sanctions, including on the Group's customers, and could result in regulatory, reputational and market risks for the Group;
- The US has imposed a range of sanctions and trade restrictions on Chinese persons and companies, focusing on entities the US believes are involved in human rights violations, information technology and communications equipment and services, and military activities, among others. In response, China has announced a number of sanctions and trade restrictions that target or provide authority to target foreign officials and companies, including those in the US. Certain measures are of particular relevance;
- The US Hong Kong Autonomy Act provides "secondary sanctions" authority that allows for the imposition of US sanctions against non-US financial institutions found to be engaged in significant transactions with certain Chinese individuals and entities subject to US sanctions as a result of a US determination that these individuals or entities engaged in activities undermining Hong Kong's autonomy. The US has also imposed restrictions on US persons' ability to engage in transactions in or relating to publicly traded securities of a number of prominent Chinese companies. China has subsequently adopted regulations providing a framework for specific prohibitions against compliance with, and private rights of action for damages resulting from, measures that the government determines have an unjustified extraterritorial application that impairs Chinese sovereignty;
- No penalties have yet been imposed against financial institutions under any of these measures, and their scope and application remain uncertain. These and any future measures

that may be taken by the US and China may affect the Group, its customers, and the markets in which we operate;

- While UK-China relations have historically been shaped by strong trade and investment, there are also emerging challenges. Following the implementation of the Hong Kong national security law, the UK has offered residency rights and a path to citizenship to eligible British National (Overseas) passport holders in Hong Kong. In addition, both the UK and Hong Kong have suspended their extradition treaties with each other;
- Investor and business sentiment in some sectors in Hong Kong remains dampened and ongoing tensions could result in an increasingly fragmented trade and regulatory environment. The retail and leisure sectors also remain particularly affected by a decrease in tourism, resulting from both ongoing tensions and the Covid-19 outbreak.

As geopolitical tensions rise, the compliance by multinational corporations with their legal or regulatory obligations in one jurisdiction may be seen as supporting the law or policy objectives of that jurisdiction over another, creating additional reputational and political risks for the Group.

While it is the Group's policy to comply with all applicable laws and regulations of all jurisdictions in which it operates, geopolitical risks and tensions, and potential ambiguities in the Group's compliance obligations, will continue to present challenges and risks for the Group and could have a material adverse impact on the Group's business, financial condition, results of operations, prospects and strategy, as well as on the Group's customers.

### **We are likely to be affected by global geopolitical trends, including the risk of government intervention**

While economic globalisation appears to remain deeply embedded in the international system, it is increasingly challenged by nationalism and protectionism and international institutions may be less capable of arresting this trend. A dispersion of global economic power from the US and Europe towards China and emerging markets appears to be occurring, providing a backdrop for greater US-China competition.

A rise in nationalism and protectionism, including trade barriers, may be driven by populist sentiment and structural challenges facing developed and developing economies. Similarly, if capital flows are disrupted, some emerging markets may impose protectionist measures that could affect financial institutions and their clients, and other emerging, as well as developed, markets, may be tempted to follow suit. This rise could contribute to weaker global trade, potentially affecting HSBC's traditional lines of business.

The broad geographic footprint and coverage of HSBC will make us and our customers susceptible to protectionist measures taken by national governments and authorities, including imposition of trade tariffs, restrictions on market access, restrictions on the ability to transact on a cross border basis, expropriation, restrictions on international ownership, interest-rate caps, limits on dividend flows and increases in taxation.

There may be uncertainty as to the conflicting nature of such measures, their duration, the potential for escalation, and their potential impact on global economies. Whether these emerging trends are cyclical or permanent is hard to determine, and their causes are likely to be difficult to address. The occurrence of any of these events or circumstances could have a material adverse effect on our business, financial condition, results of operations and prospects.

### **The UK's trading relationship with the EU, following its withdrawal from the European Union may adversely affect our operating model and financial results**

The UK left the EU on 31 January 2020 and entered a transition period until 31 December 2020. During the transition period, the UK continued to be bound by EU laws and regulations. A Trade and Cooperation Agreement between the EU and the UK was agreed on 24 December 2020 and ratified by the UK on 30 December 2020. The agreement mainly focused on goods and

services but also covered a wide range of other areas, including competition, state aid, tax, fishery, transport, data and security. However, it included limited elements on financial services: in this respect, it includes a joint declaration of cooperation through which in the coming months, both parties are expected to enter discussions with the aim of agreeing a memorandum of understanding establishing the framework for this cooperation. The parties are expected to discuss, inter alia, how to move forward on both sides with financial equivalence determinations between the EU and UK, given that the UK is now generally treated as a “third country” under EU law and regulation. The requirement to agree a framework of cooperation between the EU and UK under the new agreement will take some time to be fully implemented, and this could lead to some uncertainty and have negative economic impacts for both the UK and the EU.

Meanwhile the financial passporting arrangement that existed prior to, and during, the transition period has expired. As a result financial institutions in the UK such as HSBC Bank (HBEU)/ HSBC UK (HBUK), no longer have EU regulatory permissions to continue servicing clients in regulated products in the European Economic Area (EEA) subject to certain exceptions.

In our programme to manage the impact of the UK’s withdrawal from the EU, HSBC had assumed a scenario whereby the UK would exit the EU without the existing financial passporting rights or the establishment of a regulatory equivalence framework that supports cross-border business. This scenario impacts (i) our legal entities in the UK and the EU, (ii) our product offering, (iii) our clients and (iv) our employees.

Notwithstanding the progress made in ensuring we were prepared for the end of the transition period, there remain execution risks, many of them linked to the uncertain outcome of ongoing negotiations relating to financial services and any potential financial equivalence determinations that may be agreed between the EU and the UK. The outcome of these negotiations could potentially trigger tight timelines to implement further changes to our UK and European operating models. If any of these risks materialise, HSBC’s clients and employees are likely to be affected. The exact impact on our clients will depend on their individual circumstances and, in a worst case scenario, could include disruption to the provision of products and services, and this could in turn increase operational complexity and/or costs for the Group.

More generally, the UK’s exit from the EU and the operation of the new Trade and Cooperation Agreement (and any complexities that may result there from), may lead to increased market volatility and economic risk, particularly in the UK, which could adversely impact our profitability and prospects for growth in this market.

In addition, the UK’s future trading relationship with the EU, and the rest of the world will likely take a number of years to fully resolve. This may result in a prolonged period of uncertainty, unstable economic conditions and market volatility, including currency fluctuations.

### **We operate in markets that are highly competitive**

We compete with other financial institutions in a highly competitive industry that continues to undergo significant change as a result of financial regulatory reform, including Open Banking in the UK, as well as increased public scrutiny stemming from the financial crisis and a continued challenging macro-economic environment.

We target internationally mobile clients who need sophisticated global solutions and generally compete on the basis of the quality of our customer service, the wide variety of products and services that we can offer our customers, and the ability of those products and services to satisfy our customers’ needs, the extensive distribution channels available for our customers, our innovation and our reputation. Continued and increased competition in any one or all of these areas may negatively affect our market share and/or cause us to increase our capital investment in our businesses in order to remain competitive. Additionally, our products and services may not be accepted by our targeted clients.

In many markets, there is increased competitive pressure to provide products and services at current or lower prices.

Consequently, our ability to reposition or reprice our products and services from time to time may be limited, and could be influenced significantly by the actions of our competitors who may or may not charge similar fees for their products and services. Any changes in the types of products and services that we offer our customers, and/or the pricing for those products and services, could result in a loss of customers and market share.

Further, new entrants to the market or new technologies could require us to spend more to modify or adapt our products to attract and retain customers. We may not respond effectively to these competitive threats from existing and new competitors, and may be forced to increase our investment in our business to modify or adapt our existing products and services or develop new products and services to respond to our customers’ needs.

Any of these factors could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

### **We are subject to financial and non-financial risks associated with climate change**

Climate change brings risks to our business, our customers and wider society. Climate change could impact HSBC through both transition and physical channels. Transition risk can arise from the move to a low-carbon economy, such as through policy, regulatory and technological changes. Physical risk can arise through increasing severity and/or frequency of severe weather or other climatic events, such as rising sea levels and flooding. The focus on Climate risks increased over 2020 primarily as a result of the pace and volume of policy and regulatory changes, which impacts HSBC both directly and indirectly through our customers.

We currently expect that the following are the most likely ways in which climate risk may materialise for the Group:

- transition and physical risk may impact our corporate customers, for example if regulatory, legislative or technological developments impact customers business models resulting in financial difficulty for customers and/or stranded assets;
- residential real estate may be affected by changes to the climate and extreme weather events which could impact both property values and the ability of borrowers to afford their mortgage payments;
- physical risk may impact HSBC’s operations, for example if flooding or extreme weather events impacted our critical operations;
- regulatory compliance risk may result from the increasing pace, breadth and depth of regulatory expectations requiring implementation in short timeframes across multiple jurisdictions;
- conduct risks could develop associated with the increasing demand for ‘green’ products where there are differing and developing standards or taxonomies;
- reputational risks may result from our decisions on how we support our customers in high-emitting sectors.

These events have potential to cause both idiosyncratic and systemic risks, resulting in potential financial and non-financial impacts for HSBC which could, in turn, have a material adverse effect on our business, financial condition, results of operations, prospects and strategy.

Financial impacts could materialise, if, for example, transition and physical risks impact the ability of borrowers to repay their loans. This could in turn, result in higher risk weighted assets, greater impairment losses and/or increased capital requirements over the long term.

Non-financial impacts could materialise, for example, through inability to adhere to emerging regulatory requirements. Additionally, our own assets or operations could be impacted by

## Risk

extreme weather or chronic changes in weather patterns, or as a result of business decisions to achieve our climate ambition.

In October 2020, the Group announced its ambition to become net zero in all direct and indirect emissions, known as scope 1, 2 and 3 emissions. We aim to deliver this by achieving net zero in our operations and our supply chain by 2030 or sooner. We also plan to align our financed emissions – the carbon emissions of our portfolio of customers – to the Paris Agreement goal of net zero by 2050 or sooner. In order to reach these ambitions and targets or any other climate-related ambitions or targets the Group may set, the Group will need to incorporate climate considerations into its business strategy; the products and services we provide to customers; and our financial and non-financial risk management processes (including processes to measure and manage the various financial and non-financial risks the Group faces as a result of climate change). We also need to ensure that our strategy and business model adapt to changing regulatory requirements and market expectations. Achieving our climate-related ambitions and targets will also depend on a number of factors outside of the Group's control, including availability of data to measure and assess the climate impact of our customers; advancements of low carbon technologies; and supportive public policies in the markets where we operate. If these external factors and other changes do not occur, or do not occur on a timely basis, the Group may fail to achieve its climate-related ambitions and targets and this could have an adverse impact on the Group's business, financial condition, results of operations and prospects.

### **Changes in foreign currency exchange rates may affect our results**

We prepare our accounts in US dollars because the US dollar and currencies linked to it form the major currency bloc in which we transact and fund our business. However, a substantial portion of our assets, liabilities, assets under management, revenues and expenses are denominated in other currencies. Changes in foreign exchange rates, including those that may result from a currency becoming de-pegged from the US dollar, have an effect on our accounting standards, reported income, cash flows and shareholders' equity. For example, as a result of significant inflation, Argentina has been deemed a hyperinflationary economy effective 1 July 2018 and we are required to apply inflation accounting on a retrospective basis in accordance with IAS 29, as further described in our Financial Statements. Unfavourable changes in foreign exchange rates could have a material adverse effect on our business, financial condition, results of operations and prospects.

### **Market fluctuations may reduce our income or the value of our portfolios**

Our businesses are inherently subject to risks in financial markets and in the wider economy, including changes in, and increased volatility of, interest rates, inflation rates, credit spreads, foreign exchange rates, commodity, equity, bond and property prices, and the risk that our customers act in a manner inconsistent with our business, pricing and hedging assumptions.

Since February 2020, market volatility has been high, particularly as a result of the ongoing Covid-19 pandemic, and ongoing market movements could significantly affect us in a number of key areas. For example, banking and trading activities are subject to interest rate risk, foreign exchange risk, inflation risk and credit spread risk. Changes in interest rate levels, interbank spreads over official rates and yield curves affect the interest rate spread realised between lending and borrowing costs. A declining or low interest rate environment could increase prepayment activity that reduces the weighted average lives of our interest-earning assets and could have a material adverse effect on us. The potential for future volatility and margin changes remains. See 'Risks relating to the impact of Covid-19' above regarding the impact of Covid-19 on the interest rate environment.

Competitive pressures on fixed rates or product terms in existing loans and deposits sometimes restrict our ability to change interest rates applying to customers in response to changes in official and wholesale market rates. Our pension scheme assets

include equity and debt securities, the cash flows of which change as equity prices and interest rates vary.

Our insurance businesses are exposed to the risk that market fluctuations may cause mismatches to occur between product liabilities and the investment assets that back them. Market risks can affect our insurance products in a number of ways depending upon the product and associated contract. For example, mismatches between assets and liability yields and maturities give rise to interest rate risk. Some of these risks are borne directly by the customer and some are borne by the insurance businesses, with their excess capital invested in the markets. Some insurance contracts involve guarantees and options that increase in value in adverse investment markets. There is a risk that the insurance businesses could bear some of the cost of such guarantees and options. The performance of the investment markets could thus have a direct effect upon the value embedded in the insurance and investment contracts and our operating results, financial condition and prospects.

It is difficult to predict with any degree of accuracy changes in market conditions, and such changes could have a material adverse effect on our business, financial condition, results of operations and prospects.

### **Liquidity, or ready access to funds, is essential to our businesses**

Our ability to borrow on a secured or unsecured basis, and the cost of doing so, can be affected by increases in interest rates or credit spreads, the availability of credit, regulatory requirements relating to liquidity or the market perceptions of risk relating to the Group or the banking sector, including our perceived or actual creditworthiness.

Current accounts and savings deposits payable on demand or at short notice form a significant part of our funding, and we place considerable importance on maintaining their stability. For deposits, stability depends upon preserving investor confidence in our capital strength and liquidity, and on comparable and transparent pricing. Although deposits have been a stable source of funding historically, this may not continue.

We also access wholesale markets in order to provide funding for entities that do not accept deposits, to align asset and liability maturities and currencies, and to maintain a presence in local markets. In 2020 we issued the equivalent of \$22.4bn of debt securities in the public capital markets in a range of currencies and maturities from a number of Group entities, including \$16bn of senior securities issued by HSBC Holdings.

An inability to obtain financing in the unsecured long-term or short-term debt capital markets, or to access the secured lending markets, could have a material adverse effect on our liquidity.

Unfavourable macroeconomic developments, market disruptions or regulatory developments may increase our funding costs or challenge our ability to raise funds to support or expand our businesses.

If we are unable to raise funds through deposits and/or in the capital markets, our liquidity position could be adversely affected, and we might be unable to meet deposit withdrawals on demand or at their contractual maturity, to repay borrowings as they mature, to meet our obligations under committed financing facilities and insurance contracts or to fund new loans, investments and businesses. We may need to liquidate unencumbered assets to meet our liabilities. In a time of reduced liquidity, we may be unable to sell some of our assets, or we may need to sell assets at reduced prices, which in either case could materially adversely affect our business, financial condition, results of operations and prospects.

## Macro-prudential, regulatory and legal risks to our business model

### We are subject to numerous legislative or regulatory requirements and developments and changes in the policy of regulators or governments and we may fail to comply with all applicable regulations, particularly any changes thereto

Our businesses are subject to ongoing regulation and associated regulatory risks, including the effects of changes in the laws, regulations, policies, voluntary codes of practice and interpretations in the UK, the US, Hong Kong, the EU, China and the other markets in which we operate. This is particularly the case given the expected long term economic impact of the Covid-19 outbreak and the consequent high volume and wide-ranging regulatory interventions. Additionally, many of these changes have an effect beyond the country in which they are enacted, as either regulators deliberately enact regulation with extra-territorial impact or our global operations mean that the Group is obliged to give effect to 'local' laws and regulations on a wider basis.

In recent years, regulators and governments have focused on reforming both the prudential regulation of the financial services industry and the ways in which the business of financial services is conducted. Measures include enhanced capital, liquidity and funding requirements, the separation or prohibition of certain activities by banks, changes in the operation of capital markets activities, the introduction of tax levies and transaction taxes, changes in compensation practices and more detailed requirements on how business is conducted. The governments and regulators in the UK, the US, Hong Kong, the EU or elsewhere may intervene further in relation to areas of industry risk already identified, or in new areas, which could adversely affect us.

Specific areas where regulatory changes could have a material effect on our business, financial condition, results of operations, prospects, capital position, and reputation include, but are not limited to:

- the regulatory response to the Covid-19 outbreak, and its implications for banks credit risk management and provisioning processes, capital adequacy and liquidity, and a renewed focus on vulnerable customers including the treatment of customers during and following the removal or reduction of support measures such as payment holidays;
- requirements flowing from arrangements for the resolution strategy of the Group and its individual operating entities that may have different effects in different countries;
- the abolition of certain Ibor reference rates across the world and the transition to new replacement rates (as discussed further under 'We may not manage risks associated with the replacement of benchmark indices effectively');
- the UK's exit from the EU, and the transposition of EU financial services regulation into UK law, affecting the way we do business;
- the treatment of 'third countries' under EU law with regard to their access to EU markets (as discussed under 'The UK's trading relationship with the EU, following its withdrawal from the European Union may adversely affect our operating model and financial results.
- the implementation of the reforms to the Basel III package, which includes changes to the approaches to credit risk, market risk, counterparty risk, operational risk, equity investments in fund and credit valuation adjustment RWAs and the equity investments in funds RWAs and the leverage ratio, and the application of capital floors (as discussed further under the 'Risks to Capital' section on page 213;
- the financial effects of climate changes being incorporated within the global prudential framework, including the transition risks resulting from a shift to a low carbon economy;
- increasing regulatory expectations of firms around governance and risk management frameworks, particularly for management of climate change and other ESG risks and enhanced ESG disclosure and reporting obligations;
- the implementation of more stringent capital, liquidity and funding requirements, including changes to IRB modelling requirements and as the result of industry wide reviews e.g. structural foreign exchange risk;
- the increasing focus by regulators, international bodies, organisations and unions on how institutions conduct business, particularly with regard to the delivery of fair outcomes for customers, promoting effective competition in the interests of consumers and ensuring the orderly and transparent operation of global financial markets;
- restrictions on the structure of remuneration and increasing requirements to detail management accountability within the Group (for example, the requirements of the Senior Managers and Certification Regime in the UK and similar regimes in Hong Kong, Singapore, Australia and elsewhere that are either in effect or under consideration/implementation);
- the implementation of any conduct measures as a result of regulators' increased focus on institutional culture, employee behaviour and whistleblowing, including measures resulting from ongoing thematic reviews into the workings of the retail, SME and wholesale banking sectors and the provision of financial advice to consumers;
- the focus globally on technology and digital, underpinned by customer protection, including the use of artificial intelligence and digital assets (data, identity and disclosures), financial technology risks, operational resilience, virtual currencies (including central bank digital currencies and Global Stablecoin) and cybersecurity and the introduction of new and/or enhanced standards in this area (as discussed further under 'We remain susceptible to a wide range of cyber risks that impact and/or are facilitated by technology, and our operations are highly dependent on our information technology systems' and 'Our data management policies and processes may not be sufficiently robust' );
- financial crime and market abuse standards and increasing expectations for control frameworks, to ensure firms are adapting to new threats such as those arising from the Covid-19 outbreak, and are protecting customers from cyber-enabled crime;
- changes in national or supra-national requirements regarding the ability to offshore or outsource the provision of services and resources or transfer material risk to financial services companies located in other countries, which impact our ability to implement globally consistent and efficient operating models;
- the application and enforcement of economic sanctions including those with extra-territorial effect and those arising from geopolitical tensions (see 'We are subject to political, social and other risks in the countries in which we operate');
- the operational and business model implications of the introduction of negative interest rates;
- the increasing regulatory expectations and requirements relating to various aspects of operational resilience, including an increasing focus on the response of institutions to operational disruptions;
- the challenges for institutions arising from expanding and increasingly complex regulatory reporting obligations, including high supervisory expectations for data integrity and the governance around regulatory reporting; and
- continuing regulatory focus on the effectiveness of internal controls and risk management frameworks, as evidenced in regulatory fines imposed against other financial institutions.

## Risk

We continue to strengthen our processes and controls over regulatory reporting, including commissioning independent external reviews of various aspects of regulatory reporting. As we strengthen our processes and controls, there may be impacts on some of our regulatory ratios such as the CET1 and LCR. We continue to keep the PRA and other relevant regulators informed of adverse findings from external reviews and our progress in strengthening the control environment.

### **We may not manage risks associated with the replacement of benchmark indices effectively**

The Financial Stability Board has observed that the decline in interbank short-term unsecured funding poses structural risks for interest rate benchmarks that reference these markets. In response, regulators and central banks in various jurisdictions have convened industry-led national working groups ('NWGs') to identify alternative replacement rates ('near risk-free rates' or 'RFRs') for these Interbank offered rates ('Ibors') and, where appropriate, make recommendations that would facilitate an orderly transition to these rates.

Following the announcement by the UK's Financial Conduct Authority in July 2017 that it will no longer continue to persuade or require panel banks to submit rates for the London Interbank offered rate ('Libor') after 2021, the NWGs for the impacted currencies were tasked with providing guidance and support to financial and non-financial firms to help them facilitate an orderly transition of the relevant Libors to their chosen replacement rates. The working group on euro risk free rates recommended replacing the euro overnight index average ('Eonia') with the euro short-term rate €STR (plus a fixed parameter spread), as changes needed to be made to Eonia's methodology as it was not compliant with 2016 EU Benchmark Regulation. As such Eonia will therefore be discontinued on 3 January 2022. The expected discontinuation of certain key Ibors, the adoption of replacement RFRs by the market and the development of RFR products by HSBC introduce a number of risks for HSBC, its clients and the financial services industry more widely. These include but are not limited to;

- Regulatory compliance, legal and conduct risk, arises from both the continued sale of products referencing Ibors sales of products referencing RFRs and the transition of legacy contracts to alternative rates. There is a risk that HSBC is unable to meet regulatory milestones associated with the discontinuance of sale of certain Ibor products, which may result in regulatory investigations or reviews being conducted into our preparation and readiness for the replacement of Ibors with alternative reference rates. Additionally, if HSBC's sales processes are not appropriately adapted to account for the additional complexity of new products, or new RFR market conventions, additional conduct risks and regulatory actions may result and there may be a heightened risk of disputes;
- Legal risks associated with the enforceability of fallback provisions in Ibor contracts. There is a risk that some contracts will not be transitioned before the relevant Ibor is discontinued and the parties will need to rely on the "fallback" provisions of those contracts. As these fallback provisions do not always contemplate the permanent cessation of the relevant Ibor, there is a risk that the provisions may not work from a contractual, practical or financial perspective, potentially resulting in unintended outcomes for clients. This may lead to complaints, litigation and/or regulatory action. While legislative solutions have been proposed in the UK, US and EU, market participants will need to consider the impact of any proposals ultimately adopted;
- Financial risks resulting from the discontinuation of Ibors and the development of RFR market liquidity will affect HSBC throughout transition. The differences in Ibor and RFR interest rate levels will create a basis risk that we need to actively manage through appropriate financial hedging. Basis risk in the trading book and in the banking book may arise out of the asymmetric adoption of RFRs across assets and liabilities and across currencies and products. In addition, this may limit the ability to hedge effectively; and

- Resilience and operational risks are heightened, as HSBC's Ibor transition programme progresses to its execution phase, due to an expected increase in the number of new RFR products being rolled out, the short timelines for transitioning legacy Ibor contracts and the continued systems changes required to facilitate both new products and transition. These risks increased due to the impact that the Covid-19 outbreak and interest rate environment have had on client readiness to transition. This has resulted in compressed timelines for completing transition processes.

If any of these risks materialise this could have a material adverse effect on our business, financial condition, results of operations, prospects and customers.

### **We are subject to the risk of current and future legal, regulatory or administrative actions and investigations, the outcomes of which are inherently difficult to predict**

We face significant risks in our business relating to legal, regulatory or administrative actions and investigations. The volume and amount of damages claimed in litigation, regulatory proceedings, investigations, administrative actions and other adversarial proceedings against financial institutions are increasing for many reasons, including a substantial increase in the number of regulatory changes taking place globally, increasing focus from regulators, investors and other stakeholders on ESG disclosures, including in relation to the measurement and reporting of such matters in the absence of local or internationally accepted standards, increased media attention and higher expectations from regulators and the public. In addition, criminal prosecutions of financial institutions for, among other things, alleged conduct breaches, breaches of AML, anti-bribery/corruption and sanctions regulations, antitrust violations, market manipulation, aiding and abetting tax evasion, and providing unlicensed cross-border banking services, have become more commonplace and may increase in frequency due to increased media attention and higher expectations from prosecutors and the public.

Any such legal, regulatory or administrative action or investigation against HSBC Holdings or one or more of our subsidiaries could result in, among other things, substantial fines, civil penalties, criminal penalties, cease and desist orders, forfeitures, the suspension or revocation of key licences, requirements to exit certain businesses, other disciplinary actions and/or withdrawal of funding from depositors and other stakeholders. Any threatened or actual litigation, regulatory proceeding, administrative action, investigation or other adversarial proceeding against HSBC Holdings or one or more of our subsidiaries could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation. Additionally, the Group's financial statements reflect provisioning for legal proceedings, regulatory and customer remediation matters. Provisions for legal proceedings, regulatory and customer remediation matters, such as, for example, the customer redress programme related to and any legal claims resulting from the mis-selling of payment protection insurance policies, typically require a higher degree of judgement than other types of provisions, and the actual costs resulting from such proceedings and matters may exceed existing provisioning.

Additionally, we continue to be subject to a number of material legal proceedings, regulatory actions and investigations, including, for example, our December 2019 deferred prosecution agreement with the US DoJ arising from its investigation into our Swiss private bank (the 'Swiss Tax DPA'). It is inherently difficult to predict the outcome of many of the legal, regulatory and other adversarial proceedings involving our businesses, particularly those cases in which the matters are brought on behalf of various classes of claimants, seek damages of unspecified or indeterminate amounts or involve novel legal claims. Potential consequences of breaching the Swiss Tax DPA could include the imposition of additional terms and conditions on HSBC, an extension of the agreement or the criminal prosecution of HSBC, which could, in turn, entail further financial penalties and collateral consequences. Moreover, we may face additional legal



proceedings, investigations or regulatory actions in the future, including in other jurisdictions and/or with respect to matters similar to, or broader than, the existing legal proceedings, investigations or regulatory actions. An unfavourable result in one or more of these proceedings could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

### **We may fail to meet the requirements of regulatory stress tests**

We are subject to regulatory stress testing in many jurisdictions, which are described on page 231. These exercises are designed to assess the resilience of banks to potential adverse economic or financial developments and ensure that they have robust, forward-looking capital planning processes that account for the risks associated with their business profile. Assessment by regulators is on both a quantitative and qualitative basis, the latter focusing on our data provision, stress testing capability and internal management processes and controls.

Failure to meet quantitative or qualitative requirements of regulatory stress test programmes, or the failure by regulators to approve our stress results and capital plans, could result in the Group being required to enhance its capital position and / or position additional capital in specific subsidiaries, and this could, in turn, have a material adverse effect on our business, financial condition, results of operations, prospects, capital position and reputation.

### **We and our UK subsidiaries may become subject to stabilisation provisions under the Banking Act, in certain significant stress situations**

The Banking Act implemented the BRRD in the UK and creates a special resolution regime (the 'SRR'). Under the SRR, HM Treasury, the BoE and the PRA and FCA (together, the 'Authorities') are granted substantial powers to resolve and stabilise UK-incorporated institutions with permission to accept deposits pursuant to Part 4A of the FSMA that are failing or are likely to fail to satisfy the threshold conditions (within the meaning of section 55B of the FSMA) where it is in the public interest to do so. The SRR presently consists of five stabilisation options: (i) transfer of all of the business of a relevant entity or the shares of the relevant entity to a private sector purchaser; (ii) transfer of all or part of the business of the relevant entity to a 'bridge bank' wholly owned by the BoE; (iii) transfer of part of the assets, rights or liabilities of the relevant entity to one or more asset management vehicles for management of the transferor's assets, rights or liabilities; (iv) the write-down, conversion, transfer, modification, or suspension of the relevant entity's equity, capital instruments and liabilities (the so-called "bail-in power"); and (v) temporary public ownership of the relevant entity. These tools may also be applied to a parent company or affiliate of a relevant entity where certain conditions are met. In addition, the SRR provides for modified insolvency and administration procedures for relevant entities. It also confers ancillary powers on the Authorities, including the power to modify or override certain contractual arrangements in certain circumstances. The Authorities are also empowered by order to amend the law for the purpose of enabling the powers under the SRR to be used effectively. Such orders may promulgate provisions with retrospective applicability.

In addition to the stabilisation options, the relevant Authority may, in certain circumstances, in accordance with the Banking Act, require the permanent write-down or conversion into equity of any outstanding tier 1 capital instruments and tier 2 capital instruments prior to the exercise of any stabilisation option (including the bail-in power), which may lead to the cancellation, transfer or dilution of HSBC Holdings' ordinary share capital.

In general, the Banking Act requires the Authorities to have regard to specified objectives in exercising the powers provided for by the Banking Act. One of the objectives (which is required to be balanced as appropriate with the other specified objectives) refers to the protection and enhancement of the stability of the financial system of the UK. The Banking Act includes, in certain circumstances, and with respect to certain powers provided for by

the Banking Act, provisions related to compensation in respect of transfer instruments and orders made under it. This includes a 'no creditor worse off' safeguard, which requires that no shareholder or creditor must be left worse off from the use of resolution powers than they would have been had the entity entered insolvency rather than resolution.

However, if we are at or approaching the point where we may be deemed by our regulators to be failing, or likely to fail, such as to require regulatory intervention, any exercise of the above mentioned powers by the Authorities may result in holders of our ordinary shares, or other instruments that may fall within the scope of the 'bail in' or other write-down and conversion powers granted under the Banking Act, being materially adversely affected, including by the cancellation of shares, the write-down or conversion into shares of other instruments, the transfer of shares to a third party appointed by the BoE, the loss of rights associated with shares or other instruments (including rights to dividends or interest payments), the dilution of their percentage ownership of our share capital, and any corresponding material adverse effect on the market price of our ordinary shares and other instruments.

### **We are subject to tax-related risks in the countries in which we operate**

We are subject to the substance and interpretation of tax laws in all countries in which we operate and are subject to routine review and audit by tax authorities in relation thereto. Our interpretation or application of these tax laws may differ from those of the relevant tax authorities and we provide for potential tax liabilities that may arise on the basis of the amounts expected to be paid to the tax authorities. The amounts ultimately paid may differ materially from the amounts provided depending on the ultimate resolution of such matters. Changes to tax laws and tax rates, and penalties for failing to comply, could have a material adverse effect on our business, financial condition, results of operations, prospects, capital position and reputation.

### **Risks related to our operations**

#### **Our operations are highly dependent on our information technology systems**

The reliability and security of the HSBC Group's information technology infrastructure is crucial to HSBC Group's provision of banking services and protecting the HSBC brand. The effective functioning of our payment systems, financial control, risk management, credit analysis and reporting, accounting, customer service and other information technology systems, as well as the communication networks between our branches and main data processing centres, are important to our operations.

Critical system failure, prolonged service unavailability or a material breach of data security, particularly of confidential customer data, could compromise HSBC Group's ability to service its clients, could breach regulations and could cause long-term damage to our business and brand that could have a material adverse effect on the HSBC Group's business, financial condition, results of operations, prospects and reputation.

#### **We remain susceptible to a wide range of cyber risks that impact and/or are facilitated by technology**

The threat of cyber-attacks remains a concern for the HSBC Group, as it does across the entire financial sector. Failure to protect the HSBC Group's operations from internet crime or cyber-attacks may result in financial loss, disruption for customers or a loss of data. This could undermine the HSBC Group's reputation and its ability to attract and keep customers. The most prevalent cybersecurity threats intend to prevent customers from accessing our online services by attempting to exploit vulnerabilities in our systems (through malware or unauthorised access), disrupt our business, and cause data loss.

There have been no material cyber-related breaches that impacted our customers or operations in 2020. However the risk remains that future cyber-related attacks will have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

### **We could incur losses or be required to hold additional capital as a result of model limitations or failure**

HSBC uses models for a range of purposes in managing its business, including regulatory capital calculations, stress testing, credit approvals, calculation of ECLs on an IFRS 9, Financial Instruments ("IFRS 9") basis, financial crime and fraud risk management and financial reporting. HSBC could face adverse consequences as a result of decisions that may lead to actions by management based on models that are poorly developed, implemented or used, or as a result of the modelled outcome being misunderstood or the use of such information for purposes for which it was not designed or by inherent limitations arising from the uncertainty inherent in predicting or estimating future outcomes. Regulatory scrutiny and supervisory concerns over banks' use of models is considerable, particularly the internal models and assumptions used by banks in the calculation of regulatory capital. If regulatory approval for key capital models is not achieved in a timely manner or if those models are subject to review and challenge, HSBC could be required to hold additional capital. Evolving regulatory requirements have resulted in changes to HSBC's approach to model risk management, which poses execution challenges. The adoption of more sophisticated modelling approaches including machine learning and technology by both HSBC and the financial services industry could also lead to increased model risk.

The economic consequences of the Covid-19 outbreak on macroeconomic variables that are used in models are outside of the bounds for which IFRS 9 models have been built and calibrated to operate. Moreover, complexities of current governmental support programmes and regulatory guidance on the treatment of customer impacts, such as forbearance and payment holidays, and the unpredictable pathways of the Covid-19 outbreak, cannot realistically be factored into the modelling. Consequently, IFRS 9 models under the current economic conditions are generating outputs that do not accurately assess the actual level of credit quality in all cases. In addition, compensating controls, such as post model management adjustments based on expert judgement are required. Such compensating controls require a significant degree of management judgment and assumptions. There is a risk that future actual results/performance may differ from such judgments and assumptions. The effectiveness of the existing models will depend in large part on the depth and length of the economic downturn faced by the world's economies. Risks arising from the use of models could have a material adverse effect on our business, financial condition, results of operations, prospects, capital position and reputation.

### **Our operations utilise third-party suppliers and service providers**

HSBC relies on third parties to supply goods and services. The use of third-party service providers by financial institutions is of particular focus to global regulators, including with respect to how outsourcing decisions are made and how key relationships are managed. The inadequate management of third-party risk could impact our ability to meet strategic, regulatory and client expectations. This may lead to a range of effects, including regulatory censure, civil penalties or damage both to shareholder value and to our reputation, which could have a material adverse effect on our business, financial condition, results of operations, prospects and strategy.

### **Risks related to our governance and internal controls**

Our data management and data privacy controls must be sufficiently robust to support the increasing data volumes and evolving regulations.

As HSBC Group becomes more data-driven and our business processes become more digital, the volume of data that we rely on has grown exponentially. As a result, management of data (including data retention and deletion, data quality, data privacy and data architecture policies and procedures) from creation to destruction must be robust and designed to effectively identify any

quality and availability issues. Inadequate data management could result in negative impacts to customer service, business process, or could result in manual intervention and reconciliation to reduce the risk of errors in reporting to senior management, regulators or executives.

In addition, failure to comply with data privacy laws and other legislation in the jurisdictions in which we operate (such as Basel III) may result in regulatory sanctions. Any of these failures could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

### **Third parties may use us as a conduit for illegal activities without our knowledge**

We are required to comply with applicable AML and sanctions laws and regulations, and have adopted various policies and procedures, including internal control and 'know your customer' procedures, aimed at preventing use of HSBC products and services for the purpose of committing or concealing financial crime. Moreover, in relevant situations, and where permitted by regulation, we may rely upon certain counterparties to maintain and properly apply their own appropriate AML procedures. While permitted by regulation, such reliance may not prevent third parties from using us (and our relevant counterparties) as a conduit for money laundering, without our knowledge (and that of our relevant counterparties). Further, a major focus of US and UK government policy relating to financial institutions in recent years has been combating money laundering and enforcing compliance with US and EU sanctions.

HSBC Bank USA has taken a number of remedial actions as a result of the matters to which the AML DPA related, which are intended to better protect the Group's businesses in respect of these risks. However, there can be no assurance that these will be completely effective.

Becoming a party to, associated with, or even accusations of being associated with, money laundering, or violations of sanctions laws or regulations could damage our reputation and could make us subject to fines, sanctions and/or legal enforcement. Any one of these outcomes could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

HSBC Bank USA, as the primary US dollar correspondent bank for the Group, is subject to heightened financial crime risk arising from business conducted on behalf of its non-US HSBC affiliates. HSBC Bank USA has implemented policies, procedures and controls reasonably designed to comply with financial crime legal and regulatory requirements and mitigate financial crime risk from its affiliates. Nevertheless, in the event that these controls are ineffective, it could lead to a breach of these requirements resulting in a potential enforcement action by OFAC or other US agencies that may include substantial fines or penalties. Any such action against HSBC Bank USA could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

### **We may suffer losses due to employee misconduct**

Our businesses are exposed to risk from potential non-compliance with Group policies, including the HSBC Values, and related behaviours and employee misconduct such as fraud, negligence or non-financial misconduct, all of which could result in regulatory sanctions and/or reputational or financial harm. In recent years, a number of multinational financial institutions have suffered material losses due to the actions of 'rogue traders' or other employees. It is not always possible to deter employee misconduct, and the precautions we take to prevent and detect this activity may not always be effective. Misconduct risks could be increased if prevent and detect measures are less effective because of remote and home working. Employee misconduct or regulatory sanctions if a regulator deems HSBC's actions to deter such activity to be insufficient, could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

**The delivery of our strategic actions is subject to execution risk and we may not achieve any of the expected benefits of our strategic initiatives**

Effective management of transformation projects is required to effectively deliver the Group's strategic priorities, involving delivering both on externally driven programmes for example, Ibor transition, as well as key business initiatives to deliver revenue growth, product enhancement and operational efficiency outcomes. The magnitude, complexity and, at times, concurrent demands of the projects required to meet these can result in heightened execution risk.

The Group's strategy (see pages 13 to 14) is supported by global trends – the continued economic development in Emerging Markets, growth of international trade and capital flows, and wealth creation, particularly in faster-growing markets. We take into consideration global trends along with our strategic advantages to help us better deploy capital. The development and implementation of our strategy requires difficult, subjective and complex judgements, including forecasts of economic conditions in various parts of the world. We may fail to correctly identify the relevant factors in making decisions as to capital deployment and cost reduction.

Our ability to execute our strategy may be limited by our operational capacity and the increasing complexity of the regulatory environment in which we operate. We continue to pursue our cost management initiatives, though they may not be as effective as expected, and we may be unable to meet our cost saving targets.

The global economic outlook is more uncertain, particularly with regard to the effects of the Covid-19 outbreak, the low global interest rate environment, heightened geopolitical tensions (particularly between the US and China) and the future UK relationship with the EU now that the transition period has ended. There remains a risk that, in the absence of an improvement in economic conditions, our cost and investment actions may not be sufficient to achieve the expected benefits.

The failure to successfully deliver or achieve any of the expected benefits of these key strategic initiatives could have a material adverse effect on our business, financial condition, results of operations, prospects and reputation.

**Our risk management measures may not be successful**

The management of risk is an integral part of all our activities. Risk constitutes our exposure to uncertainty and the consequent variability of return. Specifically, risk equates to the adverse effect on profitability or financial condition arising from different sources of uncertainty, including retail and wholesale credit risk, market risk, non-traded market risk, operational risk, insurance risk, concentration risk, liquidity and funding risk, litigation risk, reputational risk, strategic risk, pension risk and regulatory risk.

While we employ a broad and diversified set of risk monitoring and mitigation techniques, such methods and the judgements that accompany their application cannot anticipate every unfavourable event or the specifics and timing of every outcome. Failure to manage risks appropriately could have a material adverse effect on our business, financial condition, results of operations, prospects, strategy and reputation.

**Risks related to our business**

**Our business has inherent reputational risk**

Reputational risk is the risk of failing to meet stakeholder expectations as a result of any event, behaviour, action or inaction, either by HSBC, our employees or those with whom we are associated. Any material lapse in standards of integrity, compliance, customer service or operating efficiency may represent a potential reputational risk. Stakeholder expectations constantly evolve, and so reputational risk is dynamic and varies between geographical regions, groups and individuals. In addition, our business faces increasing scrutiny related to environmental, social and governance activities. If we fail to act responsibly, or to achieve our announced targets, in a number of areas, such as

diversity and inclusion, climate change, sustainability, workplace conduct, human rights, and support for local communities, our reputation and the value of our brand may be negatively affected.

Modern technologies, in particular online social media channels and other broadcast tools that facilitate communication with large audiences in short time frames and with minimal costs, may significantly enhance and accelerate the distribution and effect of damaging information and allegations. Reputational risk could also arise from negative public opinion about the actual, or perceived, manner in which we conduct our business activities, or our financial performance, as well as actual or perceived practices in banking and the financial services industry generally. Negative public opinion may adversely affect our ability to retain and attract customers, in particular, corporate and retail depositors, and to retain and motivate staff, and could have a material adverse effect on our business, financial condition, results of operations, and prospects.

**Non-Financial risks are inherent in our business, including the risk of fraudulent activity**

We are exposed to many types of non-financial risks that are inherent in banking operations. Non-financial risk can be defined as the risk to HSBC of achieving its strategy or objectives as a result of inadequate or failed internal processes, people and systems, or from external events. It includes; fraudulent and other criminal activities (both internal and external), breakdowns in processes or procedures, breaches of regulations or law, financial reporting and tax errors, external events and systems failure or non-availability. These risks are also present when we rely on outside suppliers or vendors to provide services to us and our customers.

In particular, fraudsters may target any of our products, services and delivery channels, including lending, internet banking, payments, bank accounts and cards. This may result in financial loss to the Group and/or our customers, an adverse customer experience, reputational damage and potential litigation, regulatory proceeding, administrative action or other adversarial proceeding in any jurisdiction in which we operate, depending on the circumstances of the event.

These non-financial risks could have a material adverse effect on our business, financial condition, results of operations, prospects, strategy and reputation.

**We rely on recruiting, retaining and developing appropriate senior management and skilled personnel**

Meeting the demand to recruit, retain and develop appropriate senior management and skilled personnel remains subject to a number of challenges. These include rapidly changing skill requirements and ways of working, the evolving regulatory landscape plus increased requirements and expectations regarding nationalisation and diversity in some jurisdictions. Ongoing talent shortages in key markets and capabilities, particularly where those with the scarce capabilities are globally mobile, add to the complexity of our supply challenge.

Our continued success and implementation of our growth strategy depend in part on the retention of key members of our management team and wider employee base, the availability of skilled management in each of our global businesses and global functions, and the ability to continue to attract, train, motivate and retain highly qualified professionals, each of which may depend on factors beyond our control, including economic, market and regulatory conditions, and the impact of the COVID-19 outbreak on health and well-being. In addition, the Group announced targets in relation to increasing the representation of women and Black employees in senior leadership roles by 2025. If the Group fails to achieve these targets, its ability to attract and retain qualified professionals may be negatively affected.

If global businesses or global functions fail to staff their operations appropriately or lose one or more of their key senior executives and fail to successfully replace them in a satisfactory and timely manner, or fail to implement successfully the organisational changes required to support the Group's strategy, our business,

## Risk

financial condition, results of operations and prospects, including control and operational risks, could be materially adversely affected.

### **We have significant exposure to counterparty risk**

We are exposed to counterparties that are involved in virtually all major industries, and we routinely execute transactions with counterparties in financial services, including brokers and dealers, central clearing counterparties, commercial banks, investment banks, mutual and hedge funds, and other institutional clients.

Many of these transactions expose us to credit risk in the event of default by our counterparty or client. Our ability to engage in routine transactions to fund our operations and manage our risks could be materially adversely affected by the actions and commercial soundness of other financial services institutions. Financial institutions are necessarily interdependent because of trading, clearing, counterparty or other relationships. As a consequence, a default by, or decline in market confidence in, individual institutions, or anxiety about the financial services industry generally, can lead to further individual and/or systemic difficulties, defaults and losses.

Mandatory central clearing of OTC derivatives, including under Dodd-Frank and the EU's European Market Infrastructure Regulation, poses risks to the Group. As a clearing member, we are required to underwrite losses incurred at a central counterparty by the default of other clearing members and their clients. Increased moves towards central clearing brings with it a further element of interconnectedness between clearing members and clients that we believe may increase rather than reduce our exposure to systemic risk. At the same time, our ability to manage such risk ourselves will be reduced because control has been largely outsourced to central counterparties, and it is unclear at present how, at a time of stress, regulators and resolution authorities will intervene.

Where bilateral counterparty risk has been mitigated by taking collateral, our credit risk may remain high if the collateral we hold cannot be realised or has to be liquidated at prices that are insufficient to recover the full amount of our loan or derivative exposure. There is a risk that collateral cannot be realised, including situations where this arises by change of law that may influence our ability to foreclose on collateral or otherwise enforce contractual rights.

The Group also has credit exposure arising from mitigants, such as credit default swaps, and other credit derivatives, each of which is carried at fair value. The risk of default by counterparties to credit default swaps and other credit derivatives used as mitigants affects the fair value of these instruments depending on the valuation and the perceived credit risk of the underlying instrument against which protection has been purchased. Any such adjustments or fair value changes could have a material adverse effect on our business, financial condition, results of operations and prospects.

### **Any reduction in the credit rating assigned to HSBC Holdings, any subsidiaries of HSBC Holdings or any of their respective debt securities could increase the cost or decrease the availability of our funding and adversely affect our liquidity position and net interest margin**

Credit ratings affect the cost and other terms upon which we are able to obtain market funding. Rating agencies regularly evaluate HSBC Holdings and certain of its subsidiaries, as well as their respective debt securities. Their ratings are based on a number of factors, including their assessment of the relative financial strength of the Group or of the relevant subsidiary, as well as conditions affecting the financial services industry generally. There can be no assurance that the rating agencies will maintain HSBC Holdings' or the relevant subsidiary's current ratings or outlook, particularly given the rating agencies' current review of their bank rating methodologies and the potential impact on HSBC Holdings' or its subsidiaries' ratings.

At the date hereof, HSBC Holdings' long-term debt was rated 'A+' by Fitch, 'A' by Standard and Poor's ('S&P') and 'A2' by Moody's.

The ratings outlook by S&P was stable and the ratings outlooks by both Fitch and Moody's were negative. Any reductions in these ratings and outlook could increase the cost of our funding, limit access to capital markets and require additional collateral to be placed and, consequently, materially adversely affect our interest margins and our liquidity position.

Under the terms of our current collateral obligations under derivative contracts, we could be required to post additional collateral as a result of a downgrade in HSBC Holdings' credit rating.

### **Risks concerning borrower credit quality are inherent in our businesses**

Risks arising from changes in credit quality and the recoverability of loans and amounts due from borrowers and counterparties (e.g. reinsurers and counterparties in derivative transactions) are inherent in a wide range of our businesses. Adverse changes in the credit quality of our borrowers and counterparties arising from a general deterioration in economic conditions or systemic risks in the financial systems, including from the impact of the ongoing Covid-19 outbreak (see 'Risks relating to the impact of Covid-19') could reduce the recoverability and value of our assets, and require an increase in our ECLs.

We estimate and recognise ECLs in our credit exposure. This process, which is critical to our results and financial condition, requires difficult, subjective and complex judgements, including forecasts of how the economic conditions might impair the ability of our borrowers to repay their loans and the ability of other counterparties to meet their obligations. This assessment considers multiple alternative forward-looking economic conditions (including GSP estimates) and incorporates this into the ECL estimates to meet the measurement objective of IFRS 9. As is the case with any such assessments, we may fail to estimate accurately the effect of factors that we identify or fail to identify relevant factors. Further, the information we use to assess the creditworthiness of our counterparties may be inaccurate or incorrect. Any failure by us to accurately estimate the ability of our counterparties to meet their obligations could have a material adverse effect on our business, financial condition, results of operations and prospects.

### **Our insurance businesses are subject to risks relating to insurance claim rates and changes in insurance customer behaviour**

We provide various insurance products for customers with whom we have a banking relationship, including several types of life insurance products. The cost of claims and benefits can be influenced by many factors, including mortality and morbidity rates, lapse and surrender rates and, if the policy has a savings element, the performance of assets to support the liabilities. Adverse developments in any of these factors could materially adversely affect our business, financial condition, results of operations and prospects.

### **HSBC Holdings is a holding company and, as a result, is dependent on loan payments and dividends from its subsidiaries to meet its obligations, including obligations with respect to its debt securities, and to provide profits for payment of future dividends to shareholders**

HSBC Holdings is a non-operating holding company and, as such, its principal source of income is from operating subsidiaries that hold the principal assets of the Group. As a separate legal entity, HSBC Holdings relies on remittance of its subsidiaries' loan interest payments and dividends in order to be able to pay obligations to debt holders as they fall due, and to pay dividends to its shareholders. The ability of HSBC Holdings' subsidiaries and affiliates to pay remittances and dividends to HSBC Holdings is subject to such subsidiaries' and affiliates' financial performance and could also be restricted by applicable laws, regulations, exchange controls and other requirements.

## **We may be required to make substantial contributions to our pension plans**

We operate a number of pension plans throughout the world for our personnel, including defined benefit plans. Pension scheme obligations fluctuate with changes in long-term interest rates, inflation, salary levels and the longevity of scheme members. They can also be affected by operational and legal risks. The level of contributions we make to our pension plans has a direct effect on our cash flow. To the extent plan assets are insufficient to cover existing liabilities, higher levels of contributions may be required. As a result, deficits in those pension plans could have a material adverse effect on our business, financial condition, operations and prospects.

## **Risk related to our financial statements and accounts**

### **Our financial statements are based in part on judgements, estimates and assumptions that are subject to uncertainty**

The preparation of financial information requires management to make judgements and use estimates and assumptions that affect the reported amounts of assets, liabilities, income and expenses. Due to the inherent uncertainty in making estimates, particularly those involving the use of complex models, actual results reported in future periods could differ from those on which management's estimates are based. Estimates, judgements, assumptions and models are continually evaluated, and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the prevailing circumstances. The impacts of revisions to accounting estimates are recognised in the period in which the estimates are revised and in any future periods affected. Accounting policies deemed critical to our results and financial position are those that involve a high degree of uncertainty and have a material impact on the financial statements. In 2020 these include impairment of amortised cost financial assets and assets measured at fair value through other comprehensive income, impairment of goodwill and non-financial assets, valuation of financial instruments, deferred tax assets, provisions, impairment of interests in associates and post-employment benefit plans, which are discussed in detail in 'Critical accounting estimates and judgements' on page 77.

The measurement of impairment of amortised cost financial assets and financial assets measured at fair value through other comprehensive income requires the selection and calibration of complex models and the use of estimates and assumptions to incorporate relevant information about past events, current conditions and forecasts of economic conditions. Additionally, significant judgement is involved in determining what is considered to be significant increases in credit risk and what the point of initial recognition is for revolving facilities. The assessment of whether goodwill and non-financial assets are impaired, and the measurement of any impairment, involves the application of judgement in determining key assumptions, including discount rates, estimated cash flows for the periods for which detailed cash flows are available and projecting the long-term pattern of sustainable cash flows thereafter. The recognition and measurement of deferred tax assets involves significant judgement regarding the probability and sufficiency of future taxable profits, taking into account the future reversal of existing taxable temporary differences and tax planning strategies, including corporate reorganisations. The recognition and measurement of provisions involve significant judgements due to the high degree of uncertainty in determining whether a present obligation exists, and in estimating the probability and amount of any outflows that may arise. The valuation of financial instruments measured at fair value can be subjective, in particular where models are used that include unobservable inputs. The assessment of interests in associates for impairment involves significant judgements in determining the value in use, in particular estimating the present values of cash flows expected to arise from continuing to hold the investment, based on a number of management assumptions. At 31 December 2020, we performed an impairment review of our investment in BoCom and

concluded it was not impaired based on our value in use calculation. The calculation of the defined benefit pension obligation involves the determination of key assumptions, including discount rate, inflation rate, pension payments and deferred pension and pay and mortality. Given the uncertainty and subjectivity associated with the above critical accounting judgements and estimates, future outcomes may differ materially from those assumed using information available at the reporting date.

The effect of these changes on the future results of operations and the future financial position of the Group may be material, and could have a material adverse effect on our business, financial condition, results of operations and prospects. For further details, see 'Critical accounting estimates and judgements' on page 77.

### **Changes in accounting standards may have a material impact on how we report our financial results and financial condition**

We prepare our consolidated financial statements in conformity with the requirements of the Companies Act 2006 and in accordance with International Financial Reporting Standards ('IFRS') as issued by the International Accounting Standards Board ('IASB'), including interpretations ('IFRICs') issued by the IFRS Interpretations Committee. From time to time, the IASB or the IFRS Interpretations Committee may issue new accounting standards or interpretations that could materially impact how we calculate, report and disclose our financial results and financial condition, and which may affect our capital ratios, including the CET1 ratio. We could also be required to apply new or revised standards retrospectively, resulting in our restating prior period financial statements in material amounts.

---

## **Areas of special interest**

During 2020, a number of areas were identified and considered as part of our top and emerging risks because of the effect they may have on the Group. While considered under the themes captured under top and emerging risks, in this section we have placed a particular focus on the Covid-19 outbreak and the UK withdrawal from the EU.

### **Risks related to Covid-19**

The Covid-19 outbreak and its effect on the global economy have impacted our customers and our performance, and the future effects of the outbreak remain uncertain. The outbreak necessitated governments to respond at unprecedented levels to protect public health, local economies and livelihoods. It has affected regions at different times and to varying degrees as it has developed. The varying government support measures and restrictions in response have added challenges, given the rapid pace of change and significant operational demands. The speed at which countries and territories will be able to unwind the government support measures and restrictions and return to pre-Covid-19 economic levels will vary based on the levels of infection, local governmental decisions and access to and ability to roll out vaccines. There remains a risk of subsequent waves of infection, as evidenced by the recently emerged more transmissible variants of the virus. Renewed outbreaks emphasise the ongoing threat of Covid-19 even in countries that have recorded lower than average cases so far.

Government restrictions imposed around the world to limit the spread of Covid-19 resulted in a sharp contraction in global economic activity during 2020. At the same time governments also took steps designed to soften the extent of the damage to investment, trade and labour markets. Our Central scenario used to calculate impairment assumes that economic activity will gradually recover over the course of 2021. In this scenario, recovery will be supported by a successful roll-out of vaccination programmes across our key markets, which, coupled with effective non-pharmacological measures to contain the virus, will lead to a decline in infections over the course of the year. Governments and central banks are expected to continue to work together across many of our key markets to ensure that households and firms receive an appropriate level of financial

## Risk

support until restrictions on economic activity and mobility can be materially eased. Such support is intended to ensure that labour and housing markets do not experience abrupt, negative corrections. It is also intended to limit the extent of long-term structural damage to economies. There is a high degree of uncertainty associated with economic forecasts in the current environment and there are significant risks to our Central scenario. The degree of uncertainty varies by market, driven by country-specific trends in the evolution of the pandemic and associated policy responses. As a result, our Central scenario for impairment has not been assigned an equal likelihood of occurrence across our key markets. For further details of our Central and other scenarios see 'Measurement uncertainty and sensitivity analysis' on page 169.

There is a material risk of a renewed drop in economic activity. The economic fallout from the Covid-19 outbreak risks increasing inequality across markets that have already suffered from social unrest. This will leave the burden on governments and central banks to maintain or increase fiscal and monetary stimulus. After financial markets suffered a sharp fall in the early phases of the spread of Covid-19, they rebounded but still remain volatile. Depending on the long-term impact on global economic growth, financial asset prices may suffer a further sharp fall.

Governments and central banks in major economies have deployed extensive measures to support their local populations. Measures implemented by governments have included income support to households and funding support to businesses. Central bank measures have included cuts to policy rates, support to funding markets and asset purchases. These measures are being extended in countries where further waves of the Covid-19 outbreak are prompting renewed government restrictions. Central banks are expected to maintain record-low interest rates for a considerable period of time and the debt burden of governments is expected to rise significantly.

We initiated market-specific measures to support our personal and business customers through these challenging times. These included mortgage assistance, payment holidays, the waiving of certain fees and charges, and liquidity relief for businesses facing market uncertainty and supply chain disruption. We are also working closely with governments, and supporting national schemes that focus on the parts of the economy most impacted by Covid-19. In the UK, this included providing access to the various government support schemes from the beginning. In Hong Kong, we provided prompt liquidity relief to businesses facing market uncertainty and supply chain pressures. For further details of our customer relief programmes, see page 184.

Central bank and government actions and support measures taken in response to the Covid-19 outbreak, and our responses to those, have created, and may in the future create restrictions in relation to capital. This has limited and may in the future limit management's flexibility in managing the business and taking action in relation to capital distribution and capital allocation. For example, in response to a written request from the PRA, we cancelled the fourth interim dividend for 2019 of \$0.21 per ordinary share. We also announced that we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares until the end of 2020. Following this, in December 2020 the PRA announced a temporary approach to shareholder distributions for 2020 in which it set out a framework for board decisions on dividends. After considering the requirements of the temporary approach, the Board announced an interim dividend for 2020 of \$0.15 per ordinary share.

The rapid introduction and varying nature of the government support schemes, as well as customer expectations, has led to risks as the Group implements large-scale changes in a short period of time. This has led to increased operational risks, including complex conduct considerations, increased reputational risk and increased risk of fraud. These risks are likely to be heightened further as and when those government support schemes are unwound. Central bank and government actions and support measures, and our responses to those, have also led to increased litigation risk, including lawsuits that have been and

may continue to be brought in connection with our cancellation of the fourth interim dividend for 2019.

At 31 December 2020, our CET1 ratio was 15.9%, compared with 14.7% at 31 December 2019, and our liquidity coverage ratio ('LCR') was 139%. Our capital, funding and liquidity position is expected to help us to continue supporting our customers throughout the Covid-19 outbreak.

In many of our markets the Covid-19 outbreak has led to a worsening of economic conditions and increased uncertainty, which has been reflected in higher ECL reserves. Furthermore, credit losses may increase due to exposure to vulnerable sectors of the economy such as retail, hospitality and commercial real estate. The impact of the pandemic on the long-term prospects of businesses in these sectors is uncertain and may lead to significant credit losses on specific exposures, which may not be fully captured in ECL estimates. In addition, in times of stress, fraudulent activity is often more prevalent, leading to potentially significant credit or operational losses.

The significant changes in economic and market drivers, customer behaviours and government actions caused by Covid-19 have materially impacted the performance of financial models. ECL model performance has been significantly impacted, which has increased reliance on management judgement in determining the appropriate level of ECL estimates. The reliability of ECL models under these circumstances has also been impacted by the unprecedented response from governments to provide a variety of economic stimulus packages to support livelihoods and businesses. Historical observations on which the models were built do not reflect these unprecedented support measures. We continue to monitor credit performance against the level of government support and customer relief programmes.

In order to address some model limitations and performance issues, we redeveloped some of the key models used to calculate ECL estimates. These models have been independently validated by the Model Risk Management team and assessed as having the ability to deliver reliable credit loss estimates. While this reduced the reliance on management judgement for determining ECL estimates, the current uncertain economic outlook, coupled with the expected end to government support schemes, resulted in judgemental post-model adjustments still being required. The Model Risk Management team is reviewing IFRS 9 model performance at the country and Group level on a quarterly basis to assess whether or not the models in place can deliver reliable outputs.

These assessments provide the credit teams with a view of model reliability. The redevelopment of IFRS 9 models will continue as the economic consequences of the Covid-19 outbreak become clearer over time, economic conditions normalise and actual credit losses occur.

As a result of the Covid-19 outbreak, business continuity responses were implemented and the majority of service level agreements have been maintained. We have not experienced any major impacts to the supply chain from our third-party service providers due to the pandemic. The risk of damage or theft to our physical assets or criminal injury to our employees remains unchanged and no significant incidents have impacted our buildings or staff.

There remain significant uncertainties in assessing the duration of the Covid-19 outbreak and its impact. The actions taken by various governments and central banks, in particular in the UK, mainland China, Hong Kong and the US, provide an indication of the potential severity of the downturn and post-recovery environment, which from a commercial, regulatory and risk perspective could be significantly different to past crises and persist for a prolonged period. A continued prolonged period of significantly reduced economic activity as a result of the impact of the outbreak could have a materially adverse effect on our financial condition, results of operations, prospects, liquidity, capital position and credit ratings. We continue to monitor the situation closely, and given the novel or prolonged nature of the outbreak, additional mitigating actions may be required.

## UK withdrawal from the European Union

The UK left the EU on 31 January 2020 and entered a transition period until 31 December 2020. A Trade and Cooperation Agreement between the EU and the UK was agreed on 24 December 2020 and ratified by the UK on 30 December 2020. It includes a joint declaration of cooperation, and in the coming months both parties are expected to enter discussions with the aim of agreeing a Memorandum of Understanding establishing the framework for this cooperation. As expected, the financial passporting arrangement expired at the end of the transition period, and therefore financial institutions in the UK including HSBC Bank plc and HSBC UK lost their EU regulatory permissions to continue servicing clients in the European Economic Area ('EEA') from 1 January 2021. The Trade and Cooperation Agreement mainly focused on goods and services but also covered a wide range of other areas, including competition, state aid, tax, fisheries, transport, data and security. However, it included limited elements on financial services, and, as a result, did not change HSBC's planning in relation to the UK's withdrawal from the EU.

Our programme to manage the impact of the UK withdrawal from the EU has now been largely completed. It was based on the assumption of a scenario whereby the UK exits the transition period without the financial passporting or regulatory equivalence framework that supports cross-border business.

Equivalence decisions are an established feature of EU law, which allow the authorities in the UK and EU to rely on the other's regime for specific regulatory purposes only. While the UK and the EU have made a number of equivalence decisions, these decisions do not give UK firms full access to EU clients and counterparties.

Our programme focused on four main components: legal entity restructuring; product offering; customer migrations; and employees. However, there remain risks, many of them linked to the absence of some equivalence decisions between the EU and the UK.

We have carried out detailed reviews of our credit portfolios to determine those sectors and customers most vulnerable to the UK's exit from the EU and will continue to monitor any implications for our clients in adhering to the new requirements under the Trade and Cooperation Agreement.

### Legal entity restructuring

Our branches in seven EEA countries (Belgium, the Netherlands, Luxembourg, Spain, Italy, Ireland and Czech Republic) relied on financial passporting out of the UK. We had worked on the assumption that this passporting would no longer be possible following the UK's withdrawal from the EU and therefore transferred our branch business to newly established branches of HSBC Continental Europe, our primary banking entity authorised in the EU. This was completed in the first quarter of 2019.

### Product offering

To accommodate customer migrations and new business after the UK's departure from the EU, we expanded our product offering in a wide range of areas such as in our Markets and Securities Services franchise as well as in our Global Trade Business. We also enhanced our cash management solutions in France, the Netherlands and Ireland. We also opened a new branch in Stockholm to service our customers in the Nordic region.

### Customer migrations

The UK's withdrawal from the EU has had an impact on our clients' operating models, including their working capital requirements, investment decisions and financial markets infrastructure access. Our priority is to provide continuity of service, and while our intention was to minimise the level of change for our customers, we were required to migrate some EEA-incorporated clients from the UK to HSBC Continental Europe or another EEA entity. We have now migrated almost all clients who we expect can no longer be serviced out of the UK. The majority of remaining customers are covered by national regimes that allow continuity of financial services on a temporary or

permanent basis between the UK and their respective jurisdictions. We are working in close collaboration with our customers with the aim of managing their transition in 2021, where required.

### Employees

The migration of EEA-incorporated clients required us to strengthen our local teams in the EU, and France in particular. We have now completed the transfer of roles from London to Paris to support our post-UK withdrawal from the EU operating model.

Looking beyond the transfer of roles to the EU, we are also providing support to our employees who are UK citizens resident in EEA countries, and employees who are citizens of an EU member state resident in the UK, for example on settlement applications.

## Our material banking risks

The material risk types associated with our banking and insurance manufacturing operations are described in the following tables:

### Description of risks – banking operations

Risks	Arising from	Measurement, monitoring and management of risk
<p><b>Credit risk (see page 161)</b></p> <p>Credit risk is the risk of financial loss if a customer or counterparty fails to meet an obligation under a contract.</p>	<p>Credit risk arises principally from direct lending, trade finance and leasing business, but also from other products such as guarantees and derivatives.</p>	<p>Credit risk is:</p> <ul style="list-style-type: none"> <li>measured as the amount that could be lost if a customer or counterparty fails to make repayments;</li> <li>monitored using various internal risk management measures and within limits approved by individuals within a framework of delegated authorities; and</li> <li>managed through a robust risk control framework, which outlines clear and consistent policies, principles and guidance for risk managers.</li> </ul>
<p><b>Treasury risk (see page 211)</b></p> <p>Treasury risk is the risk of having insufficient capital, liquidity or funding resources to meet financial obligations and satisfy regulatory requirements, including the risk of adverse impact on earnings or capital due to structural foreign exchange exposures and changes in market interest rates, and including the financial risks arising from historical and current provision of pensions and other post-employment benefits to staff and their dependants.</p>	<p>Treasury risk arises from changes to the respective resources and risk profiles driven by customer behaviour, management decisions, or pension plan fiduciary decisions. It also arises from the external environment, including changes to market parameters such as interest rates or foreign exchange rates, together with updates to the regulatory requirements.</p>	<p>Treasury risk is:</p> <ul style="list-style-type: none"> <li>measured through risk appetite and more granular limits, set to provide an early warning of increasing risk, minimum ratios of relevant regulatory metrics, and metrics to monitor the key risk drivers impacting treasury resources;</li> <li>monitored and projected against appetites and by using operating plans based on strategic objectives together with stress and scenario testing; and</li> <li>managed through control of resources in conjunction with risk profiles, strategic objectives and cash flows.</li> </ul>
<p><b>Market risk (see page 224)</b></p> <p>Market risk is the risk that movements in market factors, such as foreign exchange rates, interest rates, credit spreads, equity prices and commodity prices, will reduce our income or the value of our portfolios.</p>	<p>Exposure to market risk is separated into two portfolios: trading portfolios and non-trading portfolios. Market risk exposures arising from our insurance operations are discussed on page 185.</p>	<p>Market risk is:</p> <ul style="list-style-type: none"> <li>measured using sensitivities, value at risk and stress testing, giving a detailed picture of potential gains and losses for a range of market movements and scenarios, as well as tail risks over specified time horizons;</li> <li>monitored using value at risk, stress testing and other measures; and</li> <li>managed using risk limits approved by the RMM and the risk management meeting in various global businesses.</li> </ul>
<p><b>Resilience risk (see page 228)</b></p> <p>Resilience risk is the risk that we are unable to provide critical services to our customers, affiliates and counterparties as a result of sustained and significant operational disruption.</p>	<p>Resilience risk arises from failures or inadequacies in processes, people, systems or external events.</p>	<p>Resilience risk is:</p> <ul style="list-style-type: none"> <li>measured using a range of metrics with defined maximum acceptable impact tolerances, and against our agreed risk appetite;</li> <li>monitored through oversight of enterprise processes, risks, controls and strategic change programmes; and</li> <li>managed by continual monitoring and thematic reviews.</li> </ul>
<p><b>Regulatory compliance risk (see page 228)</b></p> <p>Regulatory compliance risk is the risk that we fail to observe the letter and spirit of all relevant laws, codes, rules, regulations and standards of good market practice, which as a consequence incur fines and penalties and suffer damage to our business.</p>	<p>Regulatory compliance risk arises from the risks associated with breaching our duty to our customers and inappropriate market conduct, as well as breaching regulatory licensing, permission and rules.</p>	<p>Regulatory compliance risk is:</p> <ul style="list-style-type: none"> <li>measured by reference to risk appetite, identified metrics, incident assessments, regulatory feedback and the judgement and assessment of our regulatory compliance teams;</li> <li>monitored against the first line of defence risk and control assessments, the results of the monitoring and control assurance activities of the second line of defence functions, and the results of internal and external audits and regulatory inspections; and</li> <li>managed by establishing and communicating appropriate policies and procedures, training employees in them and monitoring activity to help ensure their observance. Proactive risk control and/or remediation work is undertaken where required.</li> </ul>
<p><b>Financial crime risk (see page 229)</b></p> <p>Financial crime risk is the risk of knowingly or unknowingly helping parties to commit or to further illegal activity through HSBC, including money laundering, fraud, bribery and corruption, tax evasion, sanctions breaches, and terrorist and proliferation financing.</p>	<p>Financial crime risk arises from day-to-day banking operations involving customers, third parties and employees. Exceptional circumstances that impact day-to-day operations may additionally increase financial crime risk.</p>	<p>Financial crime risk is:</p> <ul style="list-style-type: none"> <li>measured by reference to risk appetite, identified metrics, incident assessments, regulatory feedback and the judgement and assessment of our regulatory compliance teams;</li> <li>monitored against the first line of defence risk and control assessments, the results of the monitoring and control assurance activities of the second line of defence functions, and the results of internal and external audits and regulatory inspections; and</li> <li>managed by establishing and communicating appropriate policies and procedures, training employees in them and monitoring activity to help ensure their observance. Proactive risk control and/or remediation work is undertaken where required.</li> </ul>



## Description of risks – banking operations

Risks	Arising from	Measurement, monitoring and management of risk
<p><b>Model risk (see page 230)</b></p> <p>Model risk is the potential for adverse consequences from business decisions informed by models, which can be exacerbated by errors in methodology, design or the way they are used.</p>	<p>Model risk arises in both financial and non-financial contexts whenever business decision making includes reliance on models.</p>	<p>Model risk is:</p> <ul style="list-style-type: none"> <li>measured by reference to model performance tracking and the output of detailed technical reviews, with key metrics including model review statuses and findings;</li> <li>monitored against model risk appetite statements, insight from the independent review function, feedback from internal and external audits, and regulatory reviews; and</li> <li>managed by creating and communicating appropriate policies, procedures and guidance, training colleagues in their application, and supervising their adoption to ensure operational effectiveness.</li> </ul>

Our insurance manufacturing subsidiaries are regulated separately from our banking operations. Risks in our insurance entities are managed using methodologies and processes that are subject to Group oversight. Our insurance operations are also subject to

many of the same risks as our banking operations, and these are covered by the Group's risk management processes. However, there are specific risks inherent to the insurance operations as noted below.

## Description of risks – insurance manufacturing operations

Risks	Arising from	Measurement, monitoring and management of risk
<p><b>Financial risk (see page 234)</b></p> <p>For insurance entities, financial risk includes the risk of not being able to effectively match liabilities arising under insurance contracts with appropriate investments and that the expected sharing of financial performance with policyholders under certain contracts is not possible.</p>	<p>Exposure to financial risk arises from:</p> <ul style="list-style-type: none"> <li>market risk affecting the fair values of financial assets or their future cash flows;</li> <li>credit risk; and</li> <li>liquidity risk of entities being unable to make payments to policyholders as they fall due.</li> </ul>	<p>Financial risk is:</p> <ul style="list-style-type: none"> <li>measured (i) for credit risk, in terms of economic capital and the amount that could be lost if a counterparty fails to make repayments; (ii) for market risk, in terms of economic capital, internal metrics and fluctuations in key financial variables; and (iii) for liquidity risk, in terms of internal metrics including stressed operational cash flow projections;</li> <li>monitored through a framework of approved limits and delegated authorities; and</li> <li>managed through a robust risk control framework, which outlines clear and consistent policies, principles and guidance. This includes using product design, asset liability matching and bonus rates.</li> </ul>
<p><b>Insurance risk (see page 236)</b></p> <p>Insurance risk is the risk that, over time, the cost of insurance policies written, including claims and benefits, may exceed the total amount of premiums and investment income received.</p>	<p>The cost of claims and benefits can be influenced by many factors, including mortality and morbidity experience, as well as lapse and surrender rates.</p>	<p>Insurance risk is:</p> <ul style="list-style-type: none"> <li>measured in terms of life insurance liabilities and economic capital allocated to insurance underwriting risk;</li> <li>monitored through a framework of approved limits and delegated authorities; and</li> <li>managed through a robust risk control framework, which outlines clear and consistent policies, principles and guidance. This includes using product design, underwriting, reinsurance and claims-handling procedures.</li> </ul>

## Credit risk

	Page
Overview	161
Credit risk management	161
Credit risk in 2020	164
Summary of credit risk	165
Credit exposure	168
Measurement uncertainty and sensitivity analysis of ECL estimates	169
Reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees	177
Credit quality	180
Customer relief programmes	184
Wholesale lending	186
Personal lending	200
Supplementary information	206
HSBC Holdings	211

### Overview

Credit risk is the risk of financial loss if a customer or counterparty fails to meet an obligation under a contract. Credit risk arises principally from direct lending, trade finance and leasing business, but also from other products such as guarantees and credit derivatives.

### Credit risk management

#### Key developments in 2020

There were no material changes to the policies and practices for the management of credit risk in 2020. We continued to apply the requirements of IFRS 9 'Financial Instruments' within the Credit Risk sub-function.

Due to the unique market conditions observed during the Covid-19 outbreak, we expanded operational practices to provide short-term support to customers under the current credit policy framework.

The outbreak necessitated governments to respond at unprecedented levels to protect public health, local economies and livelihoods. It has affected regions at different times and varying degrees as it has developed. The varying government support measures in response have added challenges, given the rapid pace of change and significant operational demands. The speed at which countries and territories will be able to unwind the government measures and return to pre-Covid-19 economic levels will vary based on the levels of infection, local political decisions and access to and ability to roll out vaccine.

As we helped our customers during these challenging times, we continued to prioritise effective and robust credit risk management. We performed a number of reviews on segments of our loan portfolio that were likely to be impacted by the economic slowdown. A number of internal stress tests were conducted under different scenarios in order to assess the potential impact of the Covid-19 outbreak on expected credit losses. We reviewed and implemented the guidance provided by regulators on how to manage the credit portfolio, how to identify the effects of the various payment moratoria, and the appropriate classification of forborne/renewed loans under the various schemes. We also increased our focus on the quality and timeliness of the data used to inform management decisions, so we were able to manage the varying level of risk actively throughout the year.

The Covid-19 outbreak and its effect on the global economy have impacted our customers and our performance during this year, and the future effects of the outbreak remain uncertain.

For further details of market-specific measures to support our personal and business customers, see page 184.

## Risk

### Governance and structure

We have established Group-wide credit risk management and related IFRS 9 processes. We continue to assess the impact of economic developments in key markets on specific customers, customer segments or portfolios. As credit conditions change, we take mitigating action, including the revision of risk appetites or limits and tenors, as appropriate. In addition, we continue to evaluate the terms under which we provide credit facilities within the context of individual customer requirements, the quality of the relationship, local regulatory requirements, market practices and our local market position.

#### Credit Risk sub-function

(Audited)

Credit approval authorities are delegated by the Board to the Group Chief Executive together with the authority to sub-delegate them. The Credit Risk sub-function in Global Risk is responsible for the key policies and processes for managing credit risk, which include formulating Group credit policies and risk rating frameworks, guiding the Group's appetite for credit risk exposures, undertaking independent reviews and objective assessment of credit risk, and monitoring performance and management of portfolios.

The principal objectives of our credit risk management are:

- to maintain across HSBC a strong culture of responsible lending, and robust risk policies and control frameworks;
- to both partner and challenge our businesses in defining, implementing and continually re-evaluating our risk appetite under actual and scenario conditions; and
- to ensure there is independent, expert scrutiny of credit risks, their costs and their mitigation.

### Key risk management processes

#### IFRS 9 'Financial Instruments' process

The IFRS 9 process comprises three main areas: modelling and data; implementation; and governance.

##### Modelling and data

We have established IFRS 9 modelling and data processes in various geographies, which are subject to internal model risk governance including independent review of significant model developments.

##### Implementation

A centralised impairment engine performs the expected credit losses calculation using data, which is subject to a number of validation checks and enhancements, from a variety of client, finance and risk systems. Where possible, these checks and processes are performed in a globally consistent and centralised manner.

##### Governance

Regional management review forums are established in key sites and regions in order to review and approve the impairment results. Regional management review forums have representatives from Credit Risk and Finance. The key site and regional approvals are reported up to the global business impairment committee for final approval of the Group's ECL for the period. Required members of the committee are the global heads of Wholesale Credit, Market Risk, and Wealth and Personal Banking Risk, as well as the global business chief financial officers and the Group Chief Accounting Officer.

#### Concentration of exposure

(Audited)

Concentrations of credit risk arise when a number of counterparties or exposures have comparable economic characteristics, or such counterparties are engaged in similar activities or operate in the same geographical areas or industry sectors so that their collective ability to meet contractual obligations is uniformly affected by changes in economic, political or other conditions. We use a number of controls and measures to

minimise undue concentration of exposure in our portfolios across industries, countries and global businesses. These include portfolio and counterparty limits, approval and review controls, and stress testing.

#### Credit quality of financial instruments

(Audited)

Our risk rating system facilitates the internal ratings-based approach under the Basel framework adopted by the Group to support the calculation of our minimum credit regulatory capital requirement. The five credit quality classifications encompass a range of granular internal credit rating grades assigned to wholesale and retail lending businesses, and the external ratings attributed by external agencies to debt securities.

For debt securities and certain other financial instruments, external ratings have been aligned to the five quality classifications based upon the mapping of related customer risk rating ('CRR') to external credit rating.

#### Wholesale lending

The CRR 10-grade scale summarises a more granular underlying 23-grade scale of obligor probability of default ('PD'). All corporate customers are rated using the 10- or 23-grade scale, depending on the degree of sophistication of the Basel approach adopted for the exposure.

Each CRR band is associated with an external rating grade by reference to long-run default rates for that grade, represented by the average of issuer-weighted historical default rates. This mapping between internal and external ratings is indicative and may vary over time.

#### Retail lending

Retail lending credit quality is based on a 12-month point-in-time probability-weighted PD.

## Credit quality classification

Footnotes	Sovereign debt securities and bills	Other debt securities and bills	Wholesale lending and derivatives		Retail lending	
	External credit rating	External credit rating	Internal credit rating	12-month Basel probability of default %	Internal credit rating	12 month probability-weighted PD %
<b>Quality classification</b>	1, 2					
Strong	<b>BBB and above</b>	<b>A- and above</b>	<b>CRR 1 to CRR 2</b>	<b>0–0.169</b>	<b>Band 1 and 2</b>	<b>0.000–0.500</b>
Good	<b>BBB- to BB</b>	<b>BBB+ to BBB-</b>	<b>CRR 3</b>	<b>0.170–0.740</b>	<b>Band 3</b>	<b>0.501–1.500</b>
Satisfactory	<b>BB- to B and unrated</b>	<b>BB+ to B and unrated</b>	<b>CRR 4 to CRR 5</b>	<b>0.741–4.914</b>	<b>Band 4 and 5</b>	<b>1.501–20.000</b>
Sub-standard	<b>B- to C</b>	<b>B- to C</b>	<b>CRR 6 to CRR 8</b>	<b>4.915–99.999</b>	<b>Band 6</b>	<b>20.001–99.999</b>
Credit impaired	<b>Default</b>	<b>Default</b>	<b>CRR 9 to CRR 10</b>	<b>100</b>	<b>Band 7</b>	<b>100</b>

1 Customer risk rating ('CRR').

2 12-month point-in-time probability-weighted probability of default ('PD').

### Quality classification definitions

- 'Strong' exposures demonstrate a strong capacity to meet financial commitments, with negligible or low probability of default and/or low levels of expected loss.
- 'Good' exposures require closer monitoring and demonstrate a good capacity to meet financial commitments, with low default risk.
- 'Satisfactory' exposures require closer monitoring and demonstrate an average-to-fair capacity to meet financial commitments, with moderate default risk.
- 'Sub-standard' exposures require varying degrees of special attention and default risk is of greater concern.
- 'Credit-impaired' exposures have been assessed as described on Note 1.2(i) on the financial statements.

### Renegotiated loans and forbearance

(Audited)

'Forbearance' describes concessions made on the contractual terms of a loan in response to an obligor's financial difficulties.

A loan is classed as 'renegotiated' when we modify the contractual payment terms on concessionary terms because we have significant concerns about the borrowers' ability to meet contractual payments when due. Non-payment-related concessions (e.g. covenant waivers), while potential indicators of impairment, do not trigger identification as renegotiated loans.

Loans that have been identified as renegotiated retain this designation until maturity or derecognition.

For details of our policy on derecognised renegotiated loans, see Note 1.2(i) on the financial statements.

### Credit quality of renegotiated loans

On execution of a renegotiation, the loan will also be classified as credit impaired if it is not already so classified. In wholesale lending, all facilities with a customer, including loans that have not been modified, are considered credit impaired following the identification of a renegotiated loan.

Wholesale renegotiated loans are classified as credit impaired until there is sufficient evidence to demonstrate a significant reduction in the risk of non-payment of future cash flows, observed over a minimum one-year period, and there are no other indicators of impairment. Personal renegotiated loans generally remain credit impaired until repayment, write-off or derecognition.

### Renegotiated loans and recognition of expected credit losses

(Audited)

For retail lending, unsecured renegotiated loans are generally segmented from other parts of the loan portfolio. Renegotiated expected credit loss assessments reflect the higher rates of losses typically encountered with renegotiated loans. For wholesale lending, renegotiated loans are typically assessed individually. Credit risk ratings are intrinsic to the impairment assessments. The individual impairment assessment takes into account the higher risk of the future non-payment inherent in renegotiated loans.

### Customer relief programmes and renegotiated loans

In response to the Covid-19 outbreak, governments and regulators around the world encouraged a range of customer relief programmes including payment deferrals. In determining whether a customer is experiencing financial difficulty for the purposes of

identifying renegotiated loans a payment deferral requested under such schemes, or an extension thereof, is not automatically determined to be evidence of financial difficulty and would therefore not automatically trigger identification as renegotiated loans. Rather, information provided by payment deferrals is considered in the context of other reasonable and supportable information. The IFRS 9 treatment of customer relief programmes is explained on page 184.

### Impairment assessment

(Audited)

For details of our impairment policies on loans and advances and financial investments, see Note 1.2(i) on the financial statements.

### Write-off of loans and advances

(Audited)

For details of our policy on the write-off of loans and advances, see Note 1.2(i) on the financial statements.

Unsecured personal facilities, including credit cards, are generally written off at between 150 and 210 days past due. The standard period runs until the end of the month in which the account becomes 180 days contractually delinquent. However, in exceptional circumstances, they may be extended further.

For secured facilities, write-off should occur upon repossession of collateral, receipt of proceeds via settlement, or determination that recovery of the collateral will not be pursued.

Any secured assets maintained on the balance sheet beyond 60 months of consecutive delinquency-driven default require additional monitoring and review to assess the prospect of recovery.

There are exceptions in a few countries and territories where local regulation or legislation constrains earlier write-off, or where the realisation of collateral for secured real estate lending takes more time. In the event of bankruptcy or analogous proceedings, write-off may occur earlier than the maximum periods stated above. Collection procedures may continue after write-off.

### Credit risk in 2020

At 31 December 2020, gross loans and advances to customers and banks of \$1,134bn increased by \$19.4bn, compared with 31 December 2019. This included favourable foreign exchange movements of \$26.4bn. Excluding foreign exchange movements, the decline was driven by a \$33.2bn decrease in wholesale loans and advances to customers. This was partly offset by a \$15bn increase in personal loans and advances and a \$11.2bn increase in loans and advances to banks.

At 31 December 2020, the allowance for ECL of \$15.7bn increased by \$6.3bn compared with 31 December 2019, including adverse foreign exchange movements of \$0.1bn. It increased by \$1.2bn compared with 30 June 2020. The \$15.7bn allowance comprised \$14.7bn in respect of assets held at amortised cost, \$0.9bn in respect of loan commitments and financial guarantees, and \$0.1bn in respect of debt instruments measured at fair value through other comprehensive income ('FVOCI').

During the first half of 2020, the Group experienced a significant increase in allowances for ECL, which subsequently stabilised during the second half of 2020. Excluding foreign exchange movements, the allowance for ECL in relation to loans and advances to customers increased by \$5.7bn from 31 December 2019. This was attributable to:

- a \$4.1bn increase in wholesale loans and advances to customers, of which \$2.0bn was driven by stages 1 and 2; and
- a \$1.6bn increase in personal loans and advances to customers, of which \$1.3bn was driven by stages 1 and 2.

During the first six months of the year, the Group experienced significant migrations from stage 1 to stage 2, reflecting a worsening of the economic outlook. This trend slowed during the second half of 2020 as forward economic guidance remained broadly stable in comparison with 30 June 2020, with some regions experiencing transfers from stage 2 to stage 1.

At 31 December 2020, stage 3 gross loans and advances to customers and banks of \$19.1bn increased by \$5.7bn compared with 31 December 2019. This included favourable foreign exchange movements of \$0.2bn. Stage 3 gross loans and advances to customers and banks at 31 December 2020 increased from \$17.1bn at 30 June 2020, while benefiting from releases from historical default cases. As the Covid-19 pandemic continues, there may be volatility in future stage 3 balances, in particular due to the expiration of the measures implemented by governments, regulators and banks to support customers.

The ECL charge for 2020 was \$8.8bn, inclusive of recoveries, which comprised \$6.0bn in respect of wholesale lending, of which stage 3 and purchased or originated credit impaired ('POCI') was \$3.4bn; \$2.7bn in respect of personal lending, of which stage 3 was \$0.8bn; and \$0.1bn in respect of other financial assets measured at amortised cost and debt instruments measured at FVOCI.

The ECL charge for the six months ended 30 June 2020 was \$6.9bn, which comprised \$4.6bn in respect of wholesale lending, of which stage 3 and POCI was \$2.2bn; \$2.0bn in respect of personal lending, of which stage 3 was \$0.5bn; and \$0.2bn in respect of other financial assets measured at amortised cost and debt instruments measured at FVOCI.

*Income statement movements are analysed further on page 79.*

While credit risk arises across most of our balance sheet, ECL have typically been recognised on loans and advances to customers and banks, in addition to securitisation exposures and other structured products. As a result, our disclosures focus primarily on these two areas. For further details of:

- maximum exposure to credit risk, see page 168;
- measurement uncertainty and sensitivity analysis of ECL estimates, see page 169;
- reconciliation of changes in gross carrying/ nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees, see page 177;
- credit quality, see page 180;
- customer relief programmes, see page 184;
- total wholesale lending for loans and advances to banks and customers by stage distribution, see page 187;
- wholesale lending collateral, see page 192;
- total personal lending for loans and advances to customers at amortised cost by stage distribution, see page 201; and
- personal lending collateral, see page 204.

## Summary of credit risk

The following disclosure presents the gross carrying/nominal amount of financial instruments to which the impairment requirements in IFRS 9 are applied and the associated allowance for ECL.

### Summary of financial instruments to which the impairment requirements in IFRS 9 are applied

(Audited)

	31 Dec 2020		At 31 Dec 2019	
	Gross carrying/ nominal amount \$m	Allowance for ECL <sup>1</sup> \$m	Gross carrying/ nominal amount \$m	Allowance for ECL <sup>1</sup> \$m
Loans and advances to customers at amortised cost	1,052,477	(14,490)	1,045,475	(8,732)
– personal	460,809	(4,731)	434,271	(3,134)
– corporate and commercial	527,088	(9,494)	540,499	(5,438)
– non-bank financial institutions	64,580	(265)	70,705	(160)
Loans and advances to banks at amortised cost	81,658	(42)	69,219	(16)
Other financial assets measured at amortised cost	772,408	(175)	615,179	(118)
– cash and balances at central banks	304,486	(5)	154,101	(2)
– items in the course of collection from other banks	4,094	–	4,956	–
– Hong Kong Government certificates of indebtedness	40,420	–	38,380	–
– reverse repurchase agreements – non-trading	230,628	–	240,862	–
– financial investments	88,719	(80)	85,788	(53)
– prepayments, accrued income and other assets	104,061	(90)	91,092	(63)
<b>Total gross carrying amount on-balance sheet</b>	<b>1,906,543</b>	<b>(14,707)</b>	<b>1,729,873</b>	<b>(8,866)</b>
Loans and other credit-related commitments	659,783	(734)	600,029	(329)
– personal	236,170	(40)	223,314	(15)
– corporate and commercial	299,802	(650)	278,524	(307)
– non-bank financial institutions	123,811	(44)	98,191	(7)
Financial guarantees	18,384	(125)	20,214	(48)
– personal	900	(1)	804	(1)
– corporate and commercial	12,946	(114)	14,804	(44)
– non-bank financial institutions	4,538	(10)	4,606	(3)
<b>Total nominal amount off-balance sheet</b>	<b>678,167</b>	<b>(859)</b>	<b>620,243</b>	<b>(377)</b>
	<b>2,584,710</b>	<b>(15,566)</b>	<b>2,350,116</b>	<b>(9,243)</b>

	Fair value \$m	Memorandum allowance for ECL <sup>4</sup> \$m	Fair value \$m	Memorandum allowance for ECL <sup>4</sup> \$m
Debt instruments measured at fair value through other comprehensive income ('FVOCI')	399,717	(141)	355,664	(166)

1 The total ECL is recognised in the loss allowance for the financial asset unless the total ECL exceeds the gross carrying amount of the financial asset, in which case the ECL is recognised as a provision.

2 Includes only those financial instruments that are subject to the impairment requirements of IFRS 9. 'Prepayments, accrued income and other assets', as presented within the consolidated balance sheet on page 316, includes both financial and non-financial assets.

3 Represents the maximum amount at risk should the contracts be fully drawn upon and clients default.

4 Debt instruments measured at FVOCI continue to be measured at fair value with the allowance for ECL as a memorandum item. Change in ECL is recognised in 'Change in expected credit losses and other credit impairment charges' in the income statement.

The following table provides an overview of the Group's credit risk by stage and industry, and the associated ECL coverage. The financial assets recorded in each stage have the following characteristics:

- Stage 1: These financial assets are unimpaired and without significant increase in credit risk on which a 12-month allowance for ECL is recognised.
- Stage 2: A significant increase in credit risk has been experienced on these financial assets since initial recognition for which a lifetime ECL is recognised.
- Stage 3: There is objective evidence of impairment and the financial assets are therefore considered to be in default or otherwise credit impaired on which a lifetime ECL is recognised.
- POCI: Financial assets that are purchased or originated at a deep discount are seen to reflect the incurred credit losses on which a lifetime ECL is recognised.

## Risk

### Summary of credit risk (excluding debt instruments measured at FVOCI) by stage distribution and ECL coverage by industry sector at 31 December 2020

(Audited)

	Gross carrying/nominal amount <sup>1</sup>				Allowance for ECL						ECL coverage %				
	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	%	%	%	%	%
Loans and advances to customers at amortised cost	869,920	163,185	19,095	277	1,052,477	(1,974)	(4,965)	(7,439)	(112)	(14,490)	0.2	3.0	39.0	40.4	1.4
– personal	430,134	25,064	5,611	–	460,809	(827)	(2,402)	(1,502)	–	(4,731)	0.2	9.6	26.8	–	1.0
– corporate and commercial	387,563	126,287	12,961	277	527,088	(1,101)	(2,444)	(5,837)	(112)	(9,494)	0.3	1.9	45.0	40.4	1.8
– non-bank financial institutions	52,223	11,834	523	–	64,580	(46)	(119)	(100)	–	(265)	0.1	1.0	19.1	–	0.4
Loans and advances to banks at amortised cost	79,654	2,004	–	–	81,658	(33)	(9)	–	–	(42)	–	0.4	–	–	0.1
Other financial assets measured at amortised cost	768,216	3,975	177	40	772,408	(80)	(44)	(42)	(9)	(175)	–	1.1	23.7	22.5	–
Loan and other credit-related commitments	604,485	54,217	1,080	1	659,783	(290)	(365)	(78)	(1)	(734)	–	0.7	7.2	100.0	0.1
– personal	234,337	1,681	152	–	236,170	(39)	(1)	–	–	(40)	–	0.1	–	–	–
– corporate and commercial	253,062	45,851	888	1	299,802	(236)	(338)	(75)	(1)	(650)	0.1	0.7	8.4	100.0	0.2
– financial	117,086	6,685	40	–	123,811	(15)	(26)	(3)	–	(44)	–	0.4	7.5	–	–
Financial guarantees	14,090	4,024	269	1	18,384	(37)	(62)	(26)	–	(125)	0.3	1.5	9.7	–	0.7
– personal	872	26	2	–	900	–	(1)	–	–	(1)	–	3.8	–	–	0.1
– corporate and commercial	9,536	3,157	252	1	12,946	(35)	(54)	(25)	–	(114)	0.4	1.7	9.9	–	0.9
– financial	3,682	841	15	–	4,538	(2)	(7)	(1)	–	(10)	0.1	0.8	6.7	–	0.2
<b>At 31 Dec 2020</b>	<b>2,336,365</b>	<b>227,405</b>	<b>20,621</b>	<b>319</b>	<b>2,584,710</b>	<b>(2,414)</b>	<b>(5,445)</b>	<b>(7,585)</b>	<b>(122)</b>	<b>(15,566)</b>	<b>0.1</b>	<b>2.4</b>	<b>36.8</b>	<b>38.2</b>	<b>0.6</b>

<sup>1</sup> Represents the maximum amount at risk should the contracts be fully drawn upon and clients default.

<sup>2</sup> Purchased or originated credit-impaired ('POCI').

Unless identified at an earlier stage, all financial assets are deemed to have suffered a significant increase in credit risk when they are 30 days past due ('DPD') and are transferred from stage 1 to stage 2. The following disclosure presents the ageing of stage 2 financial assets by those less than 30 days and greater than 30

DPD and therefore presents those financial assets classified as stage 2 due to ageing (30 DPD) and those identified at an earlier stage (less than 30 DPD).

### Stage 2 days past due analysis at 31 December 2020

(Audited)

	Gross carrying amount				Allowance for ECL				ECL coverage %			
	Stage 2	Up-to-date	1 to 29 DPD <sup>1,2</sup>	30 and > DPD <sup>1,2</sup>	Stage 2	Up-to-date	1 to 29 DPD <sup>1,2</sup>	30 and > DPD <sup>1,2</sup>	Stage 2	Up-to-date	1 to 29 DPD <sup>1,2</sup>	30 and > DPD <sup>1,2</sup>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	%	%	%	%
Loans and advances to customers at amortised cost	163,185	159,367	2,052	1,766	(4,965)	(4,358)	(275)	(332)	3.0	2.7	13.4	18.8
– personal	25,064	22,250	1,554	1,260	(2,402)	(1,895)	(227)	(280)	9.6	8.5	14.6	22.2
– corporate and commercial	126,287	125,301	489	497	(2,444)	(2,344)	(48)	(52)	1.9	1.9	9.8	10.5
– non-bank financial institutions	11,834	11,816	9	9	(119)	(119)	–	–	1.0	1.0	–	–
Loans and advances to banks at amortised cost	2,004	2,004	–	–	(9)	(9)	–	–	0.4	0.4	–	–
Other financial assets measured at amortised cost	3,975	3,963	3	9	(44)	(44)	–	–	1.1	1.1	–	–

<sup>1</sup> Days past due ('DPD').

<sup>2</sup> The days past due amounts presented above are on a contractual basis and include the benefit of any customer relief payment holidays granted.

Summary of credit risk (excluding debt instruments measured at FVOCI) by stage distribution and ECL coverage by industry sector at 31 December 2019 (continued)

(Audited)

	Gross carrying/nominal amount <sup>1</sup>					Allowance for ECL					ECL coverage %				
	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total	Stage 1	Stage 2	Stage 3	POCI <sup>2</sup>	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	%	%	%	%	%
Loans and advances to customers at amortised cost	951,583	80,182	13,378	332	1,045,475	(1,297)	(2,284)	(5,052)	(99)	(8,732)	0.1	2.8	37.8	29.8	0.8
– personal	413,669	15,751	4,851	–	434,271	(583)	(1,336)	(1,215)	–	(3,134)	0.1	8.5	25.0	–	0.7
– corporate and commercial	472,253	59,599	8,315	332	540,499	(672)	(920)	(3,747)	(99)	(5,438)	0.1	1.5	45.1	29.8	1.0
– non-bank financial institutions	65,661	4,832	212	–	70,705	(42)	(28)	(90)	–	(160)	0.1	0.6	42.5	–	0.2
Loans and advances to banks at amortised cost	67,769	1,450	–	–	69,219	(14)	(2)	–	–	(16)	–	0.1	–	–	–
Other financial assets measured at amortised cost	613,200	1,827	151	1	615,179	(38)	(38)	(42)	–	(118)	–	2.1	27.8	–	–
Loan and other credit-related commitments	577,631	21,618	771	9	600,029	(137)	(133)	(59)	–	(329)	–	0.6	7.7	–	0.1
– personal	221,490	1,630	194	–	223,314	(13)	(2)	–	–	(15)	–	0.1	–	–	–
– corporate and commercial	259,138	18,804	573	9	278,524	(118)	(130)	(59)	–	(307)	–	0.7	10.3	–	0.1
– financial	97,003	1,184	4	–	98,191	(6)	(1)	–	–	(7)	–	0.1	–	–	–
Financial guarantees	17,684	2,340	186	4	20,214	(16)	(22)	(10)	–	(48)	0.1	0.9	5.4	–	0.2
– personal	802	1	1	–	804	(1)	–	–	–	(1)	0.1	–	–	–	0.1
– corporate and commercial	12,540	2,076	184	4	14,804	(14)	(21)	(9)	–	(44)	0.1	1.0	4.9	–	0.3
– financial	4,342	263	1	–	4,606	(1)	(1)	(1)	–	(3)	–	0.4	100.0	–	0.1
At 31 Dec 2019	2,227,867	107,417	14,486	346	2,350,116	(1,502)	(2,479)	(5,163)	(99)	(9,243)	0.1	2.3	35.6	28.6	0.4

<sup>1</sup> Represents the maximum amount at risk should the contracts be fully drawn upon and clients default.

<sup>2</sup> Purchased or originated credit-impaired ('POCI').

Stage 2 days past due analysis at 31 December 2019

(Audited)

	Gross carrying amount				Allowance for ECL				ECL coverage %			
	Stage 2	Up-to-date	1 to 29 DPD <sup>1</sup>	30 and > DPD <sup>1</sup>	Stage 2	Up-to-date	1 to 29 DPD <sup>1</sup>	30 and > DPD <sup>1</sup>	Stage 2	Up-to-date	1 to 29 DPD <sup>1</sup>	30 and > DPD <sup>1</sup>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	%	%	%	%
Loans and advances to customers at amortised cost	80,182	76,035	2,471	1,676	(2,284)	(1,829)	(208)	(247)	2.8	2.4	8.4	14.7
– personal	15,751	12,658	1,804	1,289	(1,336)	(941)	(178)	(217)	8.5	7.4	9.9	16.8
– corporate and commercial	59,599	58,557	657	385	(920)	(860)	(30)	(30)	1.5	1.5	4.6	7.8
– non-bank financial institutions	4,832	4,820	10	2	(28)	(28)	–	–	0.6	0.6	–	–
Loans and advances to banks at amortised cost	1,450	1,450	–	–	(2)	(2)	–	–	0.1	0.1	–	–
Other financial assets measured at amortised cost	1,827	1,783	14	30	(38)	(38)	–	–	2.1	2.1	–	–

<sup>1</sup> Days past due ('DPD').

## Risk

### Credit exposure

#### Maximum exposure to credit risk

(Audited)

This section provides information on balance sheet items and their offsets as well as loan and other credit-related commitments. Commentary on consolidated balance sheet movements in 2020 is provided on page 85.

The offset on derivatives remains in line with the movements in maximum exposure amounts.

#### 'Maximum exposure to credit risk' table

The following table presents our maximum exposure before taking account of any collateral held or other credit enhancements (unless such enhancements meet accounting offsetting requirements). The table excludes financial instruments whose carrying amount best represents the net exposure to credit risk, and it excludes equity securities as they are not subject to credit risk. For the financial assets recognised on the balance sheet, the maximum exposure to credit risk equals their carrying amount and is net of the allowance for ECL. For financial guarantees and other guarantees granted, it is the maximum amount that we would have to pay if the guarantees were called upon. For loan commitments and other credit-related commitments, it is generally the full amount of the committed facilities.

The offset in the table relates to amounts where there is a legally enforceable right of offset in the event of counterparty default and where, as a result, there is a net exposure for credit risk purposes. However, as there is no intention to settle these balances on a net basis under normal circumstances, they do not qualify for net presentation for accounting purposes. No offset has been applied to off-balance sheet collateral. In the case of derivatives, the offset column also includes collateral received in cash and other financial assets.

### Other credit risk mitigants

While not disclosed as an offset in the following 'Maximum exposure to credit risk' table, other arrangements are in place that reduce our maximum exposure to credit risk. These include a charge over collateral on borrowers' specific assets, such as residential properties, collateral held in the form of financial instruments that are not held on the balance sheet and short positions in securities. In addition, for financial assets held as part of linked insurance/investment contracts the risk is predominantly borne by the policyholder. See page 329 and Note 30 on the financial statements for further details of collateral in respect of certain loans and advances and derivatives.

Collateral available to mitigate credit risk is disclosed in the 'Collateral' section on page 192.

#### Maximum exposure to credit risk

(Audited)

	2020			2019		
	Maximum exposure \$m	Offset \$m	Net \$m	Maximum exposure \$m	Offset \$m	Net \$m
Loans and advances to customers held at amortised cost	1,037,987	(27,221)	1,010,766	1,036,743	(28,524)	1,008,219
– personal	456,078	(4,287)	451,791	431,137	(4,640)	426,497
– corporate and commercial	517,594	(21,102)	496,492	535,061	(21,745)	513,316
– non-bank financial institutions	64,315	(1,832)	62,483	70,545	(2,139)	68,406
Loans and advances to banks at amortised cost	81,616	–	81,616	69,203	–	69,203
Other financial assets held at amortised cost	774,116	(14,668)	759,448	616,648	(28,826)	587,822
– cash and balances at central banks	304,481	–	304,481	154,099	–	154,099
– items in the course of collection from other banks	4,094	–	4,094	4,956	–	4,956
– Hong Kong Government certificates of indebtedness	40,420	–	40,420	38,380	–	38,380
– reverse repurchase agreements – non-trading	230,628	(14,668)	215,960	240,862	(28,826)	212,036
– financial investments	88,639	–	88,639	85,735	–	85,735
– prepayments, accrued income and other assets	105,854	–	105,854	92,616	–	92,616
Derivatives	307,726	(293,240)	14,486	242,995	(232,908)	10,087
<b>Total on-balance sheet exposure to credit risk</b>	<b>2,201,445</b>	<b>(335,129)</b>	<b>1,866,316</b>	<b>1,965,589</b>	<b>(290,258)</b>	<b>1,675,331</b>
Total off-balance sheet	940,185	–	940,185	893,246	–	893,246
– financial and other guarantees	96,147	–	96,147	95,967	–	95,967
– loan and other credit-related commitments	844,038	–	844,038	797,279	–	797,279
<b>At 31 Dec</b>	<b>3,141,630</b>	<b>(335,129)</b>	<b>2,806,501</b>	<b>2,858,835</b>	<b>(290,258)</b>	<b>2,568,577</b>

#### Concentration of exposure

We have a number of global businesses with a broad range of products. We operate in a number of geographical markets with the majority of our exposures in Asia and Europe.

For an analysis of:

- financial investments, see Note 16 on the financial statements;
- trading assets, see Note 11 on the financial statements;
- derivatives, see page 200 and Note 15 on the financial statements; and
- loans and advances by industry sector and by the location of the principal operations of the lending subsidiary (or, in the case of the operations of The Hongkong and Shanghai Banking Corporation, HSBC Bank plc, HSBC Bank Middle East Limited and HSBC Bank USA, by the location of the lending branch), see page 186 for wholesale lending and page 200 for personal lending.

#### Credit deterioration of financial instruments

(Audited)

*A summary of our current policies and practices regarding the identification, treatment and measurement of stage 1, stage 2, stage 3 (credit impaired) and POCI financial instruments can be found in Note 1.2 on the financial statements.*



## Measurement uncertainty and sensitivity analysis of ECL estimates

(Audited)

The recognition and measurement of ECL involves the use of significant judgement and estimation. We form multiple economic scenarios based on economic forecasts, apply these assumptions to credit risk models to estimate future credit losses, and probability-weight the results to determine an unbiased ECL estimate. Management judgemental adjustments are used to address late-breaking events, data and model limitations, model deficiencies and expert credit judgements.

### Methodology

Four economic scenarios have been used to capture the exceptional nature of the current economic environment and to articulate management's view of the range of potential outcomes. Scenarios produced to calculate ECL are aligned to HSBC's top and emerging risks. Three of these scenarios are drawn from consensus forecasts and distributional estimates. The Central scenario is deemed the 'most likely' scenario, and usually attracts the largest probability weighting, while the outer scenarios represent the tails of the distribution, which are less likely to occur. The Central scenario is created using the average of a panel of external forecasters, while consensus Upside and Downside scenarios are created with reference to distributions for select markets that capture forecasters' views of the entire range of outcomes. Management has chosen to use an additional scenario to represent its view of severe downside risks. The use of an additional scenario is in line with HSBC's forward economic guidance methodology and has been regularly used over the course of 2020. Management may include additional scenarios if it feels that the consensus scenarios do not adequately capture the top and emerging risks. Unlike the consensus scenarios, these additional scenarios are driven by narrative assumptions, could be country-specific and may result in shocks that drive economic activity permanently away from trend.

### Description of economic scenarios

The economic assumptions presented in this section have been formed by HSBC with reference to external forecasts specifically for the purpose of calculating ECL.

The world economy experienced a deep economic shock in 2020. As Covid-19 spread globally, governments in many of our markets sought to limit the human impact by imposing significant restrictions on mobility, in turn driving the deep falls in activity that were observed in the first half of the year. Restrictions were eased as cases declined in response to the initial measures, which supported an initial rebound in economic activity by the third quarter of 2020. This increase in mobility unfortunately led to renewed transmission of the virus in several countries, placing healthcare systems under significant burden, leading governments to reimpose restrictions on mobility and causing economic activity to decline once more.

Economic forecasts are subject to a high degree of uncertainty in the current environment. Limitations of forecasts and economic models require a greater reliance on management judgement in addressing both the error inherent in economic forecasts and in assessing associated ECL outcomes. The scenarios used to calculate ECL in the *Annual Report and Accounts 2020* are described below.

### The consensus Central scenario

HSBC's Central scenario features an improvement in economic growth in 2021 as activity and employment gradually return to the levels experienced prior to the outbreak of Covid-19.

Despite the sharp contraction in activity, government support in advanced economies played a crucial role in averting significant financial distress. At the same time, central banks in our key markets implemented a variety of measures, which included lowering their main policy interest rates, implementing emergency support measures for funding markets, and either restarting or increasing quantitative easing programmes in order to support

economies and the financial system. Across our key markets, governments and central banks are expected to continue to work together to ensure that households and firms receive an appropriate level of financial support until restrictions on economic activity and mobility can be materially eased. Such support intends to ensure that labour and housing markets do not experience abrupt, negative corrections and also intends to limit the extent of long-term structural damage to economies.

Our Central scenario incorporates expectations that governments and public health authorities in our key markets will implement large vaccination programmes, first by inoculating critical groups and then increasing coverage to include the wider population. The deployment of mass vaccination programmes marks a significant step forward in combating the virus and will ease the burden on healthcare systems. We expect vaccination programmes across our key markets to contribute positively to recovery prospects and our Central scenario assumes a steady increase in the proportion of the population inoculated against Covid-19 over the course of 2021.

Differences across markets in the speed and scale of economic recovery in the Central scenario reflect differences in the progression of the Covid-19 outbreak, national level differences in restrictions imposed, the coverage achieved by vaccination programmes and the scale of support measures.

The key features of our Central scenario are:

- Economic activity across our top eight markets will recover in 2021, supported by a successful roll-out of vaccination programmes. We expect vaccination programmes, coupled with effective non-pharmacological measures to contain the virus including 'track and trace' systems and restrictions to mobility, to lead to a significant decline in infections across our key markets by the end of 2021.
- Where government support programmes are available, they will continue to provide support to labour markets and households in 2021. We expect a gradual reversion of the unemployment rate to pre-crisis levels over the course of the projection period as a result of economic recovery and due to the orderly withdrawal of government support.
- Inflation will converge towards central bank targets in our key markets.
- In advanced economies, government support in 2020 led to large deficits and a significant increase in public debt. This support is expected to continue as needed and deficits are expected to reduce gradually over the projection period. Sovereign debt levels will remain high and our Central scenario does not assume fiscal austerity.
- Policy interest rates in key markets will remain at current levels for an extended period and will increase very modestly towards the end of our projection period. Central banks will continue to provide assistance through their asset purchase programmes as needed.
- The West Texas Intermediate oil price is forecast to average \$43 per barrel over the projection period.

## Risk

The following table describes key macroeconomic variables and the probabilities assigned in the consensus Central scenario.

### Central scenario 2021–2025

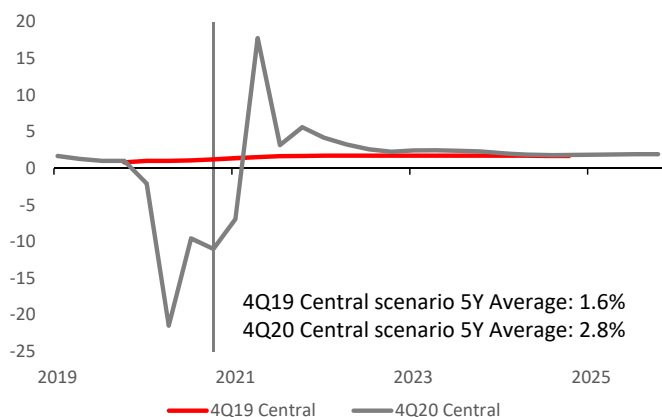
	UK %	US %	Hong Kong %	Mainland China %	Canada %	France %	UAE %	Mexico %
<b>GDP growth rate</b>								
2020: Annual average growth rate	(11.0)	(4.1)	(6.4)	2.0	(6.1)	(9.7)	(6.3)	(9.7)
2021: Annual average growth rate	4.9	3.8	4.3	7.8	5.0	5.9	3.0	3.7
2022: Annual average growth rate	3.1	2.9	2.9	5.3	3.1	2.9	3.6	2.5
2023: Annual average growth rate	2.4	2.4	2.6	5.2	2.4	2.2	3.9	2.4
5-year average	2.8	2.7	2.9	5.6	2.9	2.9	3.4	2.6
<b>Unemployment rate</b>								
2020: Annual average rate	4.6	8.3	5.8	3.9	9.6	7.9	3.1	5.4
2021: Annual average rate	6.9	6.7	5.0	4.1	7.9	10.0	2.7	5.3
2022: Annual average rate	5.8	5.8	3.9	4.2	6.8	9.1	2.6	4.7
2023: Annual average rate	5.4	4.9	3.8	4.1	6.5	8.8	2.7	4.5
5-year average	5.6	5.3	4.0	4.0	6.8	9.0	2.7	4.6
<b>House price growth</b>								
2020: Annual average growth rate	2.3	6.0	(0.8)	2.3	5.7	4.4	(11.6)	5.5
2021: Annual average growth rate	(2.1)	4.0	(2.2)	4.7	2.1	(0.5)	(9.8)	3.4
2022: Annual average growth rate	0.9	4.3	2.4	5.7	2.0	4.1	(1.3)	5.0
2023: Annual average growth rate	3.0	4.0	5.2	5.0	3.1	4.1	2.6	4.6
5-year average	1.9	4.0	2.3	4.7	2.7	2.8	–	4.2
<b>Short-term interest rate</b>								
2020: Annual average rate	0.3	0.7	1.2	3.2	0.8	(0.4)	1.0	5.7
2021: Annual average rate	0.1	0.3	1.0	2.9	0.5	(0.5)	0.8	4.5
2022: Annual average rate	0.1	0.3	1.1	3.0	0.6	(0.5)	0.8	4.7
2023: Annual average rate	0.1	0.4	1.2	3.1	0.8	(0.5)	0.9	5.2
5-year average	0.2	0.5	1.3	3.1	0.8	(0.5)	1.0	5.2
<b>Probability</b>	<b>40</b>	<b>65</b>	<b>70</b>	<b>80</b>	<b>70</b>	<b>40</b>	<b>65</b>	<b>65</b>

The graphs comparing the respective Central scenarios in the fourth quarters of 2019 and 2020 reveal the extent of economic dislocation that occurred in 2020 and the impact this has had on central projections made at the end of 2019.

The emergent nature of the Covid-19 outbreak at the end of 2019 meant that, consistent with other banks, HSBC's Central scenario did not, on a forward-looking basis, consider the impact of the virus. Our Central scenario at the 2019 year-end projected moderate growth over a five-year horizon, with strong prospects for employment and a gradual increase in policy interest rates by central banks in the major economies of Europe and North America. The onset of the virus led to a fundamental reassessment of our Central forecast and the distribution of risks over the course of 2020. Our Central scenario at the end of 2020, as described above, is based on assumptions that are considerably different.

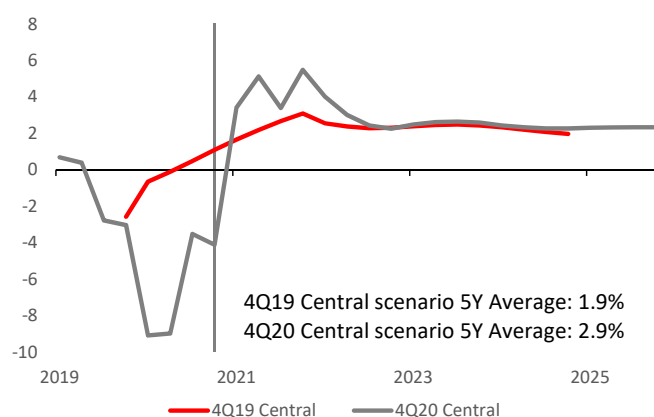
### GDP growth: Comparison

#### UK



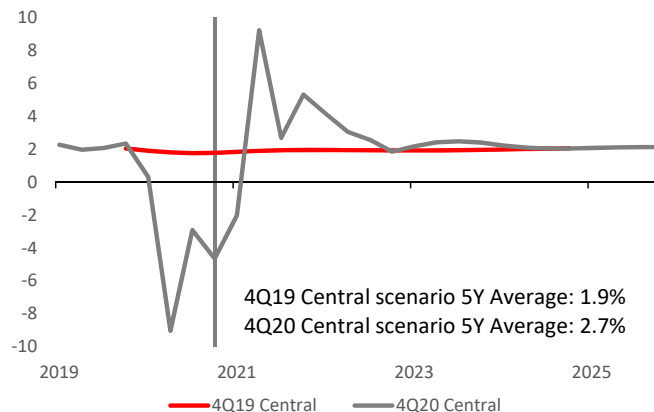
Note: Real GDP shown as year-on-year percentage change.

#### Hong Kong



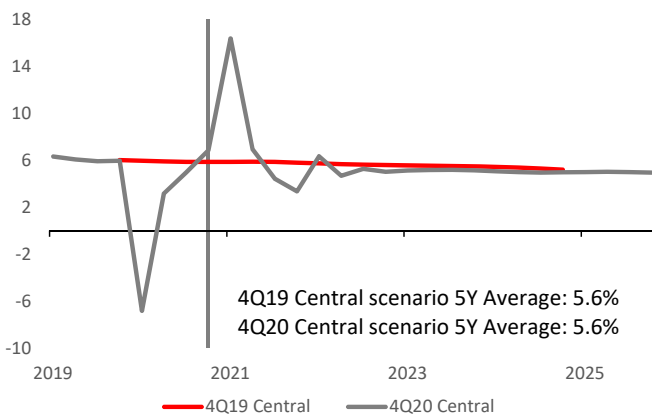
Note: Real GDP shown as year-on-year percentage change.

#### US



Note: Real GDP shown as year-on-year percentage change.

## Mainland China



Note: Real GDP shown as year-on-year percentage change.

## The consensus Upside scenario

Compared with the consensus Central scenario, the consensus Upside scenario features a faster recovery in economic activity during the first two years, before converging to long-run trends.

The scenario is consistent with a number of key upside risk themes. These include the orderly and rapid global abatement of Covid-19 via successful containment and prompt deployment of a vaccine; de-escalation of tensions between the US and China; de-escalation of political tensions in Hong Kong; continued support from fiscal and monetary policy and smooth relations between the UK and the EU, which enables the two parties to swiftly reach a comprehensive agreement on trade and services.

The following table describes key macroeconomic variables and the probabilities assigned in the consensus Upside scenario.

## Consensus Upside scenario best outcome

	UK %	US %	Hong Kong %	Mainland China %	Canada %	France %	UAE %	Mexico %
GDP growth rate	19.9 (2Q21)	11.8 (2Q21)	13.8 (4Q21)	20.5 (1Q21)	15.8 (2Q21)	19.5 (2Q21)	13.8 (4Q21)	16.8 (2Q21)
Unemployment rate	3.7 (4Q22)	3.9 (4Q22)	3.0 (3Q22)	3.9 (4Q21)	5.3 (3Q22)	7.9 (4Q22)	2.2 (4Q21)	3.6 (3Q22)
House price growth	6.9 (4Q22)	6.4 (1Q22)	4.9 (1Q22)	12.2 (1Q22)	5.2 (1Q21)	5.7 (2Q22)	18.5 (1Q22)	8.2 (3Q22)
Short-term interest rate	0.1 (2Q22)	0.4 (1Q21)	1.1 (1Q21)	3.0 (1Q21)	0.6 (1Q21)	(0.4) (1Q21)	0.9 (1Q21)	5.0 (1Q21)
<b>Probability consensus Upside</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>10</b>	<b>10</b>	<b>5</b>	<b>5</b>	<b>5</b>

Note: Extreme point in the consensus Upside is 'best outcome' in the scenario, for example the highest GDP growth and the lowest unemployment rate, in the first two years of the scenario.

## Downside scenarios

The year 2021 is expected to be a period of economic recovery, but the progression and management of the pandemic presents a key risk to global growth. A new and more contagious strain of the virus increased the transmission rate in the UK and resulted in stringent restrictions to mobility towards the end of 2020. This viral strain observed in the UK, together with aggressive strains observed in other countries including South Africa and Brazil, introduce the risk that transmission may increase significantly within the national borders of a number of countries in 2021 and also raise concerns around the efficacy of vaccines as the virus mutates. Some countries may keep significant restrictions to mobility in place for an extended period of time and at least until critical segments of the population can be inoculated. Further risks to international travel also arise.

A number of vaccines have been developed and approved for use at a rapid pace and plans to inoculate significant proportions of national populations in 2021 across many of our key markets are a clear positive for economic recovery. While we expect vaccination programmes to be successful, governments and healthcare authorities face country-specific challenges that could affect the speed and spread of vaccinations. These challenges include the logistics of inoculating a significant proportion of national populations within a limited timeframe and the public acceptance of vaccines. On a global level, supply challenges could affect the pace of roll-out and the efficacy of vaccines is yet to be determined.

Government support programmes in advanced economies in 2020 were supported by accommodative actions taken by central banks. These measures by governments and central banks have provided households and firms with significant support. An inability or unwillingness to continue with such support or the untimely withdrawal of support present a downside risk to growth.

While Covid-19 and related risks dominate the economic outlook, geopolitical risks also present a threat. These risks include:

- Continued long-term differences between the US and China, which could affect sentiment and restrict global economic activity.
- The Covid-19 outbreak reduced the incidence of protests in Hong Kong. Despite the passage of the national security law in 2020, such unrest has the potential to return as the virus abates and restrictions to mobility ease.
- The Trade and Cooperation Agreement between the UK and EU averted a disorderly UK departure from the EU, but the risk of future disagreements remains, which may hinder the ability to reach a more comprehensive agreement on trade and services.

## The consensus Downside scenario

In the consensus Downside scenario, economic recovery is considerably weaker compared with the Central scenario. GDP growth remains weak, unemployment rates stay elevated and asset and commodity prices fall before gradually recovering towards their long-run trends.

The scenario is consistent with the key downside risks articulated above. Further outbreaks of Covid-19, coupled with delays in vaccination programmes, lead to longer-lasting restrictions on economic activity in this scenario. Other global risks also increase and drive increased risk-aversion in asset markets.

## Risk

The following table describes key macroeconomic variables and the probabilities assigned in the consensus Downside scenario.

### Consensus Downside scenario worst outcome

	UK %	US %	Hong Kong %	Mainland China %	Canada %	France %	UAE %	Mexico %
GDP growth rate	(7.6) (1Q21)	(3.4) (1Q21)	(2.1) (3Q21)	(1.3) (4Q21)	(3.6) (1Q21)	(3.0) (1Q21)	(7.3) (1Q21)	(8.0) (1Q21)
Unemployment rate	9.4 (4Q21)	8.2 (2Q21)	6.4 (1Q21)	4.3 (3Q22)	9.2 (1Q21)	11.2 (1Q21)	3.0 (1Q21)	6.2 (3Q21)
House price growth	(10.8) (4Q21)	0.1 (3Q21)	(6.8) (3Q21)	0.3 (4Q21)	(1.3) (1Q22)	(3.3) (2Q21)	(19.2) (2Q21)	1.0 (4Q21)
Short-term interest rate	0.1 (1Q21)	0.3 (1Q22)	1.1 (4Q22)	2.8 (1Q21)	0.5 (1Q21)	(0.5) (1Q21)	0.8 (1Q22)	3.8 (1Q21)
<b>Probability consensus Downside</b>	<b>40</b>	<b>25</b>	<b>20</b>	<b>8</b>	<b>10</b>	<b>40</b>	<b>25</b>	<b>25</b>

Note: Extreme point in the consensus Downside is 'worst outcome' in the scenario, for example lowest GDP growth and the highest unemployment rate, in the first two years of the scenario.

### Additional Downside scenario

An additional Downside scenario that features a global recession has been created to reflect management's view of severe risks. In this scenario, infections rise in 2021 and setbacks to vaccine programmes imply that successful roll-out of vaccines only occurs towards the end of 2021 and it takes until the end of 2022 for the

pandemic to come to an end. The scenario also assumes governments and central banks are unable to significantly increase fiscal and monetary programmes, which results in abrupt corrections in labour and asset markets.

The following table describes key macroeconomic variables and the probabilities assigned in the additional Downside scenario.

### Additional Downside scenario worst outcome

	UK %	US %	Hong Kong %	Mainland China %	Canada %	France %	UAE %	Mexico %
GDP growth rate	(10.1) (1Q21)	(4.2) (1Q21)	(8.3) (4Q21)	(9.5) (4Q21)	(5.0) (1Q21)	(6.7) (1Q21)	(12.2) (1Q21)	(10.9) (1Q21)
Unemployment rate	9.8 (3Q21)	11.4 (4Q22)	6.7 (3Q21)	6.1 (3Q22)	11.3 (1Q21)	12.3 (1Q21)	3.9 (1Q21)	6.9 (4Q21)
House price growth	(14.5) (4Q21)	(9.3) (3Q21)	(21.0) (4Q21)	(19.4) (4Q21)	(10.4) (4Q21)	(7.1) (3Q21)	(22.9) (2Q21)	(2.7) (4Q21)
Short-term interest rate	0.8 (2Q21)	1.1 (1Q21)	1.3 (1Q21)	4.0 (2Q21)	0.4 (1Q21)	0.2 (2Q21)	0.5 (3Q21)	6.7 (2Q21)
<b>Probability additional Downside</b>	<b>15</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>10</b>	<b>15</b>	<b>5</b>	<b>5</b>

Note: Extreme point in the additional Downside is 'worst outcome' in the scenario, for example lowest GDP growth and the highest unemployment rate, in the first two years of the scenario.

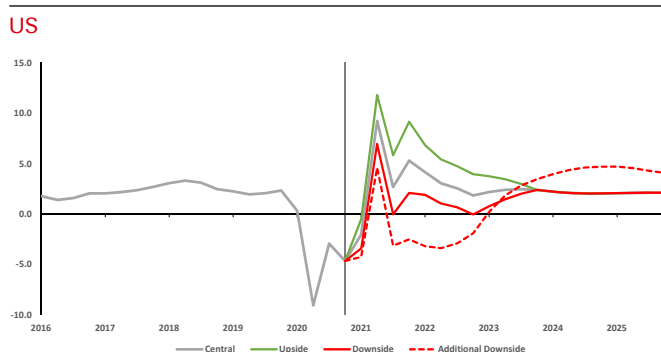
In considering economic uncertainty and assigning probabilities to scenarios, management has considered both global and country-specific factors. This has led management to assigning scenario probabilities that are tailored to its view of uncertainty in individual markets.

To inform its view, management has considered trends in the progression of the virus in individual countries, the expected reach and efficacy of vaccine roll-outs over the course of 2021, the size and effectiveness of future government support schemes and the connectivity with other countries. Management has also been guided by the actual response to the Covid-19 outbreak and by the economic experience across countries in 2020. China's visible success at containing the virus and its repeated rapid response to localised outbreaks, coupled with government support programmes and clear signs of economic recovery, have led management to conclude that the economic outlook for mainland China is the least volatile out of all our top markets. The Central scenario for mainland China has an 80% probability while a total of 10% has been assigned to the two Downside scenarios. In Hong Kong, the combination of recurrent outbreaks, a lack of details around the roll-out of a vaccination programme and the other risks outlined above, have led management to assign 25% weight to the two Downside scenarios.

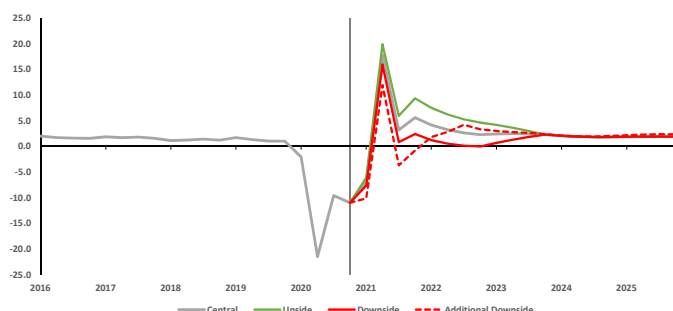
The UK and France face the greatest economic uncertainty in our key markets. In the UK, the discovery of a more infectious strain of the virus and subsequent national restrictions on activity imposed before the end of 2020 have resulted in considerable uncertainty in the economic outlook. In France, the increases in cases and hospitalisations towards the end of 2020, the difficulties experienced with the launch of a national vaccination programme and the wide range of measures taken to restrict activity similarly affect the economic outlook. Given these considerations, the Central and the consensus Downside scenario for the UK and France have each been assigned 40% probability. This reflects management's view that, as a result of elevated uncertainty in these two markets, the Central scenario cannot be viewed as the single most likely outcome. The additional Downside scenario has been assigned 15% probability to reflect the view that the balance of risks is weighted to the downside.

Uncertainty related to the continued impact of the pandemic and the ability of governments to control its spread via restrictions and vaccinations over the course of 2021 also play a prominent role in assigning scenario weights to our other markets. In addition, for the US, Canada and Mexico, connectivity across the three North American economies has been considered. In the UAE, the impact of the oil price on the economy and the ability of non-oil sectors to contribute to economic recovery have influenced the view of uncertainty. The Central scenario has been assigned between 65% and 70% weight for these four markets and, with risks perceived as being weighted to the downside, the two Downside scenarios have been given weights between 20% and 30%.

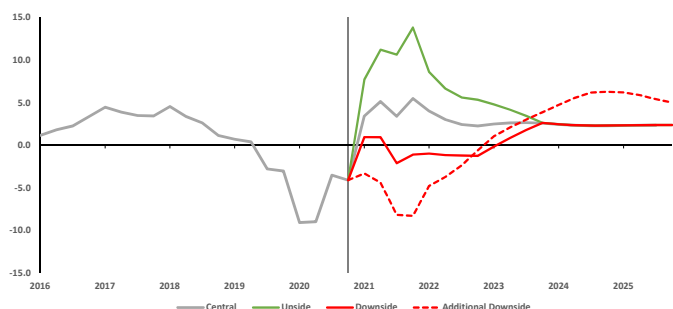
The following graphs show the historical and forecasted GDP growth rate for the various economic scenarios in our four largest markets.



## UK



## Hong Kong



## Mainland China



### Critical accounting estimates and judgements

The calculation of ECL under IFRS 9 involves significant judgements, assumptions and estimates. The level of estimation uncertainty and judgement has increased during 2020 as a result of the economic effects of the Covid-19 outbreak, including significant judgements relating to:

- the selection and weighting of economic scenarios, given rapidly changing economic conditions in an unprecedented manner, uncertainty as to the effect of government and central bank support measures designed to alleviate adverse economic impacts, and a wider distribution of economic forecasts than before the pandemic. The key judgements are the length of time over which the economic effects of the pandemic will occur, the speed and shape of recovery. The main factors include the effectiveness of pandemic containment measures, the pace of roll-out and effectiveness of vaccines, and the emergence of new variants of the virus, plus a range of geopolitical uncertainties, which together represent a very high degree of estimation uncertainty, particularly in assessing Downside scenarios;
- estimating the economic effects of those scenarios on ECL, where there is no observable historical trend that can be reflected in the models that will accurately represent the effects of the economic changes of the severity and speed brought about by the Covid-19 outbreak. Modelled assumptions and

linkages between economic factors and credit losses may underestimate or overestimate ECL in these conditions, and there is significant uncertainty in the estimation of parameters such as collateral values and loss severity; and

- the identification of customers experiencing significant increases in credit risk and credit impairment, particularly where those customers have accepted payment deferrals and other reliefs designed to address short-term liquidity issues given muted default experience to date. The use of segmentation techniques for indicators of significant increases in credit risk involves significant estimation uncertainty.

### How economic scenarios are reflected in ECL calculations

Models are used to reflect economic scenarios on ECL estimates. As described above, modelled assumptions and linkages based on historical information could not alone produce relevant information under the unprecedented conditions experienced in 2020, and it was necessary to place greater emphasis on judgemental adjustments to modelled outcomes than in previous years.

We have developed globally consistent methodologies for the application of forward economic guidance into the calculation of ECL for wholesale and retail credit risk. These standard approaches are described below, followed by the management judgemental adjustments made, including those to reflect the circumstances experienced in 2020.

For wholesale, a global methodology is used for the estimation of the term structure of probability of default ('PD') and loss given default ('LGD'). For PDs, we consider the correlation of forward economic guidance to default rates for a particular industry in a country. For LGD calculations, we consider the correlation of forward economic guidance to collateral values and realisation rates for a particular country and industry. PDs and LGDs are estimated for the entire term structure of each instrument.

For impaired loans, LGD estimates take into account independent recovery valuations provided by external consultants where available or internal forecasts corresponding to anticipated economic conditions and individual company conditions. In estimating the ECL on impaired loans that are individually considered not to be significant, we incorporate forward economic guidance proportionate to the probability-weighted outcome and the Central scenario outcome for non-stage 3 populations.

For retail, the impact of economic scenarios on PD is modelled at a portfolio level. Historical relationships between observed default rates and macroeconomic variables are integrated into IFRS 9 ECL estimates by using economic response models. The impact of these scenarios on PD is modelled over a period equal to the remaining maturity of the underlying asset or assets. The impact on LGD is modelled for mortgage portfolios by forecasting future loan-to-value ('LTV') profiles for the remaining maturity of the asset by using national level forecasts of the house price index and applying the corresponding LGD expectation.

These models are based largely on historical observations and correlations with default rates. Management judgemental adjustments are described below.

### Management judgemental adjustments

In the context of IFRS 9, management judgemental adjustments are short-term increases or decreases to the ECL at either a customer or portfolio level to account for late-breaking events, model and data limitations and deficiencies, and expert credit judgement applied following management review and challenge. In the *Annual Report and Accounts 2019*, these were 'Post-model adjustments'.

The most severe projections at 31 December 2020 of macroeconomic variables are outside the historical observations on which IFRS 9 models have been built and calibrated to operate. Moreover, the complexities of country-specific governmental support programmes, the impacts on customer behaviours and the unpredictable pathways of the pandemic have never been modelled. Consequently, HSBC's IFRS 9 models, in some cases, generate outputs that appear overly sensitive when compared

## Risk

with other economic and credit metrics. Governmental support programmes and customer payment reliefs have dislocated the correlation between economic conditions and defaults on which models are based. Management judgemental adjustments are required to help ensure that an appropriate amount of ECL impairment is recognised.

We have internal governance in place to regularly monitor management judgemental adjustments and, where possible, to reduce the reliance on these through model recalibration or redevelopment, as appropriate. During 2020 the composition of modelled ECL and management judgemental adjustments changed significantly, reflecting the path of the pandemic, containment efforts and government support measures, and this is expected to continue to be the case until economic conditions improve. Wider-ranging model changes will take time to develop and need observable loss data on which models can be developed. Models will be revisited over time once the longer-term impacts of Covid-19 are observed. Therefore, we anticipate significant management judgemental adjustments for the foreseeable future.

Management judgemental adjustments made in estimating the reported ECL at 31 December 2020 are set out in the following table. The table includes adjustments in relation to data and model limitations resulting from the pandemic, and as a result of the regular process of model development and implementation. It shows the adjustments applicable to the scenario-weighted ECL numbers. Adjustments in relation to Downside scenarios are more significant, as results are subject to greater uncertainty.

### Management judgemental adjustments to ECL<sup>1</sup>

	Retail \$bn	Wholesale \$bn	Total \$bn
Low-risk counterparties (banks, sovereigns and government entities)	–	(0.7)	(0.7)
Corporate lending adjustments	–	0.5	0.5
Retail lending PD adjustments	(0.8)		(0.8)
Retail model default suppression adjustment	1.9	–	1.9
Other retail lending adjustments	0.4	–	0.4
<b>Total</b>	<b>1.5</b>	<b>(0.2)</b>	<b>1.3</b>

<sup>1</sup> Management judgemental adjustments presented in the table reflect increases or (decreases) to ECL, respectively.

Management judgemental adjustments at 31 December 2019 were an increase to ECL of \$75m for the wholesale portfolio and \$131m for the retail portfolio. This excludes adjustments for alternative scenarios.

During 2020, management judgemental adjustments reflected the volatile economic conditions associated with the Covid-19 pandemic. The composition of modelled ECL and management judgemental adjustments changed significantly over 2020 as certain economic measures, such as GDP growth rate, passed the expected low point in a number of key markets and returned towards those reflected in modelled relationships, subject to continued uncertainty in the recovery paths of different economies.

At 31 December 2020, wholesale management judgemental adjustments were an ECL reduction of \$0.2bn (31 December 2019: \$0.1bn increase). These wholesale adjustments were lower than those made in the second and third quarters of 2020 following an improvement in macroeconomic assumptions, with models operating closer to their calibration range and following recalibration for stressed conditions.

The adjustments relating to low-credit-risk exposures are mainly to highly rated banks, sovereigns and US government-sponsored entities, where modelled credit factors did not fully reflect the underlying fundamentals of these entities or the effect of government support and economic programmes in the Covid-19 environment.

Adjustments to corporate exposures principally reflect the outcome of management judgements for high-risk and vulnerable sectors in some of our key markets, supported by credit experts' input, quantitative analyses and benchmarks. Considerations

include potential default suppression in some sectors due to government intervention and late-breaking idiosyncratic developments.

In the fourth quarter of 2020, retail management judgemental adjustments led to an ECL increase of \$1.5bn, primarily from additional ECL of \$1.9bn to reflect adjustments to the timing of default, which has been delayed by government support and customer relief measures. This was partly offset by adjustments to retail lending PD outputs, to reduce ECL of \$0.8bn for unintuitive model responses, primarily where economic forecasts were beyond the bounds of the model development period. Other retail lending adjustments of \$0.4bn led to an increase in ECL from areas such as customer relief and data limitations.

The retail model default suppression adjustment was applied as defaults remain temporarily suppressed due to government support and customer relief programmes, which have supported stabilised portfolio performance. Retail models are reliant on the assumption that as macroeconomic conditions deteriorate, defaults will crystallise. This adjustment aligns the increase in default due to changes in economic conditions to the period of time when defaults are expected to be observed. The retail model default suppression adjustment will be monitored and updated prospectively to ensure appropriate alignment with expected performance taking into consideration the levels and timing of government support and customer relief programmes.

Retail lending PD adjustments are primarily related to an adjustment made in relation to the UK. The downside unemployment forecasts were outside the historical bounds on which the model was developed resulting in unintuitive levels of PD. This adjustment reduced the sensitivity of PD to better align with the historical correlation between changes in levels of unemployment and defaults.

### Economic scenarios sensitivity analysis of ECL estimates

Management considered the sensitivity of the ECL outcome against the economic forecasts as part of the ECL governance process by recalculating the ECL under each scenario described above for selected portfolios, applying a 100% weighting to each scenario in turn. The weighting is reflected in both the determination of a significant increase in credit risk and the measurement of the resulting ECL.

The ECL calculated for the Upside and Downside scenarios should not be taken to represent the upper and lower limits of possible ECL outcomes. The impact of defaults that might occur in the future under different economic scenarios is captured by recalculating ECL for loans in stages 1 and 2 at the balance sheet date. The population of stage 3 loans (in default) at the balance sheet date is unchanged in these sensitivity calculations. Stage 3 ECL would only be sensitive to changes in forecasts of future economic conditions if the LGD of a particular portfolio was sensitive to these changes.

There is a particularly high degree of estimation uncertainty in numbers representing tail risk scenarios when assigned a 100% weighting.

For wholesale credit risk exposures, the sensitivity analysis excludes ECL and financial instruments related to defaulted obligors because the measurement of ECL is relatively more sensitive to credit factors specific to the obligor than future economic scenarios. Therefore, it is impracticable to separate the effect of macroeconomic factors in individual assessments. For retail credit risk exposures, the sensitivity analysis includes ECL for loans and advances to customers related to defaulted obligors. This is because the retail ECL for secured mortgage portfolios including loans in all stages is sensitive to macroeconomic variables.

### Wholesale and retail sensitivity

The wholesale and retail sensitivity analysis is stated inclusive of management judgemental adjustments, as appropriate to each scenario. The results tables exclude portfolios held by the insurance business and small portfolios, and as such cannot be

directly compared to personal and wholesale lending presented in other credit risk tables. Additionally in both the wholesale and retail analysis, the comparative period results for additional/

alternative Downside scenarios are also not directly comparable with the current period, because they reflect different risk profiles relative to the consensus scenarios for the period end.

## Wholesale analysis

### IFRS 9 ECL sensitivity to future economic conditions

ECL of loans and advances to customers at 31 December 2020 <sup>1</sup>	Gross carrying amount <sup>2</sup>	Reported ECL	Central scenario ECL	Upside scenario ECL	Downside scenario ECL	Additional Downside scenario ECL
	\$m	\$m	\$m	\$m	\$m	\$m
UK	430,555	2,077	1,514	1,026	2,271	3,869
US	201,263	369	314	219	472	723
Hong Kong	452,983	474	388	211	672	1,363
Mainland China	118,163	116	93	28	252	1,158
Canada	85,720	183	140	82	253	528
Mexico	25,920	246	222	177	285	437
UAE	44,777	250	241	190	330	536
France	164,899	117	109	97	131	238

### IFRS 9 ECL sensitivity to future economic conditions<sup>3</sup>

ECL of loans and advances to customers at 31 December 2019 <sup>1</sup>	Gross carrying amount <sup>2</sup>	Reported ECL	Central scenario ECL	Upside scenario ECL	Downside scenario ECL	Alternative scenarios ECL <sup>4</sup>
	\$m	\$m	\$m	\$m	\$m	\$m
UK	346,035	725	536	480	635	1,050–2,100
US	203,610	148	149	132	161	
Hong Kong	418,102	328	243	241	244	550-700
Mainland China	104,004	124	118	95	106	150
Canada	74,620	80	79	63	108	
Mexico	32,632	69	68	48	99	
UAE	42,304	97	97	89	108	
France	124,618	55	53	50	79	

1 ECL sensitivity includes off-balance sheet financial instruments that are subject to significant measurement uncertainty.

2 Includes low credit-risk financial instruments such as debt instruments at FVOCI, which have high carrying amounts but low ECL under all the above scenarios.

3 ECL sensitivities for 2019 exclude portfolios utilising less complex modelling approaches and management judgemental adjustments only included in reported ECL.

4 The UK alternative Downside ('AD') scenario 1 had an ECL impact of \$1bn with AD2 and AD3 scenarios with ECL impacts of \$1.9bn and \$2.1bn respectively. The Hong Kong AD1 and AD2 scenarios had an impact of \$0.55bn and \$0.7bn respectively.

At 31 December 2020, the most significant level of ECL sensitivity was observed in the UK, Hong Kong and mainland China. This higher sensitivity is largely driven by significant exposure in these regions and more severe impacts of the Downside scenarios relative to the Central and probability-weighted scenarios. For mainland China, the additional Downside scenario weighting of

2% reflects a scenario that is considered highly unlikely and is significantly more adverse compared with the Central scenario, resulting in a higher ECL estimate relative to the reported and Central scenarios.

## Risk

### Retail analysis

#### IFRS 9 ECL sensitivity to future economic conditions<sup>1</sup>

ECL of loans and advances to customers at 31 December 2020 <sup>2</sup>	Gross carrying amount \$m	Reported ECL \$m	Central scenario ECL \$m	Upside scenario ECL \$m	Downside scenario ECL \$m	Additional Downside scenario \$m
<b>UK</b>						
Mortgages	146,478	197	182	172	205	221
Credit cards	7,869	857	774	589	904	1,084
Other	9,164	897	795	471	1,022	1,165
<b>Mexico</b>						
Mortgages	3,896	111	101	79	136	167
Credit cards	1,113	260	255	243	269	290
Other	2,549	436	428	411	451	491
<b>Hong Kong</b>						
Mortgages	89,943	–	–	–	–	–
Credit cards	7,422	266	259	247	277	405
Other	6,020	112	105	102	115	130
<b>UAE</b>						
Mortgages	1,889	66	63	53	73	78
Credit cards	426	92	81	62	107	126
Other	683	38	37	33	41	46
<b>France</b>						
Mortgages	24,565	68	68	68	69	70
Other	1,725	88	87	85	88	91
<b>US</b>						
Mortgages	15,399	41	39	38	41	53
Credit cards	570	86	84	81	88	119
<b>Canada</b>						
Mortgages	22,454	31	30	29	31	36
Credit cards	260	9	9	8	9	9
Other	1,775	22	21	20	24	28

#### IFRS 9 ECL sensitivity to future economic conditions<sup>1</sup> (continued)

ECL of loans and advances to customers at 31 December 2019 <sup>2</sup>	Gross carrying amount \$m	Reported ECL \$m	Central scenario ECL \$m	Upside scenario ECL \$m	Downside scenario ECL \$m	Alternative scenarios ECL \$m
<b>UK</b>						
Mortgages	130,079	123	33	28	38	50-80
Credit cards	9,359	431	421	376	506	670-930
Other	10,137	382	318	282	374	490-700
<b>Mexico</b>						
Mortgages	3,385	32	31	24	41	
Credit cards	1,295	211	211	190	231	
Other	3,001	341	340	312	380	
<b>Hong Kong</b>						
Mortgages	86,448	0	0	0	0	0
Credit cards	7,795	243	201	191	201	400
Other	7,446	105	95	90	104	130
<b>UAE</b>						
Mortgages	1,983	92	92	83	91	
Credit cards	513	54	54	49	72	
Other	895	28	28	26	31	
<b>France</b>						
Mortgages	21,374	60	60	59	60	
Other	1,643	73	73	73	74	
<b>US</b>						
Mortgages	14,732	22	22	21	24	
Credit cards	738	68	68	62	74	
<b>Canada</b>						
Mortgages	19,843	15	14	13	16	
Credit cards	270	7	7	7	7	
Other	2,231	17	17	16	18	

1 ECL sensitivities exclude portfolios utilising less complex modelling approaches.

2 ECL sensitivity includes only on-balance sheet financial instruments to which IFRS 9 impairment requirements are applied.



At 31 December 2020, the most significant level of ECL sensitivity was observed in the UK, Mexico and Hong Kong.

Mortgages reflected the lowest level of ECL sensitivity across most markets as collateral values remain resilient. Hong Kong mortgages had low levels of reported ECL due to the credit quality of the portfolio, and so presented sensitivity was negligible. Credit cards and other unsecured lending are more sensitive to economic forecasts, which have deteriorated in 2020 due to the Covid-19 pandemic.

### Group ECL sensitivity results

The ECL impact of the scenarios and management judgemental adjustments are highly sensitive to movements in economic forecasts, including the efficacy of government support measures. Based upon the sensitivity tables presented above, if the Group ECL balance (excluding wholesale stage 3, which is assessed individually) was estimated solely on the basis of the Central scenario, Downside scenario or the additional Downside scenario at 31 December 2020, it would increase/(decrease) as presented in the below table.

Total Group ECL 2020	Retail <sup>1</sup>	Wholesale <sup>1</sup>
	\$bn	\$bn
Reported ECL	4.5	4.5
<b>Scenarios</b>		
100% consensus Central scenario	(0.3)	(0.9)
100% consensus Downside scenario	0.3	1.0
100% additional Downside scenario	1.3	5.9
	Retail <sup>1</sup>	Wholesale
	\$bn	\$bn
Total Group ECL 2019		
Reported ECL	2.9	2.0
<b>Scenarios</b>		
100% consensus Central scenario	(0.2)	(0.3)
100% consensus Downside scenario	0.1	—
100% alternative Downside scenario	n/a	n/a

<sup>1</sup> On the same basis as retail and wholesale sensitivity analysis.

There still remains a significant degree of uncertainty in relation to the UK economic outlook. If a 100% weight were applied to the consensus Downside and additional Downside scenario for the UK, respectively, it would result in an increase in ECL of \$0.2bn and \$1.8bn in wholesale and \$0.2bn and \$0.5bn in retail.

### Reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees

The following disclosure provides a reconciliation by stage of the Group's gross carrying/nominal amount and allowances for loans and advances to banks and customers, including loan commitments and financial guarantees. Movements are calculated on a quarterly basis and therefore fully capture stage movements between quarters. If movements were calculated on a year-to-date basis they would only reflect the opening and closing position of the financial instrument.

The transfers of financial instruments represents the impact of stage transfers upon the gross carrying/nominal amount and associated allowance for ECL.

The net remeasurement of ECL arising from stage transfers represents the increase or decrease due to these transfers, for example, moving from a 12-month (stage 1) to a lifetime (stage 2) ECL measurement basis. Net remeasurement excludes the underlying customer risk rating ('CRR')/probability of default ('PD') movements of the financial instruments transferring stage. This is captured, along with other credit quality movements in the 'changes in risk parameters – credit quality' line item.

Changes in 'New financial assets originated or purchased', 'assets derecognised (including final repayments)' and 'changes to risk parameters – further lending/repayment' represent the impact from volume movements within the Group's lending portfolio.

## Risk

### Reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees

(Audited)

	Non-credit impaired				Credit impaired				Total	
	Stage 1		Stage 2		Stage 3		POCI			
	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m
<b>At 1 Jan 2020</b>	<b>1,561,613</b>	<b>(1,464)</b>	<b>105,551</b>	<b>(2,441)</b>	<b>14,335</b>	<b>(5,121)</b>	<b>345</b>	<b>(99)</b>	<b>1,681,844</b>	<b>(9,125)</b>
Transfers of financial instruments:	(129,236)	(1,122)	116,783	1,951	12,453	(829)	–	–	–	–
– transfers from stage 1 to stage 2	(298,725)	947	298,725	(947)	–	–	–	–	–	–
– transfers from stage 2 to stage 1	172,894	(2,073)	(172,894)	2,073	–	–	–	–	–	–
– transfers to stage 3	(3,942)	30	(10,320)	986	14,262	(1,016)	–	–	–	–
– transfers from stage 3	537	(26)	1,272	(161)	(1,809)	187	–	–	–	–
Net remeasurement of ECL arising from transfer of stage	–	907	–	(1,158)	–	(750)	–	–	–	(1,001)
New financial assets originated or purchased	437,836	(653)	–	–	–	–	25	(1)	437,861	(654)
Assets derecognised (including final repayments)	(313,347)	160	(37,409)	464	(3,430)	485	(23)	2	(354,209)	1,111
Changes to risk parameters – further lending/repayment	(83,147)	157	29,092	85	(597)	248	(50)	(2)	(54,702)	488
Changes to risk parameters – credit quality	–	(408)	–	(4,374)	–	(4,378)	–	(39)	–	(9,199)
Changes to models used for ECL calculation	–	134	–	294	–	5	–	–	–	433
Assets written off	–	–	–	–	(2,946)	2,944	(30)	30	(2,976)	2,974
Credit-related modifications that resulted in derecognition	–	–	–	–	(23)	7	–	–	(23)	7
Foreign exchange	32,808	(47)	9,123	(223)	633	(163)	4	(3)	42,568	(436)
Others	(76)	5	292	(1)	(1)	8	8	(1)	223	11
<b>At 31 Dec 2020</b>	<b>1,506,451</b>	<b>(2,331)</b>	<b>223,432</b>	<b>(5,403)</b>	<b>20,424</b>	<b>(7,544)</b>	<b>279</b>	<b>(113)</b>	<b>1,750,586</b>	<b>(15,391)</b>
ECL income statement change for the period		297		(4,689)		(4,390)		(40)		(8,822)
Recoveries										326
Others										(84)
<b>Total ECL income statement change for the period</b>										<b>(8,580)</b>

	At 31 Dec 2020		12 months ended 31 Dec 2020
	Gross carrying/nominal amount \$m	Allowance for ECL \$m	ECL charge \$m
<b>As above</b>	<b>1,750,586</b>	<b>(15,391)</b>	<b>(8,580)</b>
Other financial assets measured at amortised cost	772,408	(175)	(95)
Non-trading reverse purchase agreement commitments	61,716	–	–
Performance and other guarantees not considered for IFRS 9	–	–	(94)
<b>Summary of financial instruments to which the impairment requirements in IFRS 9 are applied/Summary consolidated income statement</b>	<b>2,584,710</b>	<b>(15,566)</b>	<b>(8,769)</b>
Debt instruments measured at FVOCI	399,717	(141)	(48)
<b>Total allowance for ECL/total income statement ECL change for the period</b>	<b>n/a</b>	<b>(15,707)</b>	<b>(8,817)</b>

As shown in the previous table, the allowance for ECL for loans and advances to customers and banks and relevant loan commitments and financial guarantees increased \$6,266m during the period from \$9,125m at 31 December 2019 to \$15,391m at 31 December 2020.

This increase was primarily driven by:

- \$9,199m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stages;
- \$1,001m relating to the net remeasurement impact of stage transfers; and
- foreign exchange and other movements of \$425m.

These were partly offset by:

- \$2,974m of assets written off;
- \$945m relating to volume movements, which included the ECL allowance associated with new originations, assets derecognised and further lending/repayment;

- \$433m of changes to models used for ECL calculation; and
- \$7m of credit-related modifications that resulted in derecognitions.

The ECL charge for the period of \$8,822m presented in the previous table consisted of \$9,199m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stage and \$1,001m relating to the net remeasurement impact of stage transfers. This was partly offset by \$945m relating to underlying net book volume movement and \$433m in changes to models used for ECL calculation.

Summary views of the movement in wholesale and personal lending are presented on pages 189 and 202.

**Reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees**

(Audited)

	Non-credit impaired				Credit impaired				Total	
	Stage 1	Stage 2		Stage 3	POCI					
	Gross exposure \$m	Allowance/ provision for ECL \$m	Gross exposure \$m	Allowance/ provision for ECL \$m	Gross exposure \$m	Allowance/ provision for ECL \$m	Gross exposure \$m	Allowance/ provision for ECL \$m	Gross exposure \$m	Allowance/ provision for ECL \$m
At 1 Jan 2019	1,502,976	(1,449)	95,104	(2,278)	14,232	(5,135)	334	(194)	1,612,646	(9,056)
Transfers of financial instruments:	(36,244)	(543)	31,063	1,134	5,181	(591)	—	—	—	—
– transfers from stage 1 to stage 2	(108,434)	487	108,434	(487)	—	—	—	—	—	—
– transfers from stage 2 to stage 1	73,086	(1,044)	(73,086)	1,044	—	—	—	—	—	—
– transfers to stage 3	(1,284)	59	(5,022)	665	6,306	(724)	—	—	—	—
– transfers from stage 3	388	(45)	737	(88)	(1,125)	133	—	—	—	—
Net remeasurement of ECL arising from transfer of stage	—	669	—	(676)	—	(114)	—	—	—	(121)
New financial assets originated or purchased	504,064	(534)	—	—	—	—	135	(21)	504,199	(555)
Assets derecognised (including final repayments)	(352,961)	112	(19,909)	553	(2,712)	656	(26)	8	(375,608)	1,329
Changes to risk parameters – further lending/repayment	(72,239)	291	(2,560)	67	402	(6)	28	12	(74,369)	364
Changes to risk parameters – credit quality	—	2	—	(1,208)	—	(2,704)	—	(51)	—	(3,961)
Changes to models used for ECL calculation	—	(6)	—	4	—	14	—	—	—	12
Assets written off	—	—	—	—	(2,657)	2,657	(140)	140	(2,797)	2,797
Credit-related modifications that resulted in derecognition	—	—	—	—	(268)	125	—	—	(268)	125
Foreign exchange	16,838	(9)	1,201	(40)	160	(31)	1	1	18,200	(79)
Others	(821)	3	652	3	(3)	8	13	6	(159)	20
At 31 Dec 2019	1,561,613	(1,464)	105,551	(2,441)	14,335	(5,121)	345	(99)	1,681,844	(9,125)
ECL income statement change for the period		534		(1,260)		(2,154)		(52)		(2,932)
Recoveries										361
Others										(20)
Total ECL income statement change for the period										(2,591)

	At 31 Dec 2019		12 months ended 31 Dec 2019
	Gross carrying/ nominal amount \$m	Allowance for ECL \$m	ECL charge \$m
As above	1,681,844	(9,125)	(2,591)
Other financial assets measured at amortised cost	615,179	(118)	(26)
Non-trading reverse purchase agreement commitments	53,093	—	—
Performance and other guarantees not considered for IFRS 9	—	—	(34)
Summary of financial instruments to which the impairment requirements in IFRS 9 are applied/ Summary consolidated income statement	2,350,116	(9,243)	(2,651)
Debt instruments measured at FVOCI	355,664	(166)	(105)
Total allowance for ECL/total income statement ECL change for the period	n/a	(9,409)	(2,756)

## Risk

### Credit quality

#### Credit quality of financial instruments

(Audited)

We assess the credit quality of all financial instruments that are subject to credit risk. The credit quality of financial instruments is a point-in-time assessment of PD, whereas stages 1 and 2 are determined based on relative deterioration of credit quality since initial recognition. Accordingly, for non-credit-impaired financial

instruments, there is no direct relationship between the credit quality assessment and stages 1 and 2, although typically the lower credit quality bands exhibit a higher proportion in stage 2.

The five credit quality classifications each encompass a range of granular internal credit rating grades assigned to wholesale and personal lending businesses and the external ratings attributed by external agencies to debt securities, as shown in the table on page 163.

#### Distribution of financial instruments by credit quality at 31 December 2020

(Audited)

	Gross carrying/notional amount					Total	Allowance for ECL/other credit provisions	Net
	Strong	Good	Satisfactory	Sub-standard	Credit impaired			
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>In-scope for IFRS 9</b>								
Loans and advances to customers held at amortised cost	506,231	233,320	256,584	36,970	19,372	1,052,477	(14,490)	1,037,987
– personal	357,821	53,892	38,520	4,965	5,611	460,809	(4,731)	456,078
– corporate and commercial	120,971	158,601	203,560	30,718	13,238	527,088	(9,494)	517,594
– non-bank financial institutions	27,439	20,827	14,504	1,287	523	64,580	(265)	64,315
Loans and advances to banks held at amortised cost	71,318	5,496	3,568	1,276	–	81,658	(42)	81,616
Cash and balances at central banks	302,028	1,388	1,070	–	–	304,486	(5)	304,481
Items in the course of collection from other banks	4,079	9	6	–	–	4,094	–	4,094
Hong Kong Government certificates of indebtedness	40,420	–	–	–	–	40,420	–	40,420
Reverse repurchase agreements – non-trading	177,457	40,461	12,398	312	–	230,628	–	230,628
Financial investments	77,361	9,781	1,537	1	39	88,719	(80)	88,639
Prepayments, accrued income and other assets	81,886	10,129	11,570	298	178	104,061	(90)	103,971
– endorsements and acceptances	1,458	4,355	4,245	229	20	10,307	(30)	10,277
– accrued income and other	80,428	5,774	7,325	69	158	93,754	(60)	93,694
Debt instruments measured at fair value through other comprehensive income <sup>1</sup>	367,685	12,678	10,409	825	306	391,903	(141)	391,762
<b>Out-of-scope for IFRS 9</b>								
Trading assets	117,972	14,694	20,809	829	43	154,347	–	154,347
Other financial assets designated and otherwise mandatorily measured at fair value through profit or loss	6,440	2,378	1,827	109	–	10,754	–	10,754
Derivatives	243,005	54,581	8,709	1,359	72	307,726	–	307,726
<b>Total gross carrying amount on balance sheet</b>	<b>1,995,882</b>	<b>384,915</b>	<b>328,487</b>	<b>41,979</b>	<b>20,010</b>	<b>2,771,273</b>	<b>(14,848)</b>	<b>2,756,425</b>
Percentage of total credit quality	72.0%	13.9%	11.9%	1.5%	0.7%	100%		
Loan and other credit-related commitments	400,911	157,339	90,784	9,668	1,081	659,783	(734)	659,049
Financial guarantees	6,356	5,194	5,317	1,247	270	18,384	(125)	18,259
<b>In-scope: Irrevocable loan commitments and financial guarantees</b>	<b>407,267</b>	<b>162,533</b>	<b>96,101</b>	<b>10,915</b>	<b>1,351</b>	<b>678,167</b>	<b>(859)</b>	<b>677,308</b>
Loan and other credit-related commitments	59,392	62,664	59,666	2,837	430	184,989	–	184,989
Performance and other guarantees	26,082	27,909	21,256	2,112	755	78,114	(226)	77,888
<b>Out-of-scope: Revocable loan commitments and non-financial guarantees</b>	<b>85,474</b>	<b>90,573</b>	<b>80,922</b>	<b>4,949</b>	<b>1,185</b>	<b>263,103</b>	<b>(226)</b>	<b>262,877</b>

<sup>1</sup> For the purposes of this disclosure, gross carrying value is defined as the amortised cost of a financial asset before adjusting for any loss allowance. As such, the gross carrying value of debt instruments at FVOCI as presented above will not reconcile to the balance sheet as it excludes fair value gains and losses.

**Distribution of financial instruments by credit quality at 31 December 2019 (continued)**

(Audited)

	Gross carrying/notional amount						Allowance for ECL/other credit provisions	Net
	Strong	Good	Satisfactory	Sub-standard	Credit impaired	Total		
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>In-scope for IFRS 9</b>								
Loans and advances to customers held at amortised cost	524,889	258,402	228,485	20,007	13,692	1,045,475	(8,732)	1,036,743
– personal	354,461	45,037	27,636	2,286	4,851	434,271	(3,134)	431,137
– corporate and commercial	138,126	190,470	186,383	16,891	8,629	540,499	(5,438)	535,061
– non-bank financial institutions	32,302	22,895	14,466	830	212	70,705	(160)	70,545
Loans and advances to banks held at amortised cost	60,636	5,329	1,859	1,395	–	69,219	(16)	69,203
Cash and balances at central banks	151,788	1,398	915	–	–	154,101	(2)	154,099
Items in the course of collection from other banks	4,935	18	3	–	–	4,956	–	4,956
Hong Kong Government certificates of indebtedness	38,380	–	–	–	–	38,380	–	38,380
Reverse repurchase agreements – non-trading	193,157	37,947	9,621	137	–	240,862	–	240,862
Financial investments	78,318	6,503	906	61	–	85,788	(53)	85,735
Prepayments, accrued income and other assets	70,675	8,638	11,321	306	152	91,092	(63)	91,029
– endorsements and acceptances	1,133	4,651	4,196	230	4	10,214	(16)	10,198
– accrued income and other	69,542	3,987	7,125	76	148	80,878	(47)	80,831
Debt instruments measured at fair value through other comprehensive income <sup>1</sup>	333,158	10,966	7,222	544	1	351,891	(166)	351,725
<b>Out-of-scope for IFRS 9</b>								
Trading assets	135,059	15,240	22,964	2,181	–	175,444	–	175,444
Other financial assets designated and otherwise mandatorily measured at fair value through profit or loss	4,655	1,391	5,584	139	–	11,769	–	11,769
Derivatives	187,636	42,642	11,894	821	2	242,995	–	242,995
Total gross carrying amount on balance sheet	1,783,286	388,474	300,774	25,591	13,847	2,511,972	(9,032)	2,502,940
Percentage of total credit quality	70.9%	15.5%	12.0%	1.0%	0.6%	100%		
Loan and other credit-related commitments	369,424	146,988	77,499	5,338	780	600,029	(329)	599,700
Financial guarantees	7,441	6,033	5,539	1,011	190	20,214	(48)	20,166
In-scope: Irrevocable loan commitments and financial guarantees	376,865	153,021	83,038	6,349	970	620,243	(377)	619,866
Loan and other credit-related commitments	66,148	69,890	58,754	2,605	182	197,579	–	197,579
Performance and other guarantees	30,099	23,335	20,062	2,057	380	75,933	(132)	75,801
Out-of-scope: Revocable loan commitments and non-financial guarantees	96,247	93,225	78,816	4,662	562	273,512	(132)	273,380

<sup>1</sup> For the purposes of this disclosure, gross carrying value is defined as the amortised cost of a financial asset before adjusting for any loss allowance. As such, the gross carrying value of debt instruments at FVOCI as presented above will not reconcile to the balance sheet as it excludes fair value gains and losses.

## Risk

### Distribution of financial instruments to which the impairment requirements in IFRS 9 are applied, by credit quality and stage allocation

(Audited)

Footnotes	Gross carrying/notional amount						Allowance for ECL	Net
	Strong \$m	Good \$m	Satisfactory \$m	Sub- standard \$m	Credit impaired \$m	Total \$m		
Loans and advances to customers at amortised cost	506,231	233,320	256,584	36,970	19,372	1,052,477	(14,490)	1,037,987
– stage 1	499,836	199,138	165,507	5,439	–	869,920	(1,974)	867,946
– stage 2	6,395	34,182	91,077	31,531	–	163,185	(4,965)	158,220
– stage 3	–	–	–	–	19,095	19,095	(7,439)	11,656
– POCI	–	–	–	–	277	277	(112)	165
Loans and advances to banks at amortised cost	71,318	5,496	3,568	1,276	–	81,658	(42)	81,616
– stage 1	71,126	5,098	3,357	73	–	79,654	(33)	79,621
– stage 2	192	398	211	1,203	–	2,004	(9)	1,995
– stage 3	–	–	–	–	–	–	–	–
– POCI	–	–	–	–	–	–	–	–
Other financial assets measured at amortised cost	683,231	61,768	26,581	611	217	772,408	(175)	772,233
– stage 1	682,412	61,218	24,532	54	–	768,216	(80)	768,136
– stage 2	819	550	2,049	557	–	3,975	(44)	3,931
– stage 3	–	–	–	–	177	177	(42)	135
– POCI	–	–	–	–	40	40	(9)	31
Loan and other credit-related commitments	400,911	157,339	90,784	9,668	1,081	659,783	(734)	659,049
– stage 1	396,028	143,600	63,592	1,265	–	604,485	(290)	604,195
– stage 2	4,883	13,739	27,192	8,403	–	54,217	(365)	53,852
– stage 3	–	–	–	–	1,080	1,080	(78)	1,002
– POCI	–	–	–	–	1	1	(1)	–
Financial guarantees	6,356	5,194	5,317	1,247	270	18,384	(125)	18,259
– stage 1	6,286	4,431	3,163	210	–	14,090	(37)	14,053
– stage 2	70	763	2,154	1,037	–	4,024	(62)	3,962
– stage 3	–	–	–	–	269	269	(26)	243
– POCI	–	–	–	–	1	1	–	1
<b>At 31 Dec 2020</b>	<b>1,668,047</b>	<b>463,117</b>	<b>382,834</b>	<b>49,772</b>	<b>20,940</b>	<b>2,584,710</b>	<b>(15,566)</b>	<b>2,569,144</b>
Debt instruments at FVOCI								
– stage 1	367,542	12,585	10,066	–	–	390,193	(88)	390,105
– stage 2	143	93	343	825	–	1,404	(20)	1,384
– stage 3	–	–	–	–	257	257	(23)	234
– POCI	–	–	–	–	49	49	(10)	39
<b>At 31 Dec 2020</b>	<b>367,685</b>	<b>12,678</b>	<b>10,409</b>	<b>825</b>	<b>306</b>	<b>391,903</b>	<b>(141)</b>	<b>391,762</b>

<sup>1</sup> For the purposes of this disclosure, gross carrying value is defined as the amortised cost of a financial asset before adjusting for any loss allowance. As such, the gross carrying value of debt instruments at FVOCI as presented above will not reconcile to the balance sheet as it excludes fair value gains and losses.

**Distribution of financial instruments to which the impairment requirements in IFRS 9 are applied, by credit quality and stage allocation (continued)**

(Audited)

	Gross carrying/notional amount						Allowance for ECL	Net	
	Footnotes	Strong \$m	Good \$m	Satisfactory \$m	Sub-standard \$m	Credit impaired \$m			Total \$m
Loans and advances to customers at amortised cost		524,889	258,402	228,485	20,007	13,692	1,045,475	(8,732)	1,036,743
– stage 1		523,092	242,631	181,056	4,804	–	951,583	(1,297)	950,286
– stage 2		1,797	15,771	47,429	15,185	–	80,182	(2,284)	77,898
– stage 3		–	–	–	–	13,378	13,378	(5,052)	8,326
– POCI		–	–	–	18	314	332	(99)	233
Loans and advances to banks at amortised cost		60,636	5,329	1,859	1,395	–	69,219	(16)	69,203
– stage 1		60,548	5,312	1,797	112	–	67,769	(14)	67,755
– stage 2		88	17	62	1,283	–	1,450	(2)	1,448
– stage 3		–	–	–	–	–	–	–	–
– POCI		–	–	–	–	–	–	–	–
Other financial assets measured at amortised cost		537,253	54,505	22,766	503	152	615,179	(118)	615,061
– stage 1		536,942	54,058	21,921	279	–	613,200	(38)	613,162
– stage 2		311	447	845	224	–	1,827	(38)	1,789
– stage 3		–	–	–	–	151	151	(42)	109
– POCI		–	–	–	–	1	1	–	1
Loan and other credit-related commitments		369,424	146,988	77,499	5,338	780	600,029	(329)	599,700
– stage 1		368,711	141,322	66,283	1,315	–	577,631	(137)	577,494
– stage 2		713	5,666	11,216	4,023	–	21,618	(133)	21,485
– stage 3		–	–	–	–	771	771	(59)	712
– POCI		–	–	–	–	9	9	–	9
Financial guarantees		7,441	6,033	5,539	1,011	190	20,214	(48)	20,166
– stage 1		7,400	5,746	4,200	338	–	17,684	(16)	17,668
– stage 2		41	287	1,339	673	–	2,340	(22)	2,318
– stage 3		–	–	–	–	186	186	(10)	176
– POCI		–	–	–	–	4	4	–	4
At 31 Dec 2019		1,499,643	471,257	336,148	28,254	14,814	2,350,116	(9,243)	2,340,873
Debt instruments at FVOCI	1								
– stage 1		333,072	10,941	6,902	–	–	350,915	(39)	350,876
– stage 2		86	25	320	544	–	975	(127)	848
– stage 3		–	–	–	–	–	–	–	–
– POCI		–	–	–	–	1	1	–	1
At 31 Dec 2019		333,158	10,966	7,222	544	1	351,891	(166)	351,725

1 For the purposes of this disclosure, gross carrying value is defined as the amortised cost of a financial asset before adjusting for any loss allowance. As such, the gross carrying value of debt instruments at FVOCI as presented above will not reconcile to the balance sheet as it excludes fair value gains and losses.

**Credit-impaired loans**

(Audited)

We determine that a financial instrument is credit impaired and in stage 3 by considering relevant objective evidence, primarily whether:

- contractual payments of either principal or interest are past due for more than 90 days;
- there are other indications that the borrower is unlikely to pay, such as when a concession has been granted to the borrower for economic or legal reasons relating to the borrower's financial condition; and
- the loan is otherwise considered to be in default. If such unlikelihood to pay is not identified at an earlier stage, it is deemed to occur when an exposure is 90 days past due, even where regulatory rules permit default to be defined based on 180 days past due. Therefore, the definitions of credit impaired and default are aligned as far as possible so that stage 3 represents all loans that are considered defaulted or otherwise credit impaired.

**Renegotiated loans and forbearance**

The following table shows the gross carrying amounts of the Group's holdings of renegotiated loans and advances to customers by industry sector and by stages. Mandatory and general offer loan modifications that are not borrower-specific, for example market-wide customer relief programmes, have not been classified as renegotiated loans. For details on customer relief schemes see page 184.

*A summary of our current policies and practices for renegotiated loans and forbearance is set out in 'Credit risk management' on page 161.*

## Risk

### Renegotiated loans and advances to customers at amortised cost by stage allocation

	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	POCI \$m	Total \$m
<b>Gross carrying amount</b>					
Personal	–	–	2,429	–	2,429
– first lien residential mortgages	–	–	1,692	–	1,692
– other personal lending	–	–	737	–	737
Wholesale	328	989	3,929	239	5,485
– corporate and commercial	324	972	3,903	239	5,438
– non-bank financial institutions	4	17	26	–	47
<b>At 31 Dec 2020</b>	<b>328</b>	<b>989</b>	<b>6,358</b>	<b>239</b>	<b>7,914</b>
<b>Allowance for ECL</b>					
Personal	–	–	(452)	–	(452)
– first lien residential mortgages	–	–	(152)	–	(152)
– other personal lending	–	–	(300)	–	(300)
Wholesale	(10)	(36)	(1,276)	(86)	(1,408)
– corporate and commercial	(10)	(36)	(1,263)	(86)	(1,395)
– non-bank financial institutions	–	–	(13)	–	(13)
<b>At 31 Dec 2020</b>	<b>(10)</b>	<b>(36)</b>	<b>(1,728)</b>	<b>(86)</b>	<b>(1,860)</b>
Gross carrying amount					
Personal	–	–	2,207	–	2,207
– first lien residential mortgages	–	–	1,558	–	1,558
– other personal lending	–	–	649	–	649
Wholesale	1,168	1,179	3,353	310	6,010
– corporate and commercial	1,168	1,179	3,290	310	5,947
– non-bank financial institutions	–	–	63	–	63
<b>At 31 Dec 2019</b>	<b>1,168</b>	<b>1,179</b>	<b>5,560</b>	<b>310</b>	<b>8,217</b>
Allowance for ECL					
Personal	–	–	(397)	–	(397)
– first lien residential mortgages	–	–	(181)	–	(181)
– other personal lending	–	–	(216)	–	(216)
Wholesale	(13)	(55)	(1,349)	(86)	(1,503)
– corporate and commercial	(13)	(55)	(1,316)	(86)	(1,470)
– non-bank financial institutions	–	–	(33)	–	(33)
<b>At 31 Dec 2019</b>	<b>(13)</b>	<b>(55)</b>	<b>(1,746)</b>	<b>(86)</b>	<b>(1,900)</b>

### Renegotiated loans and advances to customers by geographical region

	Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Total \$m	Of which:	
							UK \$m	Hong Kong \$m
<b>At 31 Dec 2020</b>	<b>4,274</b>	<b>745</b>	<b>1,279</b>	<b>1,349</b>	<b>267</b>	<b>7,914</b>	<b>3,483</b>	<b>220</b>
At 31 Dec 2019	4,182	838	1,805	1,185	207	8,217	3,438	277

### Customer relief programmes

In response to the Covid-19 outbreak, governments and regulators around the world have introduced a number of support measures for both personal and wholesale customers in market-wide schemes. The following table presents the number of personal accounts/wholesale customers and the associated drawn loan values of customers under these schemes and HSBC-specific measures for major markets at 31 December 2020. In relation to personal lending, the majority of relief measures, including payment holidays, relate to existing lending, while in wholesale lending the relief measures comprise payment holidays, refinancing of existing facilities and new lending under government-backed schemes.

At 31 December 2020, the gross carrying value of loans to personal customers under relief was \$5.5bn (30 June 2020: \$26.3bn). This comprised \$4.7bn in relation to mortgages (30 June 2020: \$21.1bn) and \$0.9bn in relation to other personal lending (30 June 2020: \$5.2bn). The decrease in personal customer relief during the second half of the year was driven by customers exiting relief measures. The gross carrying value of loans to wholesale customers under relief was \$35.3bn (30 June 2020: \$51.8bn). We continue to monitor the recoverability of loans granted under customer relief programmes, including loans to a small number of customers that were subsequently found to be ineligible for such relief. The ongoing performance of such loans remains an area of uncertainty at 31 December 2020.



## Personal lending

Extant at 31 December 2020		UK	Hong Kong	US	Other major markets <sup>1,2,3</sup>	Total
<b>Market-wide schemes</b>						
Number of accounts in mortgage customer relief	000s	6	–	–	5	11
Drawn loan value of accounts in mortgage customer relief	\$m	1,412	–	–	908	2,320
Number of accounts in other personal lending customer relief	000s	15	–	–	28	43
Drawn loan value of accounts in other personal lending customer relief	\$m	140	–	–	386	526
<b>HSBC-specific measures</b>						
Number of accounts in mortgage customer relief	000s	–	3	2	3	8
Drawn loan value of accounts in mortgage customer relief	\$m	7	1,124	864	360	2,355
Number of accounts in other personal lending customer relief	000s	–	1	6	18	25
Drawn loan value of accounts in other personal lending customer relief	\$m	–	75	67	182	324
<b>Total personal lending to major markets under market-wide schemes and HSBC-specific measures</b>						
Number of accounts in mortgage customer relief	000s	6	3	2	8	19
Drawn loan value of accounts in mortgage customer relief	\$m	1,419	1,124	864	1,268	4,675
Number of accounts in other personal lending customer relief	000s	15	1	6	46	68
Drawn loan value of accounts in other personal lending customer relief	\$m	140	75	67	568	850
<b>Market-wide schemes and HSBC-specific measures – mortgage relief as a proportion of total mortgages</b>	%	0.9	1.2	4.7	1.6	1.4
<b>Market-wide schemes and HSBC-specific measures – other personal lending relief as a proportion of total other personal lending loans and advances</b>	%	0.7	0.2	3.1	1.1	0.8

## Wholesale lending

Extant at 31 December 2020		UK	Hong Kong	US	Other major markets <sup>1</sup>	Total
<b>Market-wide schemes</b>						
Number of customers under market-wide measures	000s	226	3	3	5	237
Drawn loan value of customers under market-wide schemes	\$m	13,517	10,622	1,043	6,017	31,199
<b>HSBC-specific schemes</b>						
Number of customers under HSBC-specific measures	000s	–	–	–	–	–
Drawn loan value of customers under HSBC-specific measures	\$m	349	–	924	2,869	4,142
<b>Total wholesale lending to major markets under market-wide schemes and HSBC-specific measures</b>						
Number of customers	000s	226	3	3	5	237
<b>Drawn loan value</b>	\$m	13,866	10,622	1,967	8,886	35,341
<b>Market-wide schemes and HSBC-specific measures as a proportion of total wholesale lending loans and advances</b>	%	9.6	5.9	5.2	4.6	6.4

1 Other major markets include Australia, Canada, mainland China, Egypt, France, Germany, India, Indonesia, Malaysia, Mexico, Singapore, Switzerland, Taiwan and UAE.

2 In Malaysia, personal lending customers are granted an automatic moratorium programme for all eligible retail customers. At 31 December 2020, the number of accounts under this moratorium was 26,000 with an associated drawn balance of \$452m.

3 In Mexico, there were 16,000 personal lending accounts under customer relief with an associated drawn balance of \$233m.

The initial granting of customer relief does not automatically trigger a migration to stage 2 or 3. However, information provided by payment deferrals is considered in the context of other reasonable and supportable information. This forms part of the overall assessment for whether there has been a significant increase in credit risk and credit impairment to identify loans for which lifetime ECL is appropriate. An extension in payment deferral does not automatically result in a migration to stage 2 or stage 3. The key accounting and credit risk judgement to ascertain whether a significant increase in credit risk has occurred is whether the economic effects of the Covid-19 outbreak on the customer are likely to be temporary over the lifetime of the loan, and whether they indicate that a concession is being made in respect of financial difficulty that would be consistent with stage 3.

### Market-wide schemes

The following narrative provides further details on the major government and regulatory schemes offered in the UK, Hong Kong and the US.

### UK personal lending

#### Mortgages

Customer relief granted on UK mortgages primarily consists of payment holidays or partial payment deferrals.

Relief is offered for an initial period of three months and may be extended for a further three months in certain circumstances. No payment is required from the customer during this period (though

with a partial payment deferral the customer has expressed a desire to make a contribution) and interest continues to be charged as usual. The customer's arrears status is not worsened from utilisation of these schemes.

#### Other personal lending payment holidays

Customer relief is granted for an initial period of three months and may be extended for a further three months. The maximum relief value is up to the due payment amount during the period.

### UK wholesale lending

The primary relief granted under government schemes consists of the Bounce Back Loan Scheme, Coronavirus Business Interruption Loan Scheme and Coronavirus Large Business Interruption Loan Scheme. Since their initial launch, the application deadline for these schemes has been extended until 31 March 2021. The key features of these schemes are as follows:

- The Bounce Back Loan Scheme provides small and medium-sized enterprises ('SME') with loans of up to £50,000 for a maximum period of six years. Interest is charged at 2.5% and the government pays the fees and interest for the first 12 months. No capital repayment is required by the customer for the first 12 months of the scheme. A government guarantee of 100% is provided under the scheme. Before their first payment is due customers can extend the term of the loan to 10 years, move to interest-only repayments for a period of six months (customers can use this option up to three times) and/or pause repayments for a period of six months (customers can use this option once).

## Risk

- The Coronavirus Business Interruption Loan Scheme provides SMEs that have a turnover of less than £45m with loans of up to £5m for a maximum period of six years. Interest is charged between 3.49% and 3.99% above the UK base rate and no capital repayment is required by the customer for the first 12 months of the scheme. A government guarantee of up to 80% is provided under the scheme.
- The Coronavirus Large Business Interruption Loan Scheme provides medium and large-sized enterprises that have a turnover in excess of £45m with loans of up to £200m. The interest rate and tenor of the loan are negotiated on commercial terms. A government guarantee of 80% is provided under the scheme.

### Hong Kong wholesale lending

#### *Pre-approved Principal Payment Holiday Scheme for Corporate Customers*

The above scheme enables eligible customers to apply for a payment holiday of six months (or 90 days for trade finance) with no change to the existing interest rate charge. On 2 September 2020, the Hong Kong Monetary Authority announced that this scheme has been extended for a further six months to April 2021.

### US wholesale lending

#### *Paycheck Protection Program*

The CARES Act created the Paycheck Protection Program ('PPP') loan guarantee programme to provide small businesses with support to cover payroll and certain other expenses. Loans made under the PPP are fully guaranteed by the Small Business Administration, whose guarantee is backed by the full faith and credit of the US. PPP-covered loans also afford customers forgiveness up to the principal amount of the PPP-covered loan, plus accrued interest, if the loan proceeds are used to retain workers and maintain payroll or to make certain mortgage interest, lease and utility payments, and certain other criteria are satisfied. The Small Business Administration will reimburse PPP lenders for any amount of a PPP-covered loan that is forgiven, and PPP lenders will not be liable for any representations made by PPP borrowers in connection with their requests for loan forgiveness. Lenders receive pre-determined fees for processing and servicing PPP loans.

### HSBC-specific measures

#### UK wholesale lending

HSBC is offering capital repayment holidays to CMB customers. Relief is offered on a preferred term of six months. However, some are granted for three months with the option of an extension. Interest continues to be paid as usual.

#### Hong Kong personal lending

##### *Mortgages*

Customer relief granted on Hong Kong mortgages consists of deferred principal repayment of up to 12 months. This relief programme is available to existing HSBC mortgage loan customers who have a good repayment record during the past six months.

#### US total personal lending

Customer relief granted on US mortgages and other personal lending consists of deferrals of up to 12 months and up to nine months respectively.

## Wholesale lending

This section provides further details on the regions, countries, territories and products comprising wholesale loans and advances to customers and banks. Product granularity is also provided by stage with geographical data presented for loans and advances to customers, banks, other credit commitments, financial guarantees and similar contracts. Additionally, this section provides a reconciliation of the opening 1 January 2020 to 31 December 2020 closing gross carrying/nominal amounts and the associated allowance for ECL.

At 31 December 2020, wholesale lending for loans and advances to banks and customers of \$673bn decreased by \$7.1bn since 31 December 2019. This included favourable foreign exchange movements of \$14.9bn. Excluding foreign exchange movements, the total wholesale lending decrease was driven by a \$25.3bn decline in corporate and commercial balances and a \$8bn decline in balances from non-bank financial institutions. This was partly offset by a \$11.2bn increase in loans and advances to banks.

The primary driver of the decline in corporate and commercial balances was \$14.5bn in Asia, notably \$7.1bn in Hong Kong, \$2.8bn in Australia and \$1.5bn in Singapore. Balances in Europe declined \$4.3bn, notably \$2.4bn in Germany and \$2bn in the UK, partly offset by growth of \$1.8bn in France.

In North America and Latin America, balances declined \$6.8bn and \$1.3bn respectively, while they grew in MENA by \$1.6bn.

Loan commitments and financial guarantees grew \$45bn since 31 December 2019 to \$441bn at 31 December 2020, including a \$8.6bn increase related to unsettled reverse repurchase agreements. This also included favourable foreign exchange movements of \$15.4bn.

The allowance for ECL attributable to wholesale loans and advances to banks and customers increased \$4.2bn to \$9.8bn at 31 December 2020 from \$5.6bn at 31 December 2019. This included adverse foreign exchange movements of \$0.1bn.

Excluding foreign exchange movements, the total increase in the wholesale ECL allowance for loans and advances to customers and banks was driven by a \$4bn rise in corporate and commercial balances. The primary driver of this increase in corporate and commercial allowance for ECL was \$1.5bn in Europe, notably \$1.3bn in the UK. There was an increase of \$1.3bn in Asia, notably \$0.7bn in Singapore and \$0.4bn in Hong Kong. Additionally, there were increases of \$0.5bn, \$0.4bn and \$0.4bn in MENA, North America and Latin America, respectively.

The allowance for ECL attributable to loan commitments and financial guarantees of \$0.8bn at 31 December 2020 increased from \$0.4bn at 31 December 2019.

Total wholesale lending for loans and advances to banks and customers by stage distribution

	Gross carrying amount					Allowance for ECL				
	Stage 1	Stage 2	Stage 3	POCI	Total	Stage 1	Stage 2	Stage 3	POCI	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Corporate and commercial	387,563	126,287	12,961	277	527,088	(1,101)	(2,444)	(5,837)	(112)	(9,494)
– agriculture, forestry and fishing	6,087	1,026	331	1	7,445	(12)	(45)	(149)	(1)	(207)
– mining and quarrying	7,429	3,705	797	16	11,947	(33)	(112)	(209)	(11)	(365)
– manufacturing	68,179	23,564	2,076	87	93,906	(201)	(442)	(905)	(40)	(1,588)
– electricity, gas, steam and air-conditioning supply	14,240	1,907	53	–	16,200	(25)	(40)	(8)	–	(73)
– water supply, sewerage, waste management and remediation	2,874	253	47	–	3,174	(8)	(7)	(22)	–	(37)
– construction	9,368	4,455	773	4	14,600	(42)	(118)	(426)	(4)	(590)
– wholesale and retail trade, repair of motor vehicles and motorcycles	65,937	21,518	3,196	12	90,663	(174)	(326)	(2,029)	(3)	(2,532)
– transportation and storage	19,510	9,143	769	11	29,433	(90)	(163)	(240)	–	(493)
– accommodation and food	10,616	14,918	536	1	26,071	(76)	(285)	(129)	(1)	(491)
– publishing, audiovisual and broadcasting	17,019	2,796	131	33	19,979	(45)	(85)	(39)	(20)	(189)
– real estate	102,933	22,186	1,907	1	127,027	(169)	(260)	(738)	–	(1,167)
– professional, scientific and technical activities	17,162	6,379	498	33	24,072	(56)	(149)	(185)	(8)	(398)
– administrative and support services	17,085	8,361	907	70	26,423	(66)	(153)	(291)	(24)	(534)
– public administration and defence, compulsory social security	1,530	475	3	–	2,008	(2)	(11)	(1)	–	(14)
– education	1,402	691	29	–	2,122	(12)	(20)	(9)	–	(41)
– health and care	4,049	1,192	261	8	5,510	(21)	(45)	(120)	–	(186)
– arts, entertainment and recreation	1,631	1,570	236	–	3,437	(9)	(62)	(87)	–	(158)
– other services	11,380	1,320	410	–	13,110	(54)	(105)	(249)	–	(408)
– activities of households	660	142	–	–	802	–	(1)	–	–	(1)
– extra-territorial organisations and bodies activities	10	–	–	–	10	–	–	–	–	–
– government	7,866	671	1	–	8,538	(6)	(2)	(1)	–	(9)
– asset-backed securities	596	15	–	–	611	–	(13)	–	–	(13)
Non-bank financial institutions	52,223	11,834	523	–	64,580	(46)	(119)	(100)	–	(265)
Loans and advances to banks	79,654	2,004	–	–	81,658	(33)	(9)	–	–	(42)
<b>At 31 Dec 2020</b>	<b>519,440</b>	<b>140,125</b>	<b>13,484</b>	<b>277</b>	<b>673,326</b>	<b>(1,180)</b>	<b>(2,572)</b>	<b>(5,937)</b>	<b>(112)</b>	<b>(9,801)</b>
<b>By geography</b>										
Europe	156,474	51,708	6,531	109	214,822	(589)	(1,400)	(2,097)	(51)	(4,137)
– of which: UK	104,534	40,454	4,712	53	149,753	(536)	(1,234)	(1,320)	(33)	(3,123)
Asia	279,985	58,159	3,443	106	341,693	(337)	(383)	(2,040)	(43)	(2,803)
– of which: Hong Kong	156,817	39,257	1,637	45	197,756	(162)	(260)	(751)	(23)	(1,196)
MENA	24,753	7,893	1,952	30	34,628	(91)	(216)	(1,205)	(12)	(1,524)
North America	46,852	18,220	913	–	65,985	(77)	(302)	(281)	–	(660)
Latin America	11,376	4,145	645	32	16,198	(86)	(271)	(314)	(6)	(677)
<b>At 31 Dec 2020</b>	<b>519,440</b>	<b>140,125</b>	<b>13,484</b>	<b>277</b>	<b>673,326</b>	<b>(1,180)</b>	<b>(2,572)</b>	<b>(5,937)</b>	<b>(112)</b>	<b>(9,801)</b>

Total wholesale lending for loans and other credit-related commitments and financial guarantees by stage distribution<sup>1</sup>

	Nominal amount					Allowance for ECL				
	Stage 1	Stage 2	Stage 3	POCI	Total	Stage 1	Stage 2	Stage 3	POCI	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Corporate and commercial	262,598	49,008	1,140	2	312,748	(271)	(392)	(100)	(1)	(764)
Financial	120,768	7,526	55	–	128,349	(17)	(33)	(4)	–	(54)
<b>At 31 Dec 2020</b>	<b>383,366</b>	<b>56,534</b>	<b>1,195</b>	<b>2</b>	<b>441,097</b>	<b>(288)</b>	<b>(425)</b>	<b>(104)</b>	<b>(1)</b>	<b>(818)</b>
<b>By geography</b>										
Europe	210,141	28,705	851	2	239,699	(152)	(208)	(83)	(1)	(444)
– of which: UK	81,153	17,048	480	1	98,682	(138)	(176)	(72)	(1)	(387)
Asia	63,586	6,311	20	–	69,917	(73)	(43)	(6)	–	(122)
– of which: Hong Kong	26,502	3,639	4	–	30,145	(24)	(22)	(1)	–	(47)
MENA	4,975	1,609	85	–	6,669	(14)	(44)	(2)	–	(60)
North America	102,399	19,360	198	–	121,957	(39)	(124)	(7)	–	(170)
Latin America	2,265	549	41	–	2,855	(10)	(6)	(6)	–	(22)
<b>At 31 Dec 2020</b>	<b>383,366</b>	<b>56,534</b>	<b>1,195</b>	<b>2</b>	<b>441,097</b>	<b>(288)</b>	<b>(425)</b>	<b>(104)</b>	<b>(1)</b>	<b>(818)</b>

<sup>1</sup> Included in loans and other credit-related commitments and financial guarantees is \$62bn relating to unsettled reverse repurchase agreements, which once drawn are classified as 'Reverse repurchase agreements – non-trading'.

## Risk

### Total wholesale lending for loans and advances to banks and customers by stage distribution

	Gross carrying amount					Allowance for ECL				
	Stage 1	Stage 2	Stage 3	POCI	Total	Stage 1	Stage 2	Stage 3	POCI	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Corporate and commercial	472,253	59,599	8,315	332	540,499	(672)	(920)	(3,747)	(99)	(5,438)
– agriculture, forestry and fishing	5,416	1,000	278	2	6,696	(13)	(29)	(139)	(1)	(182)
– mining and quarrying	9,923	4,189	311	12	14,435	(22)	(70)	(122)	(12)	(226)
– manufacturing	88,138	14,525	1,581	136	104,380	(143)	(211)	(806)	(50)	(1,210)
– electricity, gas, steam and air-conditioning supply	13,479	1,386	175	–	15,040	(14)	(41)	(25)	–	(80)
– water supply, sewerage, waste management and remediation	2,963	508	30	–	3,501	(6)	(4)	(18)	–	(28)
– construction	10,520	3,883	852	32	15,287	(16)	(49)	(467)	(32)	(564)
– wholesale and retail trade, repair of motor vehicles and motorcycles	83,151	9,897	1,625	8	94,681	(111)	(137)	(934)	(2)	(1,184)
– transportation and storage	22,604	2,359	588	29	25,580	(42)	(37)	(158)	–	(237)
– accommodation and food	20,109	4,284	262	1	24,656	(37)	(46)	(62)	(1)	(146)
– publishing, audiovisual and broadcasting	18,103	1,706	141	21	19,971	(30)	(23)	(33)	(1)	(87)
– real estate	122,972	6,450	1,329	1	130,752	(108)	(97)	(475)	–	(680)
– professional, scientific and technical activities	21,085	2,687	350	–	24,122	(31)	(33)	(145)	–	(209)
– administrative and support services	21,370	3,817	438	89	25,714	(33)	(58)	(179)	–	(270)
– public administration and defence, compulsory social security	1,889	488	–	–	2,377	(1)	(7)	–	–	(8)
– education	1,700	184	16	–	1,900	(7)	(5)	(6)	–	(18)
– health and care	3,543	811	111	–	4,465	(9)	(20)	(28)	–	(57)
– arts, entertainment and recreation	2,537	257	30	–	2,824	(6)	(8)	(11)	–	(25)
– other services	13,143	941	191	1	14,276	(35)	(31)	(133)	–	(199)
– activities of households	725	66	–	–	791	–	–	–	–	–
– extra-territorial organisations and bodies activities	2	–	–	–	2	–	–	–	–	–
– government	8,159	147	7	–	8,313	(6)	(2)	(6)	–	(14)
– asset-backed securities	722	14	–	–	736	(2)	(12)	–	–	(14)
Non-bank financial institutions	65,661	4,832	212	–	70,705	(42)	(28)	(90)	–	(160)
Loans and advances to banks	67,769	1,450	–	–	69,219	(14)	(2)	–	–	(16)
At 31 Dec 2019	605,683	65,881	8,527	332	680,423	(728)	(950)	(3,837)	(99)	(5,614)
By geography										
Europe	190,528	20,276	4,671	129	215,604	(318)	(458)	(1,578)	(45)	(2,399)
– of which: UK	131,007	16,253	3,343	79	150,682	(252)	(385)	(989)	(32)	(1,658)
Asia	308,305	32,287	1,419	148	342,159	(228)	(253)	(986)	(38)	(1,505)
– of which: Hong Kong	182,501	23,735	673	48	206,957	(118)	(172)	(475)	(28)	(793)
MENA	25,470	3,314	1,686	18	30,488	(55)	(85)	(946)	(12)	(1,098)
North America	64,501	7,495	458	–	72,454	(45)	(96)	(141)	–	(282)
Latin America	16,879	2,509	293	37	19,718	(82)	(58)	(186)	(4)	(330)
At 31 Dec 2019	605,683	65,881	8,527	332	680,423	(728)	(950)	(3,837)	(99)	(5,614)

### Total wholesale lending for loans and other credit-related commitments and financial guarantees by stage distribution<sup>1</sup>

	Nominal amount					Allowance for ECL				
	Stage 1	Stage 2	Stage 3	POCI	Total	Stage 1	Stage 2	Stage 3	POCI	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Corporate and commercial	271,678	20,880	757	13	293,328	(132)	(151)	(68)	–	(351)
Financial	101,345	1,447	5	–	102,797	(7)	(2)	(1)	–	(10)
At 31 Dec 2019	373,023	22,327	762	13	396,125	(139)	(153)	(69)	–	(361)
By geography										
Europe	190,604	7,852	645	13	199,114	(60)	(43)	(56)	–	(159)
– of which: UK	76,013	4,193	494	9	80,709	(48)	(32)	(31)	–	(111)
Asia	60,759	3,762	8	–	64,529	(43)	(33)	(4)	–	(80)
– of which: Hong Kong	27,047	2,114	5	–	29,166	(14)	(23)	(2)	–	(39)
MENA	5,690	621	31	–	6,342	(12)	(13)	(4)	–	(29)
North America	112,812	9,933	77	–	122,822	(22)	(62)	(5)	–	(89)
Latin America	3,158	159	1	–	3,318	(2)	(2)	–	–	(4)
At 31 Dec 2019	373,023	22,327	762	13	396,125	(139)	(153)	(69)	–	(361)

<sup>1</sup> Included in loans and other credit-related commitments and financial guarantees is \$53bn relating to unsettled reverse repurchase agreements, which once drawn are classified as 'Reverse repurchase agreements – non-trading'.

Wholesale lending – reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees

(Audited)

	Non-credit impaired				Credit impaired				Total	
	Stage 1		Stage 2		Stage 3		POCI			
	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m
<b>At 1 Jan 2020</b>	<b>925,652</b>	<b>(867)</b>	<b>88,169</b>	<b>(1,103)</b>	<b>9,289</b>	<b>(3,906)</b>	<b>345</b>	<b>(99)</b>	<b>1,023,455</b>	<b>(5,975)</b>
Transfers of financial instruments	(113,217)	(493)	103,413	770	9,804	(277)	–	–	–	–
Net remeasurement of ECL arising from transfer of stage	–	476	–	(603)	–	(742)	–	–	–	(869)
Net new and further lending/ repayments	10,451	(437)	(2,910)	141	(3,350)	583	(48)	(1)	4,143	286
Change in risk parameters – credit quality	–	(261)	–	(2,349)	–	(3,120)	–	(39)	–	(5,769)
Changes to models used for ECL calculation	–	137	–	303	–	–	–	–	–	440
Assets written off	–	–	–	–	(1,537)	1,537	(30)	30	(1,567)	1,567
Credit-related modifications that resulted in derecognition	–	–	–	–	(23)	7	–	–	(23)	7
Foreign exchange and other	18,219	(20)	7,990	(157)	479	(123)	12	(4)	26,700	(304)
<b>At 31 Dec 2020</b>	<b>841,105</b>	<b>(1,465)</b>	<b>196,662</b>	<b>(2,998)</b>	<b>14,662</b>	<b>(6,041)</b>	<b>279</b>	<b>(113)</b>	<b>1,052,708</b>	<b>(10,617)</b>
ECL income statement change for the period		(85)		(2,508)		(3,279)		(40)		(5,912)
Recoveries										46
Others										(59)
<b>Total ECL income statement change for the period</b>										<b>(5,925)</b>

As shown in the above table, the allowance for ECL for loans and advances to customers and banks and relevant loan commitments and financial guarantees increased \$4,642m during the period from \$5,975m at 31 December 2019 to \$10,617m at 31 December 2020.

This increase was primarily driven by:

- \$5,769m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stages;
- \$869m relating to the net remeasurement impact of stage transfers; and
- foreign exchange and other movements of \$304m.

These were partly offset by:

- \$1,567m of assets written off;

- \$440m of changes to models used for ECL calculation;
- \$286m relating to volume movements, which included the ECL allowance associated with new originations, assets derecognised and further lending/repayments; and
- \$7m of credit-related modifications that resulted in derecognition.

The ECL charge for the period of \$5,912m presented in the above table consisted of \$5,769m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stage and \$869m relating to the net remeasurement impact of stage transfers. These charges were partly offset by \$440m in changes to models used for ECL calculation and \$286m relating to underlying net book volume movements.

## Risk

### Wholesale lending – reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to banks and customers including loan commitments and financial guarantees

(Audited)

	Non-credit impaired				Credit impaired				Total	
	Stage 1		Stage 2		Stage 3		POCI		Gross carrying/nominal amount	Allowance for ECL
	Gross carrying/nominal amount	Allowance for ECL	Gross carrying/nominal amount	Allowance for ECL	Gross carrying/nominal amount	Allowance for ECL	Gross carrying/nominal amount	Allowance for ECL		
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
At 1 Jan 2019	922,192	(902)	78,266	(1,012)	9,239	(3,987)	334	(194)	1,010,031	(6,095)
Transfers of financial instruments	(31,493)	(169)	28,418	276	3,075	(107)	–	–	–	–
Net remeasurement of ECL arising from transfer of stage	–	223	–	(268)	–	(38)	–	–	–	(83)
Net new and further lending/ repayments	27,918	(134)	(20,121)	167	(1,552)	369	137	(1)	6,382	401
Changes to risk parameters – credit quality	–	102	–	(193)	–	(1,514)	–	(51)	–	(1,656)
Changes to models used for ECL calculation	–	–	–	(56)	–	–	–	–	–	(56)
Assets written off	–	–	–	–	(1,312)	1,312	(140)	140	(1,452)	1,452
Credit-related modifications that resulted in derecognition	–	–	–	–	(268)	125	–	–	(268)	125
Foreign exchange and other	7,035	13	1,606	(17)	107	(66)	14	7	8,762	(63)
At 31 Dec 2019	925,652	(867)	88,169	(1,103)	9,289	(3,906)	345	(99)	1,023,455	(5,975)
ECL income statement change for the period		191		(350)		(1,183)		(52)		(1,394)
Recoveries										47
Others										(24)
Total ECL income statement change for the period										(1,371)

### Wholesale lending – distribution of financial instruments to which the impairment requirements of IFRS 9 are applied by credit quality

	Gross carrying/nominal amount						Allowance for ECL	Net
	Strong	Good	Satisfactory	Sub-standard	Credit impaired	Total		
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>By geography</b>								
Europe	53,373	55,436	81,049	18,327	6,637	214,822	(4,137)	210,685
– of which: UK	35,050	42,476	55,106	12,357	4,764	149,753	(3,123)	146,630
Asia	141,811	93,350	98,488	4,493	3,551	341,693	(2,803)	338,890
– of which: Hong Kong	72,088	52,601	68,826	2,558	1,683	197,756	(1,196)	196,560
MENA	12,398	7,810	10,990	1,448	1,982	34,628	(1,524)	33,104
North America	11,157	22,973	24,978	5,964	913	65,985	(660)	65,325
Latin America	989	5,355	6,127	3,049	678	16,198	(677)	15,521
<b>At 31 Dec 2020</b>	<b>219,728</b>	<b>184,924</b>	<b>221,632</b>	<b>33,281</b>	<b>13,761</b>	<b>673,326</b>	<b>(9,801)</b>	<b>663,525</b>
<b>Percentage of total credit quality</b>	<b>32.6%</b>	<b>27.5%</b>	<b>32.9%</b>	<b>4.9%</b>	<b>2.0%</b>	<b>100.0%</b>		
By geography								
Europe	57,340	69,427	74,143	9,895	4,799	215,604	(2,399)	213,205
– of which: UK	35,838	53,046	51,355	7,023	3,420	150,682	(1,658)	149,024
Asia	145,450	106,313	86,685	2,158	1,553	342,159	(1,505)	340,654
– of which: Hong Kong	82,053	67,541	55,379	1,263	721	206,957	(793)	206,164
MENA	12,036	6,003	9,307	1,439	1,703	30,488	(1,098)	29,390
North America	12,319	31,496	24,860	3,320	459	72,454	(282)	72,172
Latin America	3,919	5,455	7,713	2,304	327	19,718	(330)	19,388
At 31 Dec 2019	231,064	218,694	202,708	19,116	8,841	680,423	(5,614)	674,809
Percentage of total credit quality	34.0%	32.1%	29.8%	2.8%	1.3%	100.0%		

Our risk rating system facilitates the internal ratings-based approach under the Basel framework adopted by the Group to support calculation of our minimum credit regulatory capital requirement. The credit quality classifications can be found on page 163.

Wholesale lending – credit risk profile by obligor grade for loans and advances at amortised cost

	Basel one-year PD range %	Gross carrying amount					Allowance for ECL					ECL coverage %	Mapped external rating
		Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	POCI \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	POCI \$m	Total \$m		
<b>Corporate and commercial</b>		<b>387,563</b>	<b>126,287</b>	<b>12,961</b>	<b>277</b>	<b>527,088</b>	<b>(1,101)</b>	<b>(2,444)</b>	<b>(5,837)</b>	<b>(112)</b>	<b>(9,494)</b>	<b>1.8</b>	
– CRR 1	0.000 to 0.053	36,047	486	–	–	36,533	(8)	(5)	–	–	(13)	–	AA- and above
– CRR 2	0.054 to 0.169	81,298	3,140	–	–	84,438	(42)	(36)	–	–	(78)	0.1	A+ to A-
– CRR 3	0.170 to 0.740	131,540	27,061	–	–	158,601	(262)	(197)	–	–	(459)	0.3	BBB+ to BBB-
– CRR 4	0.741 to 1.927	91,385	35,376	–	–	126,761	(390)	(375)	–	–	(765)	0.6	BB+ to BB-
– CRR 5	1.928 to 4.914	42,214	34,585	–	–	76,799	(330)	(686)	–	–	(1,016)	1.3	BB- to B
– CRR 6	4.915 to 8.860	3,523	14,560	–	–	18,083	(35)	(476)	–	–	(511)	2.8	B-
– CRR 7	8.861 to 15.000	1,111	7,241	–	–	8,352	(21)	(322)	–	–	(343)	4.1	CCC+
– CRR 8	15.001 to 99.999	445	3,838	–	–	4,283	(13)	(347)	–	–	(360)	8.4	CCC to C
– CRR 9/10	100.000	–	–	12,961	277	13,238	–	–	(5,837)	(112)	(5,949)	44.9	D
<b>Non-bank financial institutions</b>		<b>52,223</b>	<b>11,834</b>	<b>523</b>	<b>–</b>	<b>64,580</b>	<b>(46)</b>	<b>(119)</b>	<b>(100)</b>	<b>–</b>	<b>(265)</b>	<b>0.4</b>	
– CRR 1	0.000 to 0.053	12,234	28	–	–	12,262	(3)	–	–	–	(3)	–	AA- and above
– CRR 2	0.054 to 0.169	15,128	49	–	–	15,177	(5)	(1)	–	–	(6)	–	A+ to A-
– CRR 3	0.170 to 0.740	16,741	4,086	–	–	20,827	(12)	(9)	–	–	(21)	0.1	BBB+ to BBB-
– CRR 4	0.741 to 1.927	4,931	3,917	–	–	8,848	(15)	(27)	–	–	(42)	0.5	BB+ to BB-
– CRR 5	1.928 to 4.914	2,859	2,797	–	–	5,656	(10)	(34)	–	–	(44)	0.8	BB- to B
– CRR 6	4.915 to 8.860	103	505	–	–	608	(1)	(22)	–	–	(23)	3.8	B-
– CRR 7	8.861 to 15.000	87	329	–	–	416	–	(9)	–	–	(9)	2.2	CCC+
– CRR 8	15.001 to 99.999	140	123	–	–	263	–	(17)	–	–	(17)	6.5	CCC to C
– CRR 9/10	100.000	–	–	523	–	523	–	–	(100)	–	(100)	19.1	D
<b>Banks</b>		<b>79,654</b>	<b>2,004</b>	<b>–</b>	<b>–</b>	<b>81,658</b>	<b>(33)</b>	<b>(9)</b>	<b>–</b>	<b>–</b>	<b>(42)</b>	<b>0.1</b>	
– CRR 1	0.000 to 0.053	62,291	46	–	–	62,337	(10)	–	–	–	(10)	–	AA- and above
– CRR 2	0.054 to 0.169	8,835	146	–	–	8,981	(7)	–	–	–	(7)	0.1	A+ to A-
– CRR 3	0.170 to 0.740	5,098	398	–	–	5,496	(5)	(2)	–	–	(7)	0.1	BBB+ to BBB-
– CRR 4	0.741 to 1.927	2,558	168	–	–	2,726	(4)	(4)	–	–	(8)	0.3	BB+ to BB-
– CRR 5	1.928 to 4.914	799	43	–	–	842	(1)	(1)	–	–	(2)	0.2	BB- to B
– CRR 6	4.915 to 8.860	71	20	–	–	91	(6)	–	–	–	(6)	6.6	B-
– CRR 7	8.861 to 15.000	2	1	–	–	3	–	–	–	–	–	–	CCC+
– CRR 8	15.001 to 99.999	–	1,182	–	–	1,182	–	(2)	–	–	(2)	0.2	CCC to C
– CRR 9/10	100.000	–	–	–	–	–	–	–	–	–	–	–	D
<b>At 31 Dec 2020</b>		<b>519,440</b>	<b>140,125</b>	<b>13,484</b>	<b>277</b>	<b>673,326</b>	<b>(1,180)</b>	<b>(2,572)</b>	<b>(5,937)</b>	<b>(112)</b>	<b>(9,801)</b>	<b>1.5</b>	
<b>Corporate and commercial</b>		<b>472,253</b>	<b>59,599</b>	<b>8,315</b>	<b>332</b>	<b>540,499</b>	<b>(672)</b>	<b>(920)</b>	<b>(3,747)</b>	<b>(99)</b>	<b>(5,438)</b>	<b>1.0</b>	
– CRR 1	0.000 to 0.053	44,234	18	–	–	44,252	(7)	–	–	–	(7)	–	AA- and above
– CRR 2	0.054 to 0.169	92,861	1,013	–	–	93,874	(20)	(10)	–	–	(30)	–	A+ to A-
– CRR 3	0.170 to 0.740	178,662	11,808	–	–	190,470	(164)	(91)	–	–	(255)	0.1	BBB+ to BBB-
– CRR 4	0.741 to 1.927	105,708	17,829	–	–	123,537	(244)	(151)	–	–	(395)	0.3	BB+ to BB-
– CRR 5	1.928 to 4.914	46,423	16,423	–	–	62,846	(190)	(218)	–	–	(408)	0.6	BB- to B
– CRR 6	4.915 to 8.860	3,323	7,592	–	15	10,930	(33)	(141)	–	–	(174)	1.6	B-
– CRR 7	8.861 to 15.000	795	3,067	–	3	3,865	(11)	(172)	–	–	(183)	4.7	CCC+
– CRR 8	15.001 to 99.999	247	1,849	–	–	2,096	(3)	(137)	–	–	(140)	6.7	CCC to C
– CRR 9/10	100.000	–	–	8,315	314	8,629	–	–	(3,747)	(99)	(3,846)	44.6	D
<b>Non-bank financial institutions</b>		<b>65,661</b>	<b>4,832</b>	<b>212</b>	<b>–</b>	<b>70,705</b>	<b>(42)</b>	<b>(28)</b>	<b>(90)</b>	<b>–</b>	<b>(160)</b>	<b>0.2</b>	
– CRR 1	0.000 to 0.053	16,616	–	–	–	16,616	(1)	–	–	–	(1)	–	AA- and above
– CRR 2	0.054 to 0.169	15,630	56	–	–	15,686	(4)	–	–	–	(4)	–	A+ to A-
– CRR 3	0.170 to 0.740	21,562	1,333	–	–	22,895	(12)	(4)	–	–	(16)	0.1	BBB+ to BBB-
– CRR 4	0.741 to 1.927	7,535	1,169	–	–	8,704	(12)	(7)	–	–	(19)	0.2	BB+ to BB-
– CRR 5	1.928 to 4.914	4,024	1,738	–	–	5,762	(12)	(11)	–	–	(23)	0.4	BB- to B
– CRR 6	4.915 to 8.860	280	517	–	–	797	(1)	(4)	–	–	(5)	0.6	B-
– CRR 7	8.861 to 15.000	12	7	–	–	19	–	–	–	–	–	–	CCC+
– CRR 8	15.001 to 99.999	2	12	–	–	14	–	(2)	–	–	(2)	14.3	CCC to C
– CRR 9/10	100.000	–	–	212	–	212	–	–	(90)	–	(90)	42.5	D
<b>Banks</b>		<b>67,769</b>	<b>1,450</b>	<b>–</b>	<b>–</b>	<b>69,219</b>	<b>(14)</b>	<b>(2)</b>	<b>–</b>	<b>–</b>	<b>(16)</b>	<b>–</b>	
– CRR 1	0.000 to 0.053	49,858	21	–	–	49,879	(2)	–	–	–	(2)	–	AA- and above
– CRR 2	0.054 to 0.169	10,689	68	–	–	10,757	(7)	–	–	–	(7)	0.1	A+ to A-
– CRR 3	0.170 to 0.740	5,312	17	–	–	5,329	(2)	–	–	–	(2)	–	BBB+ to BBB-
– CRR 4	0.741 to 1.927	1,725	31	–	–	1,756	(1)	(1)	–	–	(2)	0.1	BB+ to BB-
– CRR 5	1.928 to 4.914	71	32	–	–	103	–	–	–	–	–	–	BB- to B
– CRR 6	4.915 to 8.860	113	2	–	–	115	(2)	–	–	–	(2)	1.7	B-
– CRR 7	8.861 to 15.000	1	1	–	–	2	–	–	–	–	–	–	CCC+
– CRR 8	15.001 to 99.999	–	1,278	–	–	1,278	–	(1)	–	–	(1)	0.1	CCC to C
– CRR 9/10	100.000	–	–	–	–	–	–	–	–	–	–	–	D
<b>At 31 Dec 2019</b>		<b>605,683</b>	<b>65,881</b>	<b>8,527</b>	<b>332</b>	<b>680,423</b>	<b>(728)</b>	<b>(950)</b>	<b>(3,837)</b>	<b>(99)</b>	<b>(5,614)</b>	<b>0.8</b>	

## Risk

### Commercial real estate

Commercial real estate lending includes the financing of corporate, institutional and high net worth customers who are investing primarily in income-producing assets and, to a lesser extent, in their construction and development. The portfolio is globally diversified with larger concentrations in Hong Kong, the UK and the US.

Our global exposure is centred largely on cities with economic, political or cultural significance. In more developed markets, our exposure mainly comprises the financing of investment assets, the

redevelopment of existing stock and the augmentation of both commercial and residential markets to support economic and population growth. In less-developed commercial real estate markets, our exposures comprise lending for development assets on relatively short tenors with a particular focus on supporting larger, better capitalised developers involved in residential construction or assets supporting economic expansion.

Commercial real estate lending declined \$5bn, including favourable foreign exchange movements of \$2.4bn, mainly in Hong Kong and, to a lesser extent, within the UK.

#### Commercial real estate lending

	Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Total \$m	Of which:	
							UK \$m	Hong Kong \$m
<b>Gross loans and advances</b>								
Stage 1	22,639	63,276	1,147	7,373	1,269	95,704	16,207	48,735
Stage 2	5,549	11,686	436	4,093	381	22,145	4,299	9,105
Stage 3	1,114	37	250	42	240	1,683	966	18
POCI	1	–	–	–	–	1	–	–
<b>At 31 Dec 2020</b>	<b>29,303</b>	<b>74,999</b>	<b>1,833</b>	<b>11,508</b>	<b>1,890</b>	<b>119,533</b>	<b>21,472</b>	<b>57,858</b>
– of which: renegotiated loans	751	3	201	–	–	955	744	–
Allowance for ECL	(650)	(117)	(190)	(64)	(120)	(1,141)	(575)	(65)
Gross loans and advances								
Stage 1	25,017	76,832	1,507	10,938	1,653	115,947	17,953	60,632
Stage 2	3,988	2,673	18	508	41	7,228	2,953	1,696
Stage 3	1,115	21	208	33	27	1,404	948	17
POCI	1	–	–	–	–	1	–	–
<b>At 31 Dec 2019</b>	<b>30,121</b>	<b>79,526</b>	<b>1,733</b>	<b>11,479</b>	<b>1,721</b>	<b>124,580</b>	<b>21,854</b>	<b>62,345</b>
– of which: renegotiated loans	788	–	195	–	–	983	782	–
Allowance for ECL	(372)	(78)	(170)	(17)	(7)	(644)	(305)	(40)

#### Refinance risk in commercial real estate

Commercial real estate lending tends to require the repayment of a significant proportion of the principal at maturity. Typically, a customer will arrange repayment through the acquisition of a new loan to settle the existing debt. Refinance risk is the risk that a

customer, being unable to repay the debt on maturity, fails to refinance it at commercial rates. We monitor our commercial real estate portfolio closely, assessing indicators for signs of potential issues with refinancing.

#### Commercial real estate gross loans and advances maturity analysis

	Europe \$m	Asia \$m	MENA \$m	North America \$m	Latin America \$m	Total \$m	Of which:	
							UK \$m	Hong Kong \$m
<b>On demand, overdrafts or revolving</b>								
< 1 year	13,728	25,075	750	5,793	263	45,609	12,131	19,998
1–2 years	6,373	18,396	119	3,112	434	28,434	4,991	13,237
2–5 years	6,241	27,699	668	2,288	927	37,823	3,135	21,694
> 5 years	2,961	3,829	296	315	266	7,667	1,215	2,929
<b>At 31 Dec 2020</b>	<b>29,303</b>	<b>74,999</b>	<b>1,833</b>	<b>11,508</b>	<b>1,890</b>	<b>119,533</b>	<b>21,472</b>	<b>57,858</b>
On demand, overdrafts or revolving								
< 1 year	13,808	21,625	816	5,905	135	42,289	11,775	16,937
1–2 years	6,197	17,638	142	1,548	107	25,632	5,274	13,776
2–5 years	7,797	35,557	509	3,511	1,332	48,706	4,347	27,860
> 5 years	2,319	4,706	266	515	147	7,953	458	3,772
<b>At 31 Dec 2019</b>	<b>30,121</b>	<b>79,526</b>	<b>1,733</b>	<b>11,479</b>	<b>1,721</b>	<b>124,580</b>	<b>21,854</b>	<b>62,345</b>

#### Collateral and other credit enhancements

(Audited)

Although collateral can be an important mitigant of credit risk, it is the Group's practice to lend on the basis of the customer's ability to meet their obligations out of cash flow resources rather than placing primary reliance on collateral and other credit risk enhancements. Depending on the customer's standing and the type of product, facilities may be provided without any collateral or other credit enhancements. For other lending, a charge over collateral is obtained and considered in determining the credit decision and pricing. In the event of default, the Group may utilise the collateral as a source of repayment.

Depending on its form, collateral can have a significant financial effect in mitigating our exposure to credit risk. Where there is sufficient collateral, an expected credit loss is not recognised. This is the case for reverse repurchase agreements and for certain loans and advances to customers where the loan to value ('LTV') is very low.

Mitigants may include a charge on borrowers' specific assets, such as real estate or financial instruments. Other credit risk mitigants include short positions in securities and financial assets held as part of linked insurance/investment contracts where the risk is predominantly borne by the policyholder. Additionally, risk may be managed by employing other types of collateral and credit risk enhancements, such as second charges, other liens and



unsupported guarantees. Guarantees are normally taken from corporates and export credit agencies. Corporates would normally provide guarantees as part of a parent/subsidiary relationship and span a number of credit grades. The export credit agencies will normally be investment grade.

Certain credit mitigants are used strategically in portfolio management activities. While single name concentrations arise in portfolios managed by Global Banking and Corporate Banking, it is only in Global Banking that their size requires the use of portfolio level credit mitigants. Across Global Banking, risk limits and utilisations, maturity profiles and risk quality are monitored and managed proactively. This process is key to the setting of risk appetite for these larger, more complex, geographically distributed customer groups. While the principal form of risk management continues to be at the point of exposure origination, through the lending decision-making process, Global Banking also utilises loan sales and credit default swap ('CDS') hedges to manage concentrations and reduce risk. These transactions are the responsibility of a dedicated Global Banking portfolio management team. Hedging activity is carried out within agreed credit parameters, and is subject to market risk limits and a robust governance structure. Where applicable, CDSs are entered into directly with a central clearing house counterparty. Otherwise, the Group's exposure to CDS protection providers is diversified among mainly banking counterparties with strong credit ratings.

CDS mitigants are held at portfolio level and are not included in the expected loss calculations. CDS mitigants are not reported in the following tables.

#### *Collateral on loans and advances*

Collateral held is analysed separately for commercial real estate and for other corporate, commercial and financial (non-bank) lending. The following tables include off-balance sheet loan commitments, primarily undrawn credit lines.

The collateral measured in the following tables consists of fixed first charges on real estate, and charges over cash and marketable financial instruments. The values in the tables represent the expected market value on an open market basis. No adjustment has been made to the collateral for any expected costs of recovery. Marketable securities are measured at their fair value.

Other types of collateral such as unsupported guarantees and floating charges over the assets of a customer's business are not measured in the following tables. While such mitigants have value, often providing rights in insolvency, their assignable value is not sufficiently certain and they are therefore assigned no value for disclosure purposes.

The LTV ratios presented are calculated by directly associating loans and advances with the collateral that individually and uniquely supports each facility. When collateral assets are shared by multiple loans and advances, whether specifically or, more generally, by way of an all monies charge, the collateral value is pro-rated across the loans and advances protected by the collateral.

For credit-impaired loans, the collateral values cannot be directly compared with impairment allowances recognised. The LTV figures use open market values with no adjustments. Impairment allowances are calculated on a different basis, by considering other cash flows and adjusting collateral values for costs of realising collateral as explained further on page 330.

#### *Commercial real estate loans and advances*

The value of commercial real estate collateral is determined by using a combination of external and internal valuations and physical inspections. For CRR 1–7, local valuation policies determine the frequency of review on the basis of local market conditions because of the complexity of valuing collateral for commercial real estate. For CRR 8–10, almost all collateral would have been revalued within the last three years.

In Hong Kong, market practice is typically for lending to major property companies to be either secured by guarantees or unsecured. In Europe, facilities of a working capital nature are generally not secured by a first fixed charge, and are therefore disclosed as not collateralised.

## Risk

### Wholesale lending – commercial real estate loans and advances including loan commitments by level of collateral for key countries/territories (by stage)

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Stage 1</b>						
Not collateralised	55,376	0.1	7,205	0.6	29,422	–
Fully collateralised	71,915	0.2	14,053	0.2	33,386	–
LTV ratio:						
– less than 50%	36,408	0.1	4,665	0.3	22,361	–
– 51% to 75%	26,081	0.2	7,031	0.2	9,091	–
– 76% to 90%	5,098	0.3	1,932	0.2	1,093	–
– 91% to 100%	4,328	0.3	425	0.5	841	–
Partially collateralised (A):	5,477	0.2	1,463	0.1	769	–
– collateral value on A	3,486		912		594	
<b>Total</b>	<b>132,768</b>	<b>0.1</b>	<b>22,721</b>	<b>0.4</b>	<b>63,577</b>	<b>–</b>
<b>Stage 2</b>						
Not collateralised	8,710	1.3	3,337	2.2	1,084	0.1
Fully collateralised	18,383	1.0	2,534	1.6	8,719	0.5
LTV ratio:						
– less than 50%	8,544	0.8	1,132	1.5	5,359	0.4
– 51% to 75%	8,097	1.1	1,020	2.0	2,955	0.8
– 76% to 90%	849	1.1	350	0.9	319	0.3
– 91% to 100%	893	1.0	32	3.1	86	–
Partially collateralised (B):	1,260	1.0	713	0.8	196	1.0
– collateral value on B	517		246		147	
<b>Total</b>	<b>28,353</b>	<b>1.1</b>	<b>6,584</b>	<b>1.8</b>	<b>9,999</b>	<b>0.5</b>
<b>Stage 3</b>						
Not collateralised	1,038	45.3	635	50.7	–	–
Fully collateralised	583	11.5	348	9.5	20	5.0
LTV ratio:						
– less than 50%	177	13.6	56	5.4	11	–
– 51% to 75%	161	15.5	128	12.5	3	–
– 76% to 90%	149	6.7	139	5.8	–	–
– 91% to 100%	96	8.3	25	24.0	6	16.7
Partially collateralised (C):	474	45.6	195	27.7	–	–
– collateral value on C	331		120		–	
<b>Total</b>	<b>2,095</b>	<b>35.9</b>	<b>1,178</b>	<b>34.7</b>	<b>20</b>	<b>5.0</b>
<b>POCI</b>						
Not collateralised	–	–	–	–	–	–
Fully collateralised	1	–	–	–	–	–
LTV ratio:						
– less than 50%	1	–	–	–	–	–
– 51% to 75%	–	–	–	–	–	–
– 76% to 90%	–	–	–	–	–	–
– 91% to 100%	–	–	–	–	–	–
Partially collateralised (D):	–	–	–	–	–	–
– collateral value on D	–		–		–	
<b>Total</b>	<b>1</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>	<b>–</b>
<b>At 31 Dec 2020</b>	<b>163,217</b>	<b>0.8</b>	<b>30,483</b>	<b>2.0</b>	<b>73,596</b>	<b>0.1</b>

Wholesale lending – commercial real estate loans and advances including loan commitments by level of collateral for key countries/territories (by stage) (continued)

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Stage 1</b>						
Not collateralised	61,820	0.1	7,266	0.1	32,478	–
Fully collateralised	89,319	0.1	18,535	–	41,798	–
LTV ratio:						
– less than 50%	46,318	0.1	7,018	0.1	28,776	–
– 51% to 75%	32,583	0.1	9,349	–	10,815	0.1
– 76% to 90%	5,018	0.1	1,649	0.1	1,436	0.1
– 91% to 100%	5,400	0.2	519	–	771	–
Partially collateralised (A):	6,563	0.2	682	–	1,627	0.1
– collateral value on A	3,602		535		1,142	
Total	157,702	0.1	26,483	0.1	75,903	–
<b>Stage 2</b>						
Not collateralised	3,040	1.2	1,857	1.2	440	0.2
Fully collateralised	5,184	1.1	1,419	1.2	1,501	0.6
LTV ratio:						
– less than 50%	2,167	1.1	615	1.8	955	0.3
– 51% to 75%	1,986	0.9	712	0.6	497	1.0
– 76% to 90%	333	2.1	16	6.3	29	–
– 91% to 100%	698	1.1	76	1.3	20	–
Partially collateralised (B):	500	0.6	296	0.3	42	–
– collateral value on B	203		56		25	
Total	8,724	1.1	3,572	1.1	1,983	0.5
<b>Stage 3</b>						
Not collateralised	315	57.8	66	92.4	–	–
Fully collateralised	557	14.9	404	12.9	17	11.8
LTV ratio:						
– less than 50%	87	16.1	42	7.1	6	16.7
– 51% to 75%	90	7.8	69	4.3	10	–
– 76% to 90%	89	15.7	72	4.2	–	–
– 91% to 100%	291	16.5	221	19.5	1	–
Partially collateralised (C):	773	41.5	507	27.8	–	–
– collateral value on C	380		166		–	
Total	1,645	35.6	977	26.0	17	11.8
<b>POCI</b>						
Not collateralised	–	–	–	–	–	–
Fully collateralised	1	–	–	–	–	–
LTV ratio:						
– less than 50%	1	–	–	–	–	–
– 51% to 75%	–	–	–	–	–	–
– 76% to 90%	–	–	–	–	–	–
– 91% to 100%	–	–	–	–	–	–
Partially collateralised (D):	–	–	–	–	–	–
– collateral value on D	–		–		–	
Total	1	–	–	–	–	–
At 31 Dec 2019	168,072	0.5	31,032	1.0	77,903	0.1

## Risk

### Wholesale lending – commercial real estate loans and advances including loan commitments by level of collateral for key countries/territories

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Rated CRR/PD1 to 7</b>						
Not collateralised	64,046	0.3	10,527	1.1	30,506	–
Fully collateralised	89,664	0.3	16,483	0.4	41,861	0.1
Partially collateralised (A):	6,728	0.4	2,174	0.3	965	0.2
– collateral value on A	3,994		1,157		741	
<b>Total</b>	<b>160,438</b>	<b>0.3</b>	<b>29,184</b>	<b>0.6</b>	<b>73,332</b>	<b>–</b>
<b>Rated CRR/PD8</b>						
Not collateralised	40	22.5	15	6.7	–	–
Fully collateralised	634	8.2	104	12.5	244	12.7
LTV ratio:						
– less than 50%	282	7.1	15	6.7	102	11.8
– 51% to 75%	321	9.0	75	13.3	138	13.0
– 76% to 90%	14	21.4	5	20.0	4	25.0
– 91% to 100%	17	–	9	–	–	–
Partially collateralised (B):	9	11.1	2	50.0	–	–
– collateral value on B	9		1		–	
<b>Total</b>	<b>683</b>	<b>9.1</b>	<b>121</b>	<b>12.4</b>	<b>244</b>	<b>12.7</b>
<b>Rated CRR/PD9 to 10</b>						
Not collateralised	1,038	45.3	635	50.7	–	–
Fully collateralised	584	11.5	348	9.5	20	5.0
LTV ratio:						
– less than 50%	178	13.5	56	5.4	11	–
– 51% to 75%	161	15.5	128	12.5	3	–
– 76% to 90%	149	6.7	139	5.8	–	–
– 91% to 100%	96	8.3	25	24.0	6	16.7
Partially collateralised (C):	474	45.6	195	27.7	–	–
– collateral value on C	331		120		–	
<b>Total</b>	<b>2,096</b>	<b>35.9</b>	<b>1,178</b>	<b>34.7</b>	<b>20</b>	<b>5.0</b>
<b>At 31 Dec 2020</b>	<b>163,217</b>	<b>0.8</b>	<b>30,483</b>	<b>2.0</b>	<b>73,596</b>	<b>0.1</b>
<b>Rated CRR/PD1 to 7</b>						
Not collateralised	64,850	0.1	9,119	0.3	32,918	–
Fully collateralised	94,299	0.1	19,833	0.1	43,299	0.1
Partially collateralised (A):	7,052	0.2	971	0.1	1,669	0.1
– collateral value on A	3,796		586		1,167	
<b>Total</b>	<b>166,201</b>	<b>0.1</b>	<b>29,923</b>	<b>0.1</b>	<b>77,886</b>	<b>–</b>
<b>Rated CRR/PD8</b>						
Not collateralised	10	50.0	4	100.0	–	–
Fully collateralised	204	4.9	121	5.0	–	–
LTV ratio:						
– less than 50%	47	8.5	27	14.8	–	–
– 51% to 75%	120	3.3	68	1.5	–	–
– 76% to 90%	25	4.0	15	6.7	–	–
– 91% to 100%	12	8.3	11	–	–	–
Partially collateralised (B):	11	–	7	–	–	–
– collateral value on B	9		5		–	
<b>Total</b>	<b>225</b>	<b>6.7</b>	<b>132</b>	<b>7.6</b>	<b>–</b>	<b>–</b>
<b>Rated CRR/PD9 to 10</b>						
Not collateralised	315	57.8	66	92.4	–	–
Fully collateralised	557	14.9	404	12.9	17	11.8
LTV ratio:						
– less than 50%	87	16.1	42	7.1	6	16.7
– 51% to 75%	90	7.8	69	4.3	10	–
– 76% to 90%	89	15.7	72	4.2	–	–
– 91% to 100%	291	16.5	221	19.5	1	100.0
Partially collateralised (C):	774	41.6	507	27.8	–	–
– collateral value on C	380		166		–	
<b>Total</b>	<b>1,646</b>	<b>35.7</b>	<b>977</b>	<b>26.0</b>	<b>17</b>	<b>11.8</b>
<b>At 31 Dec 2019</b>	<b>168,072</b>	<b>0.5</b>	<b>31,032</b>	<b>1.0</b>	<b>77,903</b>	<b>0.1</b>

### Other corporate, commercial and financial (non-bank) loans and advances

Other corporate, commercial and financial (non-bank) loans are analysed separately in the following table, which focuses on the countries/territories containing the majority of our loans and advances balances. For financing activities in other corporate and commercial lending, collateral value is not strongly correlated to principal repayment performance.

Collateral values are generally refreshed when an obligor's general credit performance deteriorates and we have to assess the likely performance of secondary sources of repayment should it prove necessary to rely on them.

Accordingly, the following table reports values only for customers with CRR 8–10, recognising that these loans and advances generally have valuations that are comparatively recent.

### Wholesale lending – other corporate, commercial and financial (non-bank) loans and advances including loan commitments by level of collateral for key countries/territories (by stage)

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Stage 1</b>						
Not collateralised	617,592	0.2	122,554	0.4	95,061	0.1
Fully collateralised	110,528	0.2	28,232	0.3	40,207	0.1
LTV ratio:						
– less than 50%	37,991	0.1	7,367	0.3	14,744	0.1
– 51% to 75%	36,696	0.2	11,891	0.3	13,961	0.2
– 76% to 90%	13,542	0.2	2,624	0.4	6,522	0.1
– 91% to 100%	22,299	0.1	6,350	0.1	4,980	0.1
Partially collateralised (A):	52,892	0.2	6,826	0.5	19,163	0.1
– collateral value on A	25,903		3,524		9,208	
<b>Total</b>	<b>781,012</b>	<b>0.2</b>	<b>157,612</b>	<b>0.4</b>	<b>154,431</b>	<b>0.1</b>
<b>Stage 2</b>						
Not collateralised	118,959	1.6	37,430	2.6	19,466	0.4
Fully collateralised	37,753	1.3	9,316	2.1	15,044	0.8
LTV ratio:						
– less than 50%	11,992	1.3	2,498	1.5	3,920	0.7
– 51% to 75%	16,982	1.6	5,715	2.2	6,657	1.0
– 76% to 90%	3,727	1.2	502	3.2	2,150	0.7
– 91% to 100%	5,052	0.9	601	2.0	2,317	0.3
Partially collateralised (B):	16,829	1.5	3,984	2.7	3,849	0.9
– collateral value on B	9,425		1,714		2,104	
<b>Total</b>	<b>173,541</b>	<b>1.5</b>	<b>50,730</b>	<b>2.5</b>	<b>38,359</b>	<b>0.6</b>
<b>Stage 3</b>						
Not collateralised	7,852	50.0	2,793	28.5	865	66.0
Fully collateralised	1,939	17.3	585	7.9	342	6.4
LTV ratio:						
– less than 50%	637	24.0	151	8.6	83	6.0
– 51% to 75%	526	19.0	182	12.6	128	4.7
– 76% to 90%	294	9.2	211	1.9	49	14.3
– 91% to 100%	482	11.6	41	14.6	82	4.9
Partially collateralised (C):	2,847	35.5	553	23.1	592	26.4
– collateral value on C	1,619		337		322	
<b>Total</b>	<b>12,638</b>	<b>41.7</b>	<b>3,931</b>	<b>24.7</b>	<b>1,799</b>	<b>41.6</b>
<b>POCI</b>						
Not collateralised	211	39.8	54	63.0	1	–
Fully collateralised	63	41.3	–	–	45	51.1
LTV ratio:						
– less than 50%	6	50.0	–	–	–	–
– 51% to 75%	11	9.1	–	–	11	9.1
– 76% to 90%	34	64.7	–	–	34	64.7
– 91% to 100%	12	–	–	–	–	–
Partially collateralised (D):	4	75.0	–	–	–	–
– collateral value on D	4		–		–	
<b>Total</b>	<b>278</b>	<b>40.6</b>	<b>54</b>	<b>63.0</b>	<b>46</b>	<b>50.0</b>
<b>At 31 Dec 2020</b>	<b>967,469</b>	<b>1.0</b>	<b>212,327</b>	<b>1.3</b>	<b>194,635</b>	<b>0.6</b>

## Risk

### Wholesale lending – other corporate, commercial and financial (non-bank) loans and advances including loan commitments by level of collateral for key countries/territories (by stage) (continued)

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Stage 1</b>						
Not collateralised	680,079	0.1	132,197	0.2	116,536	–
Fully collateralised	128,290	0.1	40,172	0.1	32,818	0.1
LTV ratio:						
– less than 50%	48,012	0.1	13,831	0.1	11,009	0.1
– 51% to 75%	37,891	0.1	11,903	0.2	12,783	0.1
– 76% to 90%	13,072	0.1	3,399	0.2	4,697	0.1
– 91% to 100%	29,315	–	11,039	–	4,329	0.1
Partially collateralised (A):	52,890	0.1	8,122	0.1	20,162	0.1
– collateral value on A	25,824		3,809		9,616	
Total	861,259	0.1	180,491	0.2	169,516	–
<b>Stage 2</b>						
Not collateralised	61,540	1.2	13,318	2.2	13,308	0.7
Fully collateralised	21,126	0.8	3,139	1.8	12,934	0.6
LTV ratio:						
– less than 50%	7,081	0.9	1,208	2.0	3,845	0.6
– 51% to 75%	8,482	0.9	1,111	1.8	5,580	0.7
– 76% to 90%	2,684	0.9	282	2.1	1,646	0.5
– 91% to 100%	2,879	0.6	538	1.3	1,863	0.2
Partially collateralised (B):	8,463	0.8	1,516	1.4	3,768	0.4
– collateral value on B	3,669		370		1,801	
Total	91,129	1.1	17,973	2.1	30,010	0.6
<b>Stage 3</b>						
Not collateralised	4,768	49.2	1,899	33.0	504	83.5
Fully collateralised	1,479	22.4	494	12.6	86	12.8
LTV ratio:						
– less than 50%	335	35.2	103	17.5	9	33.3
– 51% to 75%	352	24.4	198	8.6	21	4.8
– 76% to 90%	373	23.6	101	20.8	40	7.5
– 91% to 100%	419	9.1	92	7.6	16	25.0
Partially collateralised (C):	1,367	44.8	369	20.1	87	48.3
– collateral value on C	693		192		34	
Total	7,614	43.2	2,762	27.6	677	70.0
<b>POCI</b>						
Not collateralised	223	32.7	32	96.9	7	–
Fully collateralised	28	3.6	–	–	10	–
LTV ratio:						
– less than 50%	2	50.0	–	–	–	–
– 51% to 75%	26	–	–	–	10	–
– 76% to 90%	–	–	–	–	–	–
– 91% to 100%	–	–	–	–	–	–
Partially collateralised (D):	97	33.0	57	1.8	31	90.3
– collateral value on D	57		19		30	
Total	348	30.5	89	36.0	48	58.3
At 31 Dec 2019	960,350	0.5	201,315	0.7	200,251	0.4

Wholesale lending – other corporate, commercial and financial (non-bank) loans and advances including loan commitments by level of collateral for key countries/territories

(Audited)

	Of which:					
	Total	UK		Hong Kong		
		Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m
<b>Rated CRR/PD8</b>						
Not collateralised	3,787	7.1	924	8.7	103	25.2
Fully collateralised	1,107	5.2	171	9.4	15	–
LTV ratio:						
– less than 50%	269	4.1	29	10.3	1	–
– 51% to 75%	480	6.3	87	6.9	–	–
– 76% to 90%	140	5.0	13	23.1	14	–
– 91% to 100%	218	4.1	42	9.5	–	–
Partially collateralised (A):	493	8.1	174	9.2	27	3.7
– collateral value on A	352		83		13	
<b>Total</b>	<b>5,387</b>	<b>6.8</b>	<b>1,269</b>	<b>8.7</b>	<b>145</b>	<b>18.6</b>
<b>Rated CRR/PD9 to 10</b>						
Not collateralised	8,062	49.7	2,847	29.1	865	66.0
Fully collateralised	2,003	18.1	585	7.9	388	11.6
LTV ratio:						
– less than 50%	644	24.2	151	8.6	84	6.0
– 51% to 75%	538	18.8	182	12.6	139	5.0
– 76% to 90%	327	15.0	211	1.9	83	34.9
– 91% to 100%	494	11.3	41	14.6	82	4.9
Partially collateralised (B):	2,851	35.6	553	23.1	592	26.4
– collateral value on B	1,623		337		322	
<b>Total</b>	<b>12,916</b>	<b>41.7</b>	<b>3,985</b>	<b>25.2</b>	<b>1,845</b>	<b>41.8</b>
<b>At 31 Dec 2020</b>	<b>18,303</b>	<b>31.4</b>	<b>5,254</b>	<b>21.2</b>	<b>1,990</b>	<b>40.2</b>
Rated CRR/PD8						
Not collateralised	2,499	5.8	285	13.0	10	70.0
Fully collateralised	694	3.3	382	2.6	–	–
LTV ratio:						
– less than 50%	246	2.8	120	1.7	–	–
– 51% to 75%	189	4.2	93	3.2	–	–
– 76% to 90%	97	2.1	42	2.4	–	–
– 91% to 100%	162	3.7	127	3.9	–	–
Partially collateralised (A):	279	4.7	53	5.7	73	2.7
– collateral value on A	152		34		6	
<b>Total</b>	<b>3,472</b>	<b>5.2</b>	<b>720</b>	<b>6.9</b>	<b>83</b>	<b>12.0</b>
Rated CRR/PD9 to 10						
Not collateralised	4,991	48.5	1,930	34.1	510	82.5
Fully collateralised	1,507	22.0	494	12.6	96	11.5
LTV ratio:						
– less than 50%	338	35.2	103	17.5	10	–
– 51% to 75%	377	22.8	198	8.6	30	3.3
– 76% to 90%	373	23.6	101	20.8	40	7.5
– 91% to 100%	419	9.1	92	7.6	16	–
Partially collateralised (B):	1,464	44.0	427	17.6	119	58.8
– collateral value on B	750		211		64	
<b>Total</b>	<b>7,962</b>	<b>42.7</b>	<b>2,851</b>	<b>27.9</b>	<b>725</b>	<b>69.2</b>
<b>At 31 Dec 2019</b>	<b>11,434</b>	<b>31.3</b>	<b>3,571</b>	<b>23.7</b>	<b>808</b>	<b>63.4</b>

Other credit risk exposures

In addition to collateralised lending, other credit enhancements are employed and methods used to mitigate credit risk arising from financial assets. These are summarised below:

- Some securities issued by governments, banks and other financial institutions benefit from additional credit enhancements provided by government guarantees that cover the assets.
- Debt securities issued by banks and financial institutions include asset-backed securities ('ABSs') and similar instruments, which are supported by underlying pools of financial assets. Credit risk associated with ABSs is reduced through the purchase of credit default swap ('CDS') protection.
- Trading loans and advances mainly pledged against cash collateral are posted to satisfy margin requirements. There is limited credit risk on cash collateral posted since in the event of

default of the counterparty this would be set off against the related liability. Reverse repos and stock borrowing are by their nature collateralised.

*Collateral accepted as security that the Group is permitted to sell or repledge under these arrangements is described on page 366 of the financial statements.*

- The Group's maximum exposure to credit risk includes financial guarantees and similar contracts granted, as well as loan and other credit-related commitments. Depending on the terms of the arrangement, we may use additional credit mitigation if a guarantee is called upon or a loan commitment is drawn and subsequently defaults.

*For further information on these arrangements, see Note 32 on the financial statements.*

## Risk

### Derivatives

We participate in transactions exposing us to counterparty credit risk. Counterparty credit risk is the risk of financial loss if the counterparty to a transaction defaults before satisfactorily settling it. It arises principally from over-the-counter ('OTC') derivatives and securities financing transactions and is calculated in both the trading and non-trading books. Transactions vary in value by reference to a market factor such as an interest rate, exchange rate or asset price.

The counterparty risk from derivative transactions is taken into account when reporting the fair value of derivative positions. The adjustment to the fair value is known as the credit valuation adjustment ('CVA').

*For an analysis of CVAs, see Note 12 on the financial statements.*

The following table reflects by risk type the fair values and gross notional contract amounts of derivatives cleared through an exchange, central counterparty or non-central counterparty.

### Notional contract amounts and fair values of derivatives

	2020			2019		
	Notional amount	Fair value		Notional amount	Fair value	
		Assets	Liabilities		Assets	Liabilities
	\$m	\$m	\$m	\$m	\$m	\$m
<b>Total OTC derivatives</b>	<b>22,749,280</b>	<b>372,373</b>	<b>368,010</b>	26,244,531	282,778	279,101
– total OTC derivatives cleared by central counterparties	9,898,260	74,054	75,253	12,563,343	45,140	46,351
– total OTC derivatives not cleared by central counterparties	12,851,020	298,319	292,757	13,681,188	237,638	232,750
Total exchange traded derivatives	1,332,438	4,456	4,094	1,583,590	1,956	2,135
<b>Gross</b>	<b>24,081,718</b>	<b>376,829</b>	<b>372,104</b>	27,828,121	284,734	281,236
Offset		(69,103)	(69,103)		(41,739)	(41,739)
<b>At 31 Dec</b>		<b>307,726</b>	<b>303,001</b>		242,995	239,497

*The purposes for which HSBC uses derivatives are described in Note 15 on the financial statements.*

The International Swaps and Derivatives Association ('ISDA') master agreement is our preferred agreement for documenting derivatives activity. It is common, and our preferred practice, for the parties involved in a derivative transaction to execute a credit support annex ('CSA') in conjunction with the ISDA master agreement. Under a CSA, collateral is passed between the parties to mitigate the counterparty risk inherent in outstanding positions. The majority of our CSAs are with financial institutional clients.

We manage the counterparty exposure on our OTC derivative contracts by using collateral agreements with counterparties and netting agreements. Currently, we do not actively manage our general OTC derivative counterparty exposure in the credit markets, although we may manage individual exposures in certain circumstances.

We place strict policy restrictions on collateral types and as a consequence the types of collateral received and pledged are, by value, highly liquid and of a strong quality, being predominantly cash.

Where a collateral type is required to be approved outside the collateral policy, approval is required from a committee of senior representatives from Markets, Legal and Risk.

*See page 387 and Note 30 on the financial statements for details regarding legally enforceable right of offset in the event of counterparty default and collateral received in respect of derivatives.*

### Personal lending

This section presents further disclosures related to personal lending. It provides details of the regions, countries and products that are driving the change observed in personal loans and advances to customers, with the impact of foreign exchange separately identified. Additionally, Hong Kong and UK mortgage book LTV data is provided.

This section also provides a reconciliation of the opening 1 January 2020 to 31 December 2020 closing gross carrying/nominal amounts and associated allowance for ECL.

Further product granularity is also provided by stage, with geographical data presented for loans and advances to customers, loan and other credit-related commitments and financial guarantees.

At 31 December 2020, total personal lending for loans and advances to customers of \$461bn increased by \$26.5bn compared with 31 December 2019. This increase included favourable foreign exchange movements of \$11.5bn. Excluding foreign exchange movements, there was growth of \$15.1bn, primarily driven by \$10.1bn in Europe and \$3.4bn in Asia. The allowance for ECL attributable to personal lending, excluding off-balance sheet loan

commitments and guarantees, and foreign exchange movements, increased \$1.6bn to \$4.7bn at 31 December 2020.

Excluding foreign exchange movements, total personal lending was primarily driven by mortgage growth, which grew by \$21.5bn. Mortgages grew \$12.3bn in the UK; \$6.4bn in Asia, notably \$4.7bn in Hong Kong and \$1.6bn in Australia; and \$1.8bn in Canada. The allowance for ECL, excluding foreign exchange, attributable to mortgages of \$0.8bn increased \$0.2bn compared with 31 December 2019.

The quality of both our Hong Kong and UK mortgage books remained high, with low levels of impairment allowances. The average LTV ratio on new mortgage lending in Hong Kong was 61%, compared with an estimated 45% for the overall mortgage portfolio. The average LTV ratio on new lending in the UK was 70%, compared with an estimated 51% for the overall mortgage portfolio.

Excluding foreign exchange movements, other personal lending balances at 31 December 2020 declined by \$6.5bn compared with 31 December 2019. The decline was attributable to a \$3.8bn decline in credit cards and a \$2.4bn decline in loans and overdrafts.

The \$3.8bn decrease in credit card lending was attributable to declines of \$2.1bn in the UK, \$0.5bn in Hong Kong and \$0.3bn in the US. The \$2.4bn decrease in loans and overdrafts was attributable to declines of \$1.1bn in Hong Kong, \$1.4bn in the UK, \$0.5bn in Singapore and \$0.3bn in MENA. These declines were partly offset by growth of \$1bn in France, primarily in other personal lending guaranteed by Crédit Logement and \$0.5bn in Switzerland.

The allowance for ECL, excluding foreign exchange, attributable to other personal lending of \$4.0bn increased \$1.4bn compared with 31 December 2019. Excluding foreign exchange, the allowance for ECL attributable to credit cards increased by \$0.7bn while loans and overdrafts increased by \$0.7bn.



Total personal lending for loans and advances to customers at amortised cost by stage distribution

	Gross carrying amount				Allowance for ECL			
	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m
<b>By portfolio</b>								
First lien residential mortgages	336,666	12,233	3,383	352,282	(125)	(188)	(442)	(755)
– of which: interest only (including offset)	29,143	3,074	351	32,568	(9)	(19)	(88)	(116)
– affordability (including US adjustable rate mortgages)	13,265	2,209	606	16,080	(11)	(11)	(5)	(27)
Other personal lending	93,468	12,831	2,228	108,527	(702)	(2,214)	(1,060)	(3,976)
– other	74,174	7,288	1,489	82,951	(305)	(914)	(665)	(1,884)
– credit cards	17,327	5,292	680	23,299	(386)	(1,281)	(380)	(2,047)
– second lien residential mortgages	593	100	51	744	(3)	(9)	(10)	(22)
– motor vehicle finance	1,374	151	8	1,533	(8)	(10)	(5)	(23)
<b>At 31 Dec 2020</b>	<b>430,134</b>	<b>25,064</b>	<b>5,611</b>	<b>460,809</b>	<b>(827)</b>	<b>(2,402)</b>	<b>(1,502)</b>	<b>(4,731)</b>
<b>By geography</b>								
Europe	200,120	11,032	2,511	213,663	(247)	(1,271)	(826)	(2,344)
– of which: UK	163,338	9,476	1,721	174,535	(223)	(1,230)	(545)	(1,998)
Asia	178,175	7,969	1,169	187,313	(234)	(446)	(241)	(921)
– of which: Hong Kong	118,252	5,133	206	123,591	(102)	(237)	(48)	(387)
MENA	4,879	403	251	5,533	(54)	(112)	(152)	(318)
North America	40,387	4,613	1,378	46,378	(93)	(200)	(132)	(425)
Latin America	6,573	1,047	302	7,922	(199)	(373)	(151)	(723)
<b>At 31 Dec 2020</b>	<b>430,134</b>	<b>25,064</b>	<b>5,611</b>	<b>460,809</b>	<b>(827)</b>	<b>(2,402)</b>	<b>(1,502)</b>	<b>(4,731)</b>

Total personal lending for loans and other credit-related commitments and financial guarantees by stage distribution

	Nominal amount				Allowance for ECL			
	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m
Europe	56,920	719	96	57,735	(22)	(2)	–	(24)
– of which: UK	54,348	435	92	54,875	(21)	(2)	–	(23)
Asia	156,057	790	11	156,858	–	–	–	–
– of which: Hong Kong	118,529	10	10	118,549	–	–	–	–
MENA	2,935	46	8	2,989	(1)	–	–	(1)
North America	15,835	124	38	15,997	(11)	–	–	(11)
Latin America	3,462	28	1	3,491	(5)	–	–	(5)
<b>At 31 Dec 2020</b>	<b>235,209</b>	<b>1,707</b>	<b>154</b>	<b>237,070</b>	<b>(39)</b>	<b>(2)</b>	<b>–</b>	<b>(41)</b>

Total personal lending for loans and advances to customers at amortised cost by stage distribution (continued)

	Gross carrying amount				Allowance for ECL			
	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m
<b>By portfolio</b>								
First lien residential mortgages	312,031	7,077	3,070	322,178	(39)	(68)	(422)	(529)
– of which: interest only (including offset)	31,201	1,602	376	33,179	(6)	(15)	(91)	(112)
– affordability (including US adjustable rate mortgages)	14,222	796	514	15,532	(3)	(3)	(3)	(9)
Other personal lending	101,638	8,674	1,781	112,093	(544)	(1,268)	(793)	(2,605)
– other	77,031	4,575	1,193	82,799	(229)	(451)	(491)	(1,171)
– credit cards	22,285	3,959	524	26,768	(310)	(801)	(284)	(1,395)
– second lien residential mortgages	750	84	55	889	(1)	(6)	(10)	(17)
– motor vehicle finance	1,572	56	9	1,637	(4)	(10)	(8)	(22)
<b>At 31 Dec 2019</b>	<b>413,669</b>	<b>15,751</b>	<b>4,851</b>	<b>434,271</b>	<b>(583)</b>	<b>(1,336)</b>	<b>(1,215)</b>	<b>(3,134)</b>
<b>By geography</b>								
Europe	186,561	6,854	2,335	195,750	(112)	(538)	(578)	(1,228)
– of which: UK	153,313	5,455	1,612	160,380	(104)	(513)	(370)	(987)
Asia	173,523	5,855	717	180,095	(223)	(339)	(170)	(732)
– of which: Hong Kong	117,013	2,751	189	119,953	(90)	(220)	(44)	(354)
MENA	5,671	247	299	6,217	(50)	(58)	(189)	(297)
North America	41,148	1,930	1,238	44,316	(56)	(119)	(141)	(316)
Latin America	6,766	865	262	7,893	(142)	(282)	(137)	(561)
<b>At 31 Dec 2019</b>	<b>413,669</b>	<b>15,751</b>	<b>4,851</b>	<b>434,271</b>	<b>(583)</b>	<b>(1,336)</b>	<b>(1,215)</b>	<b>(3,134)</b>

## Risk

### Total personal lending for loans and other credit-related commitments and financial guarantees by stage distribution (continued)

	Nominal amount				Allowance for ECL			
	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	Total \$m
Europe	51,575	604	110	52,289	(10)	(2)	—	(12)
– of which: UK	49,322	493	105	49,920	(8)	(1)	—	(9)
Asia	149,336	682	9	150,027	—	—	—	—
– of which: Hong Kong	115,025	27	3	115,055	—	—	—	—
MENA	3,150	46	53	3,249	—	—	—	—
North America	13,919	256	20	14,195	(1)	—	—	(1)
Latin America	4,312	43	3	4,358	(3)	—	—	(3)
At 31 Dec 2019	222,292	1,631	195	224,118	(14)	(2)	—	(16)

### Exposure to UK interest-only mortgage loans

The following information is presented for HSBC branded UK interest-only mortgage loans with balances of \$15.0bn. This excludes offset mortgages in the first direct brand and Private Bank mortgages.

At the end of 2020, the average LTV ratio in the portfolio was 41% and 99% of mortgages had an LTV ratio of 75% or less.

Of the interest-only mortgages that expired in 2018, 89% were repaid within 12 months of expiry with a total of 98% being repaid within 24 months of expiry. For interest-only mortgages expiring during 2019, 89% were fully repaid within 12 months of expiry.

The profile of maturing UK interest-only loans is as follows:

### UK interest-only mortgage loans

	\$m
Expired interest-only mortgage loans	169
<b>Interest-only mortgage loans by maturity</b>	
– 2021	356
– 2022	392
– 2023	500
– 2024	407
– 2025–2029	3,317
– Post 2029	9,914
<b>At 31 Dec 2020</b>	<b>15,055</b>

### Exposure to offset mortgage in first direct

The offset mortgage in first direct is a flexible way for our customers to take control of their finances. It works by grouping together the customer's mortgage, savings and current accounts

to off-set their credit and debit balances against their mortgage exposure which at the end of 2020 is of \$8.6bn with an average LTV ratio of 37%.

### Personal lending – reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to customers including loan commitments and financial guarantees

(Audited)

	Non-credit impaired				Credit impaired		Total	
	Stage 1		Stage 2		Stage 3			
	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m
<b>At 1 Jan 2020</b>	<b>635,961</b>	<b>(597)</b>	<b>17,382</b>	<b>(1,338)</b>	<b>5,046</b>	<b>(1,215)</b>	<b>658,389</b>	<b>(3,150)</b>
Transfers of financial instruments	(16,019)	(629)	13,370	1,181	2,649	(552)	—	—
Net remeasurement of ECL arising from transfer of stage	—	431	—	(555)	—	(8)	—	(132)
Net new and further lending/repayments	30,891	101	(5,407)	408	(677)	150	24,807	659
Change in risk parameters – credit quality	—	(147)	—	(2,025)	—	(1,258)	—	(3,430)
Changes to models used for ECL calculation	—	(3)	—	(9)	—	5	—	(7)
Assets written off	—	—	—	—	(1,409)	1,407	(1,409)	1,407
Foreign exchange and other	14,513	(22)	1,425	(67)	153	(32)	16,091	(121)
<b>At 31 Dec 2020</b>	<b>665,346</b>	<b>(866)</b>	<b>26,770</b>	<b>(2,405)</b>	<b>5,762</b>	<b>(1,503)</b>	<b>697,878</b>	<b>(4,774)</b>
ECL income statement change for the period		382		(2,181)		(1,111)		(2,910)
Recoveries								280
Other								(25)
<b>Total ECL income statement change for the period</b>								<b>(2,655)</b>

As shown in the above table, the allowance for ECL for loans and advances to customers and banks and relevant loan commitments and financial guarantees increased \$1,624m during the period from \$3,150m at 31 December 2019 to \$4,774m at 31 December 2020.

This increase was primarily driven by:

- \$3,430m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stages;

- \$132m relating to the net remeasurement impact of stage transfers;
- foreign exchange and other movements of \$121m; and
- \$7m due to changes to models used for ECL calculation.

These were partly offset by:

- \$1,407m of assets written off;
- \$659m relating to volume movements, which included the ECL allowance associated with new originations, assets derecognised and further lending/repayments.

The ECL charge for the period of \$2,910m presented in the above table consisted of \$3,430m relating to underlying credit quality changes, including the credit quality impact of financial instruments transferring between stages, \$132m relating to the

net remeasurement impact of stage transfers and \$7m in changes to models used for ECL calculation. This was partly offset by \$659m relating to underlying net book volume movements.

**Personal lending – reconciliation of changes in gross carrying/nominal amount and allowances for loans and advances to customers including loan commitments and financial guarantees (continued)**

(Audited)

	Non-credit impaired				Credit impaired		Total	
	Stage 1		Stage 2		Stage 3			
	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m	Gross carrying/nominal amount \$m	Allowance for ECL \$m
At 1 Jan 2019	580,784	(547)	16,838	(1,266)	4,993	(1,148)	602,615	(2,961)
Transfers of financial instruments	(4,751)	(374)	2,645	858	2,106	(484)	–	–
Net remeasurement of ECL arising from transfer of stage	–	446	–	(408)	–	(76)	–	(38)
Net new and further lending/repayments	50,946	3	(2,348)	453	(758)	281	47,840	737
Change in risk parameters – credit quality	–	(100)	–	(1,015)	–	(1,190)	–	(2,305)
Changes to models used for ECL calculation	–	(6)	–	60	–	14	–	68
Assets written off	–	–	–	–	(1,345)	1,345	(1,345)	1,345
Foreign exchange and other	8,982	(19)	247	(20)	50	43	9,279	4
At 31 Dec 2019	635,961	(597)	17,382	(1,338)	5,046	(1,215)	658,389	(3,150)
ECL income statement change for the period		343		(910)		(971)		(1,538)
Recoveries								314
Other								4
Total ECL income statement change for the period								(1,220)

**Personal lending – credit risk profile by internal PD band for loans and advances to customers at amortised cost**

	PD range <sup>1</sup> %	Gross carrying amount				Allowance for ECL				ECL coverage %
		Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3	Total	
		\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
<b>First lien residential mortgages</b>		<b>336,666</b>	<b>12,233</b>	<b>3,383</b>	<b>352,282</b>	<b>(125)</b>	<b>(188)</b>	<b>(442)</b>	<b>(755)</b>	<b>0.2</b>
– Band 1	0.000 to 0.250	284,252	1,283	–	285,535	(36)	(3)	–	(39)	–
– Band 2	0.251 to 0.500	16,259	302	–	16,561	(9)	(3)	–	(12)	0.1
– Band 3	0.501 to 1.500	27,055	1,755	–	28,810	(64)	(8)	–	(72)	0.2
– Band 4	1.501 to 5.000	8,858	5,134	–	13,992	(15)	(32)	–	(47)	0.3
– Band 5	5.001 to 20.000	238	1,806	–	2,044	(1)	(41)	–	(42)	2.1
– Band 6	20.001 to 99.999	4	1,953	–	1,957	–	(101)	–	(101)	5.2
– Band 7	100.000	–	–	3,383	3,383	–	–	(442)	(442)	13.1
<b>Other personal lending</b>		<b>93,468</b>	<b>12,831</b>	<b>2,228</b>	<b>108,527</b>	<b>(702)</b>	<b>(2,214)</b>	<b>(1,060)</b>	<b>(3,976)</b>	<b>3.7</b>
– Band 1	0.000 to 0.250	41,565	589	–	42,154	(96)	(8)	–	(104)	0.2
– Band 2	0.251 to 0.500	13,053	518	–	13,571	(31)	(63)	–	(94)	0.7
– Band 3	0.501 to 1.500	23,802	1,280	–	25,082	(108)	(37)	–	(145)	0.6
– Band 4	1.501 to 5.000	11,787	2,175	–	13,962	(270)	(112)	–	(382)	2.7
– Band 5	5.001 to 20.000	3,234	5,288	–	8,522	(197)	(821)	–	(1,018)	11.9
– Band 6	20.001 to 99.999	27	2,981	–	3,008	–	(1,173)	–	(1,173)	39.0
– Band 7	100.000	–	–	2,228	2,228	–	–	(1,060)	(1,060)	47.6
<b>At 31 Dec 2020</b>		<b>430,134</b>	<b>25,064</b>	<b>5,611</b>	<b>460,809</b>	<b>(827)</b>	<b>(2,402)</b>	<b>(1,502)</b>	<b>(4,731)</b>	<b>1.0</b>

First lien residential mortgages		312,031	7,077	3,070	322,178	(39)	(68)	(422)	(529)	0.2
– Band 1	0.000 to 0.250	268,490	284	–	268,774	(16)	–	–	(16)	–
– Band 2	0.251 to 0.500	22,293	301	–	22,594	(4)	–	–	(4)	–
– Band 3	0.501 to 1.500	17,247	2,313	–	19,560	(13)	(3)	–	(16)	0.1
– Band 4	1.501 to 5.000	3,796	1,970	–	5,766	(5)	(7)	–	(12)	0.2
– Band 5	5.001 to 20.000	198	1,383	–	1,581	(1)	(23)	–	(24)	1.5
– Band 6	20.001 to 99.999	7	826	–	833	–	(35)	–	(35)	4.2
– Band 7	100.000	–	–	3,070	3,070	–	–	(422)	(422)	13.7
<b>Other personal lending</b>		<b>101,638</b>	<b>8,674</b>	<b>1,781</b>	<b>112,093</b>	<b>(544)</b>	<b>(1,268)</b>	<b>(793)</b>	<b>(2,605)</b>	<b>2.3</b>
– Band 1	0.000 to 0.250	46,533	60	–	46,593	(120)	–	–	(120)	0.3
– Band 2	0.251 to 0.500	16,435	65	–	16,500	(38)	(26)	–	(64)	0.4
– Band 3	0.501 to 1.500	25,160	317	–	25,477	(110)	(13)	–	(123)	0.5
– Band 4	1.501 to 5.000	10,951	3,483	–	14,434	(144)	(329)	–	(473)	3.3
– Band 5	5.001 to 20.000	2,421	3,434	–	5,855	(132)	(440)	–	(572)	9.8
– Band 6	20.001 to 99.999	138	1,315	–	1,453	–	(460)	–	(460)	31.7
– Band 7	100.000	–	–	1,781	1,781	–	–	(793)	(793)	44.5
At 31 Dec 2019		413,669	15,751	4,851	434,271	(583)	(1,336)	(1,215)	(3,134)	0.7

1 12-month point in time adjusted for multiple economic scenarios.

## Risk

### Collateral on loans and advances

(Audited)

The following table provides a quantification of the value of fixed charges we hold over specific assets where we have a history of enforcing, and are able to enforce, collateral in satisfying a debt in the event of the borrower failing to meet its contractual

obligations, and where the collateral is cash or can be realised by sale in an established market. The collateral valuation excludes any adjustments for obtaining and selling the collateral and, in particular, loans shown as not collateralised or partially collateralised may also benefit from other forms of credit mitigants.

### Personal lending – residential mortgage loans including loan commitments by level of collateral for key countries/territories by stage

(Audited)

	Total		Of which:			
			UK		Hong Kong	
	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %
<b>Stage 1</b>						
Fully collateralised	354,102	–	159,562	–	90,733	–
LTV ratio:						
– less than 50%	174,370	–	76,535	–	54,866	–
– 51% to 60%	60,180	–	23,967	–	14,253	–
– 61% to 70%	48,159	–	23,381	–	6,042	–
– 71% to 80%	40,395	0.1	20,846	–	4,288	–
– 81% to 90%	23,339	0.1	12,936	–	6,837	–
– 91% to 100%	7,659	0.1	1,897	0.1	4,447	–
Partially collateralised (A):	973	0.4	289	–	336	–
LTV ratio:						
– 101% to 110%	592	0.4	84	–	334	–
– 111% to 120%	101	0.5	45	–	–	–
– greater than 120%	280	0.3	160	–	2	–
– collateral value on A	847		212		328	
<b>Total</b>	<b>355,075</b>	<b>–</b>	<b>159,851</b>	<b>–</b>	<b>91,069</b>	<b>–</b>
<b>Stage 2</b>						
Fully collateralised	12,252	1.5	4,229	1.4	1,802	–
LTV ratio:						
– less than 50%	6,694	1.1	2,442	1.2	1,256	–
– 51% to 60%	2,223	1.1	730	1.3	253	–
– 61% to 70%	1,779	1.6	606	1.3	83	–
– 71% to 80%	987	2.8	244	2.9	111	–
– 81% to 90%	400	4.9	139	3.6	60	–
– 91% to 100%	169	5.7	68	3.3	39	–
Partially collateralised (B):	53	13.6	4	3.3	9	–
LTV ratio:						
– 101% to 110%	28	11.9	3	1.5	9	–
– 111% to 120%	9	16.8	–	–	–	–
– greater than 120%	16	14.8	1	8.5	–	–
– collateral value on B	47		4		9	
<b>Total</b>	<b>12,305</b>	<b>1.5</b>	<b>4,233</b>	<b>1.4</b>	<b>1,811</b>	<b>–</b>
<b>Stage 3</b>						
Fully collateralised	3,083	9.8	1,050	12.3	63	–
LTV ratio:						
– less than 50%	1,472	8.0	676	10.9	53	–
– 51% to 60%	505	8.7	144	15.1	6	–
– 61% to 70%	435	9.2	112	12.9	–	–
– 71% to 80%	378	11.5	81	13.7	2	–
– 81% to 90%	195	17.3	28	22.4	2	–
– 91% to 100%	98	24.3	9	17.8	–	–
Partially collateralised (C):	328	42.7	17	22.9	–	–
LTV ratio:						
– 101% to 110%	75	30.4	9	16.7	–	–
– 111% to 120%	56	38.8	5	17.6	–	–
– greater than 120%	197	48.5	3	50.3	–	–
– collateral value on C	228		10		1	
<b>Total</b>	<b>3,411</b>	<b>13.0</b>	<b>1,067</b>	<b>12.5</b>	<b>63</b>	<b>–</b>
<b>At 31 Dec 2020</b>	<b>370,791</b>	<b>0.2</b>	<b>165,151</b>	<b>0.1</b>	<b>92,943</b>	<b>–</b>

Personal lending – residential mortgage loans including loan commitments by level of collateral for key countries/territories by stage (continued)

(Audited)

	Of which:					
	Total	UK		Hong Kong		
		Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m	ECL coverage %	Gross carrying/ nominal amount \$m
<b>Stage 1</b>						
Fully collateralised	326,510	–	143,772	–	86,049	–
LTV ratio:						
– less than 50%	168,923	–	70,315	–	57,043	–
– 51% to 60%	55,287	–	21,898	–	13,169	–
– 61% to 70%	44,208	–	19,903	–	6,478	–
– 71% to 80%	33,049	–	17,649	–	3,195	–
– 81% to 90%	18,157	–	11,127	–	3,685	–
– 91% to 100%	6,886	–	2,880	–	2,479	–
Partially collateralised (A):	1,384	0.1	326	–	284	–
LTV ratio:						
– 101% to 110%	843	0.1	89	–	281	–
– 111% to 120%	195	0.2	48	–	1	–
– greater than 120%	346	0.1	189	–	2	–
– collateral value on A	1,232		232		279	
Total	327,894	–	144,098	–	86,333	–
<b>Stage 2</b>						
Fully collateralised	7,087	0.9	1,941	1.0	1,116	–
LTV ratio:						
– less than 50%	3,781	0.5	1,146	0.7	892	–
– 51% to 60%	923	1.1	233	1.5	95	–
– 61% to 70%	909	1.2	262	1.2	59	–
– 71% to 80%	894	1.1	231	1.0	32	–
– 81% to 90%	425	1.6	36	2.9	25	–
– 91% to 100%	155	4.4	33	1.8	13	–
Partially collateralised (B):	76	7.2	23	1.8	1	–
LTV ratio:						
– 101% to 110%	45	5.4	20	1.5	1	–
– 111% to 120%	10	11.1	1	4.8	–	–
– greater than 120%	21	9.0	2	3.0	–	–
– collateral value on B	69		20		1	
Total	7,163	1.0	1,964	1.0	1,117	–
<b>Stage 3</b>						
Fully collateralised	2,725	9.0	1,177	9.9	44	0.5
LTV ratio:						
– less than 50%	1,337	7.1	711	7.8	39	0.5
– 51% to 60%	410	7.0	159	10.0	3	0.2
– 61% to 70%	358	7.9	136	10.6	–	–
– 71% to 80%	309	13.4	100	18.9	1	–
– 81% to 90%	178	13.8	47	12.3	1	–
– 91% to 100%	133	21.8	24	26.3	–	–
Partially collateralised (C):	371	47.6	25	27.3	–	–
LTV ratio:						
– 101% to 110%	97	36.4	11	19.1	–	–
– 111% to 120%	62	37.8	6	22.7	–	–
– greater than 120%	212	55.6	8	42.0	–	–
– collateral value on C	305		24		–	
Total	3,096	13.7	1,202	10.3	44	0.5
At 31 Dec 2019	338,153	0.2	147,264	0.1	87,494	–

## Risk

### Supplementary information

#### Wholesale lending – loans and advances to customers at amortised cost by country/territory

	Gross carrying amount				Allowance for ECL			
	Corporate and commercial	Of which: real estate <sup>1</sup>	Non-bank financial institutions	Total	Corporate and commercial	Of which: real estate <sup>1</sup>	Non-bank financial institutions	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Europe	179,104	26,505	22,176	201,280	(3,918)	(632)	(185)	(4,103)
– UK	128,933	18,890	16,165	145,098	(2,958)	(574)	(147)	(3,105)
– France	32,278	5,740	3,557	35,835	(645)	(40)	(26)	(671)
– Germany	8,309	364	1,156	9,465	(125)	–	(3)	(128)
– Switzerland	1,489	576	513	2,002	(14)	–	–	(14)
– other	8,095	935	785	8,880	(176)	(18)	(9)	(185)
Asia	257,942	82,359	31,637	289,579	(2,766)	(162)	(38)	(2,804)
– Hong Kong	162,039	64,216	18,406	180,445	(1,180)	(83)	(15)	(1,195)
– Australia	9,769	1,813	1,348	11,117	(95)	(2)	–	(95)
– India	7,223	1,951	3,075	10,298	(90)	(18)	(4)	(94)
– Indonesia	3,699	81	246	3,945	(229)	(2)	0	(229)
– mainland China	28,443	6,251	7,128	35,571	(187)	(23)	(18)	(205)
– Malaysia	7,228	1,968	123	7,351	(86)	(27)	–	(86)
– Singapore	18,859	4,637	362	19,221	(782)	(2)	–	(782)
– Taiwan	6,115	50	60	6,175	0	–	–	0
– other	14,567	1,392	889	15,456	(117)	(5)	(1)	(118)
Middle East and North Africa (excluding Saudi Arabia)	24,625	1,839	379	25,004	(1,512)	(187)	(9)	(1,521)
– Egypt	2,162	37	13	2,175	(157)	(7)	(3)	(160)
– UAE	13,485	1,690	170	13,655	(1,019)	(176)	(2)	(1,021)
– other	8,978	112	196	9,174	(336)	(4)	(4)	(340)
North America	53,386	14,491	9,292	62,678	(637)	(73)	(23)	(660)
– US	30,425	7,722	7,708	38,133	(367)	(38)	(3)	(370)
– Canada	22,361	6,645	1,440	23,801	(243)	(27)	(9)	(252)
– other	600	124	144	744	(27)	(8)	(11)	(38)
Latin America	12,031	1,833	1,096	13,127	(661)	(113)	(10)	(671)
– Mexico	10,244	1,832	1,083	11,327	(589)	(113)	(10)	(599)
– other	1,787	1	13	1,800	(72)	–	–	(72)
<b>At 31 Dec 2020</b>	<b>527,088</b>	<b>127,027</b>	<b>64,580</b>	<b>591,668</b>	<b>(9,494)</b>	<b>(1,167)</b>	<b>(265)</b>	<b>(9,759)</b>
Europe	175,215	26,587	26,497	201,712	(2,304)	(354)	(81)	(2,385)
– UK	126,760	18,941	18,545	145,305	(1,629)	(303)	(26)	(1,655)
– France	27,885	5,643	4,899	32,784	(423)	(28)	(52)	(475)
– Germany	9,771	390	1,743	11,514	(60)	–	–	(60)
– Switzerland	1,535	554	406	1,941	(1)	–	–	(1)
– other	9,264	1,059	904	10,168	(191)	(23)	(3)	(194)
Asia	267,709	85,556	32,157	299,866	(1,449)	(94)	(52)	(1,501)
– Hong Kong	168,380	67,856	19,776	188,156	(750)	(51)	(40)	(790)
– Australia	11,428	1,993	1,743	13,171	(70)	(3)	–	(70)
– India	6,657	1,565	2,622	9,279	(49)	(3)	(1)	(50)
– Indonesia	4,346	63	353	4,699	(222)	(1)	(2)	(224)
– mainland China	26,594	5,304	5,911	32,505	(198)	(29)	(8)	(206)
– Malaysia	6,914	1,597	230	7,144	(40)	(2)	–	(40)
– Singapore	19,986	5,235	618	20,604	(60)	(2)	–	(60)
– Taiwan	6,384	28	82	6,466	(2)	–	–	(2)
– other	17,020	1,915	822	17,842	(58)	(3)	(1)	(59)
Middle East and North Africa (excluding Saudi Arabia)	23,447	1,816	288	23,735	(1,087)	(181)	(13)	(1,100)
– Egypt	1,889	35	16	1,905	(132)	–	(3)	(135)
– UAE	13,697	1,695	122	13,819	(683)	(179)	(7)	(690)
– other	7,861	86	150	8,011	(272)	(2)	(3)	(275)
North America	59,680	15,128	10,078	69,758	(274)	(43)	(11)	(285)
– US	34,477	8,282	8,975	43,452	(116)	(14)	(2)	(118)
– Canada	24,427	6,556	979	25,406	(136)	(10)	(4)	(140)
– other	776	290	124	900	(22)	(19)	(5)	(27)
Latin America	14,448	1,665	1,685	16,133	(324)	(8)	(3)	(327)
– Mexico	12,352	1,664	1,625	13,977	(221)	(8)	(3)	(224)
– other	2,096	1	60	2,156	(103)	–	–	(103)
<b>At 31 Dec 2019</b>	<b>540,499</b>	<b>130,752</b>	<b>70,705</b>	<b>611,204</b>	<b>(5,438)</b>	<b>(680)</b>	<b>(160)</b>	<b>(5,598)</b>

<sup>1</sup> Real estate lending within this disclosure corresponds solely to the industry of the borrower. Commercial real estate on page 192 includes borrowers in multiple industries investing in income-producing assets and to a lesser extent, their construction and development.

Personal lending – loans and advances to customers at amortised cost by country/territory

	Gross carrying amount				Allowance for ECL			
	First lien residential mortgages	Other personal	Of which: credit cards	Total	First lien residential mortgages	Other personal	Of which: credit cards	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Europe	162,630	51,033	8,471	213,663	(364)	(1,980)	(859)	(2,344)
– UK	154,839	19,696	8,064	174,535	(236)	(1,762)	(852)	(1,998)
– France <sup>1</sup>	3,623	23,982	358	27,605	(43)	(120)	(5)	(163)
– Germany	–	368	–	368	–	–	–	–
– Switzerland	1,195	6,641	–	7,836	–	(79)	–	(79)
– other	2,973	346	49	3,319	(85)	(19)	(2)	(104)
Asia	141,581	45,732	11,186	187,313	(80)	(841)	(563)	(921)
– Hong Kong	91,997	31,594	7,573	123,591	–	(387)	(265)	(387)
– Australia	20,320	602	514	20,922	(12)	(47)	(45)	(59)
– India	933	544	215	1,477	(9)	(45)	(34)	(54)
– Indonesia	71	288	167	359	–	(37)	(26)	(37)
– mainland China	9,679	1,155	644	10,834	(6)	(81)	(73)	(87)
– Malaysia	2,797	2,964	841	5,761	(41)	(102)	(35)	(143)
– Singapore	7,394	6,537	375	13,931	–	(55)	(17)	(55)
– Taiwan	5,407	1,069	277	6,476	–	(15)	(5)	(15)
– other	2,983	979	580	3,962	(12)	(72)	(63)	(84)
Middle East and North Africa (excluding Saudi Arabia)	2,192	3,341	863	5,533	(43)	(275)	(142)	(318)
– Egypt	–	360	89	360	–	(8)	(3)	(8)
– UAE	1,841	1,158	432	2,999	(37)	(163)	(92)	(200)
– other	351	1,823	342	2,174	(6)	(104)	(47)	(110)
North America	41,826	4,552	1,373	46,378	(159)	(266)	(193)	(425)
– US	18,430	2,141	1,091	20,571	(26)	(226)	(182)	(252)
– Canada	22,241	2,230	244	24,471	(36)	(31)	(10)	(67)
– other	1,155	181	38	1,336	(97)	(9)	(1)	(106)
Latin America	4,053	3,869	1,406	7,922	(109)	(614)	(290)	(723)
– Mexico	3,901	3,351	1,119	7,252	(107)	(578)	(268)	(685)
– other	152	518	287	670	(2)	(36)	(22)	(38)
<b>At 31 Dec 2020</b>	<b>352,282</b>	<b>108,527</b>	<b>23,299</b>	<b>460,809</b>	<b>(755)</b>	<b>(3,976)</b>	<b>(2,047)</b>	<b>(4,731)</b>
Europe	145,382	50,368	10,246	195,750	(266)	(962)	(438)	(1,228)
– UK	137,985	22,395	9,816	160,380	(159)	(828)	(434)	(987)
– France <sup>1</sup>	3,520	21,120	376	24,640	(39)	(101)	(3)	(140)
– Germany	–	325	–	325	–	–	–	–
– Switzerland	1,183	6,165	–	7,348	(6)	(17)	–	(23)
– other	2,694	363	54	3,057	(62)	(16)	(1)	(78)
Asia	131,864	48,231	12,144	180,095	(42)	(690)	(463)	(732)
– Hong Kong	86,892	33,061	8,043	119,953	(1)	(353)	(242)	(354)
– Australia	16,997	693	603	17,690	(5)	(34)	(33)	(39)
– India	1,047	528	219	1,575	(5)	(21)	(15)	(26)
– Indonesia	67	329	204	396	–	(24)	(18)	(24)
– mainland China	8,966	1,190	656	10,156	(2)	(74)	(68)	(76)
– Malaysia	2,840	3,200	980	6,040	(22)	(73)	(33)	(95)
– Singapore	6,687	7,033	452	13,720	(1)	(60)	(19)	(61)
– Taiwan	5,286	1,004	297	6,290	0	(14)	(4)	(14)
– other	3,082	1,193	690	4,275	(6)	(37)	(31)	(43)
Middle East and North Africa (excluding Saudi Arabia)	2,303	3,914	1,042	6,217	(62)	(235)	(111)	(297)
– Egypt	–	346	88	346	–	(3)	(1)	(3)
– UAE	1,920	1,462	517	3,382	(59)	(121)	(54)	(180)
– other	383	2,106	437	2,489	(3)	(111)	(56)	(114)
North America	39,065	5,251	1,742	44,316	(122)	(194)	(142)	(316)
– US	17,870	2,551	1,424	20,421	(8)	(160)	(134)	(168)
– Canada	19,997	2,495	271	22,492	(21)	(25)	(7)	(46)
– other	1,198	205	47	1,403	(93)	(9)	(1)	(102)
Latin America	3,564	4,329	1,594	7,893	(37)	(524)	(241)	(561)
– Mexico	3,419	3,780	1,308	7,199	(31)	(488)	(224)	(519)
– other	145	549	286	694	(6)	(36)	(17)	(42)
<b>At 31 Dec 2019</b>	<b>322,178</b>	<b>112,093</b>	<b>26,768</b>	<b>434,271</b>	<b>(529)</b>	<b>(2,605)</b>	<b>(1,395)</b>	<b>(3,134)</b>

<sup>1</sup> Included in other personal lending at 31 December 2020 is \$20,625m (31 December 2019: \$17,585m) guaranteed by Crédit Logement.

## Risk

### Change in reportable segments

Effective from 30 June 2020, we made the following realignments within our internal reporting:

- We simplified our matrix organisational structure by merging Global Private Banking and Retail Banking and Wealth Management to form Wealth and Personal Banking ('WPB'). As a result, the gross carrying/nominal values and the associated allowance for ECL of Global Private Banking and Retail Banking and Wealth Management have been merged into WPB.

- We reallocated Markets Treasury from Corporate Centre to the global businesses. As a result, Market Treasury's gross carrying/nominal values and the associated allowance for ECL have been transferred from the Corporate Centre into the other global businesses.

Comparative data have been re-presented accordingly. There is no impact upon total gross carrying/nominal values, total allowance for ECL or the staging of financial instruments.

### Summary of financial instruments to which the impairment requirements in IFRS 9 are applied – by global business

	Gross carrying/nominal amount					Allowance for ECL				
	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	POCI \$m	Total \$m	Stage 1 \$m	Stage 2 \$m	Stage 3 \$m	POCI \$m	Total \$m
Loans and advances to customers at amortised cost	869,920	163,185	19,095	277	1,052,477	(1,974)	(4,965)	(7,439)	(112)	(14,490)
– WPB	442,641	25,694	5,753	–	474,088	(854)	(2,458)	(1,590)	–	(4,902)
– CMB	238,517	101,960	10,408	212	351,097	(917)	(2,029)	(4,874)	(96)	(7,916)
– GBM	187,564	35,461	2,934	65	226,024	(203)	(465)	(975)	(16)	(1,659)
– Corporate Centre	1,198	70	–	–	1,268	–	(13)	–	–	(13)
Loans and advances to banks at amortised cost	79,654	2,004	–	–	81,658	(33)	(9)	–	–	(42)
– WPB	16,837	519	–	–	17,356	(2)	(2)	–	–	(4)
– CMB	12,253	222	–	–	12,475	(2)	–	–	–	(2)
– GBM	33,361	1,166	–	–	34,527	(23)	(7)	–	–	(30)
– Corporate Centre	17,203	97	–	–	17,300	(6)	–	–	–	(6)
Other financial assets measured at amortised cost	768,216	3,975	177	40	772,408	(80)	(44)	(42)	(9)	(175)
– WPB	167,053	1,547	50	39	168,689	(41)	(22)	(7)	(9)	(79)
– CMB	111,299	1,716	65	1	113,081	(17)	(19)	(25)	–	(61)
– GBM	391,967	705	56	–	392,728	(22)	(3)	(10)	–	(35)
– Corporate Centre	97,897	7	6	–	97,910	–	–	–	–	–
<b>Total gross carrying amount on-balance sheet at 31 Dec 2020</b>	<b>1,717,790</b>	<b>169,164</b>	<b>19,272</b>	<b>317</b>	<b>1,906,543</b>	<b>(2,087)</b>	<b>(5,018)</b>	<b>(7,481)</b>	<b>(121)</b>	<b>(14,707)</b>
Loans and other credit-related commitments	604,485	54,217	1,080	1	659,783	(290)	(365)	(78)	(1)	(734)
– WPB	232,027	2,591	136	–	234,754	(41)	(2)	–	–	(43)
– CMB	111,800	29,150	779	1	141,730	(157)	(203)	(72)	(1)	(433)
– GBM	260,527	22,476	165	–	283,168	(92)	(160)	(6)	–	(258)
– Corporate Centre	131	–	–	–	131	–	–	–	–	–
Financial guarantees	14,090	4,024	269	1	18,384	(37)	(62)	(26)	–	(125)
– WPB	1,048	23	2	–	1,073	–	–	–	–	–
– CMB	5,556	2,519	146	1	8,222	(19)	(36)	(12)	–	(67)
– GBM	7,482	1,482	121	–	9,085	(17)	(26)	(14)	–	(57)
– Corporate Centre	4	–	–	–	4	(1)	–	–	–	(1)
<b>Total nominal amount off-balance sheet at 31 Dec 2020</b>	<b>618,575</b>	<b>58,241</b>	<b>1,349</b>	<b>2</b>	<b>678,167</b>	<b>(327)</b>	<b>(427)</b>	<b>(104)</b>	<b>(1)</b>	<b>(859)</b>
WPB	159,988	625	154	39	160,806	(27)	(10)	(15)	(8)	(60)
CMB	95,182	313	51	10	95,556	(22)	(3)	(2)	(2)	(29)
GBM	136,909	126	93	–	137,128	(24)	(1)	(3)	–	(28)
Corporate Centre	5,838	389	–	–	6,227	(17)	(6)	(1)	–	(24)
<b>Debt instruments measured at FVOCI at 31 Dec 2020</b>	<b>397,917</b>	<b>1,453</b>	<b>298</b>	<b>49</b>	<b>399,717</b>	<b>(90)</b>	<b>(20)</b>	<b>(21)</b>	<b>(10)</b>	<b>(141)</b>



Summary of financial instruments to which the impairment requirements in IFRS 9 are applied – by global business (continued)<sup>1</sup>

	Gross carrying/nominal amount					Allowance for ECL				
	Stage 1	Stage 2	Stage 3	POCI	Total	Stage 1	Stage 2	Stage 3	POCI	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Loans and advances to customers at amortised cost	951,583	80,182	13,378	332	1,045,475	(1,297)	(2,284)	(5,052)	(99)	(8,732)
– WPB	424,342	16,797	5,131	–	446,270	(602)	(1,330)	(1,312)	–	(3,244)
– CMB	297,364	46,423	6,649	212	350,648	(520)	(765)	(3,190)	(68)	(4,543)
– GBM	228,770	16,934	1,598	120	247,422	(173)	(177)	(550)	(31)	(931)
– Corporate Centre	1,107	28	–	–	1,135	(2)	(12)	–	–	(14)
Loans and advances to banks at amortised cost	67,769	1,450	–	–	69,219	(14)	(2)	–	–	(16)
– WPB	14,636	393	–	–	15,029	(1)	(1)	–	–	(2)
– CMB	8,842	219	–	–	9,061	(2)	–	–	–	(2)
– GBM	30,391	818	–	–	31,209	(9)	(1)	–	–	(10)
– Corporate Centre	13,900	20	–	–	13,920	(2)	–	–	–	(2)
Other financial assets measured at amortised cost	613,200	1,827	151	1	615,179	(38)	(38)	(42)	–	(118)
– WPB	109,423	548	41	–	110,012	(21)	(30)	(5)	–	(56)
– CMB	64,586	904	51	1	65,542	(10)	(7)	(26)	–	(43)
– GBM	361,541	374	37	–	361,952	(7)	(1)	(11)	–	(19)
– Corporate Centre	77,650	1	22	–	77,673	–	–	–	–	–
Total gross carrying amount on-balance sheet at 31 Dec 2019	1,632,552	83,459	13,529	333	1,729,873	(1,349)	(2,324)	(5,094)	(99)	(8,866)
Loans and other credit-related commitments	577,631	21,618	771	9	600,029	(137)	(133)	(59)	–	(329)
– WPB	213,093	1,945	185	–	215,223	(15)	(1)	–	–	(16)
– CMB	117,703	11,403	558	9	129,673	(69)	(65)	(56)	–	(190)
– GBM	246,805	8,270	28	–	255,103	(53)	(67)	(3)	–	(123)
– Corporate Centre	30	–	–	–	30	–	–	–	–	–
Financial guarantees	17,684	2,340	186	4	20,214	(16)	(22)	(10)	–	(48)
– WPB	972	4	1	–	977	–	–	–	–	–
– CMB	7,446	1,442	105	4	8,997	(9)	(12)	(6)	–	(27)
– GBM	9,263	894	80	–	10,237	(7)	(10)	(4)	–	(21)
– Corporate Centre	3	–	–	–	3	–	–	–	–	–
Total nominal amount off-balance sheet at 31 Dec 2019	595,315	23,958	957	13	620,243	(153)	(155)	(69)	–	(377)
WPB	144,632	378	–	–	145,010	(13)	(81)	–	–	(94)
CMB	85,353	62	–	1	85,416	(5)	(19)	–	–	(24)
GBM	118,571	68	–	–	118,639	(9)	(16)	–	–	(25)
Corporate Centre	6,093	506	–	–	6,599	(12)	(11)	–	–	(23)
Debt instruments measured at FVOCI at 31 Dec 2019	354,649	1,014	–	1	355,664	(39)	(127)	–	–	(166)

1 2019 figures are restated for the change in reportable segments.

## Risk

### Loans and advances to customers and banks metrics

	Gross carrying amount	Of which: stage 3 and POCI	Allowance for ECL	Of which: stage 3 and POCI	Change in ECL	Write-offs	Recoveries
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
First lien residential mortgages	352,282	3,383	(755)	(442)	(259)	(92)	35
Other personal lending	108,527	2,228	(3,976)	(1,060)	(2,363)	(1,315)	245
<b>Personal lending</b>	<b>460,809</b>	<b>5,611</b>	<b>(4,731)</b>	<b>(1,502)</b>	<b>(2,622)</b>	<b>(1,407)</b>	<b>280</b>
– agriculture, forestry and fishing	7,445	332	(207)	(150)	(28)	(3)	–
– mining and quarrying	11,947	813	(365)	(220)	(513)	(311)	–
– manufacturing	93,906	2,163	(1,588)	(945)	(652)	(375)	7
– electricity, gas, steam and air-conditioning supply	16,200	53	(73)	(8)	(7)	(14)	–
– water supply, sewerage, waste management and remediation	3,174	47	(37)	(22)	(8)	–	–
– construction	14,600	777	(590)	(430)	(151)	(135)	13
– wholesale and retail trade, repair of motor vehicles and motorcycles	90,663	3,208	(2,532)	(2,032)	(1,560)	(280)	11
– transportation and storage	29,433	780	(493)	(240)	(308)	(62)	1
– accommodation and food	26,071	537	(491)	(130)	(365)	(28)	–
– publishing, audiovisual and broadcasting	19,979	164	(189)	(59)	(94)	(2)	–
– real estate	127,027	1,908	(1,167)	(738)	(424)	(47)	4
– professional, scientific and technical activities	24,072	531	(398)	(193)	(219)	(36)	1
– administrative and support services	26,423	977	(534)	(315)	(298)	(61)	–
– public administration and defence, compulsory social security	2,008	3	(14)	(1)	(5)	–	–
– education	2,122	29	(41)	(9)	(26)	(6)	1
– health and care	5,510	269	(186)	(120)	(127)	(2)	1
– arts, entertainment and recreation	3,437	236	(158)	(87)	(170)	(2)	–
– other services	13,110	410	(408)	(249)	(360)	(168)	4
– activities of households	802	–	(1)	–	–	–	–
– extra-territorial organisations and bodies activities	10	–	–	–	1	–	1
– government	8,538	1	(9)	(1)	2	(5)	–
– asset-backed securities	611	–	(13)	–	1	–	–
Corporate and commercial	527,088	13,238	(9,494)	(5,949)	(5,311)	(1,537)	44
Non-bank financial institutions	64,580	523	(265)	(100)	(146)	(30)	2
<b>Wholesale lending</b>	<b>591,668</b>	<b>13,761</b>	<b>(9,759)</b>	<b>(6,049)</b>	<b>(5,457)</b>	<b>(1,567)</b>	<b>46</b>
Loans and advances to customers	1,052,477	19,372	(14,490)	(7,551)	(8,079)	(2,974)	326
Loans and advances to banks	81,658	–	(42)	–	(23)	–	–
<b>At 31 Dec 2020</b>	<b>1,134,135</b>	<b>19,372</b>	<b>(14,532)</b>	<b>(7,551)</b>	<b>(8,102)</b>	<b>(2,974)</b>	<b>326</b>
First lien residential mortgages	322,178	3,070	(529)	(422)	(107)	(139)	54
Other personal lending	112,093	1,781	(2,605)	(793)	(1,114)	(1,206)	260
Personal lending	434,271	4,851	(3,134)	(1,215)	(1,221)	(1,345)	314
– agriculture, forestry and fishing	6,696	280	(182)	(140)	(15)	(6)	–
– mining and quarrying	14,435	323	(226)	(134)	(31)	(4)	–
– manufacturing	104,380	1,717	(1,210)	(856)	(392)	(332)	8
– electricity, gas, steam and air-conditioning supply	15,040	175	(80)	(25)	14	(54)	2
– water supply, sewerage, waste management and remediation	3,501	30	(28)	(18)	(4)	–	–
– construction	15,287	884	(564)	(499)	(171)	(191)	12
– wholesale and retail trade, repair of motor vehicles and motorcycles	94,681	1,633	(1,184)	(936)	(330)	(389)	13
– transportation and storage	25,580	617	(237)	(158)	(93)	(37)	–
– accommodation and food	24,656	263	(146)	(63)	(49)	(81)	–
– publishing, audiovisual and broadcasting	19,971	162	(87)	(34)	(17)	(31)	–
– real estate	130,752	1,330	(680)	(475)	(34)	(168)	6
– professional, scientific and technical activities	24,122	350	(209)	(145)	(47)	(10)	1
– administrative and support services	25,714	527	(270)	(179)	(80)	(22)	–
– public administration and defence, compulsory social security	2,377	–	(8)	–	–	–	–
– education	1,900	16	(18)	(6)	6	(3)	–
– health and care	4,465	111	(57)	(28)	(6)	(13)	1
– arts, entertainment and recreation	2,824	30	(25)	(11)	3	(4)	–
– other services	14,276	192	(199)	(133)	(79)	(102)	2
– activities of households	791	–	–	–	–	–	–
– extra-territorial organisations and bodies activities	2	–	–	–	2	–	1
– government	8,313	7	(14)	(6)	(8)	–	–
– asset-backed securities	736	–	(14)	–	–	–	–
Corporate and commercial	540,499	8,647	(5,438)	(3,846)	(1,331)	(1,447)	46
Non-bank financial institutions	70,705	212	(160)	(90)	(71)	(5)	1
Wholesale lending	611,204	8,859	(5,598)	(3,936)	(1,402)	(1,452)	47
Loans and advances to customers	1,045,475	13,710	(8,732)	(5,151)	(2,623)	(2,797)	361
Loans and advances to banks	69,219	–	(16)	–	(6)	–	–
<b>At 31 Dec 2019</b>	<b>1,114,694</b>	<b>13,710</b>	<b>(8,748)</b>	<b>(5,151)</b>	<b>(2,629)</b>	<b>(2,797)</b>	<b>361</b>

## HSBC Holdings

(Audited)

Risk in HSBC Holdings is overseen by the HSBC Holdings Asset and Liability Management Committee ('Holdings ALCO'). The major risks faced by HSBC Holdings are credit risk, liquidity risk and market risk (in the form of interest rate risk and foreign exchange risk).

Credit risk in HSBC Holdings primarily arises from transactions with Group subsidiaries and its investments in those subsidiaries.

In HSBC Holdings, the maximum exposure to credit risk arises from two components:

- financial instruments on the balance sheet (see page 321); and
- financial guarantees and similar contracts, where the maximum exposure is the maximum that we would have to pay if the guarantees were called upon (see Note 32).

In the case of our derivative balances, we have amounts with a legally enforceable right of offset in the case of counterparty default that are not included in the carrying value. These offsets also include collateral received in cash and other financial assets.

The total offset relating to our derivative balances was \$1.7bn at 31 December 2020 (2019: \$0.1bn).

The credit quality of loans and advances and financial investments, both of which consist of intra-Group lending and US Treasury bills and bonds, is assessed as 'strong', with 100% of the exposure being neither past due nor impaired (2019: 100%). For further details of credit quality classification, see page 163.

### Treasury risk

	Page
Overview	211
Treasury risk management	211
Capital risk in 2020	215
Structural foreign exchange risk in 2020	221
Interest rate risk in the banking book in 2020	221

### Overview

Treasury risk is the risk of having insufficient capital, liquidity or funding resources to meet financial obligations and satisfy regulatory requirements, together with the financial risks arising from the provision of pensions and other post-employment benefits to staff and their dependants. Treasury risk also includes the risk to our earnings or capital due to structural foreign exchange exposures and changes in market interest rates.

Treasury risk arises from changes to the respective resources and risk profiles driven by customer behaviour, management decisions or the external environment.

### Approach and policy

(Audited)

Our objective in the management of treasury risk is to maintain appropriate levels of capital, liquidity, funding, foreign exchange and market risk to support our business strategy, and meet our regulatory and stress testing-related requirements.

Our approach to treasury management is driven by our strategic and organisational requirements, taking into account the regulatory, economic and commercial environment. We aim to maintain a strong capital and liquidity base to support the risks inherent in our business and invest in accordance with our strategy, meeting both consolidated and local regulatory requirements at all times.

Our policy is underpinned by our risk management framework, our internal capital adequacy assessment process ('ICAAP') and our internal liquidity adequacy assessment process ('ILAAP'). The risk framework incorporates a number of measures aligned to our assessment of risks for both internal and regulatory purposes. These risks include credit, market, operational, pensions, structural foreign exchange, banking book foreign exchange risk and interest rate risk in the banking book.

The ICAAP and ILAAP provide an assessment of the Group's capital and liquidity adequacy with consideration of HSBC's risk metrics, business model, strategy, performance and planning, risks to capital, and the implications of stress testing to capital.

*For further details, refer to our Pillar 3 Disclosures at 31 December 2020.*

### Treasury risk management

#### Key developments in 2020

In 2020, we established the Treasury Risk Management function. This function is a dedicated second line of defence, providing independent oversight of treasury activities across capital risk, liquidity and funding risk, structural foreign exchange risk, banking book foreign exchange risk, and interest rate risk in the banking book, together with pension risk. The approach to treasury risk management is evolving. This will operate across the Group focusing on both adequacy of capital and sufficiency of returns. In 2020, we carried out several initiatives focused on treasury risk:

- We focused on the management of capital and liquidity to ensure we responded to the unprecedented customer and capital demands arising from the Covid-19 outbreak.
- In response to a written request from the PRA, we cancelled the fourth interim dividend for 2019 of \$0.21 per ordinary share. Similar requests were also made to other UK incorporated banking groups. We also announced that we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares until the end of 2020. In December 2020, the PRA announced a temporary approach to shareholder distributions for 2020. After considering the requirements of the temporary approach, the Board announced an interim dividend for 2020 of \$0.15 per ordinary share.
- In our response to the Covid-19 outbreak, we liaised with governments, central banks and regulatory authorities globally, to ensure there was continued support and provision of financial services to the real economy. The Bank of England's Financial Policy Committee announced a reduction of the UK countercyclical buffer rate to 0% effective from March 2020. This change was reflected in the Group's risk appetite statement, and together with other regulatory relief, resulted in a reduction to Group common equity tier 1 ('CET1') and leverage ratio requirements.
- We implemented the acceleration of some of the beneficial elements of the amendments to the Capital Requirements Regulation ('CRR II') that were originally scheduled for June 2021. The relevant changes impacting the fourth quarter of 2020 positions included a resetting of the transitional provisions in relation to recognising IFRS 9 provisions and the application of the revised small and medium-sized enterprises ('SME') supporting factor. It also included changes in the capital treatment of software intangible assets and the netting of the leverage ratio exposure measure of regular-way purchases and sales. Additionally, there were changes that enabled more favourable prudential treatment for investments in infrastructure, beneficial changes to prudent valuation adjustments and exemptions of market risk back-testing exceptions that arose due to the extraordinary market dislocations.
- The Group's CET1 ratio was 15.9% at 31 December 2020 and the leverage ratio was 5.5%. The Group also continues to maintain the appropriate resources required for the risks to which it is exposed, while continuing to support local economies. This has been further informed by additional internal stress tests carried out in response to the Covid-19 outbreak. Capital risk management practices continued to be enhanced across the Group through the Treasury Risk Management function, focusing on both adequacy of capital and sufficiency of returns.
- The Group's liquidity levels were impacted by the drawdown of committed facilities and buy-backs of short-term debt. However, this was offset by increases in deposits, use of central bank facilities where appropriate, and the ability to issue in the short-term markets as they stabilised. As a result of these

## Risk

liability enhancing actions, the Group and all entities had significant surplus liquidity, resulting in heightened liquidity coverage ratios throughout 2020. At 31 December 2020, all of the Group's material operating entities were above regulatory minimum levels of liquidity and funding.

- Declines in interest rates and the flattening of interest rate yield curves combined to put downwards pressure on net interest income ('NII'). Balance sheet composition changed, with a significant build-up of liquidity that was deployed in short-term investments, which were predominantly cash, hold-to-collect-and-sell securities and reverse repos. This factor, together with the lower level of interest rates, increased the sensitivity of NII to future changes in interest rates. In the scenario where interest rates fall significantly from current levels, contractual floors would dampen the effect on the average rate that would be paid on liabilities whereas the asset side of the balance sheet would be more likely to reprice lower, reducing commercial margin.
- During 2020 we worked with the fiduciaries of all our pension plans to ensure robust and timely actions were taken in response to the Covid-19 outbreak, including the smooth transition to remote working for plan providers and dealing appropriately with affected plan members. Our de-risking programmes provided protection against the volatility in financial markets that resulted from the outbreak's economic impact.

*For quantitative disclosures on capital ratios, own funds and RWAs, see pages 215 to 216. For quantitative disclosures on liquidity and funding metrics, see pages 218 to 220. For quantitative disclosures on interest rate risk in the banking book, see pages 221 to 222.*

### Governance and structure

The Global Head of Treasury Risk Management and Global Risk Analytics is the accountable risk steward for all treasury risks, the Group Head of Performance and Reward is the risk owner for pensions and the Group Treasurer is the risk owner for remaining treasury risks.

Capital and liquidity are the responsibility of the Group Executive Committee and directly addressed by the Group Risk Committee ('GRC'). Treasury risks are generally managed through the Holdings Asset and Liability Management Committee ('ALCO') and local ALCOs and overseen by the Risk Management Meeting ('RMM').

The Asset, Liability and Capital Management ('ALCM') function is responsible for managing interest rate risk in the banking book. It maintains the transfer pricing framework and informs the Holdings ALCO of the Group's overall banking book interest rate exposure. Banking book interest rate positions may be transferred to be managed by the Markets Treasury business, previously known as Balance Sheet Management, within the market risk limits approved by the RMM. Effective governance of Markets Treasury is supported by the dual reporting lines it has to the Chief Executive Officer of Global Banking and Markets and to the Group Treasurer, with the Global Risk function acting as a second line of defence.

Pension risk is managed by a network of local and regional pension risk forums. The Global Pensions Oversight Forum provides oversight of all pension plans sponsored by HSBC globally and is co-chaired by the Group Treasurer and the Global Head of Treasury Risk Management and Global Risk Analytics.

### Capital, liquidity and funding risk management processes

#### Assessment and risk appetite

Our capital management policy is underpinned by a capital management framework and our ICAAP. The framework incorporates key capital risk appetites for CET1, total capital, minimum requirements for own funds and eligible liabilities ('MREL'), and double leverage. The ICAAP is an assessment of the Group's capital position, outlining both regulatory and internal capital resources and requirements resulting from HSBC's business model, strategy, risk profile and management,

performance and planning, risks to capital, and the implications of stress testing. Our assessment of capital adequacy is driven by an assessment of risks. These risks include credit, market, operational, pensions, insurance, structural foreign exchange and interest rate risk in the banking book. The Group ICAAP supports the determination of the consolidated capital risk appetite and target ratios as well as enables the assessment and determination of capital requirements by regulators. Subsidiaries prepare ICAAPs based on their local regulatory regimes in order to determine their own risk appetites and ratios.

HSBC Holdings is the provider of equity capital to its subsidiaries and also provides them with non-equity capital where necessary. These investments are substantially funded by HSBC Holdings' own capital issuance and profit retention.

HSBC Holdings seeks to maintain a prudent balance between the composition of its capital and its investments in subsidiaries, including management of double leverage. Double leverage reflects the extent to which equity investments in operating entities are funded by holding company debt. Where Group capital requirements are less than the aggregate of operating entity capital requirements, double leverage can be used to improve Group capital efficiency provided it is managed appropriately and prudently in accordance with risk appetite. Double leverage is a constraint on managing our capital position, given the complexity of the Group's subsidiary structure and the multiple regulatory regimes under which we operate. As a matter of long-standing policy, the holding company retains a substantial portfolio of high-quality liquid assets ('HQLA'), which at 31 December 2020 was in excess of \$14bn. The portfolio of HQLA helps to mitigate holding company cash flow risk arising from double leverage, and underpins the strength of support the holding company can offer its subsidiaries in times of stress. Further mitigation is provided by additional tier 1 ('AT1') securities issued in excess of the regulatory requirements of our subsidiaries.

We maintain a comprehensive liquidity and funding risk management framework ('LFRF'), which aims to enable us to withstand very severe liquidity stresses. The LFRF comprises policies, metrics and controls designed to ensure that Group and entity management have oversight of our liquidity and funding risks in order to manage them appropriately. We manage liquidity and funding risk at an operating entity level to ensure that obligations can be met in the jurisdiction where they fall due, generally without reliance on other parts of the Group. Operating entities are required to meet internal minimum requirements and any applicable regulatory requirements at all times. These requirements are assessed through the ILAAP, which ensures that operating entities have robust strategies, policies, processes and systems for the identification, measurement, management and monitoring of liquidity risk over an appropriate set of time horizons, including intra-day. The ILAAP informs the validation of risk tolerance and the setting of risk appetite. It also assesses the capability to manage liquidity and funding effectively in each major entity. These metrics are set and managed locally but are subject to robust global review and challenge to ensure consistency of approach and application of the LFRF across the Group.

#### Planning and performance

Capital and risk-weighted asset ('RWA') plans form part of the annual operating plan that is approved by the Board. Capital and RWA forecasts are submitted to the Group Executive Committee on a monthly basis, and capital and RWAs are monitored and managed against the plan. The responsibility for global capital allocation principles rests with the Group Chief Financial Officer supported by the Group Capital Management Meeting. This is a specialist forum addressing capital management, reporting into Holdings ALCO.

Through our internal governance processes, we seek to strengthen discipline over our investment and capital allocation decisions, and to ensure that returns on investment meet management's objectives. Our strategy is to allocate capital to businesses and entities to support growth objectives where returns above internal hurdle levels have been identified and in order to meet their

regulatory and economic capital needs. We evaluate and manage business returns by using a return on average tangible equity measure.

Funding and liquidity plans form part of the annual operating plan that is approved by the Board. The critical Board-level appetite measures are the liquidity coverage ratio ('LCR') and net stable funding ratio ('NSFR'). An appropriate funding and liquidity profile is managed through a wider set of measures:

- a minimum LCR requirement;
- a minimum NSFR requirement or other appropriate metric;
- a legal entity depositor concentration limit;
- three-month and 12-month cumulative rolling term contractual maturity limits covering deposits from banks, deposits from non-bank financial institutions and securities issued;
- a minimum LCR requirement by currency;
- intra-day liquidity;
- the application of liquidity funds transfer pricing; and
- forward-looking funding assessments.

The LCR and NSFR metrics are to be supplemented by an internal liquidity metric in 2021.

### Risks to capital and liquidity

Outside the stress testing framework, other risks may be identified that have the potential to affect our RWAs and/or capital position. Downside and Upside scenarios are assessed against our capital management objectives and mitigating actions are assigned as necessary. We closely monitor future regulatory changes and continue to evaluate the impact of these upon our capital requirements. This includes the UK's implementation of amendments to the Capital Requirements Regulation, the Basel III Reforms, and the regulatory impact from the UK's withdrawal from the EU, as well as other regulatory statements including changes to IRB modelling requirements.

We currently estimate that these regulatory changes could potentially increase RWAs, before any mitigating actions, by approximately 5% over 2022–23. We plan to take action to substantially mitigate a significant proportion of the increase.

The Basel III Reforms introduce an output floor that will be introduced in 2023 with a five-year transitional provision. We estimate that there will be an additional RWA impact as a result of the output floor from 2027.

In parallel with regulatory developments in the EU, the UK's PRA is reviewing the requirements for the capitalisation of structural foreign exchange risk to align to a Pillar 1 approach.

There remains a significant degree of uncertainty in the impact of the regulatory changes due to the number of national discretions and the need for further supporting technical standards to be developed. Furthermore, the impact does not take into consideration the possibility of offsets against Pillar 2, which may arise as shortcomings within Pillar 1 are addressed.

We have applied the revised regulatory treatment of software assets that became law in the EU following its publication in December 2020. We are aware that the PRA intends to consult on this change with a view to returning to full deduction. In line with the PRA's guidance, we have therefore excluded the capital benefit of \$2.1bn from our decisions about distributions.

### Regulatory reporting processes and controls

There is a continued focus on the quality of regulatory reporting by the PRA and other regulators globally. We continue to strengthen our processes and controls, including commissioning independent external reviews of various aspects of regulatory reporting. As a result, there may be impacts on some of our regulatory ratios such as the CET1 and LCR. We continue to keep the PRA and other relevant regulators informed of adverse findings from external reviews and our progress in strengthening the control environment.

*Further details can be found in the 'Regulatory developments' section of the Group's Pillar 3 Disclosures at 31 December 2020.*

### Stress testing and recovery planning

The Group uses stress testing to evaluate the robustness of plans and risk portfolios, and to meet the requirements for stress testing set by supervisors. Stress testing also informs the ICAAP and ILAAP and supports recovery planning in many jurisdictions. It is an important output used to evaluate how much capital and liquidity the Group requires in setting risk appetite for capital and liquidity risk. It is also used to re-evaluate business plans where analysis shows capital, liquidity and/or returns do not meet their target.

In addition to a range of internal stress tests, we are subject to supervisory stress testing in many jurisdictions. These include the programmes of the Bank of England, the US Federal Reserve Board, the European Banking Authority, the European Central Bank and the Hong Kong Monetary Authority, as well as stress tests undertaken in other jurisdictions. The results of regulatory stress testing and our internal stress tests are used when assessing our internal capital requirements through the ICAAP. The outcomes of stress testing exercises carried out by the PRA and other regulators feed into the setting of regulatory minimum ratios and buffers.

The Group and subsidiaries have established recovery plans, which set out potential options management could take in a range of stress scenarios that could result in a breach of our internal capital buffers. This is to help ensure that our capital and liquidity position can be recovered even in an extreme stress event.

During 2020, in light of the Covid-19 outbreak, we carried out additional internal testing on baseline and stressed scenarios. The results of these stress tests were considered in determining capital actions to manage the Group's position.

Additionally, further stress testing was carried out to include scenarios relating to the impact of the UK's withdrawal from the EU and elevated tensions between the US and China.

All entities monitor internal and external triggers that could threaten their capital, liquidity or funding positions. Entities have established recovery plans providing detailed actions that management would consider taking in a stress scenario should their positions deteriorate and threaten to breach risk appetite and regulatory minimum levels.

*Details of HSBC's liquidity and funding risk management framework ('LFRF') can be found in the Group's Pillar 3 Disclosures at 31 December 2020.*

### Measurement of interest rate risk in the banking book processes

#### Assessment and risk appetite

Interest rate risk in the banking book is the risk of an adverse impact to earnings or capital due to changes in market interest rates. It is generated by our non-traded assets and liabilities, specifically loans, deposits and financial instruments that are not held for trading intent or held in order to hedge positions held with trading intent. Interest rate risk that can be economically hedged may be transferred to the Markets Treasury business. Hedging is generally executed through interest rate derivatives or fixed-rate government bonds. Any interest rate risk that Markets Treasury cannot economically hedge is not transferred and will remain within the global business where the risks originate.

The ALCM function uses a number of measures to monitor and control interest rate risk in the banking book, including:

- net interest income sensitivity;
- economic value of equity sensitivity; and
- hold-to-collect-and-sell stressed value at risk.

#### Net interest income sensitivity

A principal part of our management of non-traded interest rate risk is to monitor the sensitivity of expected net interest income ('NII') under varying interest rate scenarios (i.e. simulation modelling), where all other economic variables are held constant. This monitoring is undertaken at an entity level by local ALCOs, where entities forecast both one-year and five-year NII sensitivities across a range of interest rate scenarios.

## Risk

Projected NII sensitivity figures represent the effect of pro forma movements in projected yield curves based on a static balance sheet size and structure. The exception to this is where the size of the balances or repricing is deemed interest rate sensitive, for example, non-interest-bearing current account migration and fixed-rate loan early prepayment. These sensitivity calculations do not incorporate actions that would be taken by Markets Treasury or in the business that originates the risk to mitigate the effect of interest rate movements.

The NII sensitivity calculations assume that interest rates of all maturities move by the same amount in the 'up-shock' scenario. The sensitivity calculations in the 'down-shock' scenarios reflect no floors to the shocked market rates. However, customer product-specific interest rate floors are recognised where applicable. This is a change from the NII sensitivity methodology applied in the *Annual Report and Accounts 2019*, where market rates were floored to zero, unless the central bank rate was already negative as in the case of the euro, Swiss franc and Japanese yen.

### Economic value of equity sensitivity

Economic value of equity ('EVE') represents the present value of the future banking book cash flows that could be distributed to equity providers under a managed run-off scenario. This equates to the current book value of equity plus the present value of future NII in this scenario. EVE can be used to assess the economic capital required to support interest rate risk in the banking book. An EVE sensitivity represents the expected movement in EVE due to pre-specified interest rate shocks, where all other economic variables are held constant. Operating entities are required to monitor EVE sensitivities as a percentage of capital resources.

### Hold-to-collect-and-sell stressed value at risk

Hold-to-collect-and-sell stressed value at risk ('VaR') is a quantification of the potential losses to a 99% confidence level of the portfolio of securities held under a held-to-collect-and-sell business model in the Markets Treasury business. The portfolio is accounted for at fair value through other comprehensive income together with the derivatives held in designated hedging relationships with these securities. This is quantified based on the worst losses over a one-year period going back to the beginning of 2007 and the assumed holding period is 60 days.

Hold-to-collect-and-sell stressed VaR uses the same models as those used for trading book capitalisation and covers only the portfolio managed by Markets Treasury under this business model.

### Other Group risks

#### Structural foreign exchange exposures

Structural foreign exchange exposures represent net investments in subsidiaries, branches and associates, the functional currencies of which are currencies other than the US dollar. An entity's functional currency is normally that of the primary economic environment in which the entity operates.

Exchange differences on structural exposures are recognised in other comprehensive income ('OCI'). We use the US dollar as our presentation currency in our consolidated financial statements because the US dollar and currencies linked to it form the major currency bloc in which we transact and fund our business. Therefore, our consolidated balance sheet is affected by exchange differences between the US dollar and all the non-US dollar functional currencies of underlying subsidiaries.

Our structural foreign exchange exposures are managed with the primary objective of ensuring, where practical, that our consolidated capital ratios and the capital ratios of individual banking subsidiaries are largely protected from the effect of changes in exchange rates. We hedge structural foreign exchange exposures only in limited circumstances.

*For further details of our structural foreign exchange exposures, see page 221.*

#### Banking book foreign exchange exposures

Banking book foreign exchange exposures arise from transactions in the banking book generating profit and loss or OCI reserves in a currency other than the reporting currency of the operating entity. Transactional foreign exchange exposure is transferred to Markets and Securities Services or Markets Treasury and managed within limits, with the exception of both exposure generating OCI reserves and limited residual foreign exchange exposure arising from timing differences or for other reasons.

#### HSBC Holdings risk management

As a financial services holding company, HSBC Holdings has limited market risk activities. Its activities predominantly involve maintaining sufficient capital resources to support the Group's diverse activities; allocating these capital resources across the Group's businesses; earning dividend and interest income on its investments in the businesses; payment of operating expenses; providing dividend payments to its equity shareholders and interest payments to providers of debt capital; and maintaining a supply of short-term liquid assets for deployment under extraordinary circumstances.

The main market risks to which HSBC Holdings is exposed are banking book interest rate risk and foreign currency risk. Exposure to these risks arises from short-term cash balances, funding positions held, loans to subsidiaries, investments in long-term financial assets and financial liabilities including debt capital issued. The objective of HSBC Holdings' market risk management strategy is to manage volatility in capital resources, cash flows and distributable reserves that could be caused by movements in market parameters. Market risk for HSBC Holdings is monitored by Holdings ALCO in accordance with its risk appetite statement.

HSBC Holdings uses interest rate swaps and cross-currency interest rate swaps to manage the interest rate risk and foreign currency risk arising from its long-term debt issues.

During 2020, HSBC Holdings undertook a variety of liability management exercises, including the issuance of fixed-rate eligible liabilities. Group Treasury generally hedged out the fixed-rate interest rate risk on these liabilities in previous years, but as major interest rate markets remained at very low levels during 2020, this was assessed on a case-by-case basis and in some cases the decision was made to retain the fixed-rate risk.

*For quantitative disclosures on interest rate risk in the banking book, see pages 221 to 222.*

#### Pension risk management processes

Our global pensions strategy is to move from defined benefit to defined contribution plans, where local law allows and it is considered competitive to do so. In 2020 we reviewed our risk appetite metrics and in 2021 we will continue to enhance and expand these to further assist the internal monitoring of our de-risking programmes.

In defined contribution pension plans, the contributions that HSBC is required to make are known, while the ultimate pension benefit will vary, typically with investment returns achieved by investment choices made by the employee. While the market risk to HSBC of defined contribution plans is low, the Group is still exposed to operational and reputational risk.

In defined benefit pension plans, the level of pension benefit is known. Therefore, the level of contributions required by HSBC will vary due to a number of risks, including:

- investments delivering a return below that required to provide the projected plan benefits;
- the prevailing economic environment leading to corporate failures, thus triggering write-downs in asset values (both equity and debt);
- a change in either interest rates or inflation expectations, causing an increase in the value of plan liabilities; and
- plan members living longer than expected (known as longevity risk).

Pension risk is assessed using an economic capital model that takes into account potential variations in these factors. The impact of these variations on both pension assets and pension liabilities is assessed using a one-in-200-year stress test. Scenario analysis and other stress tests are also used to support pension risk management. To fund the benefits associated with defined benefit plans, sponsoring Group companies, and in some instances employees, make regular contributions in accordance with advice from actuaries and in consultation with the plan's trustees where relevant. These contributions are normally set to ensure that there are sufficient funds to meet the cost of the accruing benefits for the future service of active members. However, higher contributions are required when plan assets are considered insufficient to cover the existing pension liabilities. Contribution rates are typically revised annually or once every three years, depending on the plan.

The defined benefit plans invest contributions in a range of investments designed to limit the risk of assets failing to meet a plan's liabilities. Any changes in expected returns from the investments may also change future contribution requirements. In pursuit of these long-term objectives, an overall target allocation is established between asset classes of the defined benefit plan. In addition, each permitted asset class has its own benchmarks, such as stock-market or property valuation indices or liability characteristics. The benchmarks are reviewed at least once every three to five years and more frequently if required by local legislation or circumstances. The process generally involves an extensive asset and liability review.

In addition, some of the Group's pension plans hold longevity swap contracts. These arrangements provide long-term protection to the relevant plans against costs resulting from pensioners or their dependants living longer than initially expected. The most sizeable plan to do this is the HSBC Bank (UK) Pension Scheme, which holds longevity swaps covering approximately three-quarters of the plan's pensioner liabilities (50% with The Prudential Insurance Company of America and 25% with Swiss Re).

## Capital risk in 2020

### Capital overview

#### Capital adequacy metrics

	At	
	31 Dec 2020	31 Dec 2019
<b>Risk-weighted assets ('RWAs') (\$bn)</b>		
Credit risk	691.9	676.6
Counterparty credit risk	42.8	44.1
Market risk	28.5	29.9
Operational risk	94.3	92.8
<b>Total RWAs</b>	<b>857.5</b>	<b>843.4</b>
<b>Capital on a transitional basis (\$bn)</b>		
Common equity tier 1 ('CET1') capital	136.1	124.0
Tier 1 capital	160.2	148.4
Total capital	184.4	172.2
<b>Capital ratios on a transitional basis (%)</b>		
Common equity tier 1 ratio	15.9	14.7
Tier 1 ratio	18.7	17.6
<b>Total capital ratio</b>	<b>21.5</b>	<b>20.4</b>
<b>Capital on an end point basis (\$bn)</b>		
Common equity tier 1 ('CET1') capital	136.1	124.0
Tier 1 capital	158.5	144.8
Total capital	173.2	159.3
<b>Capital ratios on an end point basis (%)</b>		
Common equity tier 1 ratio	15.9	14.7
Tier 1 ratio	18.5	17.2
<b>Total capital ratio</b>	<b>20.2</b>	<b>18.9</b>
<b>Liquidity coverage ratio ('LCR')</b>		
Total high-quality liquid assets (\$bn)	677.9	601.4
Total net cash outflow (\$bn)	487.3	400.5
LCR ratio (%)	139.1	150.2

Following the end of the transition period following the UK's withdrawal from the EU, any reference to EU regulations and directives (including technical standards) should be read as a reference to the UK's version of such regulation or directive, as onshored into UK law under the European Union (Withdrawal) Act 2018, as amended.

Capital figures and ratios in the previous table are calculated in accordance with the revised Capital Requirements Regulation and Directive, as implemented ('CRR II'). The table presents them under the transitional arrangements in CRR II for capital instruments and after their expiry, known as the end point. The end point figures in the table above include the benefit of the regulatory transitional arrangements in CRR II for IFRS 9, which are more fully described below.

Where applicable, they also reflect government relief schemes intended to mitigate the impact of the Covid-19 outbreak.

### Regulatory transitional arrangements for IFRS 9 'Financial Instruments'

We have adopted the regulatory transitional arrangements in CRR II for IFRS 9, including paragraph four of article 473a. Our capital and ratios are presented under these arrangements throughout the table above, including in the end point figures. Without their application, our CET1 ratio would be 15.7%.

The IFRS 9 regulatory transitional arrangements allow banks to add back to their capital base a proportion of the impact that IFRS 9 has upon their loan loss allowances during the first five years of use. The impact is defined as:

- the increase in loan loss allowances on day one of IFRS 9 adoption; and
- any subsequent increase in ECL in the non-credit-impaired book thereafter.

Any add-back must be tax affected and accompanied by a recalculation of exposure and RWAs. The impact is calculated separately for portfolios using the standardised ('STD') and internal ratings-based ('IRB') approaches. For IRB portfolios, there is no add-back to capital unless loan loss allowances exceed regulatory 12-month expected losses.

The EU's CRR II 'Quick Fix' relief package enacted in June 2020 increased from 70% to 100% the relief that banks may take for loan loss allowances recognised since 1 January 2020 on the non-credit-impaired book.

In the current period, the add-back to CET1 capital amounted to \$1.6bn under the STD approach with a tax impact of \$0.4bn. At 31 December 2019, the add-back to the capital base under the STD approach was \$1.0bn with a tax impact of \$0.2bn.

## Risk

### Own funds

#### Own funds disclosure

(Audited)

Ref*		At	
		31 Dec 2020	31 Dec 2019
		\$m	\$m
	<b>Common equity tier 1 ('CET1') capital: instruments and reserves</b>		
1	Capital instruments and the related share premium accounts	23,219	22,873
	– ordinary shares	23,219	22,873
2	Retained earnings	128,665	127,188
3	Accumulated other comprehensive income (and other reserves) <sup>1</sup>	9,768	1,735
5	Minority interests (amount allowed in consolidated CET1)	4,079	4,865
5a	Independently reviewed interim net profits net of any foreseeable charge or dividend	(252)	(3,381)
6	<b>Common equity tier 1 capital before regulatory adjustments</b>	<b>165,479</b>	<b>153,280</b>
28	Total regulatory adjustments to common equity tier 1	(29,429)	(29,314)
29	<b>Common equity tier 1 capital</b>	<b>136,050</b>	<b>123,966</b>
36	Additional tier 1 capital before regulatory adjustments	24,183	24,453
43	Total regulatory adjustments to additional tier 1 capital	(60)	(60)
44	<b>Additional tier 1 capital</b>	<b>24,123</b>	<b>24,393</b>
45	<b>Tier 1 capital</b>	<b>160,173</b>	<b>148,359</b>
51	Tier 2 capital before regulatory adjustments	25,722	25,192
57	Total regulatory adjustments to tier 2 capital	(1,472)	(1,401)
58	<b>Tier 2 capital</b>	<b>24,250</b>	<b>23,791</b>
59	<b>Total capital</b>	<b>184,423</b>	<b>172,150</b>

\* The references identify the lines prescribed in the European Banking Authority ('EBA') template, which are applicable and where there is a value.

1 Following the call and subsequent redemption of HSBC Holdings' non-cumulative preference shares, the remaining share premium that related to such preference shares is now treated as an 'other reserve' and included in CET1.

Throughout 2020, we complied with the PRA's regulatory capital adequacy requirements, including those relating to stress testing. At 31 December 2020, our CET1 ratio increased to 15.9% from 14.7% at 31 December 2019.

CET1 capital increased during the year by \$12.1bn, mainly as a result of:

- the cancellation of the fourth interim dividend of \$3.4bn for 2019;
- favourable foreign currency translation differences of \$3.4bn;
- capital generation of \$2.8bn net of dividends relating to other equity instruments;
- a fall of \$2.1bn in the deduction for other intangible assets due to changes to the capital treatment of software assets;
- a \$1.8bn increase in fair value through other comprehensive income reserve; and
- a \$1.8bn fall in the deduction for excess expected loss.

These increases were partly offset by:

- an interim dividend for 2020 of \$3.1bn; and
- a \$0.8bn fall in allowable non-controlling interest in CET1. This partly reflected the acquisition in May 2020 of additional shares representing 18.66% of the capital of HSBC Trinkaus and Burkhardt from Landesbank Baden-Württemberg, the principal minority shareholder.

We have applied the revised regulatory treatment of software assets, which became a UK requirement in December 2020. Subsequently, the PRA announced its intention to consult on a reversal of this change in due course and recommended firms do not base their distribution decision on any capital increase from applying this requirement. As a result, we have not considered the related capital benefit in our distributions. The impact of the change on our CET1 ratio was 0.2 percentage points.

Our Pillar 2A requirement at 31 December 2020, as per the PRA's Individual Capital Requirement based on a point-in-time assessment, was equivalent to 3.0% of RWAs, of which 1.7% was met by CET1.

### Risk-weighted assets

#### RWAs by global business

	WPB	CMB	GBM	Corporate Centre	Total
	\$bn	\$bn	\$bn	\$bn	\$bn
Credit risk	135.9	300.0	168.6	87.4	691.9
Counterparty credit risk	0.7	0.2	41.2	0.7	42.8
Market risk	1.6	0.9	22.9	3.1	28.5
Operational risk	34.6	26.6	32.4	0.7	94.3
<b>At 31 Dec 2020</b>	<b>172.8</b>	<b>327.7</b>	<b>265.1</b>	<b>91.9</b>	<b>857.5</b>



## RWAs by geographical region

		Europe	Asia	MENA	North America	Latin America	Total
	Footnotes	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn
Credit risk		211.2	307.3	50.2	96.1	27.1	691.9
Counterparty credit risk		23.7	10.7	1.4	5.3	1.7	42.8
Market risk	1	23.5	20.9	2.4	4.7	1.2	28.5
Operational risk		25.9	45.3	6.2	11.7	5.2	94.3
<b>At 31 Dec 2020</b>		<b>284.3</b>	<b>384.2</b>	<b>60.2</b>	<b>117.8</b>	<b>35.2</b>	<b>857.5</b>

1 RWAs are non-additive across geographical regions due to market risk diversification effects within the Group.

## RWA movement by global business by key driver

	Credit risk, counterparty credit risk and operational risk						Total RWAs
	WPB	CMB	GBM	Corporate Centre	Market risk		\$bn
	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn
<b>RWAs at 1 Jan 2020</b>	<b>161.4</b>	<b>325.1</b>	<b>248.7</b>	<b>78.3</b>	<b>29.9</b>		<b>843.4</b>
Asset size	2.2	(12.3)	(3.1)	2.4	1.1		(9.7)
Asset quality	0.3	14.5	9.3	0.4	–		24.5
Model updates	2.7	0.9	(2.2)	–	(2.0)		(0.6)
Methodology and policy	2.6	(8.6)	(13.9)	6.2	(0.5)		(14.2)
Acquisitions and disposals	–	–	–	1.0	–		1.0
Foreign exchange movements	2.0	7.2	3.4	0.5	–		13.1
<b>Total RWA movement</b>	<b>9.8</b>	<b>1.7</b>	<b>(6.5)</b>	<b>10.5</b>	<b>(1.4)</b>		<b>14.1</b>
<b>RWAs at 31 Dec 2020</b>	<b>171.2</b>	<b>326.8</b>	<b>242.2</b>	<b>88.8</b>	<b>28.5</b>		<b>857.5</b>

## RWA movement by geographical region by key driver

	Credit risk, counterparty credit risk and operational risk						
	Europe	Asia	MENA	North America	Latin America	Market risk	Total RWAs
	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn
<b>RWAs at 1 Jan 2020</b>	<b>257.9</b>	<b>345.9</b>	<b>55.5</b>	<b>117.6</b>	<b>36.6</b>	<b>29.9</b>	<b>843.4</b>
Asset size	(9.9)	3.4	1.1	(6.1)	0.7	1.1	(9.7)
Asset quality	7.2	10.9	1.3	4.6	0.5	–	24.5
Model updates	1.7	0.3	–	(0.6)	–	(2.0)	(0.6)
Methodology and policy	(6.8)	(3.0)	(0.2)	(3.2)	(0.5)	(0.5)	(14.2)
Acquisitions and disposals	–	–	1.0	–	–	–	1.0
Foreign exchange movements	10.7	5.8	(0.9)	0.8	(3.3)	–	13.1
<b>Total RWA movement</b>	<b>2.9</b>	<b>17.4</b>	<b>2.3</b>	<b>(4.5)</b>	<b>(2.6)</b>	<b>(1.4)</b>	<b>14.1</b>
<b>RWAs at 31 Dec 2020</b>	<b>260.8</b>	<b>363.3</b>	<b>57.8</b>	<b>113.1</b>	<b>34.0</b>	<b>28.5</b>	<b>857.5</b>

Risk-weighted assets ('RWAs') rose by \$14.1bn during the year, including an increase of \$13.1bn due to foreign currency translation differences. The \$1.0bn increase (excluding foreign currency translation differences) is described in the commentary below. During the period we recognised RWA reductions through our transformation programme of \$51.5bn. These are included within the movements described below, primarily under asset size movements and methodology and policy changes.

### Asset size

The \$9.7bn fall in RWAs due to asset size movements was due to reductions in CMB and GBM, partly offset by increases in Corporate Centre, WPB and market risk.

The \$12.3bn decrease in CMB RWAs was primarily due to management initiatives under our transformation programme, most notably in Europe, North America and Asia.

The \$3.1bn fall in GBM RWAs was driven by \$16.4bn of reductions under the transformation programme, largely in North America, Europe, Asia and Latin America. This was partly offset by lending growth, mostly in Asia and MENA, and mark-to-market movements in counterparty credit risk RWAs.

In Asia, an increase in the value of material holdings and lending growth in the property market drove increases in Corporate Centre and WPB RWAs of \$2.4bn and \$2.2bn respectively.

Market risk RWAs increased by \$1.1bn, largely due to market conditions, partly offset by management initiatives.

### Asset quality

Changes in asset quality led to an RWA increase of \$24.5bn, mostly in CMB and GBM. This included credit migration of

\$29.7bn, largely caused by the Covid-19 outbreak. These downgrades were mostly in Asia, North America and Europe, partly offset by decreases due to portfolio mix changes.

### Model updates

The \$0.6bn fall in RWAs due to model updates comprised decreases in GBM and market risk, partly offset by increases in WPB and CMB.

The \$2.2bn reduction in GBM RWAs was due to corporate model updates in our major regions, most significantly in North America.

Market risk RWAs fell by \$2.0bn primarily as a result of changes to the calculation of risks not in VaR, and the implementation of a new model for an options portfolio.

The increases in WPB and CMB credit risk RWAs were mainly due to updates to French, Hong Kong and North American models.

### Methodology and policy

The \$14.2bn reduction in RWAs due to methodology and policy changes included reductions as a result of risk parameter refinements and regulatory responses to the Covid-19 outbreak, offset by changes in approach to credit risk exposures.

GBM and CMB reduced RWAs by \$23.8bn, of which \$11.5bn were under the transformation programme. These reductions stem from a variety of actions, including risk parameter refinements, improved collateral linkage, and data enhancement.

Changes under the CRR 'Quick Fix' relief package also reduced CMB and GBM RWAs. Implementation of the revised small and medium-sized enterprise supporting factor led to a \$3.4bn fall in RWAs for CMB while the new infrastructure supporting factor

## Risk

caused a \$0.5bn fall in GBM. Partly offsetting these reductions, the recent change in the regulatory treatment of software assets caused a \$2.3bn increase in Corporate Centre RWAs.

At the start of 2020, we implemented two changes that led to a \$6.4bn increase in our wholesale credit risk exposures. Application of the new securitisation framework to the pre-existing book caused RWAs to rise by \$3.4bn, mainly in Corporate Centre and GBM. Following the conclusion of discussions with the PRA, we also transferred several UK corporate portfolios onto a Foundation IRB approach, causing a \$3bn rise in RWAs in CMB and GBM.

### Leverage ratio<sup>1</sup>

Ref*		Footnotes	At	
			31 Dec 2020 \$bn	31 Dec 2019 \$bn
20	Tier 1 capital		158.5	144.8
21	Total leverage ratio exposure		2,897.1	2,726.5
			%	%
22	Leverage ratio		5.5	5.3
EU-23	Choice of transitional arrangements for the definition of the capital measure		Fully phased-in	Fully phased-in
	UK leverage ratio exposure – quarterly average	2	2,555.5	2,535.4
			%	%
	UK leverage ratio – quarterly average	2	6.1	5.8
	UK leverage ratio – quarter end	2	6.2	5.7

\* The references identify the lines prescribed in the EBA template.

1 The CRR II regulatory transitional arrangements for IFRS 9 are applied in both leverage ratio calculations.

2 UK leverage ratio denotes the Group's leverage ratio calculated under the PRA's UK leverage framework. This measure excludes qualifying central bank balances and loans under the UK Bounce Back Loan Scheme from the calculation of exposure.

Our leverage ratio calculated in accordance with the Capital Requirements Regulation was 5.5% at 31 December 2020, up from 5.3% at 31 December 2019, due to an increase in tier 1 capital, offset by an increase in exposure primarily due to growth in central bank deposits and financial investments. The change in treatment of software assets benefited our leverage ratio by 0.1 percentage points.

At 31 December 2020, our UK minimum leverage ratio requirement of 3.25% under the PRA's UK leverage framework was supplemented by an additional leverage ratio buffer of 0.7% and a countercyclical leverage ratio buffer of 0.1%. These additional buffers translated into capital values of \$17.9bn and \$1.8bn respectively. We exceeded these leverage requirements.

### Pillar 3 disclosure requirements

Pillar 3 of the Basel regulatory framework is related to market discipline and aims to make financial services firms more transparent by requiring publication of wide-ranging information on their risks, capital and management. Our *Pillar 3 Disclosures at 31 December 2020* is published on our website, [www.hsbc.com/investors](http://www.hsbc.com/investors).

Corporate Centre and WPB RWAs increased by \$5bn as a result of updates to exposures in Asia and the French retail business.

The \$0.5bn fall in market risk largely comprised reductions from updates to the calculation of stressed VaR and foreign exchange risk, partly offset by increases due to risks not in VaR.

### Acquisitions and disposals

The increase in our shareholding of The Saudi British Bank from 29.2% to 31.0% led to \$1.0bn additional Corporate Centre RWAs.

## Liquidity and funding risk in 2020

### Liquidity metrics

At 31 December 2020, all of the Group's material operating entities were above regulatory minimum liquidity and funding levels.

Each entity maintains sufficient unencumbered liquid assets to comply with local and regulatory requirements. The liquidity value of these liquidity assets for each entity is shown in the following table along with the individual LCR levels on a European Commission ('EC') basis. This basis may differ from local LCR measures due to differences in the way non-EU regulators have implemented the Basel III standards.

Each entity maintains sufficient stable funding relative to the required stable funding assessed using the NSFR or other appropriate metrics.

Given our continued focus on the quality of regulatory reporting, liquidity reporting processes are undergoing a detailed review, which may lead to impacts on some of our regulatory ratios, including LCR and NSFR. All entities are above regulatory minimums and are expected to continue to remain above risk appetite.

The Group liquidity and funding position at the end of 2020 is analysed in the following sections.

### Operating entities' liquidity

	Footnotes	At 31 December 2020			
		LCR %	HQLA \$bn	Net outflows \$bn	NSFR %
HSBC UK Bank plc (ring-fenced bank)	1	198	121	61	164
HSBC Bank plc (non-ring-fenced bank)	2	136	138	102	124
The Hongkong and Shanghai Banking Corporation – Hong Kong branch	3	195	146	75	146
The Hongkong and Shanghai Banking Corporation – Singapore branch	3	162	16	10	135
Hang Seng Bank		212	50	24	151
HSBC Bank China		232	24	10	158
HSBC Bank USA		130	106	82	130
HSBC Continental Europe	4	143	48	34	130
HSBC Middle East – UAE branch		280	11	4	164
HSBC Canada	4	165	30	18	136
HSBC Mexico		198	10	5	139

## Operating entities' liquidity (continued)

	Footnotes	At 31 December 2019			
		LCR	HQLA	Net outflows	NSFR
		%	\$m	\$m	%
HSBC UK Bank plc (ring-fenced bank)	1	165	75	45	150
HSBC Bank plc (non-ring-fenced bank)	2	142	103	72	106
The Hongkong and Shanghai Banking Corporation – Hong Kong branch	3	163	109	67	128
The Hongkong and Shanghai Banking Corporation – Singapore branch	3	147	14	10	120
Hang Seng Bank		185	42	23	148
HSBC Bank China		180	21	11	151
HSBC Bank USA		125	73	59	122
HSBC Continental Europe	4	152	44	29	117
HSBC Middle East – UAE branch		202	11	5	159
HSBC Canada	4	124	18	14	124
HSBC Mexico		208	9	4	136

- 1 HSBC UK Bank plc refers to the HSBC UK liquidity group, which comprises four legal entities: HSBC UK Bank plc (including the Dublin branch), Marks and Spencer Financial Services plc, HSBC Private Bank (UK) Ltd and HSBC Trust Company (UK) Limited, managed as a single operating entity, in line with the application of UK liquidity regulation as agreed with the PRA.
- 2 HSBC Bank plc includes overseas branches and special purpose entities consolidated by HSBC for financial statements purposes.
- 3 The Hongkong and Shanghai Banking Corporation – Hong Kong branch and The Hongkong and Shanghai Banking Corporation – Singapore branch represent the material activities of The Hongkong and Shanghai Banking Corporation. Each branch is monitored and controlled for liquidity and funding risk purposes as a stand-alone operating entity.
- 4 HSBC Continental Europe and HSBC Canada represent the consolidated banking operations of the Group in France and Canada, respectively. HSBC Continental Europe and HSBC Canada are each managed as single distinct operating entities for liquidity purposes.

At 31 December 2020, all of the Group's principal operating entities were well above regulatory minimum levels.

The most significant movements in 2020 are explained below:

- HSBC UK Bank plc improved its liquidity ratio to 198%, mainly driven by growth in commercial and retail deposits.
- HSBC Bank plc and HSBC Continental Europe maintained a strong liquidity position, with an increase in HQLA mainly due to deposit growth. However the LCR declined, reflecting a reassessment of potential outflows, particularly with respect to committed facilities.
- The Hongkong and Shanghai Banking Corporation – Hong Kong branch, Hang Seng Bank and HSBC Bank China remained in a strong liquidity position, mainly as result of an increase in customer deposits.
- HSBC Bank USA remained in a strong liquidity position, mainly driven by an increase in deposits and a reduction in illiquid assets.
- HSBC Bank Middle East – UAE branch remained in a strong liquidity position, with a liquidity ratio of 280%.
- HSBC Canada increased its LCR to 165%, mainly driven by increased customer deposits and covered bond issuance.

### Liquid assets

At 31 December 2020, the Group had a total of \$678bn of highly liquid unencumbered LCR eligible liquid assets (31 December 2019: \$601bn) held in a range of asset classes and currencies. Of these, 90% were eligible as level 1 (31 December 2019: 90%).

The following tables reflect the composition of the liquidity pool by asset type and currency at 31 December 2020:

### Liquidity pool by asset type

	Liquidity pool	Cash	Level 1 <sup>1</sup>	Level 2 <sup>1</sup>
	\$bn	\$bn	\$bn	\$bn
Cash and balance at central bank	307	307	–	–
Central and local government bonds	312	–	263	49
Regional government public sector entities	12	–	11	1
International organisation and multilateral developments banks	14	–	14	–
Covered bonds	11	–	3	8
Other	22	–	10	12
<b>Total at 31 Dec 2020</b>	<b>678</b>	<b>307</b>	<b>301</b>	<b>70</b>
Total at 31 Dec 2019	601	158	383	60

- 1 As defined in EU regulations, level 1 assets means 'assets of extremely high liquidity and credit quality', and level 2 assets means 'assets of high liquidity and credit quality'.

### Liquidity pool by currency

	\$	£	€	HK\$	Other	Total
	\$bn	\$bn	\$bn	\$bn	\$bn	\$bn
<b>Liquidity pool at 31 Dec 2020</b>	<b>218</b>	<b>176</b>	<b>117</b>	<b>74</b>	<b>93</b>	<b>678</b>
Liquidity pool at 31 Dec 2019	179	117	93	47	165	601

### Consolidated liquidity metrics

At 31 December 2020, the total HQLA held at entity level amounted to \$857bn (31 December 2019: \$646bn), an increase of \$211bn, reflecting the increases in entity liquidity positions described above. Consistent with prior periods, the application of requirements under the EC Delegated Act resulted in an adjustment of \$179bn (31 December 2019: \$45bn) to reflect the limitations in the fungibility of entity liquidity around the Group. As a consequence, the Group consolidated LCR was 139% at 31 December 2020 (31 December 2019: 150%). The \$179bn of HQLA remains available to cover liquidity risk in the relevant entities.

The methodology used in the Group consolidated LCR in relation to the treatment of part of the Group's HQLA is currently under review. Upon implementation of this revised approach it is anticipated that the Group's consolidated LCR will reduce, although remain within appetite. The liquidity position of the entities is unaffected by this change and remains the key focus.

	At		
	31 Dec 2020	30 Jun 2020	31 Dec 2019
	\$bn	\$bn	\$bn
High-quality liquid assets (in entities)	857	784	646
EC Delegated Act adjustment	(179)	(130)	(45)
Group LCR HQLA	678	654	601
Net outflows	487	443	400
Liquidity coverage ratio	139%	148%	150%

## Risk

### Sources of funding

Our primary sources of funding are customer current accounts and savings deposits payable on demand or at short notice. We issue secured and unsecured wholesale securities to supplement customer deposits, meet regulatory obligations and to change the currency mix, maturity profile or location of our liabilities.

The following 'Funding sources' and 'Funding uses' tables provide a view of how our consolidated balance sheet is funded. In practice, all the principal operating entities are required to manage liquidity and funding risk on a stand-alone basis.

The tables analyse our consolidated balance sheet according to the assets that primarily arise from operating activities and the sources of funding primarily supporting these activities. Assets and liabilities that do not arise from operating activities are presented at a net balancing source or deployment of funds.

In 2020, the level of customer accounts continued to exceed the level of loans and advances to customers. The positive funding gap was predominantly deployed in liquid assets.

### Funding sources

(Audited)

	2020 \$m	2019 \$m
Customer accounts	1,642,780	1,439,115
Deposits by banks	82,080	59,022
Repurchase agreements – non-trading	111,901	140,344
Debt securities in issue	95,492	104,555
Cash collateral, margin and settlement accounts	78,565	71,002
Subordinated liabilities	21,951	24,600
Financial liabilities designated at fair value	157,439	164,466
Liabilities under insurance contracts	107,191	97,439
Trading liabilities	75,266	83,170
– repos	11,728	558
– stock lending	4,597	9,702
– other trading liabilities	58,941	72,910
Total equity	204,995	192,668
Other balance sheet liabilities	406,504	338,771
<b>At 31 Dec</b>	<b>2,984,164</b>	<b>2,715,152</b>

### Funding uses

(Audited)

	2020 \$m	2019 \$m
Loans and advances to customers	1,037,987	1,036,743
Loans and advances to banks	81,616	69,203
Reverse repurchase agreements – non-trading	230,628	240,862
Prepayments, accrued income and other assets	76,859	63,891
– cash collateral, margin and settlement accounts	76,859	63,891
Assets held for sale	299	123
Trading assets	231,990	254,271
– reverse repos	13,990	13,659
– stock borrowing	8,286	7,691
– other trading assets	209,714	232,921
Financial investments	490,693	443,312
Cash and balances with central banks	304,481	154,099
Other balance sheet assets	529,611	452,648
<b>At 31 Dec</b>	<b>2,984,164</b>	<b>2,715,152</b>

1 Includes only those financial instruments that are subject to the impairment requirements of IFRS 9. 'Prepayments, accrued income and other assets', as presented within the consolidated balance sheet on page 316, includes both financial and non-financial assets.

### Wholesale term debt maturity profile

The maturity profile of our wholesale term debt obligations is set out in the following table.

The balances in the table are not directly comparable with those in the consolidated balance sheet because the table presents gross cash flows relating to principal payments and not the balance sheet carrying value, which includes debt securities and subordinated liabilities measured at fair value.

### Wholesale funding cash flows payable by HSBC under financial liabilities by remaining contractual maturities

	Due not more than 1 month \$m	Due over 1 month but not more than 3 months \$m	Due over 3 months but not more than 6 months \$m	Due over 6 months but not more than 9 months \$m	Due over 9 months but not more than 1 year \$m	Due over 1 year but not more than 2 years \$m	Due over 2 years but not more than 5 years \$m	Due over 5 years \$m	Total \$m
<b>Debt securities issued</b>	<b>18,057</b>	<b>16,848</b>	<b>20,314</b>	<b>15,208</b>	<b>7,561</b>	<b>20,768</b>	<b>49,948</b>	<b>59,911</b>	<b>208,615</b>
– unsecured CDs and CP	4,048	8,440	9,977	6,186	2,945	1,474	1,454	1,546	36,070
– unsecured senior MTNs	9,625	3,363	3,915	4,684	2,005	9,295	35,834	49,209	117,930
– unsecured senior structured notes	2,075	1,539	1,451	1,242	1,241	3,702	4,979	6,765	22,994
– secured covered bonds	–	–	28	–	750	2,514	3,917	–	7,209
– secured asset-backed commercial paper	1,094	–	–	–	–	–	–	–	1,094
– secured ABS	19	119	171	45	41	410	1,865	646	3,316
– others	1,196	3,387	4,772	3,051	579	3,373	1,899	1,745	20,002
<b>Subordinated liabilities</b>	<b>618</b>	<b>–</b>	<b>237</b>	<b>–</b>	<b>12</b>	<b>12</b>	<b>6,081</b>	<b>22,941</b>	<b>29,901</b>
– subordinated debt securities	618	–	237	–	12	12	6,081	21,085	28,045
– preferred securities	–	–	–	–	–	–	–	1,856	1,856
<b>At 31 Dec 2020</b>	<b>18,675</b>	<b>16,848</b>	<b>20,551</b>	<b>15,208</b>	<b>7,573</b>	<b>20,780</b>	<b>56,029</b>	<b>82,852</b>	<b>238,516</b>

Debt securities issued	17,728	19,758	15,654	16,284	16,132	35,836	57,387	53,768	232,547
– unsecured CDs and CP	4,913	12,280	11,020	8,745	11,509	1,156	2,095	1,578	53,296
– unsecured senior MTNs	8,198	2,462	695	4,595	1,753	25,121	42,316	38,812	123,952
– unsecured senior structured notes	1,698	1,386	1,711	1,003	923	3,579	6,102	9,596	25,998
– secured covered bonds	–	–	–	–	1,139	749	3,661	1,159	6,708
– secured asset-backed commercial paper	1,933	–	–	–	–	–	–	–	1,933
– secured ABS	–	–	248	161	–	205	911	741	2,266
– others	986	3,630	1,980	1,780	808	5,026	2,302	1,882	18,394
Subordinated liabilities	1,523	–	22	2,000	–	754	2,424	26,809	33,532
– subordinated debt securities	1,500	–	22	2,000	–	754	2,424	24,587	31,287
– preferred securities	23	–	–	–	–	–	–	2,222	2,245
At 31 Dec 2019	19,251	19,758	15,676	18,284	16,132	36,590	59,811	80,577	266,079

## Structural foreign exchange risk in 2020

Structural foreign exchange exposures represent net investments in subsidiaries, branches and associates, the functional currencies of which are currencies other than the US dollar. Exchange differences on structural exposures are recognised in 'Other comprehensive income'.

### Net structural foreign exchange exposures

	Footnotes	2020 \$m	2019 \$m
<b>Currency of structural exposure</b>			
Hong Kong dollars		47,623	46,527
Pound sterling	1	35,285	33,383
Chinese renminbi		32,165	28,847
Euros		15,672	14,881
Canadian dollars		5,123	4,416
Indian rupees		4,833	4,375
Mexican pesos		4,139	4,600
Saudi riyals		3,892	4,280
UAE dirhams		3,867	4,105
Malaysian ringgit		2,771	2,695
Singapore dollars		2,473	2,256
Australian dollars		2,357	1,898
Taiwanese dollars		2,036	1,957
Indonesian rupiah		1,726	1,665
Swiss francs		1,444	1,188
Korean won		1,368	1,245
Thai baht		991	910
Egyptian pound		889	875
Others, each less than \$700m		6,858	7,029
<b>At 31 Dec</b>		<b>175,512</b>	<b>167,132</b>

1 At 31 December 2020, we had forward foreign exchange contracts of \$11.2bn (2019: \$10.5bn) in order to manage our sterling structural foreign exchange exposure.

Shareholders' equity would decrease by \$2,427m (2019: \$2,298m) if euro and sterling foreign currency exchange rates weakened by 5% relative to the US dollar.

## Interest rate risk in the banking book in 2020

### Net interest income sensitivity

The following tables set out the assessed impact to a hypothetical base case projection of our NII (excluding insurance) under the following scenarios:

- an immediate shock of 25 basis points ('bps') to the current market-implied path of interest rates across all currencies on 1 January 2021 (effects over one year and five years); and
- an immediate shock of 100bps to the current market-implied path of interest rates across all currencies on 1 January 2021 (effects over one year and five years).

The sensitivities shown represent our assessment of the change to a hypothetical base case NII, assuming a static balance sheet and

no management actions from the Markets Treasury business. They incorporate the effect of interest rate behaviouralisation, managed rate product pricing assumptions and customer behaviour, including prepayment of mortgages or customer migration from non-interest-bearing to interest-bearing deposit accounts under the specific interest rate scenarios. Market uncertainty and our competitors' behaviours also need to be factored in when analysing these results. The scenarios represent interest rate shocks to the current market implied path of rates.

The NII sensitivity analysis performed in the case of a down-shock does not include floors to the shocked market rates for wholesale assets and liabilities including those denominated in US dollars and sterling. Floors have however been maintained for deposits and loans to customers where this is contractual or where negative rates would not be applied. This is a change from the NII sensitivity approach published in the *Annual Report and Accounts 2019*, where market rates were floored to zero, unless the central bank rate was already negative, as in the case of the euro, Swiss franc and Japanese yen. This reflects the increased risk of negative market interest rates going forward.

As such, the one-year and five-year NII sensitivities in the down-shock scenarios have increased in December 2020 at Group level when compared with December 2019. This was driven by the change in approach, changes in the forecasted yield curves and changes in balance sheet composition. The NII sensitivities are forecasted for the whole period of one and five years each quarter.

The NII sensitivities shown are indicative and based on simplified scenarios. Immediate interest rate rises of 25bps and 100bps would increase projected NII for the 12 months to 31 December 2021 by \$1,647m and \$5,348m, respectively. Conversely, falls of 25bps and 100bps would decrease projected NII for the 12 months to 31 December 2021 by \$1,508m and \$4,854m, respectively.

The sensitivity of NII for 12 months increased by \$2,550m in the plus 100bps parallel shock and increased by \$(1,542)m in the minus 100bps parallel shock, comparing December 2021 with December 2020.

The increase in the sensitivity of NII for 12 months in the plus 100bps parallel shock was mainly driven by the growth of rate insensitive customer deposits, against an increase in rate sensitive assets due to a general build-up of liquidity throughout the Group, which has been deployed in short-term investments (predominantly cash, held-to-collect-and-sell securities, and reverse repos) as well as shortening of Markets Treasury's positioning in view of the significant drop in interest rates.

The change in NII sensitivity for five years is also driven by the factors above.

The tables do not include Markets Treasury management actions or changes in MSS net trading income that may further limit the impact.

The limitations of this analysis are discussed within the 'Treasury risk management' section on page 211.

### NII sensitivity to an instantaneous change in yield curves (12 months)

	Currency					Total \$m
	\$ \$m	HK\$ \$m	£ \$m	€ \$m	Other \$m	
<b>Change in Jan 2021 to Dec 2021 (based on balance sheet at 31 December 2020)</b>						
+25bps parallel	223	423	555	126	320	1,647
-25bps parallel	(227)	(343)	(548)	(88)	(302)	(1,508)
+100bps parallel	546	1,267	1,811	502	1,222	5,348
-100bps parallel	(565)	(749)	(1,906)	(299)	(1,335)	(4,854)
<b>Change in Jan 2020 to Dec 2020 (based on balance sheet at 31 December 2019)</b>						
+25bps parallel	59	198	278	116	202	853
-25bps parallel	(91)	(255)	(332)	11	(182)	(849)
+100bps parallel	(16)	504	1,123	441	746	2,798
-100bps parallel	(490)	(1,023)	(1,049)	(23)	(726)	(3,311)

The net interest income sensitivities arising from the scenarios presented in the tables above are not directly comparable. This is due to timing differences relating to interest rate changes and the repricing of assets and liabilities.

## Risk

### NII sensitivity to an instantaneous change in yield curves (5 years)

	Year 1 \$m	Year 2 \$m	Year 3 \$m	Year 4 \$m	Year 5 \$m	Total \$m
<b>Change in Jan 2021 to Dec 2021 (based on balance sheet at 31 December 2020)</b>						
+25bps parallel	1,647	1,866	1,930	2,028	2,100	9,571
-25bps parallel	(1,508)	(1,986)	(2,307)	(2,045)	(2,113)	(9,959)
+100bps parallel	5,348	6,538	7,083	7,444	7,736	34,149
-100bps parallel	(4,854)	(6,174)	(7,087)	(7,660)	(8,323)	(34,098)
<b>Change in Jan 2020 to Dec 2020 (based on balance sheet at 31 December 2019)</b>						
+25bps parallel	853	1,158	1,348	1,449	1,523	6,331
-25bps parallel	(849)	(1,205)	(1,402)	(1,562)	(1,649)	(6,667)
+100bps parallel	2,798	4,255	4,915	5,155	5,454	22,577
-100bps parallel	(3,311)	(4,621)	(5,289)	(5,766)	(6,164)	(25,151)

### Sensitivity of capital and reserves

Hold-to-collect-and-sell stressed VaR is a quantification of the potential losses to a 99% confidence level of the portfolio of securities held under a hold-to-collect-and-sell business model in the Markets Treasury business. The portfolio is accounted for at fair value through other comprehensive income together with the derivatives held in designated hedging relationships with these securities. The mark-to-market of this portfolio therefore has an impact on CET1. Stressed VaR is quantified based on the worst losses over a one-year period going back to the beginning of 2007 and the assumed holding period is 60 days. At December 2020, the stressed VaR of the portfolio was \$2.94bn (2019: \$3.2bn).

Alongside our monitoring of the stressed VaR of this portfolio, we also monitor the sensitivity of reported cash flow hedging reserves to interest rate movements on a yearly basis by assessing the expected reduction in valuation of cash flow hedges due to parallel movements of plus or minus 100bps in all yield curves.

Although we allow rates to go negative in this assessment, we apply a floor on the shocks in the minus 100bps scenario set at the lower of either minus 50bps or the central bank deposit rate. These particular exposures form only a part of our overall interest rate exposure.

The following table describes the sensitivity of our cash flow hedge reported reserves to the stipulated movements in yield curves at the year end. The sensitivities are indicative and based on simplified scenarios.

Comparing December 2020 with December 2019, the sensitivity of the cash flow hedging reserve reduced by \$37m in the plus 100bps scenario and reduced by \$323m in the minus 100bps scenario. The reduction in the minus 100bps scenario was mainly driven by the significant downwards movement in sterling yields during 2020, which meant that the floor at minus 50bps had an impact across the yield curve.

### Sensitivity of cash flow hedging reported reserves to interest rate movements

	\$m
<b>At 31 Dec 2020</b>	
+100 basis point parallel move in all yield curves	(665)
As a percentage of total shareholders' equity	(0.34)%
-100 basis point parallel move in all yield curves	409
As a percentage of total shareholders' equity	0.21%
<b>At 31 Dec 2019</b>	
+100 basis point parallel move in all yield curves	(702)
As a percentage of total shareholders' equity	(0.38)%
-100 basis point parallel move in all yield curves	732
As a percentage of total shareholders' equity	0.4%

### Third-party assets in Markets Treasury

For our Markets Treasury governance framework, see page 212.

Third-party assets in Markets Treasury increased by 40% compared with 31 December 2019. Commercial surplus went up in 2020 due to an increase in client deposits and lower credit growth. This was partly reflected in the increase of \$135bn in 'Cash and balances at central banks'.

The increase of \$42bn across 'Loans and advances to banks' and 'Reverse repurchase agreements' was driven by the short-term investment of part of this surplus. The remainder was invested in high-quality liquid assets, contributing to the increase of \$39bn in 'Financial Investments'.

### Third-party assets in Markets Treasury

	2020 \$m	2019 \$m
Cash and balances at central banks	263,656	129,114
Trading assets	392	268
Loans and advances:		
– to banks	34,555	24,466
– to customers	1,167	310
Reverse repurchase agreements	61,693	29,868
Financial investments	391,017	351,842
Other	8,724	7,655
<b>At 31 Dec</b>	<b>761,204</b>	<b>543,523</b>

### Defined benefit pension plans

Market risk arises within our defined benefit pension plans to the extent that the obligations of the plans are not fully matched by

assets with determinable cash flows.

For details of our defined benefit plans, including asset allocation, see Note 5 on the financial statements, and for pension risk management, see page 214.

### Additional market risk measures applicable only to the parent company

HSBC Holdings monitors and manages foreign exchange risk and interest rate risk. In order to manage interest rate risk, HSBC Holdings uses the projected sensitivity of its NII to future changes in yield curves and the interest rate repricing gap tables.

During 2020, HSBC Holdings undertook a variety of liability management exercises, replacing approximately \$11.5bn of short-term fixed-rate debt and their corresponding hedges with longer term fixed-rate debt of five to 10 years. As major interest rate markets remained at very low levels during 2020, we left this replacement debt unhedged. In addition to these exercises, approximately \$4bn of debt matured in 2020 and we issued \$2.5bn of new debt. The impact of this can be observed in the 'Repricing gap analysis of HSBC Holdings' table below, where the gap switched from a net liability to a net asset profile in the 'Up to 1 year' bucket, with a concurrent liability gap increase in the '5 to 10 years' bucket. Additionally it can be observed in the NII sensitivity tables, where NII now increases as interest rates rise.

#### Foreign exchange risk

HSBC Holdings' foreign exchange exposures derive almost entirely from the execution of structural foreign exchange hedges on

behalf of the Group as its business-as-usual foreign exchange exposures are managed within tight risk limits. At 31 December 2020, HSBC Holdings had forward foreign exchange contracts of \$11.2bn (2019: \$10.5bn) to manage the Group's sterling structural foreign exchange exposure.

#### Sensitivity of net interest income

HSBC Holdings monitors NII sensitivity over a five-year time horizon, reflecting the longer-term perspective on interest rate risk management appropriate to a financial services holding company. These sensitivities assume that any issuance where HSBC Holdings has an option to reimburse at a future call date is called at this date. The table below sets out the effect on HSBC Holdings' future NII over a five-year time horizon of incremental 25bps parallel falls or rises in all yield curves at the beginning of each quarter during the 12 months from 1 January 2021.

The NII sensitivities shown are indicative and based on simplified scenarios. Immediate interest rate rises of 25bps and 100bps would increase projected NII for the 12 months to 31 December 2021 by \$23m and \$90m, respectively. Conversely, falls of 25bps and 100bps would decrease projected NII for the 12 months to 31 December 2021 by \$23m and \$96m, respectively.

#### NII sensitivity to an instantaneous change in yield curves (12 months)

	\$ \$m	HK\$ \$m	£ \$m	€ \$m	Other \$m	Total \$m
<b>Change in Jan 2021 to Dec 2021 (based on balance sheet at 31 December 2020)</b>						
+25bps	13	—	8	2	—	23
-25bps	(12)	—	(8)	(3)	—	(23)
+100bps	50	—	33	7	—	90
-100bps	(51)	—	(32)	(13)	—	(96)
<b>Change in Jan 2020 to Dec 2020 (based on balance sheet at 31 December 2019)</b>						
+25bps	(30)	—	7	2	—	(21)
-25bps	30	—	(7)	—	—	23
+100bps	(120)	—	30	(6)	—	(96)
-100bps	120	—	(21)	—	—	99

#### NII sensitivity to an instantaneous change in yield curves (5 years)

	Year 1 \$m	Year 2 \$m	Year 3 \$m	Year 4 \$m	Year 5 \$m	Total \$m
<b>Change in Jan 2021 to Dec 2021 (based on balance sheet at 31 December 2020)</b>						
+25bps	23	40	43	39	31	176
-25bps	(23)	(42)	(46)	(41)	(32)	(184)
+100bps	91	159	171	156	126	702
-100bps	(95)	(169)	(189)	(169)	(139)	(761)
<b>Change in Jan 2020 to Dec 2020 (based on balance sheet at 31 December 2019)</b>						
+25bps	(21)	(14)	(13)	(14)	(17)	(79)
-25bps	23	12	8	9	13	65
+100bps	(96)	(64)	(53)	(54)	(72)	(339)
-100bps	99	61	41	38	43	282

The figures represent hypothetical movements in NII based on our projected yield curve scenarios, HSBC Holdings' current interest rate risk profile and assumed changes to that profile during the next five years.

The sensitivities represent our assessment of the change to a hypothetical base case based on a static balance sheet assumption, and do not take into account the effect of actions that could be taken to mitigate this interest rate risk.

#### Interest rate repricing gap table

The interest rate risk on the fixed-rate securities issued by HSBC Holdings is not included within the Group VaR, but is managed on a repricing gap basis. The following 'Repricing gap analysis of HSBC Holdings' table analyses the full-term structure of interest rate mismatches within HSBC Holdings' balance sheet where debt issuances are reflected based on either the next repricing date if floating rate or the maturity/call date (whichever is first) if fixed rate.

## Risk

### Repricing gap analysis of HSBC Holdings

Footnotes	Total \$m	Up to 1 year \$m	From over 1 to 5 years \$m	From over 5 to 10 years \$m	More than 10 years \$m	Non-interest bearing \$m
Cash at bank and in hand:						
– balances with HSBC undertakings	2,913	2,913	–	–	–	–
Derivatives	4,698	–	–	–	–	4,698
Loans and advances to HSBC undertakings	75,696	25,610	22,190	20,398	2,000	5,498
Financial investments in HSBC undertakings	17,485	15,112	2,771	–	–	(398)
Investments in subsidiaries	156,485	5,381	7,660	1,500	–	141,944
Other assets	1,721	257	–	–	–	1,464
<b>Total assets</b>	<b>258,998</b>	<b>49,273</b>	<b>32,621</b>	<b>21,898</b>	<b>2,000</b>	<b>153,206</b>
Amounts owed to HSBC undertakings	(330)	(330)	–	–	–	–
Financial liabilities designated at fair values	(25,664)	(1,827)	(6,533)	(13,535)	(750)	(3,019)
Derivatives	(3,060)	–	–	–	–	(3,060)
Debt securities in issue	(64,029)	(9,932)	(29,026)	(22,063)	(2,000)	(1,008)
Other liabilities	(5,375)	–	–	–	–	(5,375)
Subordinated liabilities	(17,916)	–	(3,839)	(1,780)	(10,463)	(1,834)
Total equity	(142,624)	(1,464)	(11,439)	(9,198)	–	(120,523)
<b>Total liabilities and equity</b>	<b>(258,998)</b>	<b>(13,553)</b>	<b>(50,837)</b>	<b>(46,576)</b>	<b>(13,213)</b>	<b>(134,819)</b>
Off-balance sheet items attracting interest rate sensitivity		(20,324)	11,562	2,492	6,200	70
<b>Net interest rate risk gap at 31 Dec 2020</b>		<b>15,396</b>	<b>(6,654)</b>	<b>(22,186)</b>	<b>(5,013)</b>	<b>18,457</b>
Cumulative interest rate gap		15,396	8,742	(13,444)	(18,457)	–

Cash at bank and in hand:						
– balances with HSBC undertakings	2,382	2,382	–	–	–	–
Derivatives	2,002	–	–	–	–	2,002
Loans and advances to HSBC undertakings	72,182	19,976	21,084	24,739	2,000	4,383
Financial investments in HSBC undertakings	16,106	13,054	3,006	–	–	46
Investments in subsidiaries	163,948	5,035	5,118	3,924	–	149,871
Other assets	1,095	102	–	–	–	993
Total assets	257,715	40,549	29,208	28,663	2,000	157,295
Amounts owed to HSBC undertakings	(464)	(464)	–	–	–	–
Financial liabilities designated at fair values	(30,303)	–	(14,628)	(14,698)	(750)	(227)
Derivatives	(2,021)	–	–	–	–	(2,021)
Debt securities in issue	(56,844)	(15,446)	(22,336)	(15,154)	(2,000)	(1,908)
Other liabilities	(2,203)	–	–	–	–	(2,203)
Subordinated liabilities	(18,361)	–	(2,000)	(2,543)	(11,284)	(2,534)
Total equity	(147,519)	(2,950)	(10,707)	(9,975)	–	(123,887)
Total liabilities and equity	(257,715)	(18,860)	(49,671)	(42,370)	(14,034)	(132,780)
Off-balance sheet items attracting interest rate sensitivity		(30,363)	16,789	6,796	6,469	309
Net interest rate risk gap at 31 Dec 2019	<sup>1</sup>	(8,674)	(3,674)	(6,911)	(5,565)	24,824
Cumulative interest rate gap		(8,674)	(12,348)	(19,259)	(24,824)	–

<sup>1</sup> Investments in subsidiaries and equity have been allocated based on call dates for any callable bonds. The prior year figures have been amended to reflect this.

## Market risk

	Page
Market risk management	224
Market risk in 2020	225
Trading portfolios	226
Non-trading portfolios	227
Market risk balance sheet linkages	228

## Overview

Market risk is the risk that movements in market factors, such as foreign exchange rates, interest rates, credit spreads, equity prices and commodity prices, will reduce our income or the value of our portfolios. Exposure to market risk is separated into two portfolios: trading portfolios and non-trading portfolios.

## Market risk management

### Key developments in 2020

There were no material changes to our policies and practices for the management of market risk in 2020.

### Governance and structure

The following diagram summarises the main business areas where trading and non-trading market risks reside, and the market risk measures used to monitor and limit exposures.

	Trading risk	Non-trading risk
<b>Risk types</b>	<ul style="list-style-type: none"> <li>Foreign exchange and commodities</li> <li>Interest rates</li> <li>Credit spreads</li> <li>Equities</li> </ul>	<ul style="list-style-type: none"> <li>Interest rates<sup>1</sup></li> <li>Credit spreads</li> <li>Foreign exchange</li> </ul>
<b>Global business</b>	GBM	GBM, ALCM, CMB and WPB
<b>Risk measure</b>	Value at risk   Sensitivity   Stress testing	Value at risk   Sensitivity   Stress testing

<sup>1</sup> The interest rate risk on the fixed-rate securities issued by HSBC Holdings is not included in the Group value at risk. The management of this risk is described on page 223.

Where appropriate, we apply similar risk management policies and measurement techniques to both trading and non-trading portfolios. Our objective is to manage and control market risk exposures to optimise return on risk while maintaining a market profile consistent with our established risk appetite.

Market risk is managed and controlled through limits approved by the Group Chief Risk Officer for HSBC Holdings. These limits are allocated across business lines and to the Group's legal entities. The majority of HSBC's total value at risk ('VaR') and almost all trading VaR reside in GBM. Each major operating entity has an independent market risk management and control sub-function,



which is responsible for measuring, monitoring and reporting market risk exposures against limits on a daily basis. Each operating entity is required to assess the market risks arising in its business and to transfer them either to its local Markets and Securities Services or Markets Treasury unit for management, or to separate books managed under the supervision of the local ALCO. The Traded Risk function enforces the controls around trading in permissible instruments approved for each site as well as changes that follow completion of the new product approval process. Traded Risk also restricts trading in the more complex derivative products to offices with appropriate levels of product expertise and robust control systems.

### Key risk management processes

#### Monitoring and limiting market risk exposures

Our objective is to manage and control market risk exposures while maintaining a market profile consistent with our risk appetite.

We use a range of tools to monitor and limit market risk exposures including sensitivity analysis, VaR and stress testing.

#### Sensitivity analysis

Sensitivity analysis measures the impact of individual market factor movements on specific instruments or portfolios, including interest rates, foreign exchange rates and equity prices. We use sensitivity measures to monitor the market risk positions within each risk type. Granular sensitivity limits are set for trading desks with consideration of market liquidity, customer demand and capital constraints, among other factors.

#### Value at risk

(Audited)

VaR is a technique for estimating potential losses on risk positions as a result of movements in market rates and prices over a specified time horizon and to a given level of confidence. The use of VaR is integrated into market risk management and calculated for all trading positions regardless of how we capitalise them. In addition, we calculate VaR for non-trading portfolios to have a complete picture of risk. Where we do not calculate VaR explicitly, we use alternative tools as summarised in the 'Stress testing' section below.

Our models are predominantly based on historical simulation that incorporates the following features:

- historical market rates and prices, which are calculated with reference to foreign exchange rates, commodity prices, interest rates, equity prices and the associated volatilities;
- potential market movements that are calculated with reference to data from the past two years; and
- calculations to a 99% confidence level and using a one-day holding period.

The models also incorporate the effect of option features on the underlying exposures. The nature of the VaR models means that an increase in observed market volatility will lead to an increase in VaR without any changes in the underlying positions.

#### VaR model limitations

Although a valuable guide to risk, VaR is used with awareness of its limitations. For example:

- The use of historical data as a proxy for estimating future market moves may not encompass all potential market events, particularly those that are extreme in nature.
- The use of a one-day holding period for risk management purposes of trading and non-trading books assumes that this short period is sufficient to hedge or liquidate all positions.
- The use of a 99% confidence level by definition does not take into account losses that might occur beyond this level of confidence.
- VaR is calculated on the basis of exposures outstanding at the close of business and therefore does not reflect intra-day exposures.

#### Risk not in VaR framework

The risks not in VaR ('RNIV') framework captures and capitalises material market risks that are not adequately covered in the VaR model.

Risk factors are reviewed on a regular basis and are either incorporated directly in the VaR models, where possible, or quantified through either the VaR-based RNIV approach or a stress test approach within the RNIV framework. While VaR-based RNIVs are calculated by using historical scenarios, stress-type RNIVs are estimated on the basis of stress scenarios whose severity is calibrated to be in line with the capital adequacy requirements. The outcome of the VaR-based RNIV approach is included in the overall VaR calculation but excluded from the VaR measure used for regulatory back-testing. In addition, the stressed VaR measure also includes risk factors considered in the VaR-based RNIV approach.

Stress-type RNIVs include a deal contingent derivatives capital charge to capture risk for these transactions and a de-peg risk measure to capture risk to pegged and heavily managed currencies.

#### Stress testing

Stress testing is an important procedure that is integrated into our market risk management framework to evaluate the potential impact on portfolio values of more extreme, although plausible, events or movements in a set of financial variables. In such scenarios, losses can be much greater than those predicted by VaR modelling.

Stress testing is implemented at legal entity, regional and overall Group levels. A set of scenarios is used consistently across all regions within the Group. The risk appetite around potential stress losses for the Group is set and monitored against a referral limit.

Market risk reverse stress tests are designed to identify vulnerabilities in our portfolios by looking for scenarios that lead to loss levels considered severe for the relevant portfolio. These scenarios may be quite local or idiosyncratic in nature, and complement the systematic top-down stress testing.

Stress testing and reverse stress testing provide senior management with insights regarding the 'tail risk' beyond VaR, for which our appetite is limited.

#### Trading portfolios

Trading portfolios comprise positions held for client servicing and market-making, with the intention of short-term resale and/or to hedge risks resulting from such positions.

#### Back-testing

We routinely validate the accuracy of our VaR models by back-testing the VaR metric against both actual and hypothetical profit and loss. Hypothetical profit and loss excludes non-modelled items such as fees, commissions and revenue of intra-day transactions.

The number of back-testing exceptions is used to gauge how well the models are performing. We consider enhanced internal monitoring of a VaR model if more than five profit exceptions or more than five loss exceptions occur in a 250-day period.

We back-test our VaR at set levels of our Group entity hierarchy.

#### Market risk in 2020

Global financial conditions worsened rapidly with the onset of the Covid-19 outbreak from mid-February 2020. Market volatility reached extreme levels across most asset classes and equity prices fell sharply. In credit markets, spreads and yields reached multi-year highs. The gold market experienced Covid-19-related disruption in refining and transportation, affecting the relative pricing of gold futures contracts. Oil prices collapsed due to rising oversupply as demand reduced materially from the economic slowdown. Financial markets stabilised from April onwards, as governments in several developed countries announced economic recovery programmes and key central banks intervened to provide liquidity and support asset prices. Global equity markets substantially recovered from their losses in March and credit

## Risk

spreads reverted towards pre-Covid-19 levels. During the second half of 2020 markets remained susceptible to further bouts of volatility triggered by increases in Covid-19 cases and various geopolitical risks. Market sentiment improved after positive vaccine news and the US presidential elections in November 2020, adding momentum to the performance of risky assets.

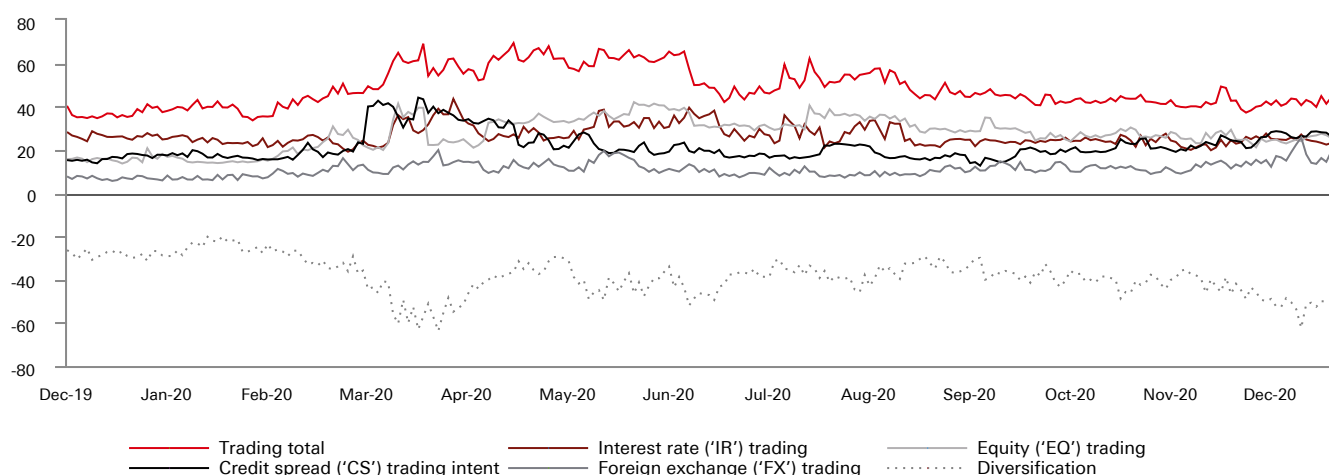
We managed market risk prudently during 2020. Sensitivity exposures remained within appetite as the business pursued its core market-making activity in support of our customers during the outbreak. We also undertook hedging activities to protect the business from potential future deterioration in credit conditions. Market risk continued to be managed using a complementary set of exposure measures and limits, including stress and scenario analysis.

### Trading portfolios

#### Value at risk of the trading portfolios

Trading VaR was predominantly generated by the

#### Daily VaR (trading portfolios), 99% 1 day (\$m)



The Group trading VaR for the year is shown in the table below.

#### Trading VaR, 99% 1 day<sup>1</sup>

(Audited)

	Foreign exchange and commodity \$m	Interest rate \$m	Equity \$m	Credit spread \$m	Portfolio diversification <sup>2</sup> \$m	Total <sup>3</sup> \$m
<b>Balance at 31 Dec 2020</b>	<b>13.7</b>	<b>20.3</b>	<b>21.5</b>	<b>24.3</b>	<b>(36.4)</b>	<b>43.4</b>
Average	11.0	26.6	27.3	21.6	(38.3)	48.1
Maximum	25.7	43.5	42.0	44.1		69.3
Minimum	5.6	19.1	13.6	12.6		33.6
Balance at 31 Dec 2019	7.7	28.2	15.7	15.2	(26.4)	40.3
Average	6.9	29.9	16.2	23.7	(29.0)	47.8
Maximum	13.5	36.5	24.9	33.2		59.3
Minimum	4.1	22.9	12.4	11.7		33.3

<sup>1</sup> Trading portfolios comprise positions arising from the market-making and warehousing of customer-derived positions.

<sup>2</sup> Portfolio diversification is the market risk dispersion effect of holding a portfolio containing different risk types. It represents the reduction in unsystematic market risk that occurs when combining a number of different risk types – such as interest rate, equity and foreign exchange – together in one portfolio. It is measured as the difference between the sum of the VaR by individual risk type and the combined total VaR. A negative number represents the benefit of portfolio diversification. As the maximum and minimum occurs on different days for different risk types, it is not meaningful to calculate a portfolio diversification benefit for these measures.

<sup>3</sup> The total VaR is non-additive across risk types due to diversification effects.

#### Back-testing

During 2020, the Group experienced three loss back-testing exceptions against actual profit and losses, with no additional back-testing exceptions in the second half of 2020. The Group also experienced 10 loss back-testing exceptions against hypothetical profit and losses, including one back-testing exception in the second half of the year. The high number of hypothetical back-

testing exceptions that occurred from March 2020 was primarily due to the extreme market volatility resulting from the economic impact of the Covid-19 outbreak, which was significantly greater than the volatility used in the model calibration.

Markets and Securities Services business. The Fixed Income business continued to be the key driver of trading VaR up to the end of 2020, although with a lower contribution than in the first half of the year. Interest rate risks from market-making activities were the main drivers of trading VaR. Trading VaR at 31 December 2020 was higher than at 31 December 2019. The moderate increase in trading VaR during the year and a spike in the first half of the year were due primarily to higher levels of market volatility reached in March and April 2020, as a result of the economic impact of the Covid-19 outbreak. Trading VaR did not change significantly during the second half of the year and VaR remained in line with the normal range observed in 2019. Overall market risk in the trading book was actively managed during the year.

The daily levels of total trading VaR during 2020 are set out in the graph below.

In recognition of the exceptional market environment in 2020, the PRA granted an exemption from the higher VaR multiplier for market risk RWA purposes arising from six out of 10 VaR back-

testing exceptions that occurred after the onset of the Covid-19 outbreak. These six back-testing exceptions were granted on the basis that they were not the result of inherent model weaknesses but were driven by larger than normal market volatility in the first half of 2020 caused by the Covid-19 outbreak.

The hypothetical profit and loss reflects the profit and loss that would be realised if positions were held constant from the end of one trading day to the end of the next. This measure of profit and loss does not align with how risk is dynamically hedged, and is not therefore indicative of the actual performance of the business.

Accordingly, of the 10 loss back-testing exceptions against hypothetical profit and losses, only two corresponded to actual profit and loss exceptions.

Despite the high number of loss exceptions, performance of the VaR model was in line with expectations when considered in the context of the extraordinary market movements observed in March and April 2020. During this period, market risk continued to be managed using a complementary set of exposure measures and limits, including stress and scenario analysis. This ensured that the business was prudently managed and performed well across the period.

### Non-trading portfolios

Non-trading portfolios comprise positions that primarily arise from

the interest rate management of our retail and commercial banking assets and liabilities, financial investments measured at fair value through other comprehensive income, debt instruments measured at amortised cost, and exposures arising from our insurance operations.

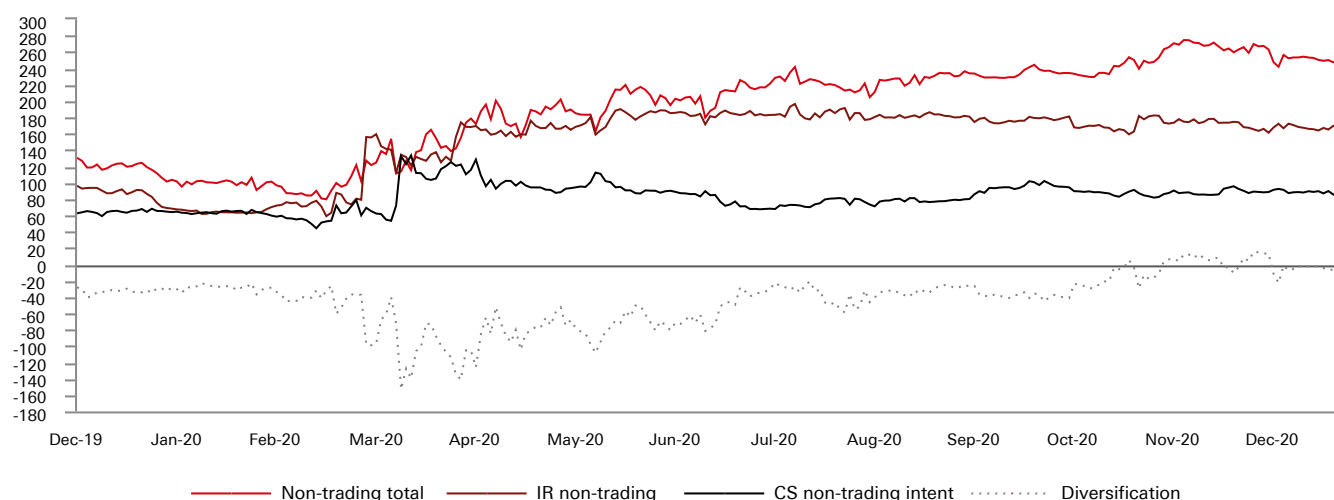
### Value at risk of the non-trading portfolios

The VaR for non-trading activity at 31 December 2020 was higher than at 31 December 2019. The increase arose primarily from the effect of higher levels of market volatility observed in March and April 2020 due to the economic impact of the Covid-19 outbreak. Although the size of interest rate and credit exposures did not change significantly during the year, increased volatility of yields and spreads led to an increase in VaR and a reduction of the diversification benefit effects across these exposures.

Non-trading VaR includes the interest rate risk in the banking book transferred to and managed by Markets Treasury and the non-trading financial instruments held by Markets Treasury. The management of interest rate risk in the banking book is described further in the 'Net interest income sensitivity' section.

The daily levels of total non-trading VaR over the last year are set out in the graph below.

Daily VaR (non-trading portfolios), 99% 1 day (\$m)



The Group non-trading VaR for the year is shown in the table below.

### Non-trading VaR, 99% 1 day

(Audited)

	Interest rate \$m	Credit spread \$m	Portfolio diversification <sup>1</sup> \$m	Total <sup>2</sup> \$m
<b>Balance at 31 Dec 2020</b>	<b>166.6</b>	<b>87.0</b>	<b>(5.7)</b>	<b>247.8</b>
Average	150.2	82.5	(42.0)	190.7
Maximum	196.4	133.4	—	274.6
Minimum	59.0	44.2	—	79.7
<b>Balance at 31 Dec 2019</b>	<b>96.2</b>	<b>62.5</b>	<b>(28.2)</b>	<b>130.5</b>
Average	65.9	44.2	(25.6)	84.5
Maximum	100.1	81.2	0	132.8
Minimum	49.2	26.6	0	60.9

1 Portfolio diversification is the market risk dispersion effect of holding a portfolio containing different risk types. It represents the reduction in unsystematic market risk that occurs when combining a number of different risk types – such as interest rate, equity and foreign exchange – together in one portfolio. It is measured as the difference between the sum of the VaR by individual risk type and the combined total VaR. A negative number represents the benefit of portfolio diversification. As the maximum and minimum occurs on different days for different risk types, it is not meaningful to calculate a portfolio diversification benefit for these measures.

2 The total VaR is non-additive across risk types due to diversification effects.

## Risk

Non-trading VaR excludes equity risk on securities held at fair value, structural foreign exchange risk and interest rate risk on fixed-rate securities issued by HSBC Holdings. HSBC's management of market risks in non-trading books is described further in the Treasury Risk section.

### Market risk balance sheet linkages

The following balance sheet lines in the Group's consolidated position are subject to market risk:

#### Trading assets and liabilities

The Group's trading assets and liabilities are in almost all cases originated by GBM. These assets and liabilities are treated as traded risk for the purposes of market risk management, other than a limited number of exceptions, primarily in Global Banking where the short-term acquisition and disposal of the assets are linked to other non-trading-related activities such as loan origination.

#### Derivative assets and liabilities

We undertake derivative activity for three primary purposes: to create risk management solutions for clients, to manage the portfolio risks arising from client business, and to manage and hedge our own risks. Most of our derivative exposures arise from sales and trading activities within GBM. The assets and liabilities included in trading VaR give rise to a large proportion of the income included in net income from financial instruments held for trading or managed on a fair value basis. Adjustments to trading income such as valuation adjustments are not measured by the trading VaR model.

*For information on the accounting policies applied to financial instruments at fair value, see Note 1 on the financial statements*

---

## Resilience risk

### Overview

Resilience risk is the risk that we are unable to provide critical services to our customers, affiliates and counterparties, as a result of sustained and significant operational disruption. Resilience risk arises from failures or inadequacies in processes, people, systems or external events.

### Resilience risk management

#### Key developments in 2020

In line with the increasing expectations from customers, regulators and the Board, and in response to a continually evolving threat landscape that the wider industry faces, we combined Operational Risk and Resilience Risk to form a new Operational and Resilience Risk sub-function. This sub-function provides robust non-financial risk steward oversight of the management of risk by the Group businesses, functions, legal entities and critical business services. It also provides effective and timely independent challenge. We carried out several initiatives during the year:

- We developed regional hubs accountable for core Operational and Resilience Risk activities.
- We implemented teams aligned to businesses and functions, which were focused on emerging risks as well as material products and services.
- We deployed risk management oversight of the most material transformation programmes across the Group.
- We implemented central services including governance, reporting and transformation.
- We created a stand-alone assurance capability that provides independent review and evaluation of end-to-end processes, risks and key controls.

We prioritise our efforts on material risks and areas undergoing strategic growth, aligning our location strategy to this need. We also remotely provide oversight and stewardship, including support of chief risk officers, in territories where we have no physical presence.

### Governance and structure

The Operational and Resilience Risk target operating model provides a globally consistent view across resilience risks, strengthening our risk management oversight while operating effectively as part of a simplified non-financial risk structure. We view resilience risk across seven risk types related to: third parties and supply chains; information, technology and cybersecurity; payments and manual processing; physical security; business interruption and contingency risk; building unavailability; and workplace safety.

A principal senior management meeting for operational and resilience risk governance is the Non-Financial Risk Management Board, chaired by the Group Chief Risk Officer, with an escalation path to the Group Risk Management Meeting.

### Key risk management processes

Operational resilience is our ability to anticipate, prevent, adapt, respond to, recover and learn from internal or external disruption, protecting customers, the markets we operate in and economic stability. Resilience is determined by assessing whether we are able to continue to provide our most important services, within an agreed level. We accept we will not be able to prevent all disruption but we prioritise investment to continually improve the response and recovery strategies for our most important business services.

### Business operations continuity

As a result of the Covid-19 outbreak, we successfully implemented business continuity responses and continue to maintain the majority of service level agreements. We did not experience any major impacts to the supply chain from our third-party service providers due to the pandemic. The risk of damage or theft to our physical assets or criminal injury to our colleagues remains unchanged and no significant incidents impacted our buildings or people.

---

## Regulatory compliance risk

### Overview

Regulatory compliance risk is the risk that we fail to observe the letter and spirit of all relevant laws, codes, rules, regulations and standards of good market practice, which as a consequence incur fines and penalties and suffer damage to our business.

Regulatory compliance risk arises from the risks associated with breaching our duty to our customers and inappropriate market conduct, as well as breaching regulatory licensing, permissions and rules.

### Regulatory compliance risk management

#### Key developments in 2020

In 2020, we made changes to our wider approach to the governance and structure of the Compliance function and continued to raise standards related to the conduct of our business, as set out below.

### Governance and structure

In May, we introduced a new operating model to transform the Compliance function. We created a new Group capability called Group Regulatory Conduct, which was formed from the regulatory compliance and regulatory affairs capabilities, and the monitor liaison office team. The Group Head of Regulatory Conduct continues to report to the Group Chief Compliance Officer. The Group Regulatory Conduct capability works with the newly appointed regional chief compliance officers and their respective teams to help them identify and manage regulatory compliance risks across the Group. They also work together to ensure good conduct outcomes and provide enterprise-wide support on the regulatory agenda.

### Key risk management processes

The Group Regulatory Conduct capability is responsible for setting global policies, standards and risk appetite to guide the Group's management of regulatory compliance. It also devises clear

frameworks and support processes to protect against regulatory compliance risks. The capability provides oversight, review and challenge to the regional chief compliance officers and their teams to help them identify, assess and mitigate regulatory compliance risks, where required. The Group's regulatory compliance risk policies are regularly reviewed. Global policies and procedures require the prompt identification and escalation of any actual or potential regulatory breach. Relevant reportable events are escalated to the Group RMM and the GRC, as appropriate.

## Conduct of business

In 2020, we continued to promote and encourage good conduct through our people's behaviour and decision making to deliver fair outcomes for our customers, and to maintain financial market integrity. During 2020:

- We continued to champion a strong conduct and customer-focused culture. We implemented a number of measures throughout the Covid-19 outbreak to support our customers in financial difficulties. We also maintained service and supported colleagues in unprecedented conditions.
- We continued our focus on culture and behaviours, adapting our controls and risk management processes to reflect significant levels of remote working throughout the year.
- We continued to invest significant resources to improve our compliance systems and controls relating to our activities in Global Markets and to ensure market integrity. These included enhancements to: pricing and disclosure, order management and trade execution; trade; voice and audio surveillance; front office supervision; and the enforcement and discipline framework for employee misconduct.
- We continued to emphasise – and worked to create – an environment in which employees are encouraged and feel safe to speak up. We placed a particular focus on the importance of well-being during the pandemic through regular top-down communications, virtual town halls, videos and podcasts.
- We continued to embed conduct within our business line processes. We also considered and sought to mitigate the conduct impacts of the Group's strategic transformation programme and other key business change programmes, including those relating to the UK's departure from the EU and the labor transition.
- We delivered our sixth annual global mandatory training course on conduct to reinforce the importance of conduct for all colleagues.
- We are refreshing our approach to conduct arrangements across the Group with a view to ensuring that the arrangements remain appropriate for the nature of our business.

The Board continues to maintain oversight of conduct matters through the GRC.

*Further details can be found under the 'Our conduct' section of [www.hsbc.com/our-approach/risk-and-responsibility](http://www.hsbc.com/our-approach/risk-and-responsibility).*

## Financial crime risk

### Overview

Financial crime risk is the risk of knowingly or unknowingly helping parties to commit or to further illegal activity through HSBC, including money laundering, fraud, bribery and corruption, tax evasion, sanctions breaches, and terrorist and proliferation financing. Financial crime risk arises from day-to-day banking operations involving customers, third parties and employees.

### Financial crime risk management

#### Key developments in 2020

In 2020, we continued to strengthen our fight against financial crime and to enhance our financial crime risk management capability. Amid the challenges posed by the Covid-19 outbreak, we introduced a number of financial crime risk management

measures during this period to support the business and our customers. These included:

- We supported the most vulnerable customers and those in financial difficulty, including by increasing the awareness of fraud during this period.
- The Compliance function proactively engaged with other parts of the organisation to ensure financial crime risks were considered as part of Covid-19-related decisions.
- Compliance colleagues were seconded to other parts of the organisation to assist with supporting the establishment of government relief measures.
- We supported customers and the organisation through policy exceptions, including by allowing email instructions instead of face-to-face meetings, and introducing virtual onboarding.

We consistently review the effectiveness of our financial crime risk management framework, which includes consideration of geopolitical and wider economic factors. The sanctions regulatory environment remained changeable and uncertain during the course of 2020 due to the ongoing geopolitical tensions between the US and China, the end of the transition period following the UK's departure from the EU, and the increasing divergence in sanctions policies between the US and the EU on Iran and Russia. Our policy is to comply with all applicable sanctions regulations in the jurisdictions in which we operate, and we continue to monitor the geopolitical landscape for ongoing developments. We also continued to progress several key financial crime risk management initiatives, including:

- We continued to strengthen our anti-fraud capabilities, focusing on threats posed by new and existing technologies, and have delivered a comprehensive fraud training programme across the Group.
- We continued to invest in the use of artificial intelligence ('AI') and advanced analytics techniques to manage financial crime risk, and we published our principles for the ethical use of Big Data and AI.
- We continued to work on strengthening our ability to combat money laundering and terrorist financing. In particular, we focused on the use of technology to enhance our risk management processes while minimising the impact to the customer. We also continued to develop our approach of intelligence-led financial crime risk management, in part, through enhancements to our automated transaction monitoring systems.

### Governance and structure

Since establishing a global framework of financial crime risk management committees in 2018, we have continued to strengthen and review the effectiveness of our governance framework to manage financial crime risk. Formal governance committees are held across all countries, territories, regions and global businesses, and are chaired by the respective chief executive officers. They help to enable compliance with the letter and the spirit of all applicable financial crime laws and regulations, as well as our own standards, values and policies relating to financial crime risks. At a Group level, the Financial Crime Risk Management Meeting, chaired by the Group Chief Compliance Officer, has served as the pinnacle of this governance structure, ultimately responsible for the management of financial crime risk. As a reflection of the growing maturity and effectiveness of our financial crime risk management, this meeting was integrated with the Group Risk Management Meeting in January 2021. During the course of 2021, we will review the management of financial crime risk across the Group to identify other areas that could be simplified.

During 2020, we redesigned and delivered an integrated operating model for our Compliance function, with the accompanying restructure providing greater accountability to our regional Compliance teams. These teams, led by regional chief compliance officers, will support the Group Chief Compliance Officer in aligning the way in which we manage all compliance risks, including financial crime risk, to the needs and aims of the wider

## Risk

business. They will also support making our compliance risk management processes and procedures more efficient and effective.

### Key risk management processes

We continued to deliver a programme to further enhance the policies and controls around identifying and managing the risks of bribery and corruption across our business. Recognising that the fight against financial crime is a constant challenge, we maintained our investment in operational controls and new technology to deter and detect criminal activity in the banking system. We continued to simplify our governance and policy frameworks, and our management information reporting process, which demonstrates the effectiveness of our financial crime controls. We remain committed to enhancing our risk assessment capabilities and to delivering more proactive risk management, including our ongoing investment in the next generation of capabilities to fight financial crime by applying advanced analytics and AI.

We are committed to working in partnership with the wider industry and the public sector in managing financial crime risk, protecting the integrity of the financial system, and helping to protect the communities we serve. We are a strong advocate of public-private partnerships and participate in a number of information-sharing initiatives around the world. We are a constructive partner to national governments and international standard setters, and support reforms being undertaken in key markets such as the UK and the EU where the Group is represented on the joint public-private Economic Crime Strategic Board and the Centre for European Policy Studies taskforce on anti-money laundering, respectively. We also work closely with peer banks in Singapore, and with the Monetary Authority of Singapore. In the US, we are a member of the Bank Secrecy Act Advisory Group, which has put forward recommendations for reform that have been supported by the US Treasury and the Financial Crimes Enforcement Network.

We have been an advocate for a more effective international framework for managing financial crime risk, whether through engaging directly with intergovernmental bodies such as the Financial Action Task Force, or via our key role in industry groups such as the Wolfsberg Group and the Institute of International Finance.

### Skilled Person/Independent Consultant

In December 2012, HSBC Holdings entered into a number of agreements, including an undertaking with the UK Financial Services Authority (replaced with a Direction issued by the UK Financial Conduct Authority ('FCA') in 2013 and again in 2020), as well as a cease-and-desist order with the US Federal Reserve Board ('FRB'), both of which contained certain forward-looking anti-money laundering ('AML') and sanctions-related obligations. HSBC also agreed to retain an independent compliance monitor (who was, for FCA purposes, a 'Skilled Person' under section 166 of the Financial Services and Markets Act and, for FRB purposes, an 'Independent Consultant') to produce periodic assessments of the Group's AML and sanctions compliance programme.

In 2020, HSBC's engagement with the independent compliance monitor, acting in his roles as both Skilled Person and Independent Consultant, concluded. The role of FCA Skilled Person was assigned to a new individual in the second quarter of 2020. Separately, a new FRB Independent Consultant will be appointed pursuant to the cease-and-desist order.

The new Skilled Person has a narrower mandate to assess the remaining areas that require further work in order for HSBC to transition fully to business-as-usual financial crime risk management. The review is ongoing and is expected to complete later in 2021. The new Independent Consultant is expected to carry out the eighth annual review for the FRB during 2021.

In accordance with the Direction issued by the FCA to HSBC Holdings in 2020, the Group Risk Committee retains oversight of matters relating to anti-money laundering, sanctions, terrorist financing and proliferation financing. Throughout 2020, the Group

Risk Committee received regular updates on the Skilled Person's and the Independent Consultant's reviews.

## Model risk

### Overview

Model risk is the potential for adverse consequences from business decisions informed by models, which can be exacerbated by errors in methodology, design or the way they are used. Model risk arises in both financial and non-financial contexts whenever business decision making includes reliance on models.

### Key developments in 2020

In 2020, we carried out a number of initiatives to further develop and embed the Model Risk Management sub-function, including:

- We appointed a Group Chief Model Risk Officer, which is a senior role reporting to the Group Chief Risk Officer.
- We updated the model risk policy and introduced model risk standards to enable a more risk-based approach to model risk management while retaining a consistent approach.
- Working with the businesses and functions, new model risk controls were developed in the risk control library. These controls formed the basis for model risk control assessments that have been implemented for businesses and functions.
- We updated the target operating model for Model Risk Management, referring to internal and industry best practice and added risk stewards for key businesses, functions and legal vehicles. The risk stewards will also provide close monitoring of changes in model behaviour, working closely with business and function model owners and sponsors.
- The independent model validation team began a transformation programme that will use advanced analytics and new workflow tools, with the objective of providing a more risk-based, efficient and effective management of model validation processes.
- The consequences of the Covid-19 outbreak on model performance and reliability resulted in enhanced monitoring of models and related model adjustments. Dramatic changes to model inputs such as GDP and unemployment rates made the model results unreliable. Model performance limitations have been most pronounced for IFRS 9 models, which calculate expected credit losses. As a result, greater reliance has been placed on management underlays and overlays based on business judgement to derive expected credit losses.
- New IFRS 9 models for portfolios that required the largest model overlays during 2020 have been redeveloped, validated and implemented in the fourth quarter of 2020. Limited new data was available for the use in the recalibrations, therefore judgemental post-model adjustments were required to allow for the economic effects of the pandemic not captured by the models.

### Governance and structure

We placed greater focus on our model risk activities during 2020, and to reflect this, we elevated Model Risk Management to a function in its own right within the Global Risk structure. Previously, structured as a sub-function within the Global Risk Strategy function, the team now reports directly to the Group Chief Risk Officer. Regional Model Risk Management teams support and advise all areas of the Group.

### Key risk management processes

We use a variety of modelling approaches, including regression, simulation, sampling, machine learning and judgemental scorecards for a range of business applications. These activities include customer selection, product pricing, financial crime transaction monitoring, creditworthiness evaluation and financial reporting. Global responsibility for managing model risk is delegated from the RMM to the Group Model Risk Committee, which is chaired by the Group Chief Risk Officer. This committee regularly reviews our model risk management policies and procedures, and requires the first line of defence to demonstrate

comprehensive and effective controls based on a library of model risk controls provided by Model Risk Management.

Model Risk Management also reports on model risk to senior management on a regular basis through the use of the risk map, risk appetite metrics and top and emerging risks.

We regularly review the effectiveness of these processes, including the model oversight committee structure, to help ensure appropriate understanding and ownership of model risk is embedded in the businesses and functions.

## Insurance manufacturing operations risk

	Page
Overview	231
Insurance manufacturing operations risk management	231
Measurement	232
Key risk types	234
– Market risk	234
– Credit risk	235
– Capital and liquidity risk	235
– Insurance risk	236

### Overview

The majority of the risk in our insurance business derives from manufacturing activities and can be categorised as financial risk or insurance risk. Financial risks include market risk, credit risk and liquidity risk. Insurance risk is the risk, other than financial risk, of loss transferred from the holder of the insurance contract to HSBC, the issuer.

#### HSBC's bancassurance model

We operate an integrated bancassurance model that provides insurance products principally for customers with whom we have a banking relationship.

The insurance contracts we sell relate to the underlying needs of our banking customers, which we can identify from our point-of-sale contacts and customer knowledge. For the products we manufacture, the majority of sales are of savings, universal life and credit and term life contracts.

We choose to manufacture these insurance products in HSBC subsidiaries based on an assessment of operational scale and risk appetite. Manufacturing insurance allows us to retain the risks and rewards associated with writing insurance contracts by keeping part of the underwriting profit and investment income within the Group.

We have life insurance manufacturing subsidiaries in eight countries and territories, which are Hong Kong, France, Singapore, the UK, mainland China, Malta, Mexico and Argentina. We also have a life insurance manufacturing associate in India.

Where we do not have the risk appetite or operational scale to be an effective insurance manufacturer, we engage with a small number of leading external insurance companies in order to provide insurance products to our customers through our banking network and direct channels. These arrangements are generally structured with our exclusive strategic partners and earn the Group a combination of commissions, fees and a share of profits. We distribute insurance products in all of our geographical regions.

Insurance products are sold worldwide through branches, direct channels and third-party distributors.

### Insurance manufacturing operations risk management

#### Key developments in 2020

There were no material changes to the insurance risk management framework in 2020. Policies and practices for the management of risks associated with the selling of insurance contracts outside of bancassurance channels were enhanced in response to this being an increasing area of importance for the insurance business. Also, enhancements were made to the capital risk framework for

insurance operations to better align to the Group's capital risk framework.

### Governance and structure

(Audited)

Insurance risks are managed to a defined risk appetite, which is aligned to the Group's risk appetite and risk management framework, including its three lines of defence model. For details of the Group's governance framework, see page 132. The Global Insurance Risk Management Meeting oversees the control framework globally and is accountable to the WPB Risk Management Meeting on risk matters relating to the insurance business.

The monitoring of the risks within our insurance operations is carried out by insurance risk teams. Specific risk functions, including Wholesale Credit and Market Risk, Operational and Resilience Risk, and Compliance, support Insurance Risk teams in their respective areas of expertise.

### Stress and scenario testing

(Audited)

Stress testing forms a key part of the risk management framework for the insurance business. We participate in local and Group-wide regulatory stress tests, as well as internally-developed stress and scenario tests, including Group internal stress test exercises.

These have highlighted that a key risk scenario for the insurance business is a prolonged low interest-rate environment. In order to mitigate the impact of this scenario, the insurance operations have taken a number of actions, including repricing some products to reflect lower interest rates, launching less capital intensive products, investing in more capital efficient assets and developing investment strategies to optimise the expected returns against the cost of economic capital.

### Key risk management processes

#### Market risk

(Audited)

All our insurance manufacturing subsidiaries have market risk mandates that specify the investment instruments in which they are permitted to invest and the maximum quantum of market risk that they may retain. They manage market risk by using, among others, some or all of the techniques listed below, depending on the nature of the contracts written:

- We are able to adjust bonus rates to manage the liabilities to policyholders for products with discretionary participating features ('DPF'). The effect is that a significant portion of the market risk is borne by the policyholder.
- We use asset and liability matching where asset portfolios are structured to support projected liability cash flows. The Group manages its assets using an approach that considers asset quality, diversification, cash flow matching, liquidity, volatility and target investment return. It is not always possible to match asset and liability durations due to uncertainty over the receipt of all future premiums, the timing of claims and because the forecast payment dates of liabilities may exceed the duration of the longest dated investments available. We use models to assess the effect of a range of future scenarios on the values of financial assets and associated liabilities, and ALCOs employ the outcomes in determining how best to structure asset holdings to support liabilities.
- We use derivatives to protect against adverse market movements to better match liability cash flows.
- For new products with investment guarantees, we consider the cost when determining the level of premiums or the price structure.
- We periodically review products identified as higher risk, such as those that contain investment guarantees and embedded optionality features linked to savings and investment products, for active management.

## Risk

- We design new products to mitigate market risk, such as changing the investment return sharing portion between policyholders and the shareholder.
- We exit, to the extent possible, investment portfolios whose risk is considered unacceptable.
- We reprice premiums charged on new contracts to policyholders.

### Credit risk

(Audited)

Our insurance manufacturing subsidiaries are responsible for the credit risk, quality and performance of their investment portfolios. Our assessment of the creditworthiness of issuers and counterparties is based primarily upon internationally recognised credit ratings and other publicly available information.

Investment credit exposures are monitored against limits by our insurance manufacturing subsidiaries and are aggregated and reported to the Group Insurance Credit Risk and Group Credit Risk functions. Stress testing is performed on investment credit exposures using credit spread sensitivities and default probabilities.

We use a number of tools to manage and monitor credit risk. These include a credit report containing a watch-list of investments with current credit concerns, primarily investments that may be at risk of future impairment or where high concentrations to counterparties are present in the investment portfolio. Sensitivities to credit spread risk are assessed and monitored regularly.

### Liquidity risk

(Audited)

Risk is managed by cash flow matching and maintaining sufficient cash resources, investing in high credit-quality investments with deep and liquid markets, monitoring investment concentrations and restricting them where appropriate, and establishing committed contingency borrowing facilities.

Insurance manufacturing subsidiaries complete quarterly liquidity risk reports and an annual review of the liquidity risks to which they are exposed.

### Insurance risk

HSBC Insurance primarily uses the following techniques to manage and mitigate insurance risk:

- a formalised product approval process covering product design, pricing and overall proposition management (for example, management of lapses by introducing surrender charges);
- underwriting policy;
- claims management processes; and
- reinsurance which cedes risks above our acceptable thresholds to an external reinsurer thereby limiting our exposure.

### Insurance manufacturing operations risk in 2020

#### Measurement

(Audited)

The risk profile of our insurance manufacturing businesses is measured using an economic capital approach. Assets and liabilities are measured on a market value basis, and a capital requirement is defined to ensure that there is a less than one-in-200 chance of insolvency over a one-year time horizon, given the risks to which the businesses are exposed. The methodology for the economic capital calculation is largely aligned to the pan-European Solvency II insurance capital regulations. The economic capital coverage ratio (economic net asset value divided by the economic capital requirement) is a key risk appetite measure.

The Covid-19 outbreak caused sales of insurance products to be lower than forecast in 2020, although we responded by expanding digital and remote servicing capabilities. To date there has been limited impact on claims or lapse behaviours, although this remains under close monitoring. The largest effect on insurance entities came from volatility in the financial markets and the material fall in interest rates, which impact levels of capital and profitability. Businesses responded by executing de-risking strategies followed by subsequent re-risking of positions as markets recovered. Enhanced monitoring of risks and pricing conditions continues.



The following tables show the composition of assets and liabilities by contract type and by geographical region.

**Balance sheet of insurance manufacturing subsidiaries by type of contract<sup>1</sup>**

(Audited)

Footnotes	With DPF \$m	Unit-linked \$m	Other contracts <sup>2</sup> \$m	Shareholder assets and liabilities \$m	Total \$m
Financial assets	84,478	8,802	18,932	8,915	121,127
– trading assets	–	–	–	–	–
– financial assets designated and otherwise mandatorily measured at fair value through profit or loss	26,002	8,558	3,508	1,485	39,553
– derivatives	262	3	13	3	281
– financial investments at amortised cost	39,891	30	13,984	4,521	58,426
– financial investments at fair value through other comprehensive income	12,531	–	459	1,931	14,921
– other financial assets <sup>3</sup>	5,792	211	968	975	7,946
Reinsurance assets	2,256	65	1,447	2	3,770
PVIF <sup>4</sup>	–	–	–	9,435	9,435
Other assets and investment properties	2,628	1	227	721	3,577
<b>Total assets</b>	<b>89,362</b>	<b>8,868</b>	<b>20,606</b>	<b>19,073</b>	<b>137,909</b>
Liabilities under investment contracts designated at fair value	–	2,285	4,100	–	6,385
Liabilities under insurance contracts	84,931	6,503	15,827	–	107,261
Deferred tax <sup>5</sup>	145	5	25	1,400	1,575
Other liabilities	–	–	–	7,244	7,244
<b>Total liabilities</b>	<b>85,076</b>	<b>8,793</b>	<b>19,952</b>	<b>8,644</b>	<b>122,465</b>
Total equity	–	–	–	15,444	15,444
<b>Total liabilities and equity at 31 Dec 2020</b>	<b>85,076</b>	<b>8,793</b>	<b>19,952</b>	<b>24,088</b>	<b>137,909</b>
Financial assets	73,929	7,333	17,514	8,269	107,045
– trading assets	–	–	–	–	–
– financial assets designated and otherwise mandatorily measured at fair value through profit or loss	21,652	7,119	3,081	2,426	34,278
– derivatives	202	(6)	9	3	208
– financial investments at amortised cost	35,299	18	13,436	4,076	52,829
– financial investments at fair value through other comprehensive income	12,447	–	445	1,136	14,028
– other financial assets <sup>3</sup>	4,329	202	543	628	5,702
Reinsurance assets	2,208	72	1,563	1	3,844
PVIF <sup>4</sup>	–	–	–	8,945	8,945
Other assets and investment properties	2,495	2	211	602	3,310
<b>Total assets</b>	<b>78,632</b>	<b>7,407</b>	<b>19,288</b>	<b>17,817</b>	<b>123,144</b>
Liabilities under investment contracts designated at fair value	–	2,011	3,881	–	5,892
Liabilities under insurance contracts	77,147	6,151	14,141	–	97,439
Deferred tax <sup>5</sup>	197	23	6	1,297	1,523
Other liabilities	–	–	–	4,410	4,410
<b>Total liabilities</b>	<b>77,344</b>	<b>8,185</b>	<b>18,028</b>	<b>5,707</b>	<b>109,264</b>
Total equity	–	–	–	13,879	13,879
<b>Total liabilities and equity at 31 Dec 2019</b>	<b>77,344</b>	<b>8,185</b>	<b>18,028</b>	<b>19,586</b>	<b>123,143</b>

<sup>1</sup> Balance sheet of insurance manufacturing operations are shown before elimination of inter-company transactions with HSBC non-insurance operations.

<sup>2</sup> 'Other Contracts' includes term insurance, credit life insurance, universal life insurance and investment contracts not included in the 'Unit-linked' or 'With DPF' columns.

<sup>3</sup> Comprise mainly loans and advances to banks, cash and inter-company balances with other non-insurance legal entities.

<sup>4</sup> Present value of in-force long-term insurance business.

<sup>5</sup> 'Deferred tax' includes the deferred tax liabilities arising on recognition of PVIF.

## Risk

### Balance sheet of insurance manufacturing subsidiaries by geographical region<sup>1,2</sup>

(Audited)

	Footnotes	Europe \$m	Asia \$m	Latin America \$m	Total \$m
Financial assets		34,768	85,259	1,100	121,127
– trading assets		–	–	–	–
– financial assets designated and otherwise mandatorily measured at fair value through profit or loss		17,184	22,099	270	39,553
– derivatives		107	174	–	281
– financial investments – at amortised cost		531	57,420	475	58,426
– financial investments – at fair value through other comprehensive income		13,894	706	321	14,921
– other financial assets	3	3,052	4,860	34	7,946
Reinsurance assets		245	3,521	4	3,770
PVIF	4	884	8,390	161	9,435
Other assets and investment properties		1,189	2,332	56	3,577
<b>Total assets</b>		<b>37,086</b>	<b>99,502</b>	<b>1,321</b>	<b>137,909</b>
Liabilities under investment contracts designated at fair value		1,288	5,097	–	6,385
Liabilities under insurance contracts		31,153	74,994	1,114	107,261
Deferred tax	5	204	1,348	23	1,575
Other liabilities		2,426	4,800	18	7,244
<b>Total liabilities</b>		<b>35,071</b>	<b>86,239</b>	<b>1,155</b>	<b>122,465</b>
Total equity		2,015	13,263	166	15,444
<b>Total liabilities and equity at 31 Dec 2020</b>		<b>37,086</b>	<b>99,502</b>	<b>1,321</b>	<b>137,909</b>

Financial assets		31,613	74,237	1,195	107,045
– trading assets		–	–	–	–
– financial assets designated and otherwise mandatorily measured at fair value through profit or loss		15,490	18,562	226	34,278
– derivatives		84	124	–	208
– financial investments – at amortised cost		100	52,186	543	52,829
– financial investments – at fair value through other comprehensive income		13,071	582	375	14,028
– other financial assets	3	2,868	2,783	51	5,702
Reinsurance assets		237	3,604	3	3,844
PVIF	4	945	7,841	159	8,945
Other assets and investment properties		1,085	2,176	49	3,310
<b>Total assets</b>		<b>33,880</b>	<b>87,858</b>	<b>1,406</b>	<b>123,144</b>
Liabilities under investment contracts designated at fair value		1,139	4,753	–	5,892
Liabilities under insurance contracts		28,437	67,884	1,118	97,439
Deferred tax	5	229	1,275	19	1,523
Other liabilities		2,212	2,172	26	4,410
<b>Total liabilities</b>		<b>32,017</b>	<b>76,084</b>	<b>1,163</b>	<b>109,264</b>
Total equity		1,862	11,774	243	13,879
<b>Total liabilities and equity at 31 Dec 2019</b>		<b>33,879</b>	<b>87,858</b>	<b>1,406</b>	<b>123,143</b>

1 HSBC has no insurance manufacturing subsidiaries in the Middle East and North Africa or North America.

2 Balance sheet of insurance manufacturing operations are shown before elimination of inter-company transactions with HSBC non-insurance operations.

3 Comprise mainly loans and advances to banks, cash and inter-company balances with other non-insurance legal entities.

4 Present value of in-force long-term insurance business.

5 'Deferred tax' includes the deferred tax liabilities arising on recognition of PVIF.

### Key risk types

The key risks for the insurance operations are market risks, in particular interest rate and equity, and credit risks, followed by insurance underwriting risk and operational risks. Liquidity risk, while significant for the bank, is minor for our insurance operations.

#### Market risk

(Audited)

#### Description and exposure

Market risk is the risk of changes in market factors affecting HSBC's capital or profit. Market factors include interest rates, equity and growth assets and foreign exchange rates.

Our exposure varies depending on the type of contract issued. Our most significant life insurance products are contracts with discretionary participating features ('DPF') issued in France and Hong Kong. These products typically include some form of capital guarantee or guaranteed return on the sums invested by the policyholders, to which discretionary bonuses are added if allowed by the overall performance of the funds. These funds are primarily

invested in bonds, with a proportion allocated to other asset classes to provide customers with the potential for enhanced returns.

DPF products expose HSBC to the risk of variation in asset returns, which will impact our participation in the investment performance.

In addition, in some scenarios the asset returns can become insufficient to cover the policyholders' financial guarantees, in which case the shortfall has to be met by HSBC. Amounts are held against the cost of such guarantees, calculated by stochastic modelling.

The cost of such guarantees is accounted for as a deduction from the present value of in-force ('PVIF') asset, unless the cost of such guarantees is already explicitly allowed for within the insurance contract liabilities under the local rules.

The following table shows the total reserve held for the cost of guarantees, the range of investment returns on assets supporting these products and the implied investment return that would enable the business to meet the guarantees.

The cost of guarantees increased to \$1,105m (2019: \$693m) primarily due to the reduction in swap rates in France and Hong

Kong, partly offset by the impact of modelling changes in France and Hong Kong.

policyholder, but some market risk exposure typically remains, as fees earned are related to the market value of the linked assets.

For unit-linked contracts, market risk is substantially borne by the

### Financial return guarantees

(Audited)

	2020			2019		
	Investment returns implied by guarantee %	Long-term investment returns on relevant portfolios %	Cost of guarantees \$m	Investment returns implied by guarantee %	Long-term investment returns on relevant portfolios %	Cost of guarantees \$m
Capital	0.0	0.7-3.2	277	0.0	1.3-3.9	110
Nominal annual return	0.1-1.9	2.3-3.6	515	0.1-2.0	3.0-4.5	118
Nominal annual return	2.0-3.9	2.0-4.5	180	2.0-4.0	2.4-4.5	355
Nominal annual return	4.0-5.0	2.0-4.2	133	4.1-5.0	2.3-4.1	110
<b>At 31 Dec</b>			<b>1,105</b>			<b>693</b>

### Sensitivities

Changes in financial market factors, from the economic assumptions in place at the start of the year, had a positive impact on reported profit before tax of \$102m (2019: \$124m). The following table illustrates the effects of selected interest rate, equity price and foreign exchange rate scenarios on our profit for the year and the total equity of our insurance manufacturing subsidiaries.

Where appropriate, the effects of the sensitivity tests on profit after tax and equity incorporate the impact of the stress on the PVIF.

Due in part to the impact of the cost of guarantees and hedging strategies, which may be in place, the relationship between the profit and total equity and the risk factors is non-

linear, particularly in a low interest-rate environment. Therefore, the results disclosed should not be extrapolated to measure sensitivities to different levels of stress. For the same reason, the impact of the stress is not necessarily symmetrical on the upside and downside. The sensitivities are stated before allowance for management actions, which may mitigate the effect of changes in the market environment. The sensitivities presented allow for adverse changes in policyholder behaviour that may arise in response to changes in market rates. The differences between the impacts on profit after tax and equity are driven by the changes in value of the bonds measured at fair value through other comprehensive income, which are only accounted for in equity.

### Sensitivity of HSBC's insurance manufacturing subsidiaries to market risk factors

(Audited)

	2020		2019	
	Effect on profit after tax \$m	Effect on total equity \$m	Effect on profit after tax \$m	Effect on total equity \$m
+100 basis point parallel shift in yield curves	(67)	(188)	43	(37)
-100 basis point parallel shift in yield curves	(68)	58	(221)	(138)
10% increase in equity prices	332	332	270	270
10% decrease in equity prices	(338)	(338)	(276)	(276)
10% increase in US dollar exchange rate compared with all currencies	84	84	41	41
10% decrease in US dollar exchange rate compared with all currencies	(84)	(84)	(41)	(41)

### Credit risk

(Audited)

#### Description and exposure

Credit risk is the risk of financial loss if a customer or counterparty fails to meet their obligation under a contract. It arises in two main areas for our insurance manufacturers:

- risk associated with credit spread volatility and default by debt security counterparties after investing premiums to generate a return for policyholders and shareholders; and
- risk of default by reinsurance counterparties and non-reimbursement for claims made after ceding insurance risk.

The amounts outstanding at the balance sheet date in respect of these items are shown in the table on page 233.

The credit quality of the reinsurers' share of liabilities under insurance contracts is assessed as 'satisfactory' or higher (as defined on page 163), with 100% of the exposure being neither past due nor impaired (2019: 100%).

Credit risk on assets supporting unit-linked liabilities is predominantly borne by the policyholder. Therefore, our exposure is primarily related to liabilities under non-linked insurance and investment contracts and shareholders' funds. The credit quality of insurance financial assets is included in the table on page 180.

The risk associated with credit spread volatility is to a large extent mitigated by holding debt securities to maturity, and sharing a degree of credit spread experience with policyholders.

#### Capital and liquidity risk

(Audited)

#### Description and exposure

Liquidity risk is the risk that an insurance operation, though solvent, either does not have sufficient financial resources available to meet its obligations when they fall due, or can secure them only at excessive cost.

The following table shows the expected undiscounted cash flows for insurance liabilities at 31 December 2020. The liquidity risk exposure is wholly borne by the policyholder in the case of unit-linked business and is shared with the policyholder for non-linked insurance.

The profile of the expected maturity of insurance contracts at 31 December 2020 remained comparable with 2019.

The remaining contractual maturity of investment contract liabilities is included in Note 29 on page 382.

## Risk

### Expected maturity of insurance contract liabilities

(Audited)

	Expected cash flows (undiscounted)				
	Within 1 year \$m	1-5 years \$m	5-15 years \$m	Over 15 years \$m	Total \$m
Unit-linked	1,407	3,097	2,976	2,099	9,579
With DPF and Other contracts	8,427	30,156	51,383	75,839	165,805
<b>At 31 Dec 2020</b>	<b>9,834</b>	<b>33,253</b>	<b>54,359</b>	<b>77,938</b>	<b>175,384</b>
Unit-linked	1,296	3,153	2,654	1,955	9,058
With DPF and Other contracts	7,907	26,906	50,576	71,731	157,120
At 31 Dec 2019	9,203	30,059	53,230	73,686	166,178

### Insurance risk

#### Description and exposure

Insurance risk is the risk of loss through adverse experience, in either timing or amount, of insurance underwriting parameters (non-economic assumptions). These parameters include mortality, morbidity, longevity, lapses and unit costs.

The principal risk we face is that, over time, the cost of the contract, including claims and benefits, may exceed the total amount of premiums and investment income received.

The tables on pages 233 and 234 analyse our life insurance risk exposures by type of contract and by geographical region.

The insurance risk profile and related exposures remain largely consistent with those observed at 31 December 2019.

#### Sensitivities

(Audited)

The following table shows the sensitivity of profit and total equity to reasonably possible changes in non-economic assumptions across all our insurance manufacturing subsidiaries.

Mortality and morbidity risk is typically associated with life insurance contracts. The effect on profit of an increase in mortality or morbidity depends on the type of business being written. Our largest exposures to mortality and morbidity risk exist in Hong Kong.

Sensitivity to lapse rates depends on the type of contracts being written. For a portfolio of term assurance, an increase in lapse rates typically has a negative effect on profit due to the loss of future income on the lapsed policies. However, some contract lapses have a positive effect on profit due to the existence of policy surrender charges. We are most sensitive to a change in lapse rates on unit-linked and universal life contracts in Hong Kong and DPF contracts in France.

Expense rate risk is the exposure to a change in the cost of administering insurance contracts. To the extent that increased expenses cannot be passed on to policyholders, an increase in expense rates will have a negative effect on our profits.

### Sensitivity analysis

(Audited)

	2020 \$m	2019 \$m
<b>Effect on profit after tax and total equity at 31 Dec</b>		
Effect on profit after tax and total equity at 10% increase in mortality and/or morbidity rates	(93)	(88)
Effect on profit after tax and total equity at 10% decrease in mortality and/or morbidity rates	98	88
Effect on profit after tax and total equity at 10% increase in lapse rates	(111)	(99)
Effect on profit after tax and total equity at 10% decrease in lapse rates	128	114
Effect on profit after tax and total equity at 10% increase in expense rates	(117)	(106)
Effect on profit after tax and total equity at 10% decrease in expense rates	115	105

# Corporate governance report

- 238** Group Chairman's governance statement
- 240** The Board
- 244** Senior management
- 246** How we are governed
- 251** Board activities during 2020
- 255** Board committees
- 271** Directors' remuneration report
- 299** Share capital and other related disclosures
- 303** Internal control
- 305** Going concern
- 305** Employees
- 308** Statement of compliance

HSBC is committed to high standards of corporate governance. We have a comprehensive range of policies and systems in place designed to ensure that the Group is well managed, with effective oversight and control.

## Group Chairman's governance statement

Despite the challenging environment, the Board remained informed on relevant issues, engaged with stakeholders, and oversaw the development of our new Group purpose and values.



**Mark E Tucker**  
Group Chairman

“Governance improvements will remain an area of focus for the Board and its subsidiaries in the years ahead as the Group aims to achieve its ambition of operating with world-class governance.”

### Dear Shareholder

With the global pandemic and challenging macroeconomic and geopolitical environment, 2020 was an extraordinary year for the Board. These challenges have highlighted the importance of our governance framework and operating practices. Against this backdrop, the Board oversaw the development of the Group's future purpose and strategy led by the Group Chief Executive. We adapted our Board and senior management engagement schedule to ensure that as a Board, we continued to deliver on our responsibilities to our key stakeholders.

As Group Chairman, I am ultimately responsible for the Group's governance arrangements and the effective operation of the Board. I am also responsible for ensuring that the Board sets the right tone from the top of the organisation and monitors the Group's culture. Given the unique challenges faced during 2020 as a result of the Covid-19 outbreak, it was important that the Board was properly informed on a regular basis on all key issues and priorities affecting the Group. To achieve this, we increased our Board communication and met more frequently during 2020, albeit remotely and with scheduling flexed to meet the challenges of Directors based in different time zones. This allowed us to share insights and receive updates on key developments, supported by the attendance of external subject matter experts.

Given the restrictions on travel and large gatherings, and the guidance available to us at the time, we took the decision to hold the 2020 AGM behind closed doors. As we approach our 2021 AGM, we will continue to monitor the situation, and will prioritise the health and safety of the Board, our colleagues and of course our shareholders. Further details will be provided when our Notice of AGM is published on 24 March 2021.

### Board changes

Following a thorough and robust search process, as more fully set out in the Nomination & Corporate Governance Committee report on page 255, the Board unanimously supported the appointment of Noel Quinn as Group Chief Executive on 17 March 2020. Noel has provided strong direction and excellent leadership to HSBC through these unprecedented times.

I would like to thank Sir Jonathan Symonds and Kathleen Casey who stepped down from the Board earlier this year. We subsequently appointed three new Directors, James Forese, Steven Guggenheimer and Eileen Murray, who collectively bring strong universal banking, operational and technology expertise.

While the Board and its committees have operated well in a virtual environment, I do not underestimate the value of in-person meetings. Our three new Directors underwent a successful virtual non-executive Director induction programme during the year and we look forward to welcoming them in person at an appropriate point in the future.

Today we also announce that Laura Cha will step down from the Board at the conclusion of our 2021 AGM in May. On behalf of the Board, I wish to thank Laura for her outstanding dedication and the enormous contribution she has made to the success of HSBC over many years. I greatly appreciate the support and counsel that she has provided to me personally on many occasions since I became the Group Chairman.

The Board initiated a search for suitable candidates to join and strengthen the expertise on the Board, and further enhance our Board diversity and knowledge of Asia. I was delighted that last week we were able to announce the appointment of Dame Carolyn Fairbairn as an independent non-executive Director. Carolyn will bring a wealth of relevant experience to our Board and her appointment will be effective from 1 September 2021. I am pleased to report we are in advanced stages on other searches that will result in further strengthening the Board's skill set.

#### Board evaluation

In line with best practice, the Board and its committees again conducted a review of the effectiveness of our operation and practices.

Our 2019 review identified a number of areas for improvement in the way that the Board operated. We took a number of actions during the second half of 2019 and throughout 2020 to address the areas identified, which contributed to improved effectiveness despite the challenges posed by Covid-19 and the uncertain geopolitical environment.

We took the decision to once again invite Dr Tracy Long, the independent board evaluator, to facilitate our 2020 review, provide assurance on the progress made, and identify any areas where further action was required. Further details of the process, findings and recommendations from the 2020 review can be found on page 253.

#### Subsidiary governance

During the year, the Board requested the Group Company Secretary and Chief Governance Officer to undertake a review of subsidiary governance, including a review of the composition of the principal subsidiary boards. Following this exercise, principal subsidiaries will report to the Nomination & Corporate Governance Committee during 2021 on their future board compositions and succession plans to help ensure that they have

effective and diverse skill sets that are aligned with our future strategy. Further details are set out in the Nomination & Corporate Governance Committee report on page 255.

We enhanced our subsidiary accountability framework, which applies to all subsidiaries within the Group, by supplementing this with clear principles and provisions. The refreshed framework builds on the progress made to enhance Group standards with the aim of achieving world-class governance across all our subsidiaries.

We strengthened connectivity between the HSBC Holdings Board and principal subsidiaries by increasing the frequency of the Chairman's Forum meetings. These monthly meetings – which I chair – are attended by the chairs of the Holdings Board committees and the chairs of the principal subsidiaries' boards. Given the significant uncertainty and challenges that the Group, the industry and wider society encountered in 2020, these more frequent meetings proved hugely beneficial in identifying and navigating the challenges facing the Group globally.

#### Purpose and values

As we developed our purpose and values, the Board undertook significant engagement with key stakeholders. Their input was important and influenced the outcome. It is critical that the values and associated behaviours are embedded across the Group. Senior management's success in embedding the purpose and values will be overseen by the Board. The Board and the Group Executive Committee set the tone from the top by adopting these refreshed values, which will inform the Board's engagement practices and help facilitate an open and collaborative relationship with its stakeholders. The boardroom guidelines, which set out the ways of working between the Board and management and which were implemented in 2020, also support the engagement between the Board and management.

#### Climate commitments

Environmental, social and governance ("ESG") issues have been an area of significant Board focus during 2020. This has been in the form of formal consideration of our strategy and ambitions in relation to ESG and climate issues, as well as training to provide the Board with insight and an understanding of the developing landscape and stakeholder expectations.

Recognising the importance of these matters to our stakeholders, investors and customers, the Board was pleased to announce our updated climate ambition in October 2020. Further information is provided on pages 24 and 44.

#### Workforce engagement

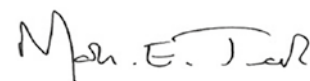
Members of the Board and subsidiary boards engaged actively with our employees during 2020 in line with the requirements of the 2018 UK Corporate Governance Code in relation to workforce engagement.

Despite travel restrictions, all of the non-executive Directors engaged directly with members of the workforce across our global business lines, and through our employee resource groups. This has provided great insight into the views of the wider workforce and gave valuable context for the Directors in informing their discussions at the Board. Further details of our workforce engagement practices during 2020 can be found on page 252.

#### Looking ahead

I am pleased with the progress that the Board and broader Group have made in enhancing our governance practices during 2020. Governance improvements will remain an area of focus for the Board and its subsidiaries in the years ahead as the Group aims to achieve its ambition of operating with world-class governance.

As a result of the Covid-19 outbreak, we have had to adjust how we engage with our shareholders and other stakeholders, with in-person meetings substituted for virtual meetings where necessary. Despite this, we continued to engage fully with institutional investors. With encouraging news regarding successful vaccines, I look forward to resuming in-person engagement practices with our stakeholders when safe to do so.



**Mark E Tucker**  
Group Chairman

23 February 2021

## The Board

The Board aims to promote the Group's long-term success, deliver sustainable value to shareholders and promote a culture of openness and debate.

### Chairman and executive Directors



**Mark E Tucker (63)** ●

**Group Chairman**

*Appointed to the Board: September 2017  
Group Chairman since: October 2017*

**Skills and experience:** With over 30 years' experience in financial services in Asia and the UK, Mark has a deep understanding of the industry and the markets in which we operate.

**Career:** Mark was previously Group Chief Executive and President of AIA Group Limited ('AIA'). Prior to joining AIA, he held various senior management roles with Prudential plc, including as Group Chief Executive for four years. He served on Prudential's Board for 10 years.

Mark previously served as non-executive Director of the Court of The Bank of England, as an independent non-executive Director of Goldman Sachs Group and as Group Finance Director of HBOS plc.

**External appointments:**

- Chair of TheCityUK
- Non-executive Chairman of Discovery Limited
- Member of Build Back Better Council
- Supporting Chair of Chapter Zero



**Noel Quinn (59)**

**Group Chief Executive**

*Appointed to the Board: August 2019  
Group Chief Executive since: March 2020*

**Skills and experience:** Noel has more than 30 years' banking and financial services experience, both in the UK and Asia, with over 28 years at HSBC.

**Career:** Noel was formally named Group Chief Executive in March 2020, having held the role on an interim basis since August 2019. He has held various management roles across HSBC since joining in 1992. He was most recently Chief Executive Officer of Global Commercial Banking, having been appointed to the role in December 2015 and as a Group Managing Director in September 2016. Noel joined Forward Trust Group, a subsidiary of Midland Bank, in 1987 and joined HSBC in 1992 when the Group acquired Midland Bank.

**External appointments:**

- Chair of the Financial Services Task Force of the Sustainable Market Initiative



**Ewen Stevenson (54)**

**Group Chief Financial Officer**

*Appointed to the Board: January 2019*

**Skills and experience:** Ewen has over 25 years' experience in the banking industry, both as an adviser to major banks and as an executive of large financial institutions. In addition to his existing leadership responsibilities for Group Finance, Ewen assumed responsibility for the oversight of the Group's transformation programme in February 2021 and will assume responsibility for the Group's mergers and acquisitions activities in April 2021.

**Career:** Ewen was Chief Financial Officer of Royal Bank of Scotland Group plc from 2014 to 2018. Prior to this, Ewen spent 25 years with Credit Suisse, where his last role was co-Head of the EMEA Investment Banking Division and co-Head of the Global Financial Institutions Group.

**External appointments:** None

**Board committee membership key**

- Committee Chair
- Group Audit Committee
- Group Risk Committee
- Group Remuneration Committee
- Nomination & Corporate Governance Committee

For full biographical details of our Board members, see [www.hsbc.com/who-we-are/leadership](http://www.hsbc.com/who-we-are/leadership).



## Independent non-executive Directors



**Laura Cha, GBM (71)** ●  
**Independent non-executive Director**  
*Appointed to the Board: March 2011*

**Skills and experience:** Laura has extensive regulatory and policymaking experience in the finance and securities sector in Hong Kong and mainland China.

**Career:** Laura was formerly Vice Chairman of the China Securities Regulatory Commission, becoming the first person outside mainland China to join the Central Government of the People's Republic of China at Vice-Ministerial level. The Hong Kong Government awarded her the Grand Bauhinia Medal for public service.

She has previously served as non-executive Director of China Telecom Corporation Limited, Bank of Communications Co., Ltd, and Tata Consultancy Services Limited.

**External appointments:**

- Chair of Hong Kong Exchanges and Clearing Limited
- Non-executive Chair of The Hongkong and Shanghai Banking Corporation Limited
- Non-executive Director of The London Metal Exchange
- Non-executive Director of Unilever PLC



**Henri de Castries (66)** ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: March 2016*

**Skills and experience:** Henri has more than 25 years' international experience in the financial services industry, working in global insurance and asset management.

**Career:** Henri joined AXA S.A. in 1989 and held a number of senior roles, including Chief Executive Officer from 2000. In 2010, he was appointed Chairman and Chief Executive, before stepping down in 2016.

He has previously worked for the French Finance Ministry Inspection Office and the French Treasury Department.

**External appointments:**

- Special Adviser to General Atlantic
- Chairman of Institut Montaigne
- Vice Chairman of Nestlé S.A.
- Non-executive Director of the French National Foundation for Political Science
- Member of the Global Advisory Council at LeapFrog Investments
- Senior Independent non-executive Director of Stellantis NV



**James Forese (58)** ● ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: May 2020*

**Skills and experience:** James has over 30 years' international business and management experience in the finance industry.

**Career:** James formerly served as President of Citigroup. He began his career in securities trading with Salomon Brothers, one of Citigroup's predecessor companies, in 1985. In addition to his most recent role as President and Chief Executive Officer of Citigroup's Institutional Clients Group, he has been Chief Executive of its Securities and Banking division and head of its Global Markets business. On 1 January 2021, he became a non-executive Director of HSBC North America Holdings Inc.

**External appointments:**

- Non-executive Chairman of Global Bamboo Technologies
- Trustee of Colby College



**Steven Guggenheimer (55)** ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: May 2020*

**Skills and experience:** Steven is an experienced technology executive with a strong track record of advising businesses on digital transformation. He brings extensive insight into technologies ranging from artificial intelligence to Cloud computing.

**Career:** Steven has more than 25 years' experience at Microsoft, where he has held a variety of senior leadership roles. These include: Corporate Vice President for AI Business; Corporate Vice President of AI and ISV Engagement; Chief Evangelist; and Corporate Vice President, Original Equipment Manufacturer.

**External appointments:**

- Non-executive Director of Forrit Technologies Limited
- Advisor to Tensility Venture Fund
- Advisory Board Member of 5G Open Innovation Lab

## Independent non-executive Directors



**Irene Lee** (67) ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: July 2015*

**Skills and experience:** Irene has more than 40 years' experience in the finance industry, having held senior investment banking and fund management roles in the UK, the US and Australia.

**Career:** Irene held senior positions at Citibank, the Commonwealth Bank of Australia and SealCorp Holdings Limited.

Other past appointments include being a member of the Advisory Council for J.P. Morgan Australia, a member of the Australian Government Takeovers Panel and a non-executive Director of Cathay Pacific Airways Limited.

**External appointments:**

- Executive Chair of Hysan Development Company Limited
- Non-executive Director of The Hongkong and Shanghai Banking Corporation Limited
- Non-executive Director of Hang Seng Bank Limited
- Member of the Exchange Fund Advisory Committee of the Hong Kong Monetary Authority.
- Chair of Hang Seng Bank Limited (from the conclusion of its 2021 AGM)



**Dr José Antonio Meade Kuribreña** (51) ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: March 2019*

**Skills and experience:** José has extensive experience across a number of industries, including in public administration, banking, financial policy and foreign affairs.

**Career:** Between 2011 and 2017, José held Cabinet-level positions in the federal government of Mexico, including as Secretary of Finance and Public Credit, Secretary of Social Development, Secretary of Foreign Affairs and Secretary of Energy. Prior to his appointment to the Cabinet, he served as Undersecretary and as Chief of Staff in the Ministry of Finance and Public Credit.

José is also a former Director General of Banking and Savings at the Ministry of Finance and Public Credit and served as Chief Executive Officer of the National Bank for Rural Credit.

**External appointments:**

- Commissioner and Board Member of the Global Commission on Adaptation
- Non-executive Director of Alfa S.A.B. de C.V.



**Heidi Miller** (67) ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: September 2014*

**Skills and experience:** Heidi has more than 30 years' senior management experience in international banking and finance.

**Career:** Heidi was President of International at J.P. Morgan Chase & Co. between 2010 and 2012 where she led the bank's global expansion and international business strategy across the investment bank, asset management, and treasury and securities services divisions. Previously, she ran the treasury and securities services division for six years.

Other past roles included Chief Financial Officer of Bank One Corporation and Senior Executive Vice President of Priceline.com Inc.

She has previously served in non-executive Director roles for General Mills Inc., Merck & Co Inc. and Progressive Corp. She was also a trustee of the International Financial Reporting Standards Foundation. She is currently Chair of HSBC North America Holdings Inc.

**External appointments:**

- Non-executive Director of Fiserv Inc.
- Chair of the Audit Committee of Fiserv, Inc.



**Eileen Murray** (62) ● ○ ●  
**Independent non-executive Director**  
*Appointed to the Board: July 2020*

**Skills and experience:** Eileen is an accomplished executive with extensive knowledge in financial technology and corporate strategy from a career spanning more than 40 years.

**Career:** Eileen most recently served as co-Chief Executive Officer of Bridgewater Associates, LP. Prior to joining Bridgewater, she was Chief Executive Officer for Investment Risk Management LLC and President and co-Chief Executive Officer of Duff Capital Advisors.

She started her professional career in 1984 at Morgan Stanley, where she held several senior positions including Controller, Treasurer, and Global Head of Technology and Operations, as well as Chief Operating Officer for its Institutional Securities Group. From 2002 to 2005, she was Head of Global Technology, Operations and Product Control at Credit Suisse and served on its management and executive board.

**External appointments:**

- Chair of the Financial Industry Regulatory Authority
- Non-executive Director of Compass
- Non-executive Director of Guardian Life Insurance Company of America
- Director of HumanityCorp
- Non-executive Director of Atlas Crest Investment Corp.



**David Nish (60)** ●○○○●  
**Independent non-executive Director**  
*Appointed to the Board: May 2016*  
*Senior Independent non-executive Director since February 2020*

**Skills and experience:** David has substantial international experience of financial services, corporate governance, financial accounting and operational transformation.

**Career:** David served as Group Chief Executive Officer of Standard Life plc between 2010 and 2015, having joined the company in 2006 as Group Finance Director. He is also a former Group Finance Director of Scottish Power plc and was a partner at Price Waterhouse.

David has also previously served as a non-executive Director of HDFC Life (India), Northern Foods plc, London Stock Exchange Group plc, the UK Green Investment Bank plc and Zurich Insurance Group.

**External appointments:**

- Non-executive Director of Vodafone Group plc



**Jackson Tai (70)** ●●●●●  
**Independent non-executive Director**  
*Appointed to the Board: September 2016*

**Skills and experience:** Jackson has significant experience as a non-executive Director, having held senior operating and governance roles across Asia, North America and Europe.

**Career:** Jackson was Vice Chairman and Chief Executive Officer of DBS Group and DBS Bank Ltd. between 2002 and 2007, having served as Chief Financial Officer and then as President and Chief Operating Officer. He was previously a managing director and senior officer for Asia-Pacific, and executive director and Head of Japan Capital Markets in the investment banking division of J.P. Morgan & Co. Incorporated, where he worked for 25 years.

Other former appointments include non-executive Director of Canada Pension Plan Investment Board, Royal Philips N.V., Bank of China Limited, Singapore Airlines, NYSE Euronext, ING Groep N.V., CapitalLand Ltd, SingTel Ltd. and Jones Lang LaSalle Inc. He also served as Vice Chairman of Islamic Bank of Asia.

**External appointments:**

- Non-executive Director of Eli Lilly and Company
- Non-executive Director of MasterCard Incorporated



**Pauline van der Meer Mohr (61)** ●○○●●  
**Independent non-executive Director**  
*Appointed to the Board: September 2015*

**Skills and experience:** Pauline has extensive legal, corporate governance and human resources experience across a number of different sectors.

**Career:** Pauline served on the Supervisory Board of ASML Holding N.V. between 2009 and 2018. She was formerly President of Erasmus University Rotterdam, a member of the Dutch Banking Code Monitoring Committee and a Senior Vice President and Head of Group Human Resources Director at ABN AMRO Bank N.V. and TNT N.V. She also held various executive roles at the Royal Dutch Shell Group.

**External appointments:**

- Chair of the Dutch Corporate Governance Code Monitoring Committee
- Chair of the Supervisory Board of EY Netherlands
- Deputy Chair of the Supervisory Board of Royal DSM N.V.
- Member of the Selection and Nomination Committee of the Supreme Court of the Netherlands
- Member of the Capital Markets Committee of the Dutch Authority for Financial Markets
- Non-executive Director of Viatrix, Inc.



**Aileen Taylor (48)**  
**Group Company Secretary and Chief Governance Officer**  
*Appointed: November 2019*

**Skills and experience:** Aileen has significant governance and regulatory experience across various roles in the banking industry. She is a solicitor and a member of the European Corporate Governance Council, the GC100 and the Financial Conduct Authority's Listing Authority Advisory Panel.

**Career:** Aileen spent 19 years at the Royal Bank of Scotland Group, having held various legal, risk and compliance roles. She was appointed Group Secretary in 2010 and was most recently Chief Governance Officer and Board Counsel.

**Former Directors who served for part of the year**

**Sir Jonathan Symonds**

Sir Jonathan Symonds retired from the Board on 18 February 2020.

**Kathleen Casey**

Kathleen Casey retired from the Board on 24 April 2020.

▶ For full biographical details of our Board members, see [www.hsbc.com/who-we-are/leadership](http://www.hsbc.com/who-we-are/leadership).

## Senior management

Senior management, which includes the Group Executive Committee, supports the Group Chief Executive in the day-to-day management of the business and the implementation of strategy.



**Elaine Arden (52)**  
Group Chief Human Resources Officer

Elaine joined HSBC as Group Chief Human Resources Officer in June 2017. She was previously at the Royal Bank of Scotland Group, where she was Group Human Resources Director. She has held senior human resources and employee relations roles in a number of other financial institutions, including Clydesdale Bank and Direct Line Group. Elaine is a member of the Chartered Institute of Personnel and Development and a fellow of the Chartered Banker Institute.



**Colin Bell (53)**  
Chief Executive Officer, HSBC Bank plc and HSBC Europe

Colin joined HSBC in July 2016 and was appointed Chief Executive Officer, HSBC Bank plc and HSBC Europe on 22 February 2021. He previously held the role of Group Chief Compliance Officer, and also led the Group transformation oversight programme. Colin previously worked at UBS, which he joined in 2007, where he was the Global Head of Compliance and Operational Risk Control. Colin joined the British Army in 1990 and he served for 16 years in a variety of command and staff roles and completed the Joint Services Command and Staff College in 2001.



**Jonathan Calvert-Davies (52)**  
Group Head of Audit

Jonathan joined HSBC as Group Head of Audit in October 2019 and is a standing attendee of the Group Executive Committee. He has 30 years of experience providing assurance, audit and advisory services to the banking and securities industries in the UK, the US and Europe. Prior to joining HSBC, he led KPMG's financial services internal audit services practice. His previous roles include leading PwC's UK internal audit services practice. He also served as interim Group Head of Internal Audit at the Royal Bank of Scotland Group.



**Georges Elhedery (46)**  
Co-Chief Executive Officer, Global Banking and Markets

Georges joined HSBC in 2005 and was appointed as co-Chief Executive Officer of Global Banking and Markets in March 2020. He is also head of the Markets and Securities Services division of the business. Georges previously served as Chief Executive Officer for HSBC, Middle East, North Africa and Turkey and Head of Global Markets; Head of Global Banking and Markets, MENA; and Regional Head of Global Markets, MENA.



**Kirsty Everett (44)**  
Interim Group Chief Compliance Officer

Kirsty was appointed as Interim Group Chief Compliance Officer on 22 February 2021. She took on this role in addition to her existing responsibilities as the Global Chief Operating Officer for the Compliance function. She joined HSBC in March 2019 as the Chief of Staff and Head of Digital Transformation for Compliance. Prior to joining HSBC, Kirsty was the designated Chief Compliance Officer, Head of Conduct Risk and Operational Risk, Head of Monitoring and Oversight at UBS, having originally joined from Deloitte in 2012.



**Greg Guyett (57)**  
Co-Chief Executive Officer, Global Banking and Markets

Greg joined HSBC in October 2018 as Head of Global Banking and became co-Chief Executive Officer of Global Banking and Markets in March 2020. Prior to joining HSBC, he was President and Chief Operating Officer of East West Bank. Greg began his career as an investment banker at J.P. Morgan, where positions included: Chief Executive Officer for Greater China; Chief Executive Officer, Global Corporate Bank; Head of Investment Banking for Asia-Pacific; and Co-Head of Banking Asia-Pacific.



**John Hinshaw (50)**  
Group Chief Operating Officer

John became Group Chief Operating Officer in February 2020, having joined HSBC in December 2019. John has an extensive background in transforming organisations across a range of industries. Most recently, he served as Executive Vice President of Hewlett Packard and Hewlett Packard Enterprise, where he managed technology and operations and was Chief Customer Officer. He also held senior roles at Boeing and Verizon and served on the Board of Directors of BNY Mellon.



**Bob Hoyt (56)**  
Group Chief Legal Officer

Bob joined HSBC as Group Chief Legal Officer in January 2021. He was most recently Group General Counsel at Barclays from 2013 to 2020. Prior to that he was General Counsel and Chief Regulatory Affairs Officer for The PNC Financial Services Group. Bob has served as General Counsel to the US Department of the Treasury under Secretary Paulson, and as Special Assistant and Associate Counsel to the White House under President George W. Bush.



**Pam Kaur (57)**  
**Group Chief Risk Officer**

Pam was appointed Group Chief Risk Officer in January 2020, having joined HSBC in 2013. She was previously Head of Wholesale Market and Credit Risk and Chair of the enterprise-wide non-financial risk forum. Pam has also served as Group Head of Internal Audit and held a variety of audit and compliance roles at banks, including Deutsche Bank, RBS, Lloyds TSB and Citigroup. She serves as a non-executive Director of Centrica plc.



**Nuno Matos (53)**  
**Chief Executive Officer,  
Wealth and Personal Banking**

Nuno joined HSBC in 2015 and was appointed Chief Executive Officer of Wealth and Personal Banking on 22 February 2021. He was previously the Chief Executive Officer of HSBC Bank plc and HSBC Europe, a role he held from March 2020. He has also served as Chief Executive Officer of HSBC Mexico, and as regional head of Retail Banking and Wealth Management in Latin America. Prior to joining HSBC, he held senior positions at Santander Group.



**Stephen Moss (54)**  
**Regional Chief Executive**

Stephen joined HSBC in 1992. He was named Regional Chief Executive in March 2020, with responsibility for overseeing the Group's businesses in Europe (apart from HSBC UK); the Middle East, North Africa and Turkey ('MENAT'); Latin America; and Canada. He previously held the role of Chief of Staff to the Group Chief Executive and oversaw the Group's mergers and acquisitions and strategy and planning activities. Stephen will be appointed as CEO, MENAT, in April 2021 subject to regulatory approval. Stephen is a non-executive Director of The Saudi British Bank, HSBC Bank Middle East Limited, HSBC Middle East Holdings B.V, HSBC Latin America Holdings (UK) Limited and HSBC Bank Canada.



**Barry O'Byrne (45)**  
**Chief Executive Officer,  
Global Commercial Banking**

Barry joined HSBC in April 2017 and was appointed Chief Executive of Global Commercial Banking in February 2020, having served in the role on an interim basis since August 2019. He was previously Chief Operating Officer for Global Commercial Banking. Prior to joining HSBC, Barry worked at GE Capital for 19 years in a number of senior leadership roles, including as CEO, GE Capital International and in CEO positions in Italy, France and the UK.



**Michael Roberts (60)**  
**President and Chief Executive  
Officer, HSBC USA**

Michael joined HSBC in October 2019. He is an executive Director, President and CEO of HSBC North America Holdings Inc. He also serves as Chairman of HSBC Bank USA, N.A. and HSBC USA Inc. Michael will assume executive responsibility for the Group's Canadian and Latin American businesses, in addition to his existing responsibilities in relation to the US. His expanded role as CEO, US and Americas will take effect from April 2021. Previously, he spent 33 years at Citigroup in a number of senior leadership roles, most recently as Global Head of Corporate Banking and Capital Management and Chief Lending Officer of Citibank N.A.



**John David Stuart  
(known as Ian Stuart) (57)**  
**Chief Executive Officer,  
HSBC UK Bank plc**

Ian has been Chief Executive Officer of HSBC UK Bank plc since April 2017 and has worked in financial services for over four decades. He joined HSBC as Head of Commercial Banking Europe in 2014, having previously led the corporate and business banking businesses at Barclays and NatWest. He started his career at Bank of Scotland. Ian is a business ambassador for Meningitis Now and a member of the Economic Crime Strategic Board.



**Peter Wong (69)**  
**Deputy Chairman and  
Chief Executive Officer,  
The Hongkong and Shanghai  
Banking Corporation Limited**

Peter joined HSBC in 2005 and is Chairman and non-executive Director of HSBC Bank (China) Company Limited, and a non-executive Director of Hang Seng Bank Limited. Other appointments include Council Member of Hong Kong Trade Development Council, a member of its Belt and Road Committee; and Chairman of the Hong Kong General Chamber of Commerce.

**Additional members of the  
Group Executive Committee**

**Noel Quinn**

**Ewen Stevenson**

**Aileen Taylor**

Biographies are provided on pages 240 and 243.

## How we are governed

We are committed to high standards of corporate governance. The Group has a comprehensive range of policies and procedures in place designed to ensure that it is well managed, with effective oversight and controls. We comply with the provisions of the UK Corporate Governance Code and the applicable requirements of the Hong Kong Corporate Governance Code.

### Board's role, Directors' responsibilities and attendance

The Board, led by the Group Chairman, is responsible among other matters for:

- promoting the Group's long-term success and delivering sustainable value to shareholders;
- establishing and approving the Group's strategy and objectives and monitoring the alignment of the Group's purpose, strategy and values with the desired culture;
- setting the Group's risk appetite and monitoring the Group's risk profile;
- approving and monitoring capital and operating plans for achieving strategic objectives; and
- approving material transactions.

The Board's terms of reference are available on our website at [www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities](http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities).

The Board's powers are subject to relevant laws, regulations and HSBC's articles of association.

The role of the independent non-executive Directors is to support the development of proposals on strategy, hold management to account and ensure the executive Directors are discharging their responsibilities properly, while creating the right culture to encourage constructive challenge. Non-executive Directors also review the performance of management in meeting agreed goals and objectives. The Group Chairman meets with the non-executive Directors without the executive Directors in attendance after Board meetings and otherwise, as necessary.

The roles of Group Chairman and Group Chief Executive are separate. There is a clear division of responsibilities between the leadership of the Board by the Group Chairman, and the executive responsibility for day-to-day management of HSBC's business, which is undertaken by the Group Chief Executive.

The majority of Board members are independent non-executive Directors. At 31 December 2020, the Board comprised the Group Chairman, 11 non-executive Directors, and two executive Directors who are the Group Chief Executive and the Group Chief Financial Officer. With effect from 1 January 2020, the role of the Group Chief Risk Officer ceased to be a member of the Board.

For further details of the Board's career background, skills, experience and external appointments, see pages 240 to 243.

### Operation of the Board

The Board is ordinarily scheduled to meet at least seven times a year. In 2020, due to the Covid-19 outbreak, the Board held 17 meetings. The Board agenda is agreed by the Group Chairman, working with the Group Company Secretary and Chief Governance Officer and the Group Chief Executive. For more information, see the section on 'Board activities during 2020' on page 251.

The Group Chief Risk Officer and Group Chief Legal Officer are regular attendees at Board meetings, and other senior executives attend as required.

Outside of Board meetings, the Board Oversight Sub-Group, established by the Group Chairman, meets in advance of each Board meeting as an informal mechanism for a smaller group of Board members and management to discuss emerging issues. This group provides regular opportunities for members of the Board to communicate with senior management to deepen understanding of, and provide input into, key issues facing the

Group. For further details of how the Board engages with the workforce, see page 252.

### How Board governance was adapted for Covid-19

The Board oversaw the implementation of various governance changes introduced in response to the Covid-19 outbreak. Board and committee agendas were tailored to focus on key priorities taking into account the need to hold most meetings via videoconference. The challenges that arose from communicating across three time zones were navigated by remaining agile in meeting arrangements and through increased frequency of communications during the year.

In addition to substantially increasing the frequency of Board and executive committee meetings, the following changes were implemented to improve connectivity, and provide an understanding of the challenges and priorities of the management team as it led the organisation through the crisis:

- The Group Chairman introduced a weekly Board update note.
- Management produced a weekly Board report on its response to the Covid-19 outbreak.
- A Board Oversight Sub-Group was set up to provide guidance to the executive team on emerging issues.
- The chairs of our principal subsidiaries and the chairs of the Group's Board committees attended the Group Chairman's Forum each month.

### Technology governance

In light of the increasingly significant role of technology in the Group's strategy, operations and growth prospects, in January 2021 the Board approved the establishment of a Technology Governance Working Group for a period of 12 months.

The working group has been tasked with developing recommendations to strengthen the Board's oversight of technology strategy, governance and emerging risks and enhance connectivity with the principal subsidiaries.

The working group will be jointly chaired by Eileen Murray and Steven Guggenheimer, given their expertise and experience in this area. Jackson Tai, the Group Risk Committee Chair, will be a member, along with other non-executive Directors to be nominated by each of our US, UK, European and Asian principal subsidiaries. The co-Chairs will each receive fees in respect of their leadership of the working group over the next 12 months. Details of these fees can be found on page 281.

Key IT and business staff will attend the Technology Governance Working Group to provide insights on key technology issues across the Group allowing the working group to make recommendations for enhanced Board oversight of technology.

The total time commitment expected of the co-chairs will be up to 30 days, reflective of the complexity and profile of the subject matter.

### Board engagement with shareholders

In 2020, the Group Chairman, Senior Independent Director and the Group Company Secretary and Chief Governance Officer engaged with a number of our large institutional investors in over 20 meetings, primarily ahead of the 2020 AGM. Topics that were raised included geopolitical tensions, primarily relating to Hong Kong, mainland China, the US and the UK, as well as Board composition, changes to the Group Executive Committee, our climate policy and the impact of the Covid-19 outbreak on the Group, its employees, customers and communities.

The Group Remuneration Committee Chair also engaged with key investors and proxy advisory firms on our remuneration approach in respect of the 2020 performance year. During such engagements, the Group Remuneration Committee Chair kept investors informed on other matters including the Group's response to the Covid-19 outbreak and the Group Chief Executive's and Group Chief Financial Officer's salary sacrifice and charitable donations.

## Board roles, responsibilities and attendance

At 31 December 2020, the Board comprised the Group Chairman, 11 non-executive Directors and two executive Directors. The table below sets out their roles, responsibilities and attendance at Board meetings. For a full description of responsibilities see [www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities](http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities).

Roles	Board attendance in 2020	Responsibilities
<b>Group Chairman</b> Mark E Tucker <sup>1,2</sup>	17/17	<ul style="list-style-type: none"> <li>Provides effective leadership of the Board and promotes the highest standards of corporate governance practices.</li> <li>Leads the Board in providing strong strategic oversight and setting the Board's agenda, culture and values.</li> <li>Leads the Board in challenging management's thinking and proposals, and foster open and constructive debate among Directors.</li> <li>Maintains external relationships with key stakeholders and communicates investors' views to the Board.</li> <li>Evaluates the performance of the Board, Committees, non-executive Directors and Group Chief Executive.</li> </ul>
<b>Executive Director</b> <b>Group Chief Executive</b> Noel Quinn <sup>2</sup>	17/17	<ul style="list-style-type: none"> <li>Leads and directs the implementation of the Group's business strategy, embedding the organisation's culture and values.</li> <li>Leads the Group Executive Committee with responsibility for the day-to-day operations of the Group, under authority delegated to him from the Board.</li> <li>Maintains relationships with key stakeholders including the Group Chairman and the Board.</li> </ul>
<b>Executive Director</b> <b>Chief Financial Officer</b> Ewen Stevenson <sup>2</sup>	17/17	<ul style="list-style-type: none"> <li>Supports the Group Chief Executive in developing and implementing the Group strategy and recommends the annual budget and long-term strategic and financial plan.</li> <li>Leads the Finance function and is responsible for effective financial reporting, including the effectiveness of the processes and controls, to ensure the financial control framework is robust and fit for purpose.</li> <li>Maintains relationships with key stakeholders including shareholders.</li> </ul>
<b>Non-executive Directors</b> <b>Senior Independent Director</b> David Nish <sup>2,3</sup>	17/17	<ul style="list-style-type: none"> <li>Supports the Group Chairman, acting as intermediary for non-executive Directors when necessary.</li> <li>Leads the non-executive Directors in the oversight of the Group Chairman, supporting the clear division of responsibility between the Group Chairman and the Group Chief Executive.</li> <li>Listens to shareholders' views if they have concerns that cannot be resolved through the normal channels.</li> </ul>
Laura Cha <sup>3</sup>	17/17	<ul style="list-style-type: none"> <li>Develop and approve the Group strategy.</li> </ul>
Henri de Castries <sup>3</sup>	17/17	<ul style="list-style-type: none"> <li>Challenge and oversee the performance of management.</li> </ul>
James Forese <sup>3</sup>	12/12	<ul style="list-style-type: none"> <li>Approve the Group's risk appetite and review risk profile and performance.</li> </ul>
Steven Guggenheimer <sup>3</sup>	12/12	
Irene Lee <sup>3</sup>	17/17	
Dr José Antonio Meade Kuribreña <sup>3</sup>	17/17	
Heidi Miller <sup>3,4</sup>	16/17	
Eileen Murray <sup>3,4</sup>	5/7	
Jackson Tai <sup>3</sup>	17/17	
Pauline van der Meer Mohr <sup>3</sup>	17/17	
Kathleen Casey <sup>3</sup>	5/5	
Sir Jonathan Symonds <sup>3</sup>	2/2	
<b>Group Company Secretary and Chief Governance Officer</b> Aileen Taylor		<ul style="list-style-type: none"> <li>Maintains strong and consistent governance practices at Board level and throughout the Group.</li> <li>Supports the Group Chairman in ensuring effective functioning of the Board and its committees, and transparent engagement between senior management and non-executive Directors.</li> <li>Facilitates induction and professional development of non-executive Directors.</li> <li>Advises and supports the Board and management in ensuring effective end-to-end governance and decision making across the Group.</li> </ul>

<sup>1</sup> The non-executive Group Chairman was considered to be independent on appointment.

<sup>2</sup> Mark Tucker, David Nish, Noel Quinn and Ewen Stevenson attended the AGM on 24 April 2020. As a consequence of the UK Government's Covid-19 guidance and prohibitions at the time of the AGM, only a limited number of Directors and essential personnel attended the AGM to ensure a quorum was present and to conduct the business of the meeting.

<sup>3</sup> Independent non-executive Director. All of the non-executive Directors are considered to be independent of HSBC. There are no relationships or circumstances that are likely to affect any individual non-executive Director's judgement. All non-executive Directors have confirmed their independence during the year. Kathleen Casey and Sir Jonathan Symonds retired from the Board on 24 April 2020 and 18 February 2020 respectively.

<sup>4</sup> Eileen Murray was unable to attend two Board meetings owing to prior commitments made before her appointment to the Board. Heidi Miller was unable to attend one Board meeting that was arranged at short notice owing to a pre-scheduled external commitment.

## Board induction and training

The Group Company Secretary and Chief Governance Officer works with the Group Chairman to oversee appropriate induction and ongoing training programmes for the Board. On appointment, new Board members are provided with tailored, comprehensive induction programmes to fit with their individual experiences and needs, including the process for dealing with conflicts.

The structure of the induction allows a Board member to contribute meaningfully from appointment. An early focus on induction supports good information flows within the Board and its committees and between senior management and non-executive Directors, providing a better understanding of our culture and way of operating. During 2020 we welcomed three new non-executive Directors to our Board and also facilitated the Group Chief Executive's induction. For illustrations of the typical induction modules, see the 'Directors' induction and ongoing development in 2020' table on the following page.

Although there were constraints due to the Covid-19 outbreak, virtual meetings enabled our new non-executive Directors to engage with colleagues and key external personnel in a shorter time period than would have been the case if meeting in person.

When it is safe to recommence Board travel to our global locations, we will take opportunities to facilitate comprehensive face-to-face engagement. These opportunities provide invaluable insight and understanding of our business, customers, culture and people.

Directors undertook routine training during 2020. They also participated in 'deep dive' sessions into specific areas of the Group's strategic priorities, risk appetite and approach to managing certain risks. These focused on areas such as:

technology and Cloud capability; climate change; financial crime; shareholder activism; and business and governance. External consultants, in conjunction with the Group Company Secretary and Chief Governance Officer, provided specific training to members of relevant boards and executive committees within scope for the Senior Managers and Certification Regime. This included practical examples of responsibility in decision making and discussion of relevant case studies.

In addition, non-executive Directors discussed individual development areas with the Group Chairman during performance reviews and in conversations with the Group Company Secretary and Chief Governance Officer. The Group Company Secretary and Chief Governance Officer makes appropriate arrangements for any additional training needs identified using internal resources, or otherwise, at HSBC's expense.

Between the induction and training programmes, the Directors' understandings of key matters and risks for the business are supported so that they provide effective, informed and insightful challenge in their leadership and oversight roles.

Members of Board committees receive relevant training as appropriate. Directors may take independent professional advice at HSBC's expense.

Board Directors who serve on principal subsidiary boards also receive training relevant to those boards. Opportunities exist for the principal subsidiary and principal subsidiary committee chairs to share their understanding in specific areas with the Board Directors.



**James Forese**  
**Non-executive Director**

*'I was impressed with the smooth and thorough management of my induction at a time when the Covid-19 outbreak was otherwise creating confusion and uncertainty.*

*Shifting quickly to a remote, video-enabled process allowed me to be introduced to other Board members and to meet a wide range of senior executives from across the global businesses, regions and functions in quick succession.*

*Conversations with management were informative and comprehensive.*

*Where I had questions or wanted further conversations, the team responded swiftly and engaged in additional sessions as requested. Despite the lack of the usual in-person induction meetings, the open culture at HSBC helped me to come up the learning curve quickly and made me feel immediately welcomed.'*



## Directors' induction and ongoing development in 2020

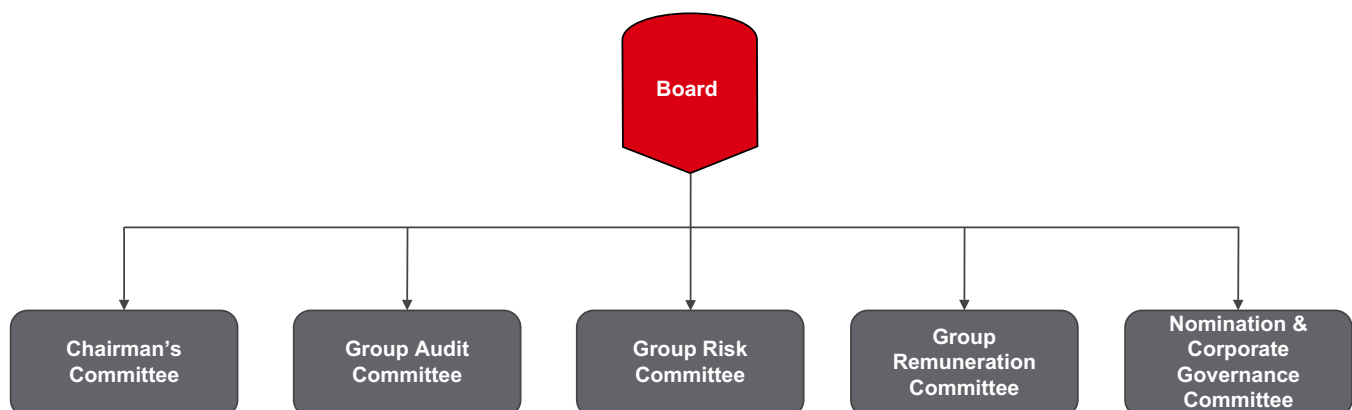
Director	Induction <sup>1</sup>	Strategy and business briefings <sup>2</sup>	Risk and control <sup>3</sup>	Corporate governance <sup>4</sup>	Global mandatory training <sup>5</sup>	ARCC, Chairs and Remco Forum	Subsidiary
Kathleen Casey	○	●	●	●	●	●	○
Laura Cha	○	●	●	●	●	●	●
Henri de Castries	○	●	●	●	●	○	○
James Forese	●	●	●	●	●	○	○
Steven Guggenheimer	●	●	●	●	●	○	○
Irene Lee	○	●	●	●	●	●	●
José Antonio Meade Kuribreña	○	●	●	●	●	●	○
Heidi Miller	○	●	●	●	●	●	●
Eileen Murray	●	●	●	●	●	○	○
David Nish	○	●	●	●	●	●	○
Noel Quinn	●	○	●	●	●	●	○
Ewen Stevenson	○	●	●	●	●	●	○
Jackson Tai	○	●	●	●	●	●	○
Mark Tucker	○	●	●	●	●	●	○
Pauline van der Meer Mohr	○	●	●	●	●	●	○

- The induction programme is delivered through formal briefings and introductory sessions with Board members, senior management, treasury executives, legal counsel, auditors, brokers, tax advisers and regulators. Topics covered included: values, culture and leadership; governance and stakeholder management; Directors' legal and regulatory duties; anti-money laundering and anti-bribery; technical and business briefings; and strategy.*
- Directors participated in business strategy, market development and business briefings, which are global, regional and/or market-specific. Examples of specific sessions held in 2020 included 'Asia growth: build and strengthen in Hong Kong' and 'Strategic priority: growth of UK ring-fenced bank'.*
- Directors received risk and control training. Examples of specific sessions held in 2020 included 'Governance of climate-related risk', 'Wholesale and retail credit risk management', 'Forward-looking financial crime risk issues', 'Resolvability assessment framework' and 'Technology terminology'.*
- All Directors received corporate governance training including 'Senior Managers and Certification Regime' and 'Climate and sustainable finance'.*
- Global mandatory training, issued to all Directors, mirrored training undertaken by all employees, including senior management. These included management of risk under the enterprise risk management framework, with a focus on operational risk; cyber risk and fraud; health, safety and well-being; data privacy and the protection of data of our customers and colleagues; combating financial crime, including understanding money laundering, sanctions, and bribery and corruption risks; and our values and conduct, including workplace harassment and speaking up.*

## Board committees

The Board delegates oversight of certain audit, risk, remuneration, nomination and governance matters to its committees. Each standing Board committee is chaired by a non-executive Board member and has a remit to cover specific topics in accordance with their respective terms of reference. Only independent non-executive Directors are members of Board committees. Details of the work carried out by each of the Board committees can be found in the respective committee reports from page 255.

In addition, the Chairman's Committee is convened to provide flexibility for the Board to consider ad hoc Board and routine matters between scheduled Board meetings. It meets with attendees determined by the nature of the proposed business to be discussed.



## Relationship between Board and senior management

The Board delegates day-to-day management of the business and implementation of strategy to the Group Chief Executive. The Group Chief Executive is supported in his day-to-day management of the Group by recommendations and advice from the Group Executive Committee ('GEC'), an executive forum that he chairs comprising members of senior management.

The Directors are encouraged to have free and open contact with management at all levels and full access to all relevant information. Non-executive Directors are encouraged to visit local business operations and meet local management when they attend off-site Board meetings and when travelling for other reasons, although this was not possible during 2020 due to the Covid-19 outbreak.

### Executive governance

The Group's executive governance is underpinned by the Group operating rhythm, which sets out the Board and executive engagement schedule. This was refreshed for 2020 to facilitate end-to-end governance flowing up from executive governance to the Board.

The Group operating rhythm is characterised by three pillars:

- i. The GEC normally meets every week to discuss current and emerging issues. However, during 2020 it met much more frequently as a result of Covid-19.
- ii. On a monthly basis, the GEC reviews the performance of global businesses, principal geographical areas and legal entities. These performance reviews are supplemented by quarterly performance management review meetings between the Group Chief Executive and the Group Chief Financial Officer and each of the chief executive officers of the global businesses, principal geographical areas and legal entities on an individual basis.
- iii. The GEC holds a strategy and governance meeting two weeks in advance of each Board meeting.

Separate committees have been established to provide specialist oversight for matters delegated to the Group Chief Executive and senior management, in keeping with their responsibilities under the Senior Managers and Certification Regime. Some of these separate committees are dedicated sub-committees of the GEC, and some operate under individual accountability. These committees support the Group Chief Executive and GEC members in areas such as capital and liquidity, risk management, disclosure and financial reporting, restructuring and investment considerations, transformation programmes, people issues, diversity and inclusion, and talent and development.

In addition to our regional company secretaries supporting our principal subsidiaries, we have corporate governance officers supporting our global lines of business, digital business services and our larger global functions to assist in effective end-to-end governance, consistency and connectivity across the Group.

## Subsidiary governance

Subsidiaries are formally designated as principal subsidiaries by approval of the Board.

The designated principal subsidiaries are:

Principal subsidiary	Oversight responsibility
The Hongkong and Shanghai Banking Corporation Limited	Asia-Pacific
HSBC Bank plc	Europe, Bermuda (excluding Switzerland and UK ring-fenced activities)
HSBC UK Bank plc	UK ring-fenced bank and its subsidiaries
HSBC Middle East Holdings BV	Middle East
HSBC North America Holdings Inc.	US
HSBC Latin America Holdings (UK) Limited	Mexico and Latin America
HSBC Bank Canada	Canada

To strengthen accountability and information flow, each principal subsidiary takes responsibility for the oversight of Group companies in its region through the subsidiary accountability framework. The guidance underpinning the framework principles defines how we escalate and cascade information and procedures between the Board, the principal subsidiary boards and their respective committees.

During 2020, a subsidiary governance review was undertaken by the Group Company Secretary and Chief Governance Officer to consider the application of the framework by the principal subsidiaries and certain material subsidiaries. This resulted in recommended changes to both the subsidiary accountability framework principles and their application. All relevant boards will consider and implement any recommendations and actions arising out of this review over the course of 2021. For further details of the subsidiary governance review, see the Nomination & Corporate Governance Committee report on page 255.

The Group Chairman interacts regularly with the chairs of the principal subsidiaries, including through the Chairman's Forum, which brings together the chairs of the principal subsidiaries and the chairs of the Group's audit, risk and remuneration committees to discuss Group-wide and regional matters. From March 2020, these meetings moved from twice a year to monthly, in response to the complex and dynamic environment. The Group Chairman hosted nine Chairman's Forums, which were also attended by relevant executive management, to cover sessions on strategy, the economy, regulatory matters, cyber risk and resilience, implementation of the subsidiary accountability framework and corporate governance.

The chairs of each of the Group Audit Committee, Group Risk Committee and Group Remuneration Committee also have regular dialogues with the respective committees of the principal subsidiaries to ensure an awareness and coordinated approach to key issues. These interactions are reinforced through Audit and Risk Committee Chairs' Forums, and the Remuneration Committee Chairs' Forum, which are held several times a year. The chairs of the principal subsidiaries' committees are invited to attend the relevant forums to raise and discuss current and future global issues, including regulatory priorities in each of the regions.

Board members attend principal subsidiary meetings as guests from time to time. Similarly, principal subsidiary directors are invited to attend committee meetings at Group level, where relevant.

---

## Board activities during 2020

During 2020, the Board focused on resetting the strategic direction, supporting the Group Chief Executive and overseeing performance and risk. It considered performance against financial and other strategic objectives, key business challenges, emerging risks, business development, investor relations and the Group's relationships with its stakeholders. The end-to-end governance framework facilitated discussion on strategy and performance by each of the global businesses and across the principal geographical areas, which enabled the Board to support executive management with its delivery of the Group's strategy.

The Board's key areas of focus in 2020 are set out by theme below.

### Strategy and business performance

In February 2020, the Group's strategic review and associated transformation programme was announced. This aimed to reshape underperforming businesses, simplify the organisation and reduce costs, to position the Group to increase returns for investors, create capacity for future investment and build a sustainable platform for growth.

In contrast to 2019 when the Board held two dedicated strategy sessions, given the evolving external landscape during 2020, the Board engaged in ongoing dialogue with management throughout the year to progress development of the Group strategy. As part of the strategy review, the Board considered organic and inorganic opportunities to grow and restructure the business, as well as disposal options.

The Board announced its new climate statement with the Group's ambition to align financed emissions to net zero by 2050 and become net zero for its own operations and supply chain by 2030, its aim to support clients on the road to a net zero carbon economy and a focus on sustainable finance opportunities. For further details of our new climate ambitions, see page 44.

The Board received external insights on topics such as the economic implications of the Covid-19 outbreak and ongoing geopolitical issues at regular intervals throughout the year.

### Financial decisions

The Board approved key financial decisions throughout the year and approved the *Annual Report and Accounts 2019*, the *Interim Report 2020* and the first quarter and the third quarter *Earnings Releases*.

The Board approved the annual operating plan for 2020 at the start of 2020 and since 31 December 2020 has approved the annual operating plan for 2021. The Board monitored the Group's performance against the approved 2020 annual operating plan, as well as the operating plans of each of the global businesses. The Board also approved the renewal of the debt issuance programme.

On 31 March 2020, HSBC announced that, in response to a written request from the Bank of England through the UK's Prudential Regulation Authority ('PRA'), the Board had cancelled the fourth interim dividend for 2019. Similar requests were also made to other UK incorporated banking groups. We also announced that until the end of 2020 we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares. For further details of the dividend cancellation, see page 299.

In December 2020, the PRA announced a temporary approach to shareholder distributions for 2020 in which it set out a framework for Board decisions on dividends. After considering the requirements of the temporary approach, on 23 February 2021 the Board announced an interim dividend for 2020 of \$0.15 per ordinary share.

The Board has adopted a policy designed to provide sustainable dividends going forward. We intend to transition towards a target payout ratio of between 40% and 55% of reported earnings per ordinary share ('EPS') for 2022 onwards, with the flexibility to adjust EPS for non-cash significant items such as goodwill or intangibles impairments. The Board believes this payout ratio

approach will allow for a good level of income to shareholders and a progressive dividend, assuming good levels of economic and earnings growth.

The Group will not be paying quarterly dividends during 2021 but will consider whether to announce an interim dividend at the 2021 half-year results in August. The Group will review whether to revert to paying quarterly dividends at or ahead of its 2021 results announcement in February 2022. The 2020 interim dividend will be paid in cash with no scrip alternative. The Group has decided to discontinue the scrip dividend option as it is dilutive, including to dividend per share progression over time.

The dividend policy could be supplemented by buy-backs or special dividends, over time and not in the near term, should the Group find itself in an excess capital position absent compelling investment opportunities to deploy that excess.

### Risk, regulatory and legal considerations

The Board, advised by the Group Risk Committee, promotes a strong risk governance culture that shapes the Group's risk appetite and supports the maintenance of a strong risk management framework, giving consideration to the measurement, evaluation, acceptance and management of risks, including emerging risks.

The Board considered the Group's approach to risk including its regulatory obligations. A number of key frameworks, control documents, core processes and legal responsibilities were also reviewed and approved as required. These included:

- the Group's risk appetite framework and risk appetite statement;
- the individual liquidity adequacy assessment process;
- the individual capital adequacy assessment process;
- the Group's obligations under the Modern Slavery Act and approval of the Modern Slavery Act statement;
- stress testing and capabilities required to meet the PRA's resolvability assessment framework;
- the revised terms of reference for the Board and Board committees; and
- delegations of authority.

The Board also reviewed and monitored the implications of geopolitical developments during the year including US-China relations and the trade talks between the UK and the EU following the UK's departure, including no-deal contingency planning.

### Technology

Throughout the year, the Board received regular updates on technology from the Group Chief Operating Officer, including the refreshed technology strategy and restructuring of the technology leadership function.

The newly appointed non-executive Directors with deep technology experience have worked in collaboration with the Group Chief Operating Officer to enhance the governance of technology.

The Board received technology training and educational sessions from both internal and external subject matter experts to understand further the evolving technology landscape.

### People and culture

The Board continued to spend time discussing people and culture-related topics. The Group Chief Executive led discussions on the development of a new people strategy to support the Group's growth and transformation.

During the year, the Board shaped the revision of the Group's purpose and values statement, which was approved in December 2020. A sub-group of the Board was created to assist the process. It met regularly with management to provide support, guidance and constructive challenge, seeking to ensure the revised purpose and values remained aligned with the Group's culture and future strategy.

## Governance

The Board continued to oversee the governance, smooth operation and oversight of the Group and its principal and material subsidiaries. During 2020, it undertook a review of subsidiary governance. For further details of the review and subsequent actions, see page 250.

Succession planning was considered by the Board following a thorough review at the Nomination & Corporate Governance Committee. During the year, Kathleen Casey retired as independent non-executive Director and Sir Jonathan Symonds retired as Deputy Group Chairman, Senior Independent Director and the Chair of the Group Audit Committee. The Board appointed David Nish in the role of Senior Independent Director and Chair of the Group Audit Committee, and appointed James Forese, Steven Guggenheimer and Eileen Murray as independent non-executive Directors. The Board, supported by the Nomination & Corporate Governance Committee, will continue to review the skills and experience of the Board as a whole to ensure that it comprises the relevant skills, experiences and competencies to discharge its responsibilities effectively.

For further details of the changes to the Board, see the Nomination & Corporate Governance Committee report on page 255.

The Board monitored its compliance with the UK Corporate Governance Code and the Companies Act 2006 throughout the year.

### Workforce engagement

The Board reaffirmed, in accordance with the UK Corporate Governance Code, that it would use 'alternative arrangements' in approaching workforce engagement. This flexible method allowed all non-executive Directors to have direct engagement across a wide network of employees in multiple geographies. The virtual working environment during the Covid-19 outbreak enabled more employees to participate in various workforce engagement activities. The programme of activities used a variety of interaction styles: more bespoke sessions with smaller groups; formal presentations; Q&A opportunities; and sessions to facilitate engagement across a breadth of experience and seniority. This enabled open dialogue and two-way discussions between non-executive Directors and employees. Non-executive Directors met with:

- employees of the innovation teams in Wealth and Personal Banking, Commercial Banking and Global Banking and Markets where discussions focused on bespoke business-specific matters;
- representatives of global employee resource groups where wide-ranging issues were discussed such as employee sentiment;
- leaders and talent from Digital Business Services at an employee Exchange session; and
- participants in the Asia talent programme.

The Board received formal updates from the Group Chief Executive and the Group Chief Human Resources Officer on employee views and sentiment. These include results of employee engagement surveys, benchmarked data, and additional surveys to understand well-being throughout the Covid-19 outbreak. The Chairman's Forum meetings also discussed employee feedback from the Group's subsidiaries.

As the Board considered the Group's strategy and strategic initiatives throughout 2020, themes emerged that directly impacted the workforce. These helped shape subsequent workforce engagement sessions. These sessions continue to give the Board valuable insight on employee perspectives when reviewing proposals. For further details of how the Board considered the views of employees and other stakeholders, see the section 172 statement on page 22.

The Board looks forward to continuing its workforce engagement programme and holding in-person sessions when possible in 2021.

## Board activities in 2020

Main topic	Sub-topic	Meetings at which topics were discussed <sup>1</sup>											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Sep	Oct	Nov	Dec	
<b>Strategy</b>	Group strategy	●	●	○	●	●	●	●	●	●	●	●	●
	Regional strategy/Business line strategy	●	○	○	○	●	●	●	●	○	●	○	○
	Environmental, social, governance	○	○	○	○	●	●	○	●	●	○	○	○
<b>Business and financial performance</b>	Region/Business line	●	●	○	●	●	●	●	●	●	●	●	●
	Financial performance	●	●	○	●	●	○	●	●	●	○	●	○
<b>Financial</b>	Results and accounts	●	●	○	●	○	○	●	○	●	○	●	○
	Dividends	●	●	●	●	○	○	●	○	●	●	●	●
	Group annual operating plan	●	●	○	●	○	○	●	○	○	○	○	●
<b>Risk</b>	Risk function	●	●	○	●	●	○	●	●	●	○	○	●
	Risk appetite	○	●	○	○	●	○	●	○	○	○	○	●
	Capital and liquidity adequacy	●	●	○	●	●	○	●	●	○	○	○	●
<b>Regulatory</b>	Regulatory matters (including resolvability assessment framework)	○	●	●	●	●	●	●	●	○	○	○	●
	Regulatory matters with regulators in attendance <sup>2</sup>	○	●	○	○	○	○	●	●	○	○	○	○
<b>External</b>	External insights	○	○	○	●	○	○	●	○	○	○	○	●
<b>Technology</b>	Strategic and operational	●	●	○	○	●	●	●	●	●	○	○	●
<b>People and culture</b>	Purpose, values and engagement	○	●	○	○	●	○	●	●	●	○	○	●
<b>Governance</b>	Subsidiary governance framework	○	●	○	○	○	○	●	○	○	○	○	●
	Policies and terms of reference	○	●	○	○	●	○	●	●	○	○	○	●
	Board/committee effectiveness	○	●	○	○	○	○	○	○	○	○	○	●
	Appointment and succession	●	●	●	○	●	●	○	●	○	●	○	○

<sup>1</sup> No formal Board meetings were held during August 2020.

<sup>2</sup> Meetings attended by members of the Financial Conduct Authority, Prudential Regulation Authority, Monetary Authority of Singapore, Hong Kong Monetary Authority.

## Board and committee effectiveness, performance and accountability

The Board and its committees are committed to regular, independent evaluation of their effectiveness at least once every three years.

Following the externally facilitated review of the Board and committee effectiveness in 2019, conducted by the external service provider Dr Tracy Long of Boardroom Review Limited, the Nomination & Corporate Governance Committee again invited Dr Long to support the Board with its annual evaluation. She was invited to conduct a follow-up review on the Board's progress against the findings and recommendations from her 2019 report, and more broadly on the effectiveness of the Board's operations. Dr Long is independent and has no other connection to the Group or any individual Director.

This external review was complemented by a review of the Board committees led by the Group Company Secretary and Chief Governance Officer. Details of the Board committees' effectiveness reviews, key findings and recommendations can be found in the respective committee reports on pages 255 to 274.

Dr Long acknowledged the progress that the Board had made in respect of her 2019 recommendations, with her 2020 review again focusing on the main themes from the previous review. These were: leadership, shared perspective, culture, end-to-end governance and future thinking. Qualitative feedback was gathered from one-to-one interviews held with members of the Board and regular Board attendees.

At the December Board meeting, the key findings presented were:

- a strong focus on vision, strategy, and balancing short-term and long-term objectives;
- a culture of collegiality and inclusion with positive team dynamics and healthy dialogue;
- an open and transparent communication between the Board and management and the boards of the principal subsidiaries, a shared perspective on strategy and risk between the Board and management, with a focus on clarity of objectives;

- a clear focus on operational resilience and support for clients, continuous Board and employee communications, attention to employee well-being, and documented lessons learned;
- a clear focus on priorities, with sessions on current and dynamic topics as required; and
- a strong link between culture and remuneration.

Following Dr Long's final report, the Group Chairman led a Board discussion in January 2021, at which the Board agreed the actions and priorities to be implemented, which will be monitored and addressed on an ongoing basis. Progress against these actions will be included in the *Annual Report and Accounts 2021*.

The following table outlines the main findings from the 2019 and 2020 reviews, progress against the 2019 findings and the actions agreed by the Board to address the areas that were identified as requiring improvement.

During 2020, a review of the Group Chairman's performance was led by the Senior Independent Director in consultation with the other independent non-executive Directors. Non-executive Directors also undergo regular individual reviews with the Group Chairman. The reviews confirmed that the Group Chairman and each Director were effective and had met their time commitments during the year.

The review of executive Directors' performance, which helps determine the level of variable pay they receive each year, is contained in the Directors' remuneration report on page 283.

Summary of Board effectiveness recommendations and actions:

	Recommendation from the 2019 and 2020 evaluations	Progress against 2019 recommendations	Agreed actions for 2020 recommendations
<b>Leadership</b>	<p>2019</p> <ul style="list-style-type: none"> <li>Continue to provide strong leadership through a culture of collaboration, transparency, open communication and cooperation.</li> </ul> <p>2020</p> <ul style="list-style-type: none"> <li>Continue to focus on Board succession planning, building on the progress made during 2020 to facilitate and manage succession for Board and committee positions, cognisant of diversity in all aspects and making full use of external advisers and skills matrix analysis.</li> <li>Embed executive succession so that it translates into a stronger, more diversified talent pool for future senior leadership.</li> </ul>	<p>The Group Chairman enhanced his communication activities with the Board and executive management during 2020. Following the appointment of the new Group Chief Executive, the Group Chairman established a Board Oversight Sub-Group to engage further with management and provide a sounding board.</p>	<p>The Nomination &amp; Corporate Governance Committee will allocate additional time for discussion and debate of external candidates for non-executive Director succession and the internal and external talent pool for senior management roles including executive Directors.</p>
<b>Shared perspective</b>	<p>2019</p> <ul style="list-style-type: none"> <li>Build on the shared perspective by ensuring that the Board agenda allows sufficient time and visibility of longer-term strategic perspectives aligned to its appetite for business risk.</li> </ul> <p>2020</p> <ul style="list-style-type: none"> <li>Optimise use of Board information to enhance testing of the effectiveness of the strategic and business plans with reference to the evolving external factors and competitive landscape across its key markets.</li> </ul>	<p>The Board adapted the Group operating rhythm and increased the frequency of meetings throughout the Covid-19 outbreak to provide the opportunity to reflect and act in real-time on the evolving external factors.</p>	<p>The Board will continue to enhance the use of governance practices, such as the Board Oversight Sub-Group and the Group operating rhythm. It will also continue to use Board committees to underpin and deliver effective decision making.</p>
<b>Culture</b>	<p>2019</p> <ul style="list-style-type: none"> <li>Reflecting the improvement in corporate culture, keep culture on the agenda to ensure ongoing transparency and escalation of issues. Maintain visibility and insight into cultural initiatives and differences across global businesses.</li> </ul> <p>2020</p> <ul style="list-style-type: none"> <li>Continue to review and determine the culture and key behaviours required to support the delivery of the revised strategy with a clear focus on pace and execution.</li> </ul>	<p>Alongside the strategic review, the Board oversaw work on refreshing the Group's purpose and values, driving a resetting of the culture to deliver the strategy.</p>	<p>The Group Chairman and Group Chief Executive will monitor progress of strategic decision making at pace. Increased insight into organisational cultural indicators provided to the Board will support delivering the desired organisational culture in line with strategy, purpose and values.</p>
<b>End-to-end governance</b>	<p>2019</p> <ul style="list-style-type: none"> <li>Maintain focus on improving the quality of information and increased communication channels with subsidiaries and other stakeholders, including the voice of employees.</li> </ul>	<p>Communications with the principal subsidiary chairs was increased by holding monthly Chairman's Forums for most of the year. The Board continued to engage with key investors and regulators, with some of the key regulators attending a session with the Board. There were additional opportunities for employees to engage throughout the year given the extreme circumstances brought about by the Covid-19 outbreak.</p>	
<b>Future thinking</b>	<p>2019</p> <ul style="list-style-type: none"> <li>Continue to develop the Board agenda to provide focus on emerging issues.</li> </ul> <p>2020</p> <ul style="list-style-type: none"> <li>Maintain and evolve good quality papers and presentations to the Board to continue providing insight and supporting informed decision making.</li> </ul>	<p>The Group Chairman, Group Chief Executive and Group Company Secretary and Chief Governance Officer met regularly throughout the year to plan Board meeting agendas to focus more effectively on emerging matters and external developments.</p>	<p>The Group Chairman and Group Chief Executive will sponsor a project to review Board reporting in 2021.</p>

## Board committees

### Nomination & Corporate Governance Committee



"The Committee's priorities in 2021 will continue to be composition, succession and development of the Board, as well as efforts to enhance the Group's diversity, talent and bench strength for key executive positions."

#### Dear Shareholder

It has been a busy year for the Nomination & Corporate Governance Committee. This report provides an overview of the work of the Committee and its activities during the year.

#### Priorities during 2020

Succession planning for both the Board and our senior executive team remained a critical focus of the Committee in line with its responsibilities. In addition to the appointment of Noel as Group Chief Executive, we appointed three new independent non-executive Directors during the year. Details of the appointments are set out below.

In line with our strategic focus on Asia, we considered proposals from management on ways to improve how we support and develop our talent under the Asia talent programme. Asian representation on the Board remains of critical importance, given the benefits that having members with deep knowledge and insight into Asian culture and business practices can bring to our discussions as a Board.

Subsidiary governance has also been an area of focus for the Committee, and we have made great progress in this regard during the past couple of years. The Subsidiary Governance Review, which is summarised later in this report, has demonstrated the progress made while acknowledging there is more to do to support our ambition of achieving world-class governance across the Group.

#### Focus for 2021

The Committee's priorities in 2021 will continue to be composition, succession and development of the Board, as well as efforts to enhance the Group's diversity, talent and bench strength for key executive positions. In developing our talent, the Committee will continue to focus on the promotion of diverse candidates to ensure that the Group Executive Committee and other senior management are representative of the customers, communities and markets in which we operate.

As our strategy develops, we know that the skills and capabilities we require will evolve and the Committee has a key role to play.

**Mark E Tucker**

Chair

Nomination & Corporate Governance Committee

23 February 2021

## Membership

	Meeting attendance in	
	Member since	2020
Mark Tucker (Chair)	Oct 2017	9/9
Kathleen Casey <sup>1</sup>	Apr 2018	4/4
Laura Cha	May 2014	9/9
Henri de Castris	Apr 2018	9/9
James Forese	May 2020	5/5
Steven Guggenheimer	May 2020	5/5
Irene Lee	Apr 2018	9/9
José Antonio Meade Kuribreña	Apr 2019	9/9
Eileen Murray <sup>2</sup>	Jul 2020	3/4
Heidi Miller	Apr 2018	9/9
David Nish	Apr 2018	9/9
Jackson Tai	Apr 2018	9/9
Pauline van der Meer Mohr	Apr 2016	9/9
Sir Jonathan Symonds <sup>1</sup>	Apr 2017	3/3

<sup>1</sup> Sir Jonathan Symonds stepped down from the Board on 18 February 2020. Kathleen Casey stepped down from the Board on 24 April 2020.

<sup>2</sup> Eileen Murray was unable to attend one Committee meeting owing to a prior commitment made before her appointment to the Board

## Group Chief Executive succession

The choice of Group Chief Executive is a matter of significance, and it was therefore important that we allowed ourselves the time to fully assess our options before arriving at our decision, given the potential ramifications on the future success of the Group and our stakeholders.

We conducted a thorough and robust search process with the support of an external search partner, Egon Zehnder, to identify the new Group Chief Executive. The Committee was delighted to have been able to source an internal candidate, in Noel Quinn, and believe that we identified the best candidate for the role and for the Group. Egon Zehnder provides assistance with senior recruitment at HSBC. It has no other connection with the Group or members of the Board.

Following Noel's appointment on a permanent basis in March 2020, the Committee agreed a comprehensive induction and development plan to best support him to succeed in leading the Group through the various challenges we face. The Committee monitored this throughout the year, and will continue to support Noel and his executive team in the delivery of our strategic and business priorities.

## Board composition

The composition of both the Board and its Committee continued to be a key focus during 2020, with progress made in ensuring that the Board possesses the necessary expertise to oversee, support and monitor management performance based on the longer-term strategy and developments in the external environment.

In James Forese, Steven Guggenheimer and Eileen Murray, the Board has added deep experience in the areas of banking, technology and operations, which will remain critical to the Board's discussions in the coming years. Further details on skills and previous experience are set out in the Board biographies on pages 240 to 243.

Russell Reynolds Associates supported the Board in identifying prospective non-executive Director candidates. It has also supported the Committee and the management team in senior executive succession planning, as part of an integrated approach to talent identification, assessment and development during 2020. Russell Reynolds also assists with senior recruitment at HSBC. They have no other connection with the Group or members of the Board.

We refreshed our Board skills matrix in recognition of the changing context in which the Group is now operating and the

strategic priorities. The revised skills matrix places greater emphasis on the need for competencies in areas such as transformation, ESG and climate given the Group's ambitions in these areas. The skills matrix will be a key tool in ensuring that the Board has the necessary range of skills and experience to discharge its responsibilities, oversee management and respond to emerging trends.

The Board remains committed to increasing its diversity, and ensuring that it is reflective of the markets and societies in which we serve.

### Board changes

There have been a number of changes to the Board during the past year. In addition to the appointment of the three new non-executive Directors referred to above, in February 2020, we saw the departure of both Sir Jonathan Symonds and Kathleen Casey during 2020. David Nish was appointed in the role of Senior Independent Director and Chair of the Group Audit Committee in place of Sir Jonathan Symonds.

Laura Cha will retire from the Board at the conclusion of our 2021 AGM at the end of May.

As mentioned earlier in the report, Dame Carolyn Fairbairn will join the Board on 1 September 2021. We are in the process of concluding a search for suitable candidates to join and further strengthen the expertise and experience on the Board and its committees.

We have also considered our committee membership and as a result confirm that David Nish will step down from the Group Remuneration Committee following the publication of the *Annual Report and Accounts 2020*. David kindly agreed to remain a member throughout 2020 following his appointment as Senior Independent Director and GAC Chair in February 2020 to provide a strong link through all committees while new Board members were onboarded.

### Senior executive succession and development

Following Noel's appointment as Group Chief Executive on an interim basis in August 2019, he took steps to refresh the composition of the then Group Management Board and repositioned this as the Group Executive Committee. This included the appointment of new incumbents for seven roles, meaning that we actioned a significant number of our succession plans for our most senior executive positions.

The Committee has therefore focused on rebuilding this bench strength during 2020 to ensure that we have a strong cohort of potential future leaders of HSBC. We have worked in partnership with Noel and our Group Chief Human Resources Officer to support an integrated approach to our assessment, development and external market benchmarking of executive talent.

The refreshed Group Executive Committee succession plan, which we discussed and approved at our meeting in December 2020, reflects the changing shape of the Group and involves greater diversity, in particular with regard to gender and ethnicity.

In connection with this, and to ensure we support and develop talent from the Group's key region, the Committee received an update on the Asia talent programme. This programme involves approximately 1,000 employees of high potential talent in the region and aims to support their development and progression both within the region and across the broader Group.

### Committee evaluation

The annual review of the effectiveness of the Board committees, including the Committee, was internally facilitated for 2020.

Overall the review concluded that the Committee continued to operate effectively. The review made certain recommendations for improvement, in particular regarding the time allocated for discussion of key items to ensure that the Committee has sufficient opportunity to discuss topics such as senior executive succession and development in the required depth. The Committee has considered and discussed the outcomes of the evaluation and accepts the findings.

The outcomes of the evaluation have been reported to the Board and the Committee will track progress on the recommendations during 2020.

### Subsidiary governance review

Following the implementation of the subsidiary accountability framework in 2019, during 2020 the Committee commissioned a governance review of the Group's seven principal subsidiaries, plus three material subsidiaries in the form of Hang Seng Bank, HSBC Global Asset Management and HSBC Private Bank (Suisse).

The review was led by our Group Company Secretary and Chief Governance Officer and focused on:

- Board size, skills, tenure and fees;
- governance support; and
- the relationship between the Group and its subsidiaries.

Good boardroom practice and adherence to our Group governance expectations, including under the subsidiary accountability framework, were observed in the course of the review.

A number of recommendations were identified to raise the standard and ensure consistent application of governance across the organisation, and to further improve the transparency and engagement between the Group and its subsidiaries. These included:

- Subsidiary accountability framework: a review and update to the principles under the subsidiary accountability framework to clarify and provide greater guidance on the Group's expectations;
- Board composition, size and independence: clarification of the Group's expectations on the size, composition and independence of subsidiary boards and length of board tenure, to encourage proactive refreshment of subsidiary board membership. A number of our longer-serving subsidiary Directors have announced their retirement from the Group as a result of this review; and
- Board reporting and management information: the need for greater consistency in the quality of reporting and management information, with work underway to ensure that the Board and its committees, as well as individuals on subsidiary boards and other senior governance forums, receive the information they require to make informed decisions.

Given the success and strong support that the review received at both Group and subsidiary level, including the Group Executive Committee, it has been agreed that a review of our governance practices in our global businesses will be undertaken in 2021.

### Governance

Our decision to create the Chief Governance Officer role in 2019 was in recognition of the significance the Board assigns to the governance agenda and the strategic importance of having best-in-class governance at HSBC, including in the oversight of subsidiaries. This role is held by the Group Company Secretary, now designated as the Group Company Secretary and Chief Governance Officer, reporting to the Group Chairman.

Despite the challenges we have faced as an organisation from a business and geopolitical perspective, we have made good progress in enhancing our overall governance arrangements during 2020, in particular the areas identified as requiring improvement in our 2019 Board effectiveness review.

This has included our new governance operating rhythm, which was established to provide robust end-to-end governance and more efficient and effective governance meetings across the Board, Group Executive Committee and subsidiaries. The new Group operating rhythm has resulted in greater alignment between our Board and the Group Executive Committee, and has driven the sequencing of meetings to allow for our subsidiaries and global business to have input on key matters prior to discussion and approval at the Board. This has been particularly pertinent during 2020, given the central role that our subsidiaries hold in developing and executing our strategic priorities.



In line with the Board's commitment at the commencement of the UK Corporate Governance Code 2018, the Committee reviewed the Board's choice of an alternative mechanism to engage with and understand the views of the wider workforce with reference to developing market practice. During 2020, the Committee confirmed that it remained confident that our preferred mechanism of 'alternative arrangements' remained effective and believed that this was most appropriate for an organisation of our scale and geographical diversity. Engagement with the workforce will continue to be a priority for the Board in 2021. Further details on the arrangements we have in place to facilitate workforce engagement can be found on page 252.

### Diversity

The Board diversity policy sets out our approach to achieving our diversity ambitions, and helps to ensure that diversity and inclusion factors are taken into account in succession planning.

In line with our ongoing commitment to diversity, we reviewed our Board diversity policy during 2020. This review included consideration of developments in best practice as well as regulatory expectations on board diversity, including those outlined by the PRA.

A number of minor updates were made to the characteristics that the Board will take into account when considering candidates for future appointment as Directors. These included adding social backgrounds to the Board diversity policy as a factor for consideration, and making amendments to emphasise the link between diversity of thought with risk avoidance and improved decision making. The revised Board diversity policy is available at [www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities](http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities).

Our recent non-executive Director searches have prioritised diversity both in terms of gender and representation from those of Asia-Pacific heritage. These have been identified as areas where we needed to strengthen in anticipation of retirements from the Board in the coming years.

At the year-end, at 35% (five out of 14), our Board gender diversity met the Hampton-Alexander Review target of 33% female

representation by the end of 2020. We have also met and exceeded the Parker Review targets of at least one Director from an ethnic minority background by 2021, with four members of our Board self-identifying as 'Directors of colour' in line with the definition set by Parker.

The Board is also extremely focused on diversity across the wider organisation, and believes that this is a critical component of HSBC's future success. Further details on activities to improve diversity across senior management and the wider workforce, together with representation statistics, can be found on pages 64 to 65.

### Independence of non-executive Directors

The Committee has delegated authority from the Board in relation to the assessment of the independence of non-executive Directors.

In accordance with the UK and Hong Kong Corporate Governance Codes, the Committee has reviewed and confirmed that all non-executive Directors who have submitted themselves for election and re-election at the AGM are considered to be independent. This conclusion was reached after consideration of all relevant circumstances that are likely to impair, or could appear to impair, independence.

Laura Cha, who joined the Board in 2011, will not be standing for re-election at the 2021 AGM. The Committee determined that Laura, notwithstanding her length of service, continues to be independent when taking into consideration all other relevant circumstances that are likely to impair, or could appear to impair, independence and that she will continue to be independent up to the date of the 2021 AGM when she will retire from the Board.

The Committee also has oversight of the composition of the boards of the Group's regional principal subsidiaries and approves the appointment of Directors and senior management in those subsidiaries.

### Matters considered during 2020

	Jan	Feb	Apr	May	Jul	Sep	Dec
<b>Board composition and succession</b>							
Board composition, including succession planning and skills matrices	●	●	●	○	○	●	●
Approval of diversity and inclusion policy	○	○	●	○	○	○	○
Approval of conflicts of interest policy	○	○	○	○	○	○	●
<b>Executive talent and development</b>							
Senior executive succession	○	●	●	●	●	●	●
Approval of executive succession plans	○	○	○	○	○	○	●
Talent programmes	○	○	●	○	○	○	○
<b>Governance</b>							
Board and committee evaluation	○	○	●	●	○	○	●
Subsidiary governance	○	○	○	○	●	○	○
Subsidiary and executive appointments	●	●	●	●	●	●	●

### Appointment process – assessment of new non-executive Directors

Step 1	Step 2	Step 3	Step 4	Step 5
The Committee agreed the desired criteria sought in the candidates for appointment to the Board. An external search partner was engaged.	The Committee considered a long-list of candidates and agreed which should be prioritised. Relevant candidates were approached by the external search partner to understand their interest.	Meetings were arranged between members of the Committee and priority non-executive Director candidates. Feedback from the non-executive Directors was discussed alongside consideration of potential conflicts and other matters identified through due diligence.	The Committee recommended the appointment of the non-executive Director to the Holdings Board for approval, subject to completion of outstanding due diligence.	Outstanding due diligence and associated procedures completed prior to announcement of appointment. Director onboarding and induction pack issued and completed.

## Group Audit Committee



"The Committee spent substantial time in understanding and assessing the effect of the Covid-19 outbreak on expected credit losses, the Group-wide transformation programme and other related accounting judgements and disclosures."

### Dear Shareholder

I am pleased to present my first report to you as Chair of the Group Audit Committee ('GAC'). The Committee had a busy year, holding 13 meetings. This report sets out some of the issues considered during 2020.

The Committee has strong, but diverse, financial services experience. To strengthen our skill set further, we welcomed Pauline van der Meer Mohr, James Forese and Eileen Murray as new members. Sir Jonathan Symonds and Kathleen Casey stepped down during the year and I would like to thank them for their insightful and significant contributions to the work of the GAC.

The Committee spent substantial time in understanding and assessing the effect of the Covid-19 outbreak on expected credit losses, the Group-wide transformation programme, the impact of regulatory change on the control environment, and other related accounting judgements and disclosures.

Given the Committee's role in relation to whistleblowing I regularly met with the Group Chief Compliance Officer and the Group Head of Whistleblowing Oversight to discuss material whistleblowing cases, enhancements to whistleblowing arrangements and plans for periodic updates to the Committee.

To develop a better understanding of the key issues and challenges at the local level, I attended a number of principal subsidiary audit committee meetings throughout the Group. These meetings were complemented by regular Audit and Risk Committee Chairs' Forums throughout the year to ensure alignment of priorities and to strengthen our relationship with the principal subsidiaries.

The Committee received regular updates from the Group Head of Audit on the progress against the audit plan. During the year the audit plan was adjusted in response to new risks arising from the Covid-19 outbreak and assurance work in relation to major change programmes throughout the Group.

Our external auditor, PricewaterhouseCoopers LLP ('PwC'), has now completed its sixth audit. PwC continues to provide robust challenge to management and provide sound independent advice to the Committee on specific financial reporting judgements and the control environment.

An internal evaluation concluded that the Committee continued to operate effectively in 2020, and made certain recommendations for continual improvement.

### David Nish

Chair, Group Audit Committee, 23 February 2021

## Membership

	Member since	Meeting attendance in 2020
David Nish (Chair)	May 2016	13/13
Kathleen Casey <sup>1</sup>	Mar 2014	5/5
James Forese	May 2020	7/7
Eileen Murray <sup>2</sup>	Jul 2020	5/6
Sir Jonathan Symonds <sup>1</sup>	Sep 2014	3/3
Jackson Tai	Dec 2018	13/13
Pauline van der Meer Mohr	Apr 2020	10/10

<sup>1</sup> Sir Jonathan Symonds stepped down from the Board on 18 February 2020. Kathleen Casey stepped down from the Board on 24 April 2020.

<sup>2</sup> Eileen Murray was unable to attend a meeting in July 2020 due to a prior commitment made before her appointment.

## Key responsibilities

The Committee's key responsibilities include:

- monitoring and assessing the integrity of the financial statements, formal announcements and regulatory information in relation to the Group's financial performance, as well as significant accounting judgements;
- reviewing the effectiveness of, and ensuring that management has appropriate internal controls over, financial reporting;
- reviewing and monitoring the relationship with the external auditor and oversees its appointment, tenure, rotation, remuneration, independence and engagement for non-audit services; and
- overseeing the work of Global Internal Audit and monitoring and assessing the effectiveness, performance, resourcing, independence and standing of the function.

## Committee governance

The Committee keeps the Board informed and advises on matters concerning the Group's financial reporting requirements to ensure that the Board has exercised oversight of the work carried out by management, Global Internal Audit and the external auditor.

The Group Chief Executive, Group Chief Financial Officer, Group Head of Finance, Group Chief Accounting Officer, Group Head of Audit, Group Chief Risk Officer and other members of senior management routinely attended meetings of the GAC. The external auditor attended all meetings.

The Chair held regular meetings with management, Global Internal Audit and the external auditor to discuss agenda planning and specific issues as they arose during the year outside the formal Committee process. The Committee also regularly met separately with the Group Chief Legal Officer, internal and external auditors and other senior management to discuss matters in private.

The Committee Secretary regularly met with the Chair to ensure the Committee fulfilled its governance responsibilities and to consider input from stakeholders when finalising meeting agendas, tracking progress on actions and Committee priorities.

Meetings of the Committee usually take place a couple of days before the Board meeting to allow the Committee to report its findings and recommendations in a timely and orderly manner. This is done through the Chair who comments on matters of particular relevance and the Board receives copies of the Committee agenda and minutes of meetings.

## Matters considered during 2020

	Jan	Feb	Apr	Jun	Jul	Sep	Oct	Dec
<b>Reporting</b>								
Financial reporting matters including:								
– Review of financial statements, ensuring that disclosures are fair, balanced and understandable	●	●	●	●	●	●	●	●
– Significant accounting judgements								
– Going concern assumptions and viability statement								
– Supplementary regulatory information and the <i>ESG Update</i>								
Regulatory reporting-related matters	●	●	●	●	○	●	○	●
Certificates from principal subsidiary audit committees	○	●	○	○	●	○	○	○
<b>Control environment</b>								
Review of deficiencies and effectiveness of internal financial controls	●	●	●	●	●	●	●	●
<b>Internal audit</b>								
Reports from Global Internal Audit	●	●	●	●	●	○	●	●
Annual audit plan, independence and effectiveness	●	○	●	○	●	○	○	●
<b>External audit</b>								
Reports from external audit, including external audit plan	●	●	●	●	●	○	●	●
Appointment, remuneration, non-audit services and effectiveness	●	●	●	●	○	○	●	○
<b>Compliance</b>								
Accounting standards and critical accounting policies	●	●	○	○	○	○	○	●
Corporate governance codes and listing rules	○	●	○	○	●	○	○	○
<b>Whistleblowing</b>								
Whistleblowing arrangements and effectiveness	○	●	●	○	●	○	○	●

### Compliance with regulatory requirements

The Board has confirmed that each member of the Committee is independent according to the criteria from the US Securities and Exchange Commission, and the Committee continues to have competence relevant to the sector in which the Group operates. The Board has determined that David Nish, Jackson Tai and Eileen Murray are all 'financial experts' for the purposes of section 407 of the Sarbanes-Oxley Act and have recent and relevant financial experience for the purposes of the UK and Hong Kong Corporate Governance Codes.

The Committee assessed the adequacy of resources of the accounting and financial reporting function. It also monitored the legal and regulatory environment relevant to its responsibilities.

The GAC Chair had regular meetings with the regulators, including the UK's PRA and the FCA. These included trilateral meetings involving the Group's external auditor PwC.

### How the Committee discharged its responsibilities

#### Connectivity with principal subsidiary audit committees

During the year the GAC Chair regularly met with the chairs of the principal subsidiary audit committees and attended meetings to enable closer links and deeper understanding on judgements around key issues. In addition, there was regular interaction with committee chairs across the Group through the Audit and Risk Committee Chairs' Forum ('ARCC').

Appointments to the audit committees of the principal subsidiary audit committees were reviewed and endorsed by the GAC. The GAC Chair met with proposed new chairs prior to their appointment.

On a half-yearly basis, principal subsidiary audit committees provided certifications to the GAC regarding the preparation of their financial statements, adherence to Group policies and escalation of any issues that required the attention of the GAC.

#### Financial reporting

The Committee's review of financial reporting during the year included the *Annual Report and Accounts*, *Interim Report*, quarterly earnings releases, analyst presentations and Pillar 3 disclosures.

As part of its review, the GAC evaluated management's application of critical accounting policies, significant accounting judgements and compliance with disclosure requirements to ensure these were consistent, appropriate and acceptable under the relevant financial reporting requirements. The Committee gave careful consideration to the key performance metrics related to

strategic priorities and ensured that the performance and outlook statements were fair, balanced and reflected the risks and uncertainties appropriately.

During the year, the Committee received regular updates from management on the additional guidance and disclosures made in relation to the Covid-19 outbreak. The Committee considered and was satisfied with the management response to the Financial Reporting Council's ('FRC') comments on HSBC's *Annual Report and Accounts 2019* regarding goodwill impairment disclosures, and the industry-wide FRC publications, including the letter to audit committee chairs.

In conjunction with the Group Risk Committee ('GRC'), the GAC considered the current position of the Group, along with the emerging and principal risks, and carried out a robust assessment of the Group's prospects, before making a recommendation to the Board on the Group's long-term viability statement. The GAC also undertook a detailed review before recommending to the Board that the Group continues to adopt the going concern basis in preparing the annual and interim financial statements. Further details can be found on page 41.

The Committee's review of the long-term viability statement and the adoption of the going concern basis factored in additional guidance issued by the FRC on financial reporting in light of the Covid-19 outbreak.

Following review and challenge of the disclosures, the Committee recommended to the Board that the financial statements, taken as a whole, were fair, balanced and understandable. The financial statements provided the shareholders with the necessary information to assess the Group's position and performance, business model, strategy and risks facing the business.

#### Covid-19 impact on accounting judgements

The Committee devoted significant time, including additional meetings, to the review and challenge of management's approach and analysis of IFRS 9 expected credit losses ('ECL') in light of the Covid-19 outbreak and other geopolitical events. In its review, the GAC gave due regard to the interpretation and application of additional guidelines in relation to the Covid-19 outbreak and estimating ECL that were issued by various regulators.

The Committee gave careful consideration to the measurement of ECL, in particular the key judgements and management adjustments made in relation to the forward economic guidance, underlying economic scenarios, reasonableness of the weightings and the impact on financial statements and disclosures.

There was detailed discussion on the risks to ECL models as the unprecedented nature of the pandemic meant that the severity of the economic conditions was outside the bounds of historical data

and experience used to develop IFRS 9 models. The Committee challenged management on the approach to modelling ECL, specifically the use of Credit Risk judgements and invited HSBC's credit experts to present their views to the Committee.

At the request of the GAC Chair, Global Internal Audit carried out additional verification and assurance regarding the disclosures made in quarterly reporting on the range of ECL outlook and consistency of the ECL disclosures. The Group's external auditor regularly shared its views with the Committee on the reasonableness of management assumptions, given the significant changes made to the estimation of ECL due to the impact of the Covid-19 outbreak on the design, implementation and operation of ECL controls.

Other areas of significant accounting judgements requiring in-depth review due to the Covid-19 pandemic included valuation of financial instruments, goodwill impairment, hedge accounting and investment in associates. Further details can be found in the 'Principal activities and significant issues considered during 2020' table on page 262.

### Internal controls

The GAC assessed the effectiveness of the internal control system for financial reporting and any developments affecting it. This was in support of the Board's assessment of internal control over financial reporting, in accordance with section 404 of the Sarbanes-Oxley Act.

The Committee received regular updates and confirmations that management had taken, or was taking, the necessary actions to remediate any failings or weaknesses identified through the operation of the Group's framework of controls. Further details of how the Board reviewed the effectiveness of key aspects of internal control can be found on page 303.

In 2020 the updates provided to the Committee included the potential impacts on internal control from the Covid-19 outbreak. These impacts included both those directly relevant to operational processes and controls, such as where new or amended controls were required to administer government relief packages, and more indirect impacts such as from colleagues working under contingency arrangements. A number of additional assurance procedures were performed across the lines of defence to monitor, assess and mitigate these impacts, with results regularly reported to the Committee.

### External auditor

The Group's external auditor is PwC, which has held the role for six years, and the senior audit partner is Scott Berryman who has been in the role since 2019. The Committee reviewed the external auditor's approach and strategy for the annual audit and also received regular updates on the impact on the control environment from the Covid-19 outbreak and the Group transformation programme. Principal matters discussed with PwC are set out in its report on page 311.

PwC discussed the impact from the Covid-19 outbreak on the execution and delivery of the audit and the plans to deliver the audit through remote working and mitigating actions being taken. These included accelerating aspects of planning and performing a number of areas of audit earlier to factor in expected delays due to remote working. There was also discussion on additional relevant work in relation to significant accounting judgements, such as expected credit losses, and the impact of the Covid-19 outbreak on the basis for determining materiality.

During the year, the GAC assessed the effectiveness of PwC as the Group's external auditor, using a questionnaire that focused on the overall audit process, its effectiveness and the quality of output. The Committee gave particular focus to the actions being taken by PwC in response to the findings from the HSBC effectiveness review and the PwC firm-wide Audit Quality Review by the Financial Reporting Council. PwC highlighted the continuing investment in both additional resources and new technologies to improve the quality and consistency of the audit. The Committee Chair also met the PwC engagement quality control partner for

HSBC privately to discuss the continuous audit improvement actions.

The GAC received an update on the partner rotation and succession for the Group and its principal subsidiaries and the steps taken to ensure effective transitions.

The GAC monitored the policy on hiring employees or former employees of the external auditor, and there were no breaches of the policy highlighted during the year. The external auditor attended all Committee meetings and the GAC Chair maintains regular contact with the senior audit partner and his team throughout the year.

The Committee also assessed any potential threats to independence that were self-identified or reported by PwC. The GAC considered PwC to be independent and PwC, in accordance with professional ethical standards, provided the GAC with written confirmation of its independence for the duration of 2020.

The Committee confirms it has complied with the provisions of the Competition and Markets Authority Order for the financial statements. The Committee acknowledges the provisions contained in the UK Corporate Governance Code in respect of audit tendering. In conformance with these requirements, HSBC will be required to tender for the audit for the 2025 financial year end and beyond, having appointed PwC from 1 January 2015.

The Committee believed it would not be appropriate to re-tender as a change in auditor would have a significant impact on the organisation, including on the Global Finance function. A change would lead to disruption and an increase in operational risk given the ongoing impact from the Covid-19 pandemic and the significant strategic change underway through the Group transformation programme. In addition, the Committee is closely monitoring the consultations and proposals arising from the Competition and Market Authority's statutory audit market study, the Kingman Review of the Financial Reporting Council and the Brydon Review on the quality and effectiveness of audit on the future of the UK external audit market. The Committee will consider its audit tendering strategy in line with the outcomes of the UK audit reform and well in advance of re-tendering in 2025.

The Committee has recommended to the Board that PwC should be reappointed as auditor. Resolutions concerning the reappointment of PwC and its audit fee for 2021 will be proposed to shareholders at the 2021 AGM.

### Non-audit services

The Committee is responsible for setting, reviewing and monitoring the appropriateness of the provision of non-audit services by the external auditor. It also applies the Group's policy on the award of non-audit services to the external auditor. During the year, GAC reviewed changes made to the Group's policy resulting from the implementation of 'The Financial Reporting Council Revised Ethical Standard 2019' (effective in 2020) and changes to internal governance. The key change in the revised standard is the introduction of a 'whitelist of services' that the principal accountant can provide. All services not prescribed in the whitelist are prohibited. The non-audit services are carried out in accordance with the external auditor independence policy to ensure that services do not create a conflict of interest. All non-audit services are either approved by the GAC, or by Group Finance when acting within delegated limits and criteria set by the GAC.

The non-audit services carried out by PwC included 45 engagements approved during the year where the fees were over \$100,000 but less than \$1m. Global Finance, as a delegate of GAC, considered that it was in the best interests of the Group to use PwC for these services because they were:

- audit-related engagements that were largely carried out by members of the audit engagement team, with the work closely related to the work performed in the audit;
- engagements covered under other assurance services that require obtaining appropriate audit evidence to express a conclusion designed to enhance the degree of confidence of

the intended users other than the responsible party about the subject matter information; or

- other permitted services to advisory attestation reports on internal controls of a service organisation primarily prepared for and used by third-party end users.

Eight engagements during the year were approved where the fees exceeded \$1m. These were mainly engagements required by the regulator and incremental fees related to previously approved engagements. One new engagement outside the scope of the pre-approved services related to preliminary advanced audit procedures for the adoption of IFRS 17 in 2023.

	2020	2019
	\$m	\$m
Auditors' remuneration		
Total fees payable	130.2	110.7
Fees for non-audit services	37.3	25.5

### Global Internal Audit

The primary role of the Global Internal Audit function is to help the Board and management protect the assets, reputation and sustainability of the Group. Global Internal Audit does this by providing independent and objective assurance on the design and operating effectiveness of the Group's governance, risk management and control framework and processes, prioritising the greatest areas of risk.

The independence of Global Internal Audit from day-to-day line management responsibility is critical to its ability to deliver objective audit coverage by maintaining an independent and objective stance. Global Internal Audit is free from interference by any element in the organisation, including on matters of audit selection, scope, procedures, frequency, timing, or internal audit report content. Global Internal Audit adheres to The Institute of Internal Auditors' mandatory guidance.

The Group Head of Audit reports to the Chair of the GAC and there are frequent meetings held between them. Results of audit work, together with an assessment of the Group's overall governance, risk management and control framework and processes are reported regularly to the GAC, GRC and local audit and risk committees, as appropriate. This reporting highlights key themes identified through audit activity, business and regulatory developments, and provides an independent view of emerging and horizon risk, together with details of audit coverage.

Audit coverage is achieved using a combination of business and functional audits of processes and controls, risk management frameworks and major change initiatives, as well as regulatory audits, investigations and special reviews. In addition to the ongoing importance of regulatory-focused work, key risk theme categories for 2020 audit coverage were strategy, governance and culture, financial crime, conduct and compliance, financial resilience and operational resilience. In April 2020, in response to the Covid-19 outbreak, Global Internal Audit completed a risk-based review to revise the 2020 annual audit plan to create capacity for real-time audits targeted at key risks arising from the pandemic. Real-time audits provide real-time, independent ongoing observations to management responding to the Covid-19 outbreak. Issues are raised for significant observations that are not addressed in a timely manner. In addition, in response to the business update in February 2020, Global Internal Audit focused on governance over the transformation programme and performed project audit activity for selected complex and high-priority business cases.

Executive management is responsible for ensuring that issues raised by the Global Internal Audit function are addressed within an appropriate and agreed timetable. Confirmation to this effect must be provided to Global Internal Audit, which validates closure on a risk basis.

Consistent with previous years, the 2021 audit planning process includes assessing the inherent risks and strength of the control environment across the audit entities representing the Group. Results of this assessment are combined with a top-down analysis of risk themes by risk category to ensure that themes identified are addressed in the plan. Risk theme categories for the 2021 audit

work continue to be strategy, governance and culture, financial crime, conduct and compliance, financial resilience, and operational resilience. During 2021, a quarterly assessment of key risk themes will form the basis of thematic reporting and plan updates and will ultimately drive the 2022 planning process. The annual audit plan and material plan updates are approved by the GAC. Based on regular internal audit reporting to the GAC, private sessions with the Group Head of Audit, the Global Professional Practices annual assessment and quarterly Quality Assurance updates, the GAC is satisfied with the effectiveness of the Global Internal Audit function and the appropriateness of its resources.

Global Internal Audit maintains a close working relationship with HSBC's external auditor, PwC. The external auditor is kept informed of Global Internal Audit's activities and results, and is afforded free access to all internal audit reports and supporting records.

### Principal activities and significant issues considered during 2020

#### Collaborative oversight by GAC and GRC

The GAC and GRC worked closely to ensure there were procedures to manage risk and oversee the internal control framework. They also worked together to ensure any common areas of responsibility were addressed appropriately with inter-committee communication or joint discussions with the Chairs.

The Chairs are members of both committees and engage on the agendas of each other's committees to further enhance connectivity, coordination and flow of information. This is further complemented with significant overlap in membership of the GAC and GRC to ensure deeper understanding and informed challenge at both meetings.

During 2020, the GAC and GRC Chairs reviewed and challenged management's proposals to transition the responsibility for oversight of entity level controls from the GAC to the GRC. The Chairs considered whether there was the suitable level of management seniority for ownership of entity level controls and whether there was regular and appropriate reporting to both committees to fulfil their oversight responsibilities.

In 2020, five ARCC Forums were held with the chairs of principal and regional subsidiaries' audit and risk committees, together with senior management from these subsidiaries. The purpose of these ARCC Forums was to discuss mutual priorities, improvement and remediation programmes and forward-looking issues in relation to the management of risk and the internal control framework. The topics discussed at the ARCC Forums can be found in the GRC report on page 268.

Three areas of joint focus for the GAC and GRC during 2020 were:

#### Sustainable control environment

With oversight from the GAC, the Group Executive Committee continued a programme to ensure there is clear understanding, accountability and ownership for internal controls and end-to-end processes to deliver operational quality and consistent outcomes for customers and simpler operation of controls for colleagues.

The GAC provided constructive challenge to management proposals and received regular progress updates on the work streams. Improvements were measured and tracked through a new enterprise-wide non-financial risk forum with escalation paths into the GAC and GRC.

#### Financial reporting

The GAC reviewed and provided feedback on the assurance work and management's opinion on internal controls over financial reporting, as required by the Sarbanes-Oxley Act. In conjunction with the GRC, the GAC monitored the remediation of significant deficiencies and weaknesses in entity level controls raised by management and the external auditor. The GAC will continue to monitor the progress of remediation as well as efforts to integrate requirements of the Sarbanes-Oxley Act with the operational risk

framework as part of the sustainable control environment programme.

In 2020, the GAC and the GRC reviewed the risks arising from models used for the estimation of expected credit losses under IFRS 9, particularly given the economic backdrop of the Covid-19 outbreak. The committees challenged the underlying economic scenarios, additional scenarios added by management and the reasonableness of the weightings applied to each scenario in order to understand the impact on the financial statements.

**Monitoring changes to regulatory requirements**

The GAC approved an annual priorities plan to review management’s response to current and future changes in regulatory requirements affecting financial reporting. In 2020, this included interpretation of new accounting standards, industry-wide regulatory reform programmes and their impact on accounting judgements. The GAC will continue to monitor specific accounting issues identified during the year and future regulatory items that will impact the integrity of financial reporting, the Group and its relationships with regulators.

There continues to be an increased focus on the quality of regulatory reporting by the PRA and other regulators globally. The GAC will review the steps taken by management to strengthen the controls over regulatory reporting and as we strengthen our processes and controls, there may be impacts on some of our regulatory ratios.

In conjunction with the GRC, the GAC continued to oversee the progress of management’s proposals and implementation of the Basel III Reforms and the Ibor transition. The GAC focused on the operational and control environment impacts from Basel III Reforms and Ibor transition on HSBC’s financial reporting and interdependencies with other Group transformation programmes.

**Whistleblowing and ‘speak up’ culture**

Whistleblowing is a key element of ‘speak up’ culture, with the Group’s whistleblowing channel, HSBC Confidential, offering a variety of ways for our people to raise whistleblowing concerns (see page 68 for further information). The GAC is responsible for the oversight of the effectiveness of the Group’s whistleblowing arrangements.

The Group’s Chief Compliance Officer provides periodic reporting to the GAC on the efficacy of the whistleblowing arrangements, providing an assessment of controls and detailing the results of internal audit assessments. The Committee is also briefed on culture and conduct risks and associated management actions arising from whistleblowing cases. The Chair of the GAC acts as the Group’s whistleblowers’ champion, with responsibility for ensuring and overseeing the integrity, independence and effectiveness of HSBC’s policies and procedures on whistleblowing and the protection of whistleblowers. The Chair met with the Group Head of Whistleblowing Oversight throughout the year for briefings on material whistleblowing cases and assessments of the whistleblowing arrangements.

The Committee has requested updates on a number of key areas during 2020, including an assessment of the timeliness of whistleblowing investigations. The arrangements were subject to an internal audit review during 2020, which rated the design, control and management oversight of the arrangements as satisfactory. As part of the ongoing assessment of the end-to-end arrangements, the Committee has requested a deeper review in key markets of the employee investigation function in which the whistleblowing arrangements have a dependency. An external benchmarking assessment was presented to the GAC in December 2020. This provided an overview of the overall effectiveness of whistleblowing arrangements and investigations processes against a number of industry peers, and best practice guidance issued by external consultancy and legal firms as well as the UK charity, Protect. The assessment reflected the significant progress made during 2020 such as the implementation of a new whistleblowing platform (Navex), the enhanced global minimum standards and improvements observed in the ‘speak up’ culture. In addition, governance was improved with a particular focus on key emerging conduct themes to enable timely management action, and a mechanism was introduced for whistleblowers to provide feedback post-investigation. The assessment also identified further opportunities for 2021 as part of the Group’s fit for the future programme with updates to be provided to the whistleblowing champion and the GAC throughout 2021.

**Principal activities and significant issues considered during 2020**

Areas of focus	Key issues	Conclusions and actions
Financial and regulatory reporting	<p><b>Key financial metrics and strategic priorities</b></p> <p>The GAC considered the key judgements in relation to external reporting to track the key financial metrics and strategic priorities and to review the forecast performance and outlook.</p>	<p>In exercising its oversight, the Committee assessed management’s assurance and preparation of external financial reporting disclosures. The Committee was particularly focused on the ongoing Covid-19-related uncertainty and how management addressed and reflected the impact of the pandemic in external reporting and disclosures. The Committee reviewed the draft external reporting disclosures and provided feedback and challenge on the top sensitive disclosures, including key financial metrics and strategic priorities to ensure HSBC was consistent and transparent in its messaging.</p> <p>The GAC reviewed the approach to combining the <i>ESG Update</i> into the <i>Annual Report and Accounts</i> for the 2020 reporting period. This included consideration of the steps taken by management to address findings from Global Internal Audit regarding the controls and assurance processes for ESG content. The Committee will review the steps taken by management in developing the target operating model to deliver integrated reporting in 2021.</p> <p>The Committee reflected on the continued focus on the quality and reliability of regulatory reporting by the PRA and other regulators globally. The GAC reviewed management’s efforts to strengthen and simplify the end-to-end operating model, including commissioning independent external reviews of various aspects of regulatory reporting. The Committee discussed and provided management’s engagement plans with the Group’s regulators, including any potential impacts on some of our regulatory ratios such as CET1 and LCR. We continue to keep the PRA and other relevant regulators informed of our progress.</p>
	<p><b>Environmental, social and governance (‘ESG’) reporting</b></p> <p>The Committee considered management’s efforts to embed and enhance ESG reporting to demonstrate strong controls, operation and governance, including key performance indicators and assurance plans.</p>	
	<p><b>Regulatory reporting assurance programme</b></p> <p>The GAC monitored the progress of the regulatory reporting assurance programme to enhance the Group’s regulatory reporting, impact on the control environment and oversee regulatory reviews and engagement.</p>	
Significant accounting judgements	<p><b>Expected credit losses</b></p> <p>The measurement of expected credit losses involves significant judgements, particularly under current economic conditions. There remains an elevated degree of uncertainty over ECL estimation under current macroeconomic, political and epidemiological uncertainties. Further details are provided in the ‘Covid-19 impact on accounting judgements’ section of this report.</p>	<p>The actions taken are summarised above in the ‘Covid-19 impact on accounting judgements’ section of this report.</p>

## Principal activities and significant issues considered during 2020 (continued)

Areas of focus	Key issues	Conclusions and actions
Significant accounting judgements	<p><b>Long-term viability and going concern statement</b></p> <p>During the year, the GAC has considered a wide range of information relating to present and future projections of profitability, cash flows, capital requirements and capital resources. These considerations include stressed scenarios that reflect the increasing uncertainty that the global Covid-19 outbreak has had on HSBC's operations, as well as considering potential impacts from other top and emerging risks, and the related impact on profitability, capital and liquidity.</p>	<p>In accordance with the UK and Hong Kong Corporate Governance Codes, the Directors carried out a robust assessment of the principal risks of the Group and parent company. The GAC considered the statement to be made by the Directors and concluded that the Group and parent company will be able to continue in operation and meet liabilities as they fall due, and that it is appropriate that the long-term viability statement covers a period of three years.</p>
	<p><b>Goodwill and other non-financial assets impairment</b></p> <p>During the year, management tested for impairment goodwill and other non-financial assets. Key judgements in this area relate to long-term growth rates, discount factors and what cash flows to include for each cash-generating unit tested, both in terms of compliance with the accounting standards and reasonableness of the forecast. During the year, the Group recognised \$1.3bn impairment in relation to non-financial assets, following which a detailed analysis of various balance sheet amounts was initiated.</p>	<p>The GAC received reports on management's approach to goodwill and other non-financial assets impairment testing and challenged the approach and models used. The GAC also challenged management's key judgements and considered the reasonableness of the outcomes as a sense check against the business forecasts and strategic objectives of HSBC. The GAC reviewed the results of management's detailed analysis of the balance sheet and agreed with the conclusions.</p>
	<p><b>Associates (Bank of Communications Co., Limited and The Saudi British Bank)</b></p> <p>During the year, management performed the impairment review of HSBC's investment in Bank of Communications Co., Ltd ('BoCom') and The Saudi British Bank ('SABB'). The impairment reviews are complex and require significant judgements, such as projected future cash flows, discount rate, and regulatory capital assumptions.</p>	<p>The GAC reviewed the judgements in relation to the impairment reviews of HSBC's investment in BoCom and SABB, including the sensitivity of the results to estimates and key assumptions such as projected future cash flows and regulatory capital assumptions. Additionally, the GAC reviewed the models' sensitivity to long-term assumptions including the continued appropriateness of the discount rates.</p>
	<p><b>Legal proceedings and regulatory matters</b></p> <p>Management has used judgement in relation to the recognition and measurement of provisions, as well as the existence of contingent liabilities for legal and regulatory matters, including, for example, an FCA investigation into HSBC Bank's and HSBC UK Bank's compliance with the UK money laundering regulations and financial crime systems and controls requirements.</p>	<p>The GAC received reports from management on the legal proceedings and regulatory matters that highlight the accounting judgements for matters where these are required. The matters requiring significant judgements were highlighted. The GAC has reviewed these reports and agree with the conclusions reached by management.</p>
	<p><b>Valuation of defined benefit pension obligations</b></p> <p>The valuation of defined benefit pension obligations involves highly judgemental inputs and assumptions, of which the most sensitive are the discount rate, pension payments and deferred pensions, inflation rate and changes in mortality.</p>	<p>The GAC has considered the effect of changes in key assumptions on the HSBC UK Bank plc section of the HSBC Bank (UK) Pensions Scheme, which is the principal plan of HSBC Group.</p>
	<p><b>Valuation of financial instruments</b></p> <p>Due to the volatile market conditions in 2020, management refined its approach to valuing Group's investment portfolio. In addition, as losses were incurred on the novation of certain derivative portfolios, management considered whether fair value adjustments were required under the fair value framework. Management's analysis provided insufficient evidence to support the introduction of these adjustments in line with IFRS.</p>	<p>The GAC considered the key valuation metrics and judgements involved in the determination of the fair value of financial instruments. The GAC considered the valuation control framework, valuation metrics, significant year-end judgements and emerging valuation topics and agrees with the judgements applied by management.</p>
	<p><b>Tax-related judgements</b></p> <p>HSBC has recognised deferred tax assets to the extent that they are recoverable through expected future taxable profits. Significant judgement continues to be exercised in assessing the probability and sufficiency of future taxable profits, future reversals of existing taxable temporary differences and ongoing tax planning strategies.</p>	<p>The GAC considered the recoverability of deferred tax assets, in particular in the US and the UK. The GAC also considered management's judgements relating to tax positions in respect of which the appropriate tax treatment is uncertain, open to interpretation or has been challenged by the tax authority.</p>
	<p><b>UK customer remediation</b></p> <p>Management's judgement is used in determining the assumptions used to calculate the Group's remediation provisions, of which the most material are PPI and a programme in relation to the collections and recoveries operations of the bank.</p>	<p>The GAC considered and challenged management's assumptions and the approach for estimating potential outflows relating to the calculations of the customer remediation provisions.</p>

**Principal activities and significant issues considered during 2020 (continued)**

Areas of focus	Key issues	Conclusions and actions
<b>Other accounting judgements</b>	<p><b>Long-term asset return assumptions in PVIF</b> Market volatility during 2020 resulted in further review of the long-term investment assumptions used in the measurement of the present value of in-force business ('PVIF') intangible assets recorded on the balance sheet in relation to shareholder returns expected from long-term insurance contracts.</p> <p><b>Hedge accounting</b> Significant judgements relating to hedge accounting matters under current economic conditions include the impact of Covid-19 payment deferrals on the highly probable cash flow forecasts required by macro cash flow programmes; and whether hedge accounting relationships, where hedged items include interest rate floors and the hedging instrument does not, would be highly effective over the hedged horizon.</p>	<p>The GAC reviewed the assumptions determined by management under existing insurance governance processes, which involve significant expert judgement, and concluded that they were supportable given internal and external benchmarks and information reviewed.</p> <p>The GAC noted that the effect of Covid-19 payment deferrals on hedge accounting was limited and no additional actions were required. Additionally the GAC was informed about the mitigation actions management has taken to reduce the risk associated with floored hedged items, such as designating new hedge accounting relationships.</p>
<b>Group transformation</b>	<p><b>Transformation and sustainable control environment</b> The GAC will oversee the impact on the risk and control environment from the Group transformation programme.</p> <p><b>Global Finance transformation</b> The Committee reviewed the proposals for the Global Finance organisational design, the migration to Cloud and the impact on financial controls.</p>	<p>The Committee received regular updates on the Group transformation programme to review the impact on the risk and control environment and to oversee progress of the Group transformation programme.</p> <p>In these updates the Committee monitored the development of management's approach to structuring and governing the Group transformation programme and risk management processes. This oversight helped satisfy the Committee of the appropriateness of these processes and associated benefits delivery.</p> <p>Management kept the Committee apprised of the changes and adjustments made to the Group transformation programme in response to Covid-19, and associated impact on the financial performance.</p> <p>Management's updates were supplemented by significant focus and assurance work from Global Internal Audit where a dedicated team continuously monitored and reviewed the Group transformation programme. This included carrying out a number of targeted audit reviews, in addition to audits of significant programmes. These reviews focused on key elements of change management.</p> <p>The Committee has oversight for the adequacy of resources and expertise, as well as succession planning for the Global Finance function. During 2020, the Committee dedicated significant time to the review and progress of the multi-year Global Finance transformation programme, with the overall objectives being to improve the control environment and customer outcomes and to leverage technology to increase overall efficiency. In particular, the Committee discussed the challenges to Global Finance operations, including financial reporting, from the Covid-19 pandemic and sought assurance that controls were in place to maintain standards and quality.</p> <p>The Committee reviewed and challenged the key change programmes and delivery milestones and tracked the progress of the deliverables. In particular, the Committee considered the impact from the Global Finance transformation on the Group transformation programme, regulatory change programmes and where there were interdependencies and concentrations risks through key programmes such as Finance on the Cloud. There were frequent discussions with management with input from Global Internal Audit on the impact on key risks and controls, including steps taken to mitigate these risks. Management regularly updated the Committee on the approach and plans for regulatory engagement, including follow-up on the outcomes and actions to be taken post-meetings with regulators. The Group Chief Financial Officer had private sessions with the Committee to share his perspectives on the progress of the Global Finance transformation, areas of strategic priorities and where additional focus was required. The private sessions included discussion on succession planning and resourcing and areas where GAC members could support and guide management by leveraging members' experience.</p>
<b>Regulatory change</b>	<p><b>IFRS 17 'Insurance Contracts'</b> The Committee will oversee the transition to IFRS 17 and consider the wider strategic implications of the change on the insurance business.</p>	<p>Management provided an update on the final standard amendments that were issued in June 2020 and discussed the impact on the transition programme necessitated by the one-year delay to the effective date, both from a policy implementation and model build perspective. The discussions highlighted the significant uncertainty that remained in the interpretation of key areas and the working assumptions adopted by management to enable design solutions, investment in technology and data infrastructure to proceed.</p> <p>The Committee discussed the impact from IFRS 17 on HSBC's reported numbers in the financial statements and management will continue to consider how to appropriately apply the standard to HSBC's insurance business, as well as monitoring insurance industry developments on disclosures. Management will continue to keep the Committee updated on plans for the investor narrative, taking into account the relevant disclosure requirements applicable to HSBC, and ongoing presentation of insurance results up to the time of the transition.</p>



## Principal activities and significant issues considered during 2020 (continued)

Areas of focus	Key issues	Conclusions and actions
Regulatory change	<p><b>Basel III Reform</b></p> <p>The GAC considered the implementation of the Basel III Reform and the impact on the capital requirements and RWA assurance. This was considered in the context of the strategy and structure of the balance sheet.</p>	<p>The Committee received an update on the progress and impact of the Basel III Reform programme on the Group. Management discussed the uncertainty over the final definition of the rules and the actions taken to ensure sufficient flexibility to make changes and mitigate risks from legislation being finalised at a later date. The discussion highlighted the dependencies of the Basel III Reform programme with other Group transformation programmes, in particular the dependency on adoption of the Finance on the Cloud solution and the impact on data delivery and storage.</p> <p>The Committee reviewed and challenged management on the findings from an audit on the programme structure, governance and the significant cost increase year on year. Management explained the actions being taken in response to the audit findings and the reasons for the increase in costs, which included delays to implementation dates caused by Covid-19.</p>
	<p><b>Interest rate benchmark replacement</b></p> <p>The financial reporting risks of interest rate benchmark transition include the potential for volatility arising from financial instruments valuation, contract modification and hedge accounting. The transitions involve significant operational complexity for financial institutions, and industry approaches to transition continue to develop.</p>	<p>The GAC noted management's early adoption of 'Interest Rate Benchmark Reform – Phase 2' amendments to IFRSs in relation to benchmark reform, including the disclosures necessary to support adoption of the reliefs.</p> <p>The Committee considered the risks and financial reporting impacts arising from the Ibor transition. Management discussed actions being taken to mitigate the risks, which included new product development and a client outreach programme to ensure readiness to migrate and explain the changes and outcomes arising from the transition to clients. Management advised about the operational challenges such as the updates to current systems and processes that were required to support the accounting for the Ibor transition and our external dependency on market and client readiness. In particular, management drew attention to the potentially material impact on hedge accounting programmes from the Ibor transition and the substantial costs and risks involved in the redocumentation of hedges.</p> <p>The Committee discussed the approach being taken across the industry with management and PwC and potential impacts on the control environment relevant to financial reporting from the Ibor transition.</p>

### Committee evaluation and effectiveness

The annual review of the effectiveness of the Board committees, including the GAC, was conducted internally in 2020. Overall the review concluded that the GAC continued to operate effectively, and highlighted improvements made in 2020 in relation to Committee structure and focus. The review also made certain recommendations for continuous improvement, including in relation to further enhancing the quality of information presented to the meeting through revised executive governance oversight. The Committee has considered and discussed the outcomes of the evaluation and accepts the findings.

The outcomes of the evaluation have been reported to the Board and the Committee will track progress on the recommendations during 2021.

### Focus of future activities

At the beginning of each year the Committee discusses its key priorities for the year ahead. In 2021, the Committee will continue to monitor execution of the Group transformation programme and its impact on the risk and control environment. In monitoring the Group transformation programme, the Committee will consider the interdependencies between the Group transformation programme and implementation of large-scale regulatory change programmes such as Basel III Reforms, the Ibor transition and IFRS 17 'Insurance Contracts'. A major area of focus is also expected to be the GAC's engagement with the UK Government's consultation and proposals for the future of the UK external audit market.

## Group Risk Committee



*"Geopolitical developments, civil unrest, the UK's trade negotiation with the EU and the Covid-19 outbreak introduced new challenges for our organisation, customers and people. The Group Risk Committee responded by working closely with management to understand and appropriately challenge scenario stress testing, early warning indicators and management of information."*

### Dear Shareholder

I am pleased to present the Group Risk Committee ('GRC') report.

Geopolitical developments, civil unrest in Hong Kong, the UK's trade negotiations with the EU and the Covid-19 outbreak introduced new challenges for our organisation, customers and people. The GRC responded by working closely with management to understand and appropriately challenge scenario stress testing results, early warning indicators and key management metrics. Importantly, we monitored heightened capital and liquidity risks against the prospect of greater market volatility, large customer financing needs, rapid credit deterioration and lapses in fair outcomes for our customers. We reviewed and challenged the impact of forward economic growth assumptions on our markets and credit exposures. We maintained close watch over people and operational risks arising from fatigue, the health impact of the virus, and government-imposed restrictions.

The GRC continued to strengthen its composition and skills to promote proactive risk governance. During the year we welcomed seasoned technology and operations experts Steven Guggenheimer and Eileen Murray to the GRC. We also extended deep appreciation to Sir Jonathan Symonds and Kathleen Casey for their valuable insight and contribution upon their retirement from the GRC and the Board.

The GRC convened eight formal meetings plus seven special sessions to review and challenge our most important responsibilities, including Group internal stress testing, internal liquidity adequacy assessment process ('ILAAP'), and internal capital adequacy assessment process ('ICAAP'). We also organised timely education sessions, including a full-day training on sanctions in Hong Kong for non-executive Directors and management in Asia-Pacific.

Throughout 2020, the GRC and GAC coordinated closely our respective agendas, as evident in our five jointly organised regional Audit and Risk Committee Chairs' Forums, which featured discussion on key audit and risk issues with our principal subsidiaries, ensuring alignment of priorities between the Group and its subsidiaries.

**Jackson Tai**

Chair

Group Risk Committee  
23 February 2021

## Membership

	Member since	Meeting attendance in 2020
Jackson Tai (Chair)	Sep 2016	8/8
Kathleen Casey <sup>1</sup>	Jan 2020	3/3
Steven Guggenheimer	May 2020	4/4
José Antonio Meade Kuribreña	May 2019	8/8
Heidi Miller	Sep 2014	8/8
Eileen Murray	Jul 2020	3/3
David Nish	Feb 2020	7/7
Sir Jonathan Symonds <sup>1</sup>	Apr 2018	2/2
Pauline van der Meer Mohr	Apr 2018	8/8

<sup>1</sup> Sir Jonathan Symonds stepped down from the Board on 18 February 2020. Kathleen Casey stepped down from the Board on 24 April 2020.

### Key responsibilities

The Group Risk Committee has overall non-executive responsibility for oversight of risk-related matters and the risks impacting the Group. The GRC's key responsibilities includes:

- advising the Board on risk appetite-related matters, and key regulatory submissions, including the ICAAP and ILAAP, as well as recovery and resolution planning;
- overseeing and advising the Board on all risk-related matters, financial risks, non-financial risks and the effectiveness of the Group's conduct framework;
- undertaking a review and challenge of the Group's stress testing exercises; and
- reviewing the effectiveness of the Group's enterprise risk management framework and internal controls systems (other than internal financial controls overseen by the GAC).

### Committee governance

In carrying out its responsibilities, the GRC is supported by the participation of senior management, including Noel Quinn who attended six GRC meetings in 2020.

The Group Chief Risk Officer, Group Chief Financial Officer, Group Head of Audit, Group Chief Compliance Officer and Global Head of Risk Strategy are standing attendees and regularly attend GRC meetings to contribute their subject matter expertise and insight. They facilitate GRC members' review and challenge of current and forward-looking risk issues, working together with business, functional and regional leaders across all three lines of defence. The Chair also regularly meets with the Group Chief Risk Officer, the Group Head of Audit and external auditor, PwC, without management present.

The Chair also has regular meetings with members of senior management to discuss specific risk matters that arise during the year outside formal meetings. The Chair consults regularly with the Committee Secretary to ensure the GRC meets its governance responsibilities and to consider input from stakeholders when finalising meeting agendas, tracking progress on actions and Committee priorities.

## Matters considered by the GRC in 2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Sep	Oct	Nov	Dec
Financial risk	○	●	●	●	●	○	●	●	○	●	○
Credit risk	○	○	○	○	●	○	●	●	○	●	○
IT and operational risk including outsourcing, third-party risk management, cyber risk	●	●	○	●	●	○	●	●	○	●	○
Model risk	●	○	○	●	○	○	○	●	○	○	○
People and conduct risk	●	●	○	○	○	○	●	●	○	●	○
Risk appetite	○	●	○	○	○	○	●	○	○	●	○
Financial crime risk	●	●	○	●	●	●	●	●	●	●	○
Regulatory compliance	○	●	○	●	○	○	●	●	○	●	●
Legal risk	●	●	○	○	○	○	●	○	○	●	○

### How the GRC discharges its responsibilities

During 2020, the GRC reshaped its meeting agenda to place greater emphasis on a regular review of the Group's risk landscape and to track the management of information and desired outcomes for our most important risk areas. Each meeting now commences with a review of our enterprise risk landscape through the Group Chief Risk Officer's update of the Group risk profile followed by a comprehensive review of critical management information, led by the Group Chief Risk Officer, and supported by the Group Chief Financial Officer, Group Chief Operating Officer, Group Chief Compliance Officer and Group Human Resources Officer.

The GRC also reviewed internal and external audit reports and regular risk reports, which provided deeper reporting on the Group's risk profile and highlighted the material current and forward-looking risks and issues, such that the GRC could effectively identify any areas that required more of the GRC's attention. A summary of coverage is set out in the table above.

Throughout the year, the GRC adhered to an agenda that sought to regularly address topics and oversight responsibilities set out in the Group risk taxonomy, while being flexible to undertake informed review and appropriate challenge of timely risk issues that have economic, commercial, regulatory and reputational implications for the Group's franchise.

Three thematic risk areas are described below to illustrate the GRC's focus during the year.

#### Sustainable control environment

During 2020, the GRC undertook in-depth reviews of a number of topics relating to the Group's internal controls and the necessary culture change needed to improve the control environment. The GRC reviewed model enhancements needed as a result of changes in the economy due to the Covid-19 outbreak. The GRC also continued its review of the Group's approach to operational resilience and identified improvements from a pilot study to identify areas for further enhancements. The GRC also reviewed the effectiveness of the Group's anti-fraud controls. At the November meeting of the Committee, it was agreed the ultimate oversight for all of the Group's entity level controls move from the GAC to the GRC. This change supports the Committee's responsibility for review and oversight of the risk management culture, framework and internal control systems.

#### Financial risk

The GRC provided informed review and constructive challenge to the Group's regulatory submissions of ICAAP and ILAAP. It also monitored progress on the Group's liquidity risk management improvement plan, including the development of the internal liquidity metric. It reviewed work by the Global Finance function on strengthening recovery planning.

The GRC continued to maintain oversight of the Group's regulatory and internal stress testing programmes, particularly in light of the impact of the Covid-19 outbreak with specific review and challenge of the key assumptions, strategic management actions and outcomes of the principal tests conducted. Through these reviews, the GRC assessed risks facing the Group to determine the principal risks to its long-term viability, including those that would threaten its solvency and liquidity.

### Monitoring changes to regulatory requirements

During 2020, the GRC undertook review and challenge of a number of risk areas for which the Group has regulatory obligations or is facing regulatory change. These included operational resilience, climate risk and sanctions. The Committee received updates on regulators' rules and guidance relating to operational resilience, which is designed to protect customers and maintain economic stability by preventing incidents leading to intolerable consumer harm, market disruption, and impact to the safety and soundness of firms. To reinforce continued emphasis and visibility on financial crime and sanctions compliance, the GRC organised a full-day training session on international sanctions early in the year in Hong Kong for our Asia-Pacific non-executive Directors and management.

The GRC also considered the PRA's latest requirements and expectations relating to evidencing of the embedding of climate risk management capabilities within regulated firms.

### Activities outside formal meetings

The GRC organised a number of activities outside of its regular meeting cycle to facilitate more effective oversight of the risks impacting the Group. In particular, the GRC's formal meetings continue to be supported by training and 'walk-through' sessions to raise the GRC's understanding of the underlying domain issues, ensuring the GRC is well prepared in its informed review and constructive challenge. The chairs of principal subsidiary risk committees were also invited. Activities included, among others:

- a Directors' education session, held in October 2020, focusing on the increasingly complex international sanctions and export control landscape, including key sanctions challenges facing the Group with the imposition of new US sanctions following the US Hong Kong Autonomy Act. This education session was attended by 27 non-executive Directors from across the Group;
- a Directors' education session, held in November 2020, led by senior leaders in Group Treasury on the implementation of the internal liquidity metric, which is designed to provide an internal view of liquidity risk and to ensure the Group holds enough liquidity to meet and recover from a defined stress;
- GRC Chair's Working Sessions on a range of topics including financial crime developments, progress on FCA conduct remediation matters (May 2020), the Wealth and Personal Banking conduct programme (May 2020), progress on regulatory remediation programmes (January and December 2020), the outcomes and implications of the 2020 Group internal stress test (November 2020), and progress on the 2020 ICAAP and ILAAP submissions (November 2020); and
- three cybersecurity consultation sessions and regular updates on cyber developments such as cyber-crime, legislation and technology led by the GRC's independent cybersecurity adviser.

### Connectivity with principal subsidiary risk committees

The risk committees of principal subsidiaries provided half-yearly confirmations to the GRC. These certifications confirmed that the principal subsidiary risk committees had challenged management on the quality of the information provided, reviewed the actions proposed by management to address any emerging issues or trends and that the risk management and internal control systems in place were operating effectively.

Throughout 2020, the GRC proactively encouraged principal subsidiary risk committee chairs to participate in regular GRC meetings and special review or learning sessions, leading to improved connectivity between the Group and principal subsidiary risk committees. In addition the GRC Chair participated in the meetings of principal subsidiary risk committees for Asia, the UK, Europe, the US, Latin America, Canada and the Middle East, with the aim of ensuring strong alignment, information sharing and connectivity between the GRC and principal subsidiaries.

### Collaboration between the GRC and GAC

The GRC worked closely with the GAC to ensure that there are no gaps in risk oversight, and that any areas of significant overlap are appropriately addressed by inter-committee coordination or joint meetings where appropriate. The GRC and GAC Chairs are members of both committees to further enhance connectivity, coordination and flow of information.

### Audit and Risk Committee Chairs' Forum

The Audit and Risk Committee Chairs' ('ARCC') Forum meetings continue to be one of the more collaborative GRC and GAC exercises. The forum meetings promote shared risk and audit subject matter expertise, align Group and subsidiary priorities, support the subsidiary accountability framework and promote two-way connectivity between the Group and principal subsidiary risk and audit committees. The meetings are jointly hosted by the GAC and GRC Chairs and attended by members of the GAC and GRC, the Group Executive Committee (more than half of whom attended at least one meeting), several Group non-executive Directors, the chairs of principal and regional subsidiary audit and risk committees, together with non-executive Directors and senior management from those subsidiaries.

In May, the ARCC Forum provided updates through video calls with the Asia-Pacific region and a combined call with the Europe, Middle East and Americas regions. This was followed by three ARCC Forum calls for each of the Asia-Pacific, UK, Europe and Middle East, and Americas regions in September and November.

The ARCC Forums provided an important opportunity for the GRC to understand locally-specific issues and priorities with potential read-across to other areas and regions of the Group. They also served to help the GRC hear the observations, concerns and achievements from subsidiary risk and audit chairs, with a particular focus on pressing issues or concerns (such as the Covid-19 outbreak, business restructuring, or macroeconomic issues); where Group initiatives need to be recalibrated to reflect regional constraints; cross-regional dependencies; and where the Group can progress faster. In light of the Covid-19 pandemic and highly uncertain macroeconomic environment, the ARCC Forum meetings included discussion on:

- reinforcing the control environment and embedding of non-financial risk management;
- sustaining operational integrity and resilience during a Covid-19 and restructuring environment;
- need for even stronger risk appetite, credit, counterparty and conduct risk management during a Covid-19 and macroeconomic-sensitive environment;
- strengthening model risk management and our portfolio of models at the Group level and in the regions;
- subsidiaries' role and responsibilities in our Group recovery and resolvability planning in a more macroeconomic-sensitive environment; and
- understanding the perspectives and feedback from regional subsidiaries.

### Focus of future activities

The GRC's focus for 2021 will include the following activities. It will:

- provide oversight of the execution risk arising from the Group transformation programme;
- oversee enhancements to our risk appetite statement so that it is more regular, forward-looking and risk responsive;
- ensure the risk appetite statement is closely linked to our strategic goals, our annual operating plan, stress testing, ILAAP and ICAAP exercises, and our recovery and resolution planning;
- monitor and appropriately challenge management's plans to manage and mitigate the impacts of geopolitical risks on our operations and portfolios in Asia, the Middle East and the rest of the world;
- monitor the impact of the Covid-19 outbreak on the Group's customer franchise as well as on the capital and liquidity risk, credit risk, market risk, people and operational risk for the Group;
- monitor continued progress in financial crime compliance, including enhancements in our transaction monitoring programme and the application of new analytical tools and applications to improve our fraud detection and prevention;
- continue to monitor developments and enhancements in the Group's management of conduct and culture, as well as people risk management;
- continue to review and challenge management's progress in developing and implementing our operational resilience strategy;
- oversee the Group's approach to climate risk management and climate risk appetite;
- review plans, jointly with the GAC, to strengthen the Group's data strategy and management so that we can better serve our customers, protect customer data as well as strengthen model risk management, credit risk management and risk appetite, including climate risk appetite; and
- track progress regularly in remediating outstanding, unresolved regulatory actions across the Group and principal subsidiaries, including progress in closing-out any regulatory consent orders or matters requiring attention.

### Committee evaluation

The GRC is committed to regular, independent evaluation of its own effectiveness. During 2020, the GRC undertook an internal GRC effectiveness exercise, which concluded that the GRC continued to operate effectively and in line with regulatory requirements.

The effectiveness exercise highlighted improvements made in 2020 to anchor meetings with the regular review of the Group's risk landscape and management information. Progress made in relation to the Committee's operation and engagement with principal subsidiaries was acknowledged. The review also made certain recommendations for enhancement, including in relation to rebalancing the breadth of the GRC agenda, and increasing the use of alternative mechanisms to allow the GRC to efficiently exercise oversight of risk matters through additional education and supplementary sessions. The Committee has considered and discussed the outcomes of the evaluation and accepts the findings.

The outcomes of the evaluation have been reported to the Board and the Committee will track progress on the recommendations during 2020.

## Principal activities and significant issues considered during 2020

Areas of focus	Key issues	Conclusions and actions
<b>Risk appetite</b>	The Group risk appetite statement defines the Group's risk appetite and tolerance thresholds and forms the basis of the first and second lines of defence's management of risks, our capacity and capabilities to support our customers, and the pursuit of the Group's strategic goals	The GRC undertook its biannual risk appetite review and recommended the Group's 2020 risk appetite statement to the Board with enhancements to both financial and non-financial risk metrics. It then continued to work closely with Group Risk Strategy to enhance the 2021 risk appetite statement including a climate risk qualitative statement and quantitative measures that focus on the Group's exposure and risk profile to high transition risk sectors, as well as improvements to the suite of resilience risk metrics. The GRC also raised the importance of strengthening the granularity risk appetite statements to be forward-looking and risk-responsive at GRC meetings and at regional ARCC Forums. In the process, the GRC has reinforced the importance of stronger linkage of the risk appetite statements to the Group's annual operating plan, strategic planning, stress testing exercises, annual capital adequacy and liquidity management exercises, and to the Group's recovery and resolution planning.
<b>Geopolitical developments and risks</b>	Geopolitical developments and risks continue to present significant challenges for the Group's customer franchise and for the resilience of our operations.	The GRC reviewed the Group's readiness to address major geopolitical developments, including the short- and longer-term impact of civil unrest in Hong Kong and heightened trade tensions between the US and China on our Asia and global franchise, as well as our ability to maintain our high service levels in our multi-channels to serve our customers. The GRC also monitored the Group's preparedness for financial market, operational and commercial disruptions arising out of protracted UK trade negotiations with the EU.
<b>Managing through the Covid-19 outbreak</b>	Managing operational risk and counterparty credit risk to enable the Group's support of our customers, communities and the local economy throughout the Covid-19 outbreak.	The GRC reviewed how the Group leveraged its capital and liquidity strength, robust credit standards, and digital capabilities to assist customers during the Covid-19 outbreak and to maintain market strength. In doing so, the Committee closely assessed credit trends, economic outlook and the impact on portfolio credit quality. The GRC also reviewed the operational, reputational and conduct challenges in implementing government support schemes across different geographies and regulatory jurisdictions, including associated risks, controls and oversight.
<b>Operational resilience</b>	Management's operational resilience programme is being redesigned to enable our priority business services to continue to serve our customers in the event of unforeseen disruptions in our key markets.	The GRC maintained its focus on the Group's policies, programmes and practices for strengthening and prioritising our ability to test, detect, resolve and recover from unforeseen operational disruptions in our key markets. With the goal of minimising harm to our customers and to the local financial markets, the GRC continued its review of the Group's approach to operational resilience, which incorporates learnings from the Group's response to the Covid-19 outbreak across our franchise. The GRC's oversight activities included: <ul style="list-style-type: none"> <li>• the review and challenge of progress on the formulation of a comprehensive operational resilience strategy including working with the Group Chief Control Officer on the programme to comply with regulatory standards for operational resilience;</li> <li>• the planned 'operationalisation' of critical business services and impact tolerances, and risk and control mapping to strengthen the ability to prevent, respond to, recover, and learn from operational disruptions, such as Covid-19;</li> <li>• the embedding of ownership with first line business and function leaders to deliver operational resilience outcomes for customers, for the Group's own safety and soundness, and to avoid disruptions to market integrity and financial stability; and</li> <li>• the review and challenge of management's progress in managing third-party risk in the context of an increasing reliance on technology services provided by third parties and growing regulatory scrutiny.</li> </ul>
<b>Technology resilience including cybersecurity and Cloud strategy</b>	Technology resilience is the risk of unmanaged disruption to any IT system within HSBC, as a result of malicious acts, accidental actions or poor IT practice or IT system failure.	The GRC reviewed the Committee's approach to governance of technology risk and Cloud adoption, which was a high priority area under regulatory scrutiny. The GRC also continued its oversight and challenge of the Group's cybersecurity strategy and management of cyber risks.
<b>People, conduct and culture</b>	The Group promotes a culture that is effective in managing risk and leads to fair conduct outcomes.  It seeks to actively manage the risk of adverse impact due to not having the right people with the right skills doing the right thing, including risks associated with employment practices and relations.	The GRC continued to exercise oversight in the area of people risk and employee conduct, supported by the Group Chief Human Resources Officer and Group business heads, including: <ul style="list-style-type: none"> <li>• regular monitoring of the Group's progress in remediating the market conduct issues underlying the 2018 deferred prosecution agreement with the US Department of Justice and the related 2017 Federal Reserve Bank Consent Order;</li> <li>• informed review and challenge of the alignment of risk and reward, satisfying itself that risk and compliance objectives and outcomes were reflected in the Group variable pay pool;</li> <li>• discussion of the people risk issues arising due to the impact of the Covid-19 outbreak; and</li> <li>• the review of workplace harassment data and insights, action taken and 2020 focus areas.</li> </ul>

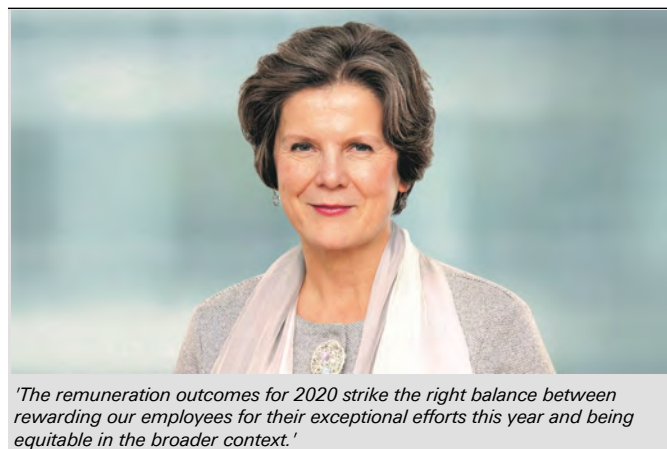
**Principal activities and significant issues considered during 2020 (continued)**

Areas of focus	Key issues	Conclusions and actions
<b>Climate risk</b>	Successful delivery of HSBC's climate ambition will be determined by our ability to measure and manage all components of climate risk.	The GRC recognises the Group's regulatory commitments due in 2021 and the Group's own publicly stated climate risk targets, as well as the need to manage climate risk of the Group's existing portfolios and future business. The GRC reviewed the Group's approach to climate risk management and climate risk appetite including associated stress testing and scenario analysis.
<b>Capital and liquidity risk including ICAAP and ILAAP</b>	The GRC oversees the Group's management of its financial risk, particularly in the context of the challenges of the Covid-19 outbreak.	<p>The GRC reviewed the Group's capability to track environmental and macroeconomic headwinds through early warning indicators and scenario stress testing. It also oversaw the Group's progress in developing a range of strategic management actions capable of timely execution and the development of recovery and resolution capabilities that meet PRA and local regulatory expectations. The GRC also maintained oversight of the Group's liquidity risk management with particular emphasis on the outlook, lessons learned from the Covid-19 outbreak, metric development, systems and controls, and regulatory feedback.</p> <p>The GRC reviewed and challenged the assessment of the Group ICAAP and ILAAP programmes and engaged with Group management in overseeing and evaluating the Group's forward-looking capital and liquidity strategies and capabilities, including the Group's liquidity risk management improvement programme. Additionally, the GRC Chairs participated in several subsidiary risk committees' review of ICAAP, leading up to final GRC review, challenge and recommendation of ICAAP to the Board.</p>
<b>Financial crime risk</b>	The Group is committed to closely monitoring and managing the risk of knowingly or unknowingly helping parties to commit or to further potentially illegal activity, including both internal and external fraud.	<p>Throughout 2020, the GRC reviewed the Group's approach to managing its financial crime risk across a number of important areas. This included:</p> <ul style="list-style-type: none"> <li>• the Group's progress in enhancing its transaction monitoring framework;</li> <li>• the fraud landscape, particularly against heightened Covid-19 conditions, the Group's fraud risk profile and the impact of regulatory developments; and</li> <li>• the nature and scale of insider risk and the Group's strategies for managing insider risk.</li> </ul> <p>The GRC also maintained oversight of the ever-changing and increasingly complex international sanctions landscape in which the Group and its customers operate, as well as the Group's approach to managing its compliance with sanctions regimes globally. The GRC held a full-day training session on sanctions in Hong Kong in January for our Asia-Pacific non-executive Directors and management. A further education session on sanctions was held for Group-wide non-executive Directors in October to address the US government imposition of sanctions in connection with its Hong Kong Autonomy Act.</p> <p>Following the organisational restructuring of Financial Crime Compliance, the GRC requested the Committee's independent financial crime advisers to examine the effectiveness of the financial crime function in the Group's subsidiaries.</p>
<b>Model risk</b>	HSBC faces risk from the inappropriate or incorrect business decisions arising from the use of models that have been inadequately designed, implemented or used, or from models that do not perform in line with expectations and predictions.	The GRC raised awareness of progress and importance of models at a number of its meetings and at the regional Audit and Risk Committee Chairs' Forums. It reviewed progress under the Group's model risk transformation programme. The Committee oversaw the development and embedding of improved model risk management controls and oversight in the first line of defence, as well as enhancements to model risk governance. The GRC also considered the adverse impact of the Covid-19 outbreak on model uncertainty including the need for enhancements as necessary.
<b>Resolvability</b>	HSBC is required to show how its resolution strategy could be carried out in an orderly way, including identification of any risks to successful resolution.	The GRC monitored the Group's progress in demonstrating that it has developed capabilities to support its own resolution, in line with the Group's resolution strategy in order to meet new requirements from the Bank of England under its resolvability assessment framework by 1 January 2022, including the requirement to comply with the valuation in resolution requirement by 1 April 2021, to submit a self-assessment to the PRA/Bank of England by 1 October 2021 and to publicly disclose HSBC's resolvability in June 2022. Together with the Group Chief Financial Officer, the GRC and GAC programmed our five regional Audit and Risk Committee Chairs' Forums to raise the importance of Boards and management of principal subsidiaries in upgrading their awareness and compliance with new regulatory standards for recovery and resolution.

## Directors' remuneration report

	Page
Group Remuneration Committee	274
Workforce remuneration	275
Our approach to Directors' remuneration	278
Annual report on remuneration	282
Additional remuneration disclosures	296

All disclosures in the Directors' remuneration report are unaudited unless otherwise stated. Disclosures marked as audited should be considered audited in the context of financial statements taken as a whole.



### Dear Shareholder

I am pleased to present our 2020 Directors' remuneration report on behalf of the members of the Group Remuneration Committee.

Making remuneration decisions in the face of the challenges presented by the Covid-19 pandemic required a delicate balancing of factors. Recognising our people for their performance is a key element of our reward strategy and helps to drive ongoing engagement, which is critically important as we navigate through the Covid-19 outbreak and the Group's transformation. However, we must also recognise the impact of these circumstances on our stakeholders and the wider community.

### Actions taken in response to Covid-19

In determining the remuneration outcomes, the Committee noted the following:

- We did not apply for government support packages for our employees across the countries and territories in which we operate, and put employee well-being, customer experience, and supporting the economy at the centre of our response to the pandemic.
- Our front-line employees continued to serve customers in challenging circumstances. Our customer contact centres were fully operational during the period, and between 70% and 90% of branches remained open, as we continued to enhance our digital capabilities.
- We worked with governments to support national schemes, granting over 720,000 payment holidays to our personal customers and 237,000 loans to our wholesale customers. We provided more than \$26bn in customer relief to our personal customers during the initial stages of the pandemic and more than \$52bn in lending to wholesale customers, many of whom still require our support.
- In line with all other large UK-based banks and at the direct request of the Group's lead regulator, the UK's PRA, we cancelled the fourth interim dividend of 2019 and suspended dividend payments until the end of 2020. In December 2020, the PRA announced a temporary approach to shareholder distributions for 2020. After considering the requirements of the temporary approach, the Board announced an interim dividend for 2020 of \$0.15 per ordinary share.

### Membership

	Member since	Meeting attendance in 2020
Pauline van der Meer Mohr (Chair)	Jan 2016	5/5
Henri de Castries	May 2017	5/5
James Forese	May 2020	4/4
Irene Lee	Apr 2018	5/5
David Nish	May 2017	5/5

Reflecting on these actions, the Committee concluded that the 2020 remuneration outcomes should strike the right balance between rewarding our employees for their exceptional efforts this year and being equitable in the broader context.

### Performance and pay for 2020

#### Financial performance

The Group's financial performance deteriorated in 2020, reflecting the impact of the Covid-19 outbreak on the global economy. Adjusted profit before tax of \$12bn was down 45% due to lower revenue and a higher expected credit loss charge directly linked to the impact of the pandemic.

However, the Group continued to make good progress on its strategic plan, demonstrated by a \$51.5bn reduction of RWAs in 2020 in low-return franchises and a 3% reduction in adjusted costs. Economic activity in Asia has proven to be resilient and is rebounding. We continue to elevate our ambition in the region by stepping up our investment.

#### Non-financial performance

We made progress in creating a simpler, more efficient organisation by combining our wholesale back office operations, and bringing our retail, wealth and private banking businesses together into a single global business. We also continue to increase investment in technology to drive improved customer experience and operational efficiency. Technology enhancements introduced in 2020 included automated lending processes for Covid-19 relief programmes, upgraded global payment systems, transformed customer onboarding processes, and use of Cloud technology for risk analytics systems.

#### Remuneration funding approach

While events such as those seen in 2020 are rare, our remuneration framework was designed with the entire economic cycle in mind, including the possibility of exceptional years. We use a countercyclical funding methodology, with both a floor and a ceiling, to recognise that there will be times when profitability is exceptionally low or exceptionally high as a result of factors not directly linked to employee performance. In such years, factors such as applying franchise protection and limiting the risk of inappropriate behaviour need to be considered when setting the variable pay pool. Nonetheless, financial performance and affordability remain central tenets in determining the appropriateness of the variable pay pool.

#### Group variable pay pool

For 2020, the Committee reviewed and agreed the Group variable pay pool of \$2,659m, taking into account performance against financial and non-financial metrics set out in the Group risk appetite statement, including conduct, and targets set out in our operating plan. This represents a 20.4% reduction in the pool compared with 2019, with the variable pay pool down approximately 15% in Global Banking and Markets, asset management and private banking, and approximately 22.5% in other areas of the Group. We also differentiated by market, with a better year-on-year outcome in Asia, reflecting the region's strategic importance and consistent contribution towards Group performance.

In determining the size of the pool, the Committee took into account the fact that overall financial performance was lower than what we had targeted at the start of the year, and certain non-financial risk metrics were outside of our risk appetite. We also took into account the exceptional circumstances faced by our shareholders, including the impact of the regulatory request to

cancel the final 2019 dividend and suspend dividend payments until the end of 2020.

While it is appropriate that the pool is significantly lower this year, the Committee was cognisant of the extraordinary effort and performance of many of our colleagues in 2020. Equally, it is critical we retain talent for the long-term interests of our stakeholders. This is of particular importance in growth markets and our areas of strategic focus, and is most acute for our high performers who are helping us restore the business to our expected performance levels. As a result, the variable pay accrual was increased in the fourth quarter in response to financial performance and market pay challenges.

### Review of workforce remuneration

#### Remuneration outcomes

In allocating the pool, the Committee decided that while the variable pay outcomes for junior colleagues should reflect Group performance, they should receive better outcomes with less differentiation relative to our senior employees. Overall, total compensation for our junior members of staff was broadly flat, which we felt was important given their significant efforts in a challenging year. Higher paid employees had an overall decrease in total compensation. We also made limited fixed pay increases for 2021 and targeted these towards our junior colleagues. As part of the year-end pay review, the Committee reviewed results of remuneration outcomes to ensure they were in line with our pay principles and the approach decided by the Committee for 2020.

#### Support for our employees

Throughout 2020, the well-being of our people was our paramount concern. Many employees had to juggle personal and professional priorities, while adapting to new and unfamiliar ways of working. In March 2020, we temporarily paused the redundancy programme intended to deliver the reduction in headcount that we set out in the transformation programme announced in February 2020. The Board was conscious of the impact of proceeding with redundancies, particularly at the outset of the crisis given the significant stress for our people and communities, and the need to protect our capacity to serve our customers. The Board lifted the pause on the redundancy programme in June 2020 while continuing the freeze on the vast majority of external recruitment to make every effort to fill vacancies internally. We maintained a regular flow of communication and listened closely to our colleagues' needs, providing the support and flexibility required to help them manage their lives during the pandemic, and maintained their full pay without applying for government support packages.

We ran a mid-year employee survey to determine how the Covid-19 outbreak was impacting our colleagues and how we could support them through this period. More than 50% of our total employee population responded, of which more than 89% said they were getting the information they needed from the organisation, 86% reported that they were getting the support they needed from their line manager and 86% of the respondents reported they felt confident in leadership. In addition, 75% of employees that participated in our 2020 Snapshot survey said they believed HSBC values their well-being.

For our departing colleagues, we took steps to offer them support on searching and applying for jobs and preparing for interviews. We also maintained a dedicated advice website, offered virtual workshops and provided access to career development tools to set them up for success outside HSBC.

### Key remuneration decisions for Directors

#### Voluntary decisions made by executive Directors

Reflecting on the severity of the impact of Covid-19 at the outset, our two executive Directors made personal contributions to the fight against the pandemic by donating to charity a quarter of their base salaries for six months, and our Group Chairman donated his entire fee for 12 months to charity. Additionally, as an organisation, we provided \$25m in charitable donations, which went toward immediate medical relief, access to food, and care

for the most vulnerable people. Our executive Directors also decided to voluntarily forgo any annual cash bonus for 2020 due to the impact of the suspension of dividends on our shareholders.

#### Executive Director annual performance assessment

With regard to performance-based pay for 2020, the financial measures in the executive Directors' annual scorecards were aligned to the delivery of profit before tax, our strategic priority of reducing RWAs in low-return franchises and, for the Group Chief Financial Officer, effective management of Group costs. Following careful consideration, these targets were not revised for the significant economic impact of the Covid-19 outbreak to reflect the Committee's view that reward for our executive Directors should align with the experience of our shareholders.

Non-financial performance measures were linked to customer satisfaction, employee engagement and diversity, environmental stewardship, risk and compliance, and organisational simplification. The Committee noted strong non-financial performance as our commitment to delivering responsibly for our stakeholders remained unchanged throughout the pandemic. In addition to the actions noted to support our customers and the wider economy, customer and digital satisfaction scores increased in some of our scale markets, employee engagement scores improved, we met our diversity goal of having at least 30% women in senior management roles, and we achieved carbon reduction and sustainable finance and investment targets. We were also recognised by *Euromoney* for 'Global Excellence in Leadership during the Covid-19 pandemic' in its Awards for Excellence 2020.

#### Executive Director annual incentive scorecard outcome

The above resulted in an overall outcome of 64.50% for the Group Chief Executive and 63.75% for the Group Chief Financial Officer (further details of performance are provided on page 283). The Committee reviewed this outcome in the context of a number of internal and external considerations to determine whether it should exercise its discretion to reduce the outcome, including:

- overall share price performance in the year, which was significantly impacted by both the Covid-19 outbreak and the impact of the PRA's request to suspend dividend payments;
- the impact of the bonus pool reduction on the total compensation for our wider workforce;
- profit before tax and return on tangible equity ('RoTE') performance; and
- the positive actions taken by the Board to support our customers, colleagues and communities in these uncertain times.

The Committee determined the 2020 formulaic scorecard outcomes appropriately reward the executive Directors for their performance within the context of overall stakeholder experience. With the voluntary waiver of cash bonuses by executive Directors, the Group Chief Executive's effective payout was reduced to 32.25% of its maximum, and the Group Chief Financial Officer's was reduced to 31.88%. The effective payouts are 51.43% and 58.86% below their respective outcomes compared with 2019.

#### 2020 long-term incentive ('LTI') for executive Directors

To reflect the Group's strategy, and after listening to our shareholders, the Committee has agreed that the 2020 LTI will be based on four equally weighted measures.

- RoTE: We have retained a key measure of our financial performance and how we generate returns that deliver value for our shareholders.
- Capital reallocation to Asia: We have set a new metric to assess a key lever of our strategy and business transformation plan.
- Environment and sustainability: We have set a new measure to align with the Group's climate ambition to bring our own operations to net zero by 2030 and support our customers in their transition to a more sustainable future.
- Relative total shareholder return: We have retained this metric, which rewards executive Directors based on comparison of the



total shareholder return performance of the Group and a relevant peer group.

### 2020 LTI grant size

The Committee is aware of shareholders' expectations on the need to adjust the size of LTI awards to ensure they do not result in 'windfall gains' in the event that the share price falls significantly due to the impact of the Covid-19 outbreak. While this does not impact outstanding LTI awards, the Committee agreed, in line with investor expectations, that the 2020 LTI awards should be subject to a 'windfall gain' adjustment at grant if the share price falls significantly relative to the grant price of the 2019 LTI. This is to ensure that the reward for our executive Directors aligns with the experience of our shareholders and is reflective of management performance over the performance period.

While the share price to be used for the 2020 LTI award is not known at this stage, the Committee has agreed, in line with investor expectations, if the 2020 LTI grant share price experiences a greater than 30% decline since the previous grant, this would be considered a material share price fall, and an adjustment percentage equal to half the share price percentage decline would be applied to the awards to mitigate the potential for 'windfall gains'.

### Executive Directors' fixed pay for 2021

We have increased the base salary of our executive Directors by 1.6% in line with the average increase for our Group employees. Additionally, in an expansion to his current remit, the Group Chief Financial Officer will assume responsibility for the Group's transformation programme, effective immediately, and its mergers and acquisitions agenda, from April. In acknowledgement of the expanded remit and responsibilities, the Committee has decided to adjust his fixed pay allowance from £950,000 to £1,085,000 in accordance with the terms of the Directors' remuneration policy approved at the 2019 AGM. The executive Directors have made the personal decision to donate 100% of their salary and fixed pay allowance increases for 2021 to charity given the ongoing challenging external environment.

### Investor consultation

The Committee considers that regular dialogue with our shareholders, including outside of our policy vote years and especially during these uncertain times, is important to ensure our remuneration policy operates as intended and in line with shareholder expectations. In 2020, we met with a number of our significant shareholders and proxy voting agencies to hear their views on executive and wider workforce remuneration. As ever, we found this engagement to be very helpful as we considered the implementation of our remuneration policy, including the 'windfall gain' adjustment for the 2020 LTI award, and use of ESG measures in the forward-looking scorecards. Further details of the 2020 LTI measures and targets are on page 286. The 2021 annual incentive scorecard is provided on page 292.

On behalf of the Committee, I would like to thank investors for their time during the consultations and their support for the direction of travel.

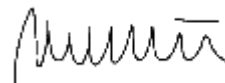
The Group's Directors' remuneration policy is due to expire at the 2022 AGM. During the course of 2021, we will be reviewing our current approach to Directors' remuneration and will consult with our large shareholders and proxy advisory bodies with the aim of introducing a new policy in 2022. The review will continue to be based on our following key principles:

- The policy should be simple and transparent.
- There should be a strong alignment between rewards and the interests of our stakeholders, including shareholders, customers and employees.
- The policy should maintain a focus on long-term performance.
- The total compensation package should be competitive to ensure we can retain and attract talent.
- The structure should meet the expectations of investors and our regulators.

The Committee is concerned that over time, HSBC's overall remuneration opportunity has fallen behind desired levels to reflect the calibre of the executives and market positioning. While conscious of external sentiment, one of the areas of focus for the Committee will therefore be ensuring that overall remuneration levels remain appropriate in the context of the above and support delivery of our strategic priorities. Any proposed changes would be discussed with shareholders and the proxy advisory bodies as part of the wider consultation on the remuneration policy in 2021.

### Our annual report on remuneration

As Chair of the Committee, I hope you will support the 2020 Directors' remuneration report.



**Pauline van der Meer Mohr**

Chair

Group Remuneration Committee

23 February 2021

## Group Remuneration Committee

The Group Remuneration Committee is responsible for setting the overarching principles, parameters and governance of the Group's remuneration framework for all employees, and the remuneration of executive Directors, the Group Chairman and other senior Group employees. The Committee regularly reviews the framework in the context of consistent and effective risk management, and the regulatory requirements of multiple jurisdictions.

No Directors are involved in deciding their own remuneration. All members of the Committee are independent non-executive Directors of HSBC Holdings. A copy of the Committee's terms of reference can be found on our website at [www.hsbc.com/our-approach/corporate-governance/board-committees](http://www.hsbc.com/our-approach/corporate-governance/board-committees).

The Committee met five times during 2020. James Forese was appointed as a member of the Committee on 1 May 2020. David Nish stepped down as a member of the Committee on 23 February 2021. The following is a summary of the Committee's key activities during 2020.

### Matters considered during 2020

	Jan	May	Jul	Sep	Dec
<b>Remuneration framework and governance</b>					
Group variable pay pool, workforce performance and pay matters, Gender Pay Gap report, and employee surveys	●	●	●	●	●
Executive Director remuneration policy implementation, scorecards and pay proposals	●	●	●	●	●
Remuneration for other senior executives of the Group	●	●	○	○	●
Non-executive Director compensation	○	●	○	○	●
Shareholder consultation and proxy adviser views	○	●	○	●	●
Directors' remuneration report	●	○	○	●	●
<b>Regulatory, risk and audit</b>					
Information on material risk and audit events, and performance and remuneration impacts for individuals involved	●	●	●	●	●
Regulatory updates and filings, including approach and outcomes for the identification of Material Risk Takers	●	●	●	●	●
Corporate governance briefings	○	●	○	○	●
<b>Principal subsidiaries</b>					
Matters from subsidiary committees	●	●	●	●	●

### Advisers

The Committee received input and advice from different advisers on specific topics during 2020. Deloitte LLP's engagement with the Committee was extended during 2020. The Committee's decision reflected the quality and objectivity of the independent advice that Deloitte had provided to the Committee on remuneration matters. Deloitte provided benchmarking data on remuneration policy matters and independent advice to the Committee. Deloitte also provided tax compliance and other advisory services to the Group.

The Committee also received advice from Willis Towers Watson on market data and remuneration trends for senior management. Willis Towers Watson was appointed as remuneration adviser by management after considering invited proposals from similar consultancy firms. It provides actuarial support to Global Finance and benchmarking data and services related to benefits administration for our Group employees. To ensure the advice from Deloitte and Willis Towers Watson was objective, the Committee required the advice to be independent and distinct from any internal review and analysis on remuneration policy matters. The Committee was satisfied the advice provided by Deloitte and Willis Towers Watson was objective and independent in 2020. Deloitte is a founding member of the Remuneration Consultants Group and voluntarily operates under the code of conduct in relation to executive remuneration consulting in the UK.

For 2020, total fees of £173,900 and £68,289 were incurred in relation to remuneration advice provided by Deloitte and Willis Towers Watson, respectively. This was based on pre-agreed fees and a time-and-materials basis.

### Attendees and interaction with other Board committees

During the year, Noel Quinn as the Group Chief Executive provided regular briefings to the Committee. In addition, the Committee engaged with and received updates from the following:

- Mark Tucker, Group Chairman;
- Elaine Arden, Group Chief Human Resources Officer;
- Alexander Lowen, Group Head of Performance Management, Reward, Human Resources Transformation and People Analytics;
- Pam Kaur, Group Chief Risk Officer;
- Colin Bell, Group Chief Compliance Officer;

- Jonathan Calvert-Davies, Group Head of Audit; and
- Aileen Taylor, Group Company Secretary and Chief Governance Officer.

The Committee also received feedback and input from the Group Risk Committee and Group Audit Committee on risk, conduct and compliance-related matters relevant to remuneration.

### Review of workforce remuneration and related policies

In light of the year's challenging circumstances, the Committee's review and approval of the workforce remuneration strategy was particularly focused on ensuring protection for our junior employees and delivering appropriate pay differentiation for those areas of the business that performed well.

The Committee also reviewed the results of remuneration outcomes across the Group to ensure they were in line with our pay principles (as set out on page 275). This included details of variable remuneration adjustments and information on reward outcomes by performance and behaviour ratings. The Committee uses this information to assess the effectiveness of our remuneration framework and whether our framework aligns employee rewards with our values.

We measure our employees' sentiment on performance and pay matters through our annual pay review surveys. In the first half of 2020, the Committee reviewed the results of the most recent survey. A significant proportion of the respondents' comments indicated improved sentiment towards our pay review process. The majority of employees believed their year-end ratings were a fair reflection of their performance and behaviour, and felt motivated to perform at their best following their performance review.

### Committee effectiveness

The annual review of the effectiveness of the Board committees was internally facilitated during 2020. Overall, the review concluded that the Group Remuneration Committee continued to operate effectively, with a number of positive aspects of the operation and practices highlighted by the review. There were also areas of improvement identified, including the engagement dynamic with advisers. The Committee has considered and discussed the outcomes of the evaluation, and accepts the findings with a number of actions to address them already in progress. The outcomes of the evaluation have been reported to the Board and the Committee will track progress against the recommendations during 2021.

---

## Our approach to workforce remuneration

### Remuneration principles

Our performance and pay strategy aims to reward competitively the achievement of long-term sustainable performance by attracting, motivating and retaining the very best people, regardless of gender, ethnicity, age, disability or any other factor unrelated to performance or experience. It supports our people to perform their roles in the long-term interests of our stakeholders, which includes the customers and communities we serve, our shareholders and our regulators. The strategy is underpinned by:

- decisions that are fair, appropriate and free from bias;
- a culture supportive of continuous feedback through manager and employee empowerment;
- reward and recognition of sustainable performance and values-aligned behaviour; and
- a balanced, simple and transparent total reward package that supports employee well-being.

### Spotlight on 2020: Our response to the Covid-19 outbreak

These principles were key to facilitating the agile approach we took to pay and performance in response to the Covid-19 outbreak. In response to the challenging circumstances our colleagues faced, we offered them increased practical support, recognised them for their exceptional response to our customers and each other, and helped to ensure fair and appropriate treatment.

---

#### Appropriate practical support for our colleagues

- We took a country-based approach to our response to ensure that what we provided to our employees was appropriate for the conditions and restrictions in place in their location.
- Our priority was to support the well-being of our employees using a range of initiatives focusing on:
  - enabling employees to work flexibly to support additional caring responsibilities;
  - ensuring employees could purchase the equipment they needed to work from home wherever possible;
  - providing financial assistance to employees who may have incurred additional costs, for example where normal commuting or onsite catering services were disrupted; and
  - supporting mental and physical well-being with employee assistance programmes, access to Covid-19-related private medical treatment and flu vaccination initiatives.
- More than 50% of our total employee population responded to our mid-year employee survey. Of those who responded, 86% of employees reported they were getting the support they needed from their line manager, and 83% said they believed HSBC valued their well-being.

---

#### Recognising the exceptional response

- We ran a 'Spotlight' campaign within our 'At Our Best Recognition' points programme that focused on recognising our Covid-19 Heroes.
- There were over 169,000 colleague recognitions made over a three-month period, a threefold increase in recognitions compared with previous Spotlight campaigns that we have run.

---

#### Helping managers to make fair decisions

- The majority of our people underwent a change in working pattern and/or location as a result of the Covid-19 outbreak. We wanted to ensure our people are always recognised against relevant and achievable objectives with allowance for barriers to performance outside of their control.
- In response to the Covid-19 outbreak, we issued specific guidance for managing performance under some of the most common scenarios our people found themselves in, to support our managers in continuing to make performance decisions.

Our approach to performance and pay in 2020 for the broader workforce was underpinned by our remuneration principles.

Principle	Our approach in 2020
<b>Fair, appropriate and free from bias</b>	<ul style="list-style-type: none"> <li>• <b>Our communications to managers encouraged them to challenge their assessments by questioning whether they were objective and based on fact.</b> Managers in similar roles then came together to complete fairness reviews of the performance and behaviour ratings of their team and make any necessary adjustments based on the review of the peer group to mitigate the risk of bias and take a broader view of team performance.</li> <li>• <b>We supported managers, particularly the less experienced ones, to make informed, consistent and fair pay decisions.</b> Managers of 96% of our junior employees are supported by simplified or guided decision making.</li> <li>• As part of our annual performance and pay review process, <b>we undertook analytical reviews to check for and identify bias,</b> and provide these reports to our senior management and Group Remuneration Committee as part of their review of annual pay review outcomes.</li> <li>• We made pay and performance reporting tools available to our managers for the purpose of undertaking an analytical review of pay decisions for their team. <b>We continue to enhance these based on manager feedback to make these tools useful and increase usage.</b></li> <li>• <b>We regularly review our pay practices</b> and in 2020 worked with independent third parties to review equal pay.</li> <li>• <b>If pay differences are identified that are not due to an objective reason such as performance or skills and experience, we made adjustments.</b></li> </ul>
<b>A culture of continuous feedback through manager and employee empowerment</b>	<ul style="list-style-type: none"> <li>• We seek to create a culture where <b>our people can fulfil their potential, gain new skills and develop their careers for the future.</b></li> <li>• <b>In 2020, we enhanced our continuous feedback culture, Everyday Performance and Development,</b> which supported our people to have regular conversations with their line managers about items such as their performance, pay, development and well-being throughout the year.</li> <li>• <b>We launched our Continuous Performance Management tool, including on mobile,</b> to make it easier for our people as team members and as managers to share activities, feedback, achievements and progress regularly to drive conversations.</li> <li>• We encouraged colleagues to use our online career planning tools to <b>help them with their thinking about future roles and the capabilities they require.</b></li> <li>• Line managers were provided with clear guidance materials to support them in making fair and appropriate decisions at key stages in the performance and pay decision-making process. <b>We were clear on the decisions that managers are empowered to own and provided them with principles to support such decision making.</b></li> <li>• Employees also received notifications and guidance throughout the performance and pay review period to <b>support their understanding of what is expected of them and what they can expect.</b></li> </ul>
<b>Reward and recognition of sustainable performance and values-aligned behaviour</b>	<ul style="list-style-type: none"> <li>• We have a robust performance management process that underpins our approach to reward and <b>drives clear pay differentiation.</b></li> <li>• <b>Group and business unit performance is used in determining the Group variable pay pool and its allocation to each business unit.</b> Where performance in a year is weak, as measured by both financial and non-financial metrics, this will impact the relevant pool, while the final pool also considers the external operating environment and expectation of our stakeholders.</li> <li>• Assessment of individual performance is made with reference to a <b>balanced scorecard of clear and relevant financial and non-financial objectives,</b> including appropriate risk and compliance objectives.</li> <li>• <b>We believe it is important to recognise our people not just for results, but also for upholding our values.</b> As such, subject to local law, employees receive a behaviour rating as well as a performance rating to ensure performance is assessed not only on what is achieved, but also on how it is achieved.</li> <li>• We undertake analytical reviews to ensure there is <b>clear pay differentiation across both performance and behaviour ratings,</b> which are provided to senior management and the Group Remuneration Committee as part of their oversight of the remuneration outcomes for the Group's workforce.</li> <li>• <b>We recognise examples of exceptional positive conduct</b> through an increase in variable pay, and apply a reduction in variable pay for misconduct or inappropriate behaviour that exposes us to financial, regulatory or reputational risk.</li> <li>• <b>Our global 'At Our Best' recognition programme allows our people to recognise their colleagues for demonstrating our values,</b> with an award of recognition points that can be redeemed against a wide range of goods. Over one million peer-to-peer recognitions were made globally in 2020.</li> <li>• We promote employee share ownership through variable pay deferral or voluntary enrolment in an all-employee share plan, which assists with <b>incentivising long-term sustainable performance.</b></li> </ul>
<b>Balanced, simple and transparent total reward packages, which support employee well-being</b>	<ul style="list-style-type: none"> <li>• <b>We maintain an appropriate balance between fixed pay, variable pay and employee benefits,</b> taking into consideration an employee's seniority, role, individual performance and the market. We are informed, but not driven, by market position and practice.</li> <li>• For the 2020 pay review process, <b>we have prioritised fixed pay increases for our global career bands 6 to 8 population,</b> where it represents a higher proportion of total compensation, and towards locations and business areas which are particularly integral to the execution of the Group's strategy.</li> <li>• <b>We are committed to employee well-being</b> and offer employee benefits that support the mental, physical and financial health of a diverse workforce.</li> <li>• <b>All HSBC employees that work in a jurisdiction with a legal minimum wage are paid at or above this amount.</b> In 2014, HSBC in the UK was formally accredited by the Living Wage Foundation for having adopted the 'Living Wage' and the 'London Living Wage'.</li> </ul>

## Payments on loss of office

no further obligations which could give rise to remuneration payments or payments for loss of office.

The table below sets out the basis on which payments on loss of office may be made. Other than as set out in the table, there are

### Payments on loss of office

Component of remuneration	Approach taken
<b>Fixed pay and benefits</b>	<p>Executive Directors may be entitled to payments in lieu of:</p> <ul style="list-style-type: none"> <li>notice, which may consist of base salary, FPA, pension entitlements and other contractual benefits, or an amount in lieu of; and/or</li> <li>accrued but untaken holiday entitlement.</li> </ul> <p>Payments may be made in instalments or a lump sum, and may be subject to mitigation, and subject to applicable tax and social security deductions.</p>
<b>Annual incentive and LTI</b>	<p>In exceptional circumstances, as determined by the Committee, an executive Director may be eligible for the grant of annual and/or long-term incentives under the HSBC Share Plan based on the time worked in the performance year and on the individual's contribution.</p>
<b>Unvested awards</b>	<p>All unvested awards will be forfeited when an executive Director ceases employment voluntarily and is not deemed a good leaver. An executive Director may be considered a good leaver, under the HSBC Share Plan, if their employment ceases in specified circumstances which includes:</p> <ul style="list-style-type: none"> <li>ill health, injury or disability, as established to the satisfaction of the Committee;</li> <li>retirement with the agreement and approval of the Committee;</li> <li>the employee's employer ceasing to be a member of the Group;</li> <li>redundancy with the agreement and approval of the Committee; or</li> <li>any other reason at the discretion of the Committee.</li> </ul> <p>If an executive Director is considered a good leaver, unvested awards will normally continue to vest in line with the applicable vesting dates, subject to performance conditions, the share plan rules, and malus and clawback provisions. In the event of death, unvested awards will vest and will be released to the executive Director's estate as soon as practicable.</p> <p>In respect of outstanding unvested awards, the Committee may determine that good leaver status is contingent upon the Committee being satisfied that the executive has no current or future intention at the date of leaving HSBC of being employed by any competitor financial services firm. The Committee determines the list of competitor firms from time to time, and the length of time for which this restriction applies. If the Committee becomes aware of any evidence to the contrary before vesting, the award will lapse.</p>
<b>Post-departure benefits</b>	<p>Executive Directors can be provided certain benefits for up to a maximum of seven years from date of departure for those who depart under good leaver provisions under the HSBC Share Plan, in accordance with the terms of the policy. Benefits may include, but are not limited to, medical coverage, tax return preparation assistance and legal expenses. The Committee also has the discretion to extend the post-departure benefit of medical coverage to former executive Directors, up to a maximum of seven years from their date of departure.</p>
<b>Other</b>	<p>Where an executive Director has been relocated as part of their employment, the Committee retains the discretion to pay the repatriation costs. This may include, but is not restricted to, airfare, accommodation, shipment, storage, utilities, and any tax and social security that may be due in respect of such benefits.</p> <p>Except in the case of gross misconduct or resignation, an executive Director may also receive retirement gifts.</p>
<b>Legal claims</b>	<p>The Committee retains the discretion to make payments (including professional and outplacement fees) to mitigate against legal claims, subject to any such payments being made in accordance with the terms of an appropriate settlement agreement waiving all claims against the Group.</p>
<b>Change of control</b>	<p>In the event of a change of control, outstanding awards will be treated in line with the provisions set out in the respective plan rules.</p>

## Our approach to Directors' remuneration

This section summarises our remuneration policy for executive and non-executive Directors. The policy was approved at the AGM on 12 April 2019 and is intended to apply for three performance years until the AGM in 2022. The full remuneration policy, including the policy on payment for loss of office, can be found on pages 175 to 184 of our *Annual Report and Accounts 2018* and the Directors' Remuneration Policy Supplement, which is available under Group Results and Reporting in the Investor Relations section of [www.hsbc.com](http://www.hsbc.com).

### Remuneration policy summary – executive Directors

Elements and objectives	Operation	Implementation in 2021
<p><b>Base salary<sup>1</sup></b></p> <p>To attract and retain key talent by being market competitive and rewarding ongoing contribution to role.</p>	<ul style="list-style-type: none"> <li>Base salary is paid in cash on a monthly basis.</li> <li>Other than in exceptional circumstances, the base salary for the current executive Directors will not increase by more than 15% above the level at the start of the policy period in total for the duration of the policy.</li> </ul>	<p>Base salary will be increased by 1.6% in line with the overall increase for Group employees. Base salary from 1 March 2021 will be as follows:</p> <ul style="list-style-type: none"> <li>Noel Quinn: £1,291,000</li> <li>Ewen Stevenson: £753,000</li> </ul>
<p><b>Fixed pay allowance ('FPA')<sup>1</sup></b></p> <p>To deliver a level of fixed pay required to reflect the role, skills and experience of the Directors and to maintain a competitive total remuneration package for retention of key talent.</p>	<ul style="list-style-type: none"> <li>The FPA is granted in instalments of immediately vested shares.</li> <li>On vesting, shares equivalent to the net number of shares delivered (after those sold to cover any income tax and social security) are subject to a retention period and released annually on a pro-rata basis over five years, starting from the March immediately following the end of the financial year for which the shares are granted.</li> <li>Dividends are paid on the vested shares held during the retention period.</li> </ul>	<p>FPA for 2021 will be as follows:</p> <ul style="list-style-type: none"> <li>Noel Quinn: £1,700,000</li> <li>Ewen Stevenson: will increase from £950,000 to £1,085,000 from 1 March 2021</li> </ul>
<p><b>Cash in lieu of pension</b></p> <p>To attract and retain key talent by being market competitive.</p>	<ul style="list-style-type: none"> <li>Cash in lieu of pension is paid on a monthly basis as 10% of base salary.</li> <li>This allowance, as a percentage of salary, is not more than the maximum contribution rate, as a percentage of salary, that HSBC could make for a majority of employees who are defined contribution members of the HSBC Bank (UK) Pension Scheme.</li> </ul>	<ul style="list-style-type: none"> <li>No change to percentage of base salary.</li> </ul>
<p><b>Annual incentive</b></p> <p>To drive and reward performance against annual financial and non-financial objectives that are consistent with the strategy and align to shareholder interests.</p>	<ul style="list-style-type: none"> <li>The maximum opportunity is up to 215% of base salary.</li> <li>Annual incentive performance is measured against an individual scorecard.</li> <li>At least 50% of any award is delivered in shares, which are normally immediately vested.</li> <li>On vesting, shares equivalent to the net number of shares that have vested (after those sold to cover any income tax and social security payable) will be held for a retention period of up to one year, or such period as required by regulators.</li> <li>Awards will be subject to clawback (i.e. repayment or recoupment of paid vested awards) for a period of seven years from the date of award, extending to 10 years in the event of an ongoing internal/regulatory investigation at the end of the seven-year period. Any unvested awards will be subject to malus (i.e. reduction and/or cancellation) during any applicable deferral period.</li> <li>The Committee retains the discretion to:                             <ul style="list-style-type: none"> <li>apply a longer retention period;</li> <li>increase the proportion of the award to be delivered in shares; and</li> <li>defer the vesting of a portion of the award.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>See page 292 for details of performance measures.</li> </ul>
<p><b>Long-term incentive ('LTI')</b></p> <p>To incentivise sustainable long-term performance and alignment with shareholder interests.</p>	<ul style="list-style-type: none"> <li>The maximum opportunity is up to 320% of base salary.</li> <li>The LTI is granted if the Committee considers that there has been satisfactory performance over the prior year.</li> <li>The LTI is subject to a forward-looking three-year performance period from the start of the financial year in which the awards are granted.</li> <li>At the end of the performance period, awards will vest in five equal instalments, with the first vesting on or around the third anniversary of the grant date and the last instalment vesting on or around the seventh anniversary of the grant date.</li> <li>On vesting, shares equivalent to the net number of shares that have vested (after those sold to cover any income tax and social security payable) will be held for a retention period of up to one year, or such period as required by regulators.</li> <li>Awards are subject to malus provisions prior to vesting. Vested shares are subject to clawback for a period of seven years from the date of award, extending to 10 years in the event of an ongoing internal/regulatory investigation at the end of the seven-year period.</li> <li>Awards may be entitled to dividend equivalents during the vesting period, paid on vesting. Where awards do not receive dividend equivalents, the number of shares awarded can be determined using the share price discounted for the expected dividend yield.</li> </ul>	<ul style="list-style-type: none"> <li>See page 292 for further details.</li> </ul>

<sup>1</sup> The executive Directors have made the personal decision to donate 100% of their increases to salaries and increases to their fixed pay allowances for 2021 to charity given the ongoing challenging external environment.

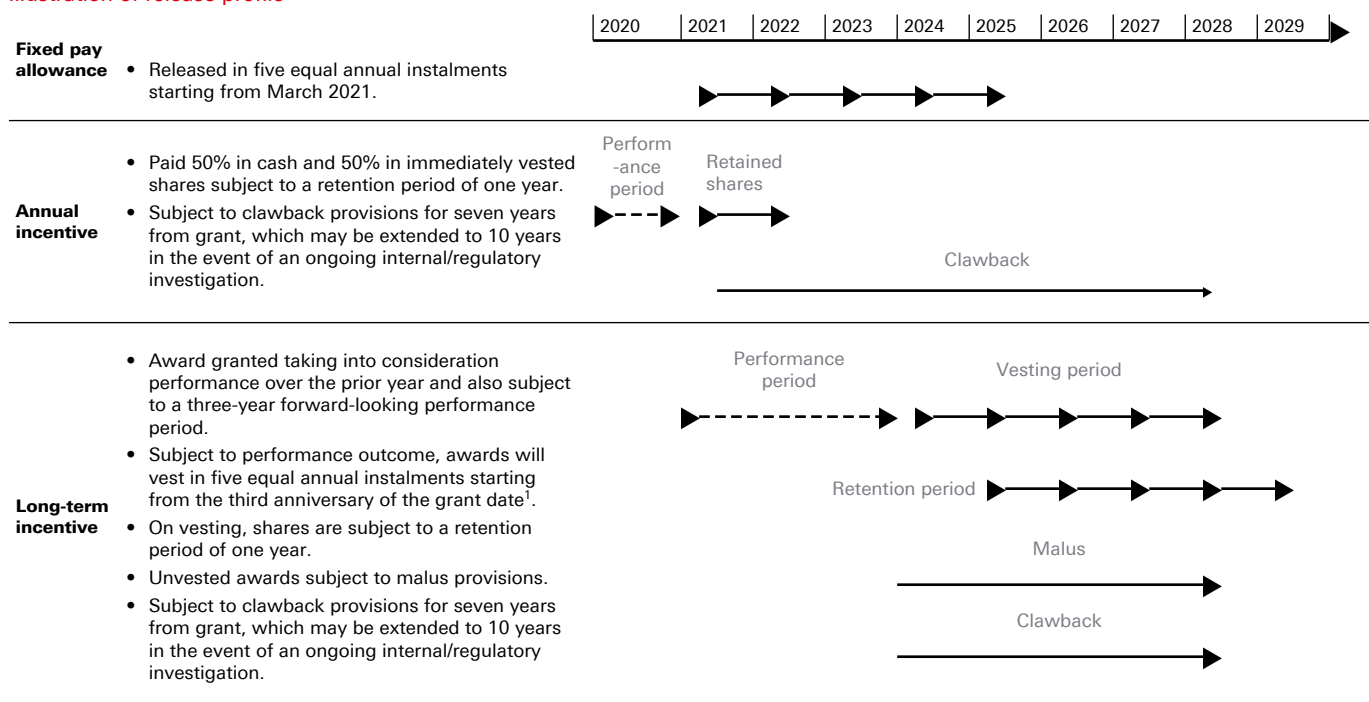
## Remuneration policy summary – executive Directors

Elements and objectives	Operation	Implementation in 2021
<b>Benefits</b> To provide benefits in accordance with local market practice.	<ul style="list-style-type: none"> <li>Benefits include the provision of medical insurance, accommodation, car, club membership, independent legal advice in relation to a matter arising out of the performance of employment duties for HSBC, tax return assistance or preparation and travel assistance (including any associated tax due, where applicable).</li> <li>Additional benefits may also be provided when an executive is relocated or spends a substantial proportion of his/her time in more than one jurisdiction for business needs.</li> </ul>	<ul style="list-style-type: none"> <li>Benefits to be provided as per policy. Details will be disclosed in the <i>Annual Report and Accounts 2021</i> single figure of remuneration table.</li> </ul>
<b>Shareholding guidelines</b> To ensure appropriate alignment with the interest of our shareholders.	Executive Directors are expected to satisfy the following shareholding requirement as a percentage of base salary within five years from the date of their appointment: <ul style="list-style-type: none"> <li>Group Chief Executive: 400%</li> <li>Group Chief Financial Officer: 300%</li> </ul>	<ul style="list-style-type: none"> <li>No change to percentage of base salary.</li> </ul>
<b>All-employee share plans</b> To promote share ownership by all employees.	Executive Directors are eligible to participate in all-employee share plans, such as HSBC Sharesave, on the same basis as all other employees.	<ul style="list-style-type: none"> <li>Participation in any such plans will be disclosed in the <i>Annual Report and Accounts 2021</i>, as required.</li> </ul>

### Illustration of release profile

The following chart provides an illustrative release profile of remuneration for executive Directors.

#### Illustration of release profile



<sup>1</sup> The seven-year vesting period and the one-year post-vesting retention period applied to shares granted under the LTI aligns with the minimum five-year holding period expected by shareholders and under the UK Corporate Governance Code as the share awards will be released over a period of eight years with a weighted-average holding period of six years.

The table below details how the Group Remuneration Committee addresses the principles set out in the UK Corporate Governance Code in respect of the Directors' remuneration policy.

Provision	Approach
<p><b>Clarity</b></p> <p>Remuneration arrangements should be transparent and promote effective engagement with shareholders and the workforce.</p>	<ul style="list-style-type: none"> <li>• The Committee regularly engages and consults with key shareholders to take into account shareholder feedback and to ensure there is transparency on our policy and its implementation.</li> <li>• Our employees were informed about the Directors' remuneration policy approved by our shareholders at our 2019 AGM. Details of our remuneration practices and our remuneration policy for Directors are published and available to all our employees.</li> </ul>
<p><b>Simplicity</b></p> <p>Remuneration structures should avoid complexity and their rationale and operation should be easy to understand.</p>	<ul style="list-style-type: none"> <li>• Our Directors' remuneration policy has been designed to achieve simplicity while complying with the provisions set out in the UK Corporate Governance Code and the remuneration rules of the UK's Prudential Regulation Authority and Financial Conduct Authority, as well as meeting the expectations of our shareholders. The objective of each remuneration element is explained and the amount paid in respect of each element of pay is clearly set out.</li> </ul>
<p><b>Risk</b></p> <p>Remuneration structures should identify and mitigate against reputational and other risks from excessive rewards, as well as behavioural risks that can arise from target-based incentive plans.</p>	<ul style="list-style-type: none"> <li>• In line with regulatory requirements, our remuneration practices promote sound and effective risk management while supporting our business objectives (see page 295).</li> <li>• Risk and conduct considerations are taken into account in setting the variable pay pool, from which any executive Director variable pay is funded.</li> <li>• Executive Directors' annual and LTI scorecards include a mix of financial and non-financial measures. Financial measures in the scorecards are subject to a CET1 underpin to ensure CET1 remains within risk tolerance levels while achieving financial targets. In addition, the overall scorecard outcome is subject to a risk and compliance underpin.</li> <li>• The deferred portion of any awards granted to executive Directors is subject to a seven-year deferral period during which our malus policy can be applied. All variable pay awards that have vested are subject to our clawback policy for a period of up to seven years from the award date (extending to 10 years where an investigation is ongoing).</li> </ul>
<p><b>Predictability</b></p> <p>The range of possible values of rewards to individual Directors and any other limits or discretions should be identified and explained at the time of approving the policy.</p>	<ul style="list-style-type: none"> <li>• The charts set out on page 7 of our Directors' remuneration policy show how the total value of remuneration and its composition vary under different performance scenarios for executive Directors. The Directors' remuneration policy can be found at <a href="http://www.hsbc.com/our-approach/corporate-governance/remuneration">www.hsbc.com/our-approach/corporate-governance/remuneration</a>.</li> </ul>
<p><b>Proportionality</b></p> <p>The link between individual awards, the delivery of strategy and the long-term performance of the Group should be clear and outcomes should not reward poor performance.</p>	<ul style="list-style-type: none"> <li>• The annual incentive scorecard rewards achievement of our annual operating targets and the LTI scorecard rewards achievement of long-term financial and shareholder value creation targets.</li> <li>• The Committee retains the discretion to reduce (to zero if appropriate) the annual incentive and LTI payout based on the outcome of the relevant scorecards, if it considers that the payout determined does not appropriately reflect the overall position and performance of the Group during the performance period.</li> </ul>
<p><b>Alignment with culture</b></p> <p>Incentive schemes should drive behaviours consistent with the Group's purpose, values and strategy.</p>	<ul style="list-style-type: none"> <li>• In order for any annual incentive award to be made, each executive Director must achieve a required behaviour rating, which is assessed by reference to the HSBC Values.</li> <li>• Annual incentive and LTI scorecards contain non-financial measures linked to our wider social obligations. This includes measures related to reducing the environmental impact of our operations, improving customer satisfaction, diversity and employee engagement.</li> <li>• Annually, senior employees participate in a 360 degree survey which gathers feedback on values-aligned behaviours.</li> </ul>



## Remuneration policy – non-executive Directors

Non-executive Directors are not employees. They receive base fees for their service and further fees for additional Board duties, including but not limited to chairmanship, membership of a committee, or acting as the Senior Independent Director and/or Deputy Chairman.

Non-executive Directors also receive a travel allowance of £4,000 towards the additional time commitment required for travel.

Any other taxable or other expenses incurred in performing their role are reimbursed, as well as any related tax cost on such reimbursement.

All non-executive Directors are expected to satisfy a shareholding guideline of 15,000 shares within five years of their appointment.

There have been no changes to the non-executive Directors' fees from the remuneration policy approved at the AGM in 2019, with the exception of a revised fee for the Senior Independent Director. This change was approved by the Committee following Sir Jonathan Symonds' retirement from the Board and as Deputy Group Chairman and Senior Independent Director in February

2020, when David Nish was appointed as Senior Independent Director.

In addition, and in light of the increasingly significant role of technology in the Group's strategy, operations and growth prospects, the Board approved the establishment of a Technology Governance Working Group for a period of 12 months. The working group has been tasked with developing recommendations to strengthen the Board's oversight of technology strategy, governance and emerging risks.

The working group will be jointly chaired by Eileen Murray and Steven Guggenheimer, given their expertise and experience in this area. Jackson Tai, the Group Risk Committee Chair, will be a member, with other non-executive Directors members from our US, UK, European and Asian principal subsidiaries.

The time commitment expected of the co-Chairs will be up to 30 days, reflective of the complexity and profile of the subject matter. As a result, the Group Remuneration Committee have determined a fee of £60,000. Members will not receive fees.

Accordingly, the following table sets out the fees for 2021.

Position	2021 fees £
Non-executive Group Chairman <sup>1</sup>	1,500,000
Non-executive Director (base fee)	127,000
Senior Independent Director <sup>2</sup>	200,000
Group Risk Committee	Chair 150,000 Member 40,000
Group Audit Committee and Group Remuneration Committee	Chair 75,000 Member 40,000
Nomination & Corporate Governance Committee	Chair — Member 33,000
Technology Governance Working Group	Co-Chair 60,000

<sup>1</sup> The Group Chairman does not receive a base fee or any other fee in respect of chairing of the Nomination & Corporate Governance Committee.

<sup>2</sup> For the period to 18 February 2020, a fee of £375,000 was paid in respect of the combined role of Deputy Group Chairman and Senior Independent Director.

## Service contracts

### Executive Directors

The length of service and notice periods of executive Directors are set at the discretion of the Committee, taking into account market practice, governance considerations, and the skills and experience of the particular candidate at that time.

	Contract date (rolling)	Notice period (Director and HSBC)
Noel Quinn	18 March 2020	12 months
Ewen Stevenson	1 December 2018	12 months

Service agreements for each executive Director are available for inspection at HSBC Holdings' registered office. Consistent with the best interests of the Group, the Committee will seek to minimise termination payments. Directors may be eligible for a payment in relation to statutory rights. The Directors' biographies

are set out on pages 240 to 245, and include those directorships provided for under the Capital Requirements Regulation II.

### Non-executive Directors

Non-executive Directors are appointed for fixed terms not exceeding three years, which may be renewed subject to their re-election by shareholders at AGMs. Non-executive Directors do not have service contracts, but are bound by letters of appointment issued for and on behalf of HSBC Holdings, which are available for inspection at HSBC Holdings' registered office. There are no obligations in the non-executive Directors' letters of appointment that could give rise to remuneration payments or payments for loss of office.

Non-executive Directors' current terms of appointment will expire as follows:

2021 AGM	2022 AGM	2023 AGM
Mark Tucker	Irene Lee	David Nish
Heidi Miller	José Antonio Meade Kuribreña	Jackson Tai
Laura Cha	Pauline van der Meer Mohr	
James Forese <sup>1</sup>	Henri de Castries	
Steven Guggenheimer <sup>1</sup>		
Eileen Murray <sup>1</sup>		

<sup>1</sup> James Forese, Steven Guggenheimer and Eileen Murray were appointed following the 2020 AGM and therefore their initial three-year appointment terms are subject to approval of their election by shareholders at the 2021 AGM. Their initial three-year term of appointment will end at the conclusion of the 2024 AGM, subject to shareholders' approval at the relevant AGMs.

## Annual report on remuneration

This section sets out how our approved Directors' remuneration policy was implemented during 2020.

### Single figure of remuneration

(Audited)

The following table shows the single figure of total remuneration of each executive Director for 2020, together with comparative figures.

#### Single figure of remuneration

(€000)	Noel Quinn <sup>1</sup>		Ewen Stevenson	
	2020	2019	2020	2019
Base salary <sup>2</sup>	1,266	503	738	719
Fixed pay allowance	1,700	695	950	950
Cash in lieu of pension	127	50	74	107
Taxable benefits <sup>3</sup>	186	41	12	16
Non-taxable benefits <sup>3</sup>	59	23	32	28
<b>Total fixed</b>	<b>3,338</b>	1,312	<b>1,806</b>	1,820
Annual incentive <sup>4</sup>	799	665	450	1,082
Notional returns <sup>5</sup>	17	—	—	—
Replacement award <sup>6</sup>	—	—	1,431	1,974
<b>Total variable</b>	<b>816</b>	665	<b>1,881</b>	3,056
<b>Total fixed and variable</b>	<b>4,154</b>	1,977	<b>3,687</b>	4,876

- 1 Noel Quinn succeeded John Flint as interim Group Chief Executive with effect from 5 August 2019 and was appointed permanently into the role on 17 March 2020. The remuneration included in the single figure table above for 2019 is in respect of his services provided as an executive Director for that year.
- 2 As outlined on page 272, the executive Directors each donated a quarter of their base salary for six months in 2020. The base salary shown in the single figure of remuneration is the gross salary before charitable donations.
- 3 Taxable benefits include the provision of medical insurance, accommodation, car and tax return assistance (including any associated tax due, where applicable). Non-taxable benefits include the provision of life assurance and other insurance cover.
- 4 Under the policy approved by shareholders, executive Directors can receive 50% of their annual incentive award in cash and the remaining 50% in immediately vested shares subject to a one-year retention period. As the executive Directors each decided not to take an annual cash bonus, the 2020 annual incentive is the amount after this waiver and will be delivered in immediately vested shares subject to a one-year retention period. The total annual incentives waived by the Group Chief Executive and Group Chief Financial Officer were £799,000 and £450,000, respectively.
- 5 'Notional returns' refers to the notional return on deferred cash for awards made in prior years. The deferred cash portion of the annual incentive granted in prior years includes a right to receive notional returns for the period between the grant date and vesting date, which is determined by reference to a rate of return specified at the time of grant. A payment of notional return is made annually and the amount is disclosed on a paid basis in the year in which the payment is made.
- 6 As set out in the 2018 Directors' remuneration report, in 2019 Ewen Stevenson was granted replacement awards to replace unvested awards, which were forfeited as a result of him joining HSBC. The awards, in general, match the performance, vesting and retention periods attached to the awards forfeited, and will be subject to any performance adjustments that would otherwise have been applied. The values included in the table for 2019 relate to Ewen Stevenson's 2015 and 2016 LTI awards granted by The Royal Bank of Scotland Group plc ('RBS') for performance years 2014 and 2015, respectively, and replaced with HSBC shares when Ewen Stevenson joined HSBC. These awards are not subject to further performance conditions and commenced vesting in March 2019. The total value is an aggregate of £1,121,308 for the 2015 LTI and £852,652 for the 2016 LTI. The 2016 LTI award value has been determined by applying the performance assessment outcome of 27.5% as disclosed in RBS's Annual Report and Accounts 2018 (page 70) to the maximum number of shares subject to performance conditions. Values in the table for 2020 relate to his 2017 LTI award granted by RBS for performance year 2016, which was determined by applying the performance assessment outcome of 56.25% as disclosed in RBS's Annual Report and Accounts 2019 (page 91) to the maximum number of shares subject to performance conditions. This resulted in a payout equivalent to 78.09% of the RBS award shares that were forfeited and replaced with HSBC shares. A total of 313,608 shares were granted in respect of his 2017 LTI replacement award at a share price of £6.643. The HSBC share price was £5.845 when the awards ceased to be subject to performance conditions, with no value attributable to share price appreciation.

### Benefits

The values of the significant benefits in the single figure table are set out in the following table<sup>1</sup>.

(€000)	Noel Quinn	
	2020	2019
Insurance benefit (non-taxable)	51	—
Car and driver (UK and Hong Kong)	139	—

- 1 The value of benefits provided to Noel Quinn in 2019 were not deemed significant. The insurance and car benefits for Ewen Stevenson are not included in the above table as they were not deemed significant.

## Determining executive Directors' performance

(Audited)

Awards made to executive Directors reflected the Committee's assessment of performance against scorecard objectives which were developed with consideration for the Group's strategic priorities and risk appetite. The targets for financial measures were set at the start of the financial year. They were not revised for the significant economic impact of the Covid-19 outbreak due to the Committee's desire that reward for our executive Directors should reflect the experience of our shareholders in the year. For non-financial objectives, the performance assessment involved considering targets set in line with our disclosed commitments, such as carbon emissions reduction, diversity, survey results for employee experience and customer satisfaction measures, as detailed in the non-financial performance assessment table. Performance achieved against each measure was applied to the weighting of each objective to determine the outcome percentage. As part of this assessment, the Committee consulted the Group Risk Committee and took into consideration its feedback in determining outcomes for the executive Directors' risk and compliance measures. It also considered whether any discretion should be exercised with respect to the risk and compliance underpin.

As set out in the scorecard assessment table below, the target for profit before tax was not met. However, good progress was made against the targets set for RWA optimisation and cost-savings measures, and strong progress was made on the non-financial metrics, as our commitment to delivering responsibly for our stakeholders remained unchanged throughout the pandemic.

Overall, this level of performance resulted in a payout of 64.50% of the maximum for the Group Chief Executive and 63.75% for the Group Chief Financial Officer. The Committee reviewed these outcomes in the context of a number of internal and external

considerations to determine whether it should exercise its discretion to reduce the outcome, including:

- overall share price performance in the year, which was significantly impacted by both the Covid-19 outbreak and the impact of the regulator's request to suspend dividend payments;
- the impact of the bonus pool reduction on the total compensation for our wider workforce;
- profit before tax and RoTE performance; and
- the positive actions taken by the Board to support our customers, colleagues and communities in these difficult and uncertain times.

Taking the above into account, the Committee determined that the 2020 formulaic scorecard outcome appropriately rewards the executive Directors for their performance within the context of overall stakeholder experience. With the voluntary waiver of cash bonuses by the executive Directors, the effective payout was reduced to 32.25% of the maximum for the Group Chief Executive (2019: 66.40%) and 31.88% for the Group Chief Financial Officer (2019: 77.50%).

In order for any annual incentive award to be made, each executive Director must achieve a minimum behaviour rating, which is assessed by reference to the HSBC Values. For 2020, both executive Directors met this requirement.

The maximum 2020 annual incentive opportunity for Noel Quinn was set at 195% of salary and for Ewen Stevenson at 191% of salary.

### Annual assessment

				Group Chief Executive			Group Chief Financial Officer		
	Minimum (25% payout)	Maximum (100% payout)	Performance	Weighting (%)	Assessment (%)	Outcome (%)	Weighting (%)	Assessment (%)	Outcome (%)
Grow profit before tax <sup>1</sup> (\$bn)	19.91	23.38	14.77	30.0	—	—	20.0	—	—
RWA optimisation <sup>2</sup> (\$bn)	35.00	44.90	51.50	20.0	100.0	20.00	20.0	100.0	20.00
Cost savings (\$bn)	1.00	1.60	1.04	—	—	—	10.0	30.0	3.00
Customer satisfaction	See following section for non-financial performance commentary			10.0	80.0	8.00	10.0	80.0	8.00
Employee experience				10.0	95.0	9.50	10.0	95.0	9.50
Environment				10.0	85.0	8.50	10.0	85.0	8.50
Risk and compliance				10.0	85.0	8.50	10.0	85.0	8.50
Personal objectives				10.0	100.0	10.00	10.0	62.5	6.25
<b>Total</b>				<b>100.0</b>		<b>64.50</b>	<b>100.0</b>		<b>63.75</b>
Maximum annual incentive opportunity (£000)						<b>£2,478</b>			<b>£1,412</b>
Annual incentive pre-cash waiver (£000)						<b>£1,598</b>			<b>£900</b>
<b>Annual incentive post-cash waiver (£000)</b>						<b>£799</b>			<b>£450</b>

1 Profit before tax, as defined for Group annual bonus pool calculation. This definition excludes business disposal gains and losses, debt valuation and goodwill adjustments and variable pay expense. However, it takes into account fines, penalties and costs of customer redress, including provisions, which are excluded from the adjusted profit before tax. Other significant items are included or excluded in line with the principles underpinning the definition. The adjusted profit before tax as per adjusted results is found on page 2.

2 As set out in our February 2020 business update, our objective is to reduce RWAs in low-return franchises (in particular the US and the non-ring-fenced bank in Europe and the UK) and redeploy capital in areas of faster growth and higher returns. Our target is to achieve a \$100bn reduction by 2022, with a \$35bn RWA reduction target for 2020. We achieved a reduction of \$51.5bn during 2020, which included a reduction of \$37.4bn in GBM, mainly in our non-ring-fenced bank and in the US, and \$12.9bn in CMB, primarily in our ring-fenced bank.

## Non-financial performance

### Shared objectives for the Group Chief Executive and Group Chief Financial Officer

Objectives	Performance
<p><b>Customer satisfaction</b> <i>Re-engineer the business with digital technology to improve customer service</i></p>	<ul style="list-style-type: none"> <li>In our Wealth and Personal Banking business, our retail customer satisfaction scores in six of seven scale markets (excluding SABB) were ranked in the top three or improved at least two ranks against the benchmark, and three markets improved their digital satisfaction scores. Our private banking business did not meet either of its improvement targets.</li> <li>In our Commercial Banking business, four of seven scale markets (excluding SABB) improved their customer satisfaction scores and six improved their digital satisfaction scores.</li> <li>Our Global Banking and Markets business met the target of improving on its 2019 net promoter score of 38, with a global net promoter score of 48 (compared with a global competitor score of 40). The global digital satisfaction score of 64% also exceeded the global competitor digital satisfaction score of 36%.</li> <li>In Hong Kong, we launched a fully remote, digital account opening solution for business customers, while in the UK, we launched HSBC Kinetic, our new app-only digital banking offering for small and medium-sized business customers. In China, we launched Pinnacle, our new digital platform for wealth planning and insurance services.</li> <li>During the Covid-19 outbreak, we enhanced our digital capabilities to serve more customers remotely, with faster access and improved security. We also engaged with regulators to help customers gain better access to a broad range of banking products and services from their homes, including through remote consultations and sales.</li> <li>We maintained a high level of business continuity and customer support with 85% of colleagues equipped to work from home, all of our customer contact centres fully operational, and between 70% and 90% of our branches open for business.</li> <li>We worked with governments to support national schemes, granting over 720,000 payment holidays to our personal customers and 237,000 loans to our wholesale customers. We provided more than \$26bn in customer relief to our personal customers during the initial stages of the pandemic and more than \$52bn in lending to wholesale customers, many of whom still require our support.</li> <li>We helped our clients raise over \$1.89tn in capital markets financing, and we retained a top-three position in green, social and sustainable finance bonds, according to Dealogic's rankings. Our Global Banking and Markets business helped arrange more than \$125bn of financing for our clients through social and Covid-19 relief bonds.</li> </ul>
<p><b>Employee experience</b> <i>Improve engagement, diversity and succession</i></p>	<p><b>Employee engagement</b></p> <ul style="list-style-type: none"> <li>Our Employee Engagement Index, which measures employee survey sentiment on pride, advocacy, intent to stay, motivation and feeling of accomplishment questions, increased by five percentage points to 72%, meeting our target to improve the metric.</li> <li>During the Covid-19 outbreak, extra steps were undertaken to maintain a healthy culture, including: a regular dialogue with our colleagues through regular leadership calls and communications; listening closely to their needs; and providing the support and flexibility to manage their lives during the pandemic. A culture of 'looking out for each other' was encouraged and employee networks held regular support calls for employees, specifically those experiencing mental health challenges and those with caring responsibilities.</li> <li>We ran a mid-year employee survey to determine how the Covid-19 outbreak was impacting our colleagues and how we could support them through this period. More than 50% of our total employee population responded, of which more than 89% said they were getting the information they needed from the organisation, 86% reported that they were getting the support they needed from their line manager, and 86% of the respondents reported they felt confident in leadership. In addition, 75% of employees that participated in our 2020 Snapshot survey said they believed HSBC values their well-being.</li> </ul> <p><b>Diversity and inclusion</b></p> <ul style="list-style-type: none"> <li>We met our aspirational target of achieving at least 30% women holding senior leadership positions by 2020.</li> <li>Several components of the global diversity and inclusion strategy were reprioritised throughout 2020 in direct response to the Black Lives Matter movement and the Covid-19 outbreak. Good progress was made, with key achievements including the design and launch of the global ethnicity inclusion programme, progression of the global disability confidence programme and the appointment of new executive sponsors for the 'Embrace' and 'Balance' employee resource groups.</li> <li>We delivered phase one of the global diversity data project, which collected and reported employee ethnicity data in 21 countries and territories through a self-identification campaign.</li> </ul> <p><b>Group Executive Committee succession planning</b></p> <ul style="list-style-type: none"> <li>Succession plans have been updated for all Group Executive Committee roles and approved by the Group Nomination &amp; Corporate Governance Committee.</li> <li>The Group also identified a number of enterprise critical roles across the organisation and succession plans have also been updated for these roles with approval from the Group Executive Committee.</li> <li>The majority of 'ready now' and 'develop in role' successors on these plans have undergone leadership assessments with our third-party specialist provider, with all development plans documented. A global executive coaching panel is utilised and executive development solutions have been designed to be implemented in 2021.</li> </ul>
<p><b>Environment</b> <i>Sustainable operations and sustainable finance</i></p>	<ul style="list-style-type: none"> <li>We reduced our carbon emission tonnes to 1.76 per full-time equivalent employee ('FTE'), beating the target of 2.0 tonnes per FTE we had set for 2020. It was recognised that reduced travel and increased working from home due to the Covid-19 outbreak impacted this outcome, and as a result, the performance assessment for this metric was revised down.</li> <li>We exceeded our sustainable finance and investment target of \$24bn by facilitating, financing and investing in the development of clean energy, lower-carbon technologies and projects that contribute to the delivery of the Paris Agreement and the UN Sustainable Development Goals.</li> <li>We were recognised as 'The World's Best Bank for Sustainable Finance' by <i>EuroMoney</i> in its Awards for Excellence 2020.</li> <li>Awareness of climate change impacts across the organisation continued to increase, with 93% of relationship managers completing their required sustainability training modules.</li> </ul>
<p><b>Risk and compliance</b> <i>Achieve effective management of non-financial risk Group-wide and fulfilment of regulatory obligations.</i> <i>Achieve sustained delivery against the Global Conduct framework and effective financial crime risk management.</i></p>	<ul style="list-style-type: none"> <li>In spite of the additional stress due to the operational challenges of the Covid-19 outbreak, enabled by the non-financial risk optimisation programme outcomes, the organisation maintained fair customer outcomes and a stable non-financial risk profile while implementing new products and adapting to significantly different ways of working.</li> <li>In 2020, we completed our financial crime risk operational effectiveness exercise programme, with all countries having passed the Global Standards exit criteria and assurance. While there was year-on-year improvement in performance against a number of specific financial crime risk metrics, it was recognised that some further work is still required. The executive Directors demonstrated strong commitment to the conduct framework, maintaining focus on fair outcomes for our customers and market integrity. In 2020, this included initiatives to minimise the impact of the Covid-19 crisis and protect the business with rapid introduction of initiatives and mitigation against unacceptable levels of conduct risk.</li> </ul>

## Personal measures for the Group Chief Executive and Group Chief Financial Officer

Objectives	Performance
<b>Group Chief Executive</b> <i>Simplify the Group operating model</i>	<ul style="list-style-type: none"> <li>As part of the Group transformation programme, we commenced work on 'organisation simplification and design' by defining roles with clear accountabilities and decision rights, simplifying and minimising matrix reporting and realising transformation objectives through the redesign of certain structures across businesses and functions.</li> <li>The programme successfully delivered all key milestones in 2020, including: the establishment of design principles to shape the future organisation model and structures; the creation of the Group Organisational Design Authority to drive consistent design thinking; the simplification of the Group Executive Committee and the introduction of a clear operating rhythm to increase discipline and focus on strategy and performance delivery; the redesign of the majority of top leadership structures; the definition of a consistent role taxonomy across business and functions; and the identification of reductions in FTEs and cost, principally at senior levels.</li> </ul>
<b>Group Chief Financial Officer</b> <ul style="list-style-type: none"> <li>Deploy Cloud technologies in Global Finance function</li> <li>Reduce Finance function costs and number of full-time equivalents</li> </ul>	<ul style="list-style-type: none"> <li>The Finance on the Cloud programme will transform the way the Global Finance function operates by rationalising operational processes, automation of data production and providing faster delivery of comprehensive data to our internal and external stakeholders. The programme has progressed into the execution phase in 2020, with the programme design, scope and implementation approach approved.</li> <li>The first phase of implementation, which relates to the risk-weighted assets reporting process for our UK entities, was successfully implemented in November 2020. Execution plans are in place for the further extension of Cloud technologies within the UK pilot in 2021, followed by a global deployment.</li> <li>The target of reducing Finance function costs to \$0.8bn was met, but the target number of full-time equivalent staff in the function was not achieved.</li> </ul>

## 2017 long-term incentive performance

The 2017 LTI award was granted to Marc Moses (former Group Chief Risk Officer) and Iain Mackay (former Group Finance Director)<sup>1</sup>.

### Assessment of the LTI award in respect of 2017 (granted in 2018)

Measures (with weighting)	Minimum (25% payout)	Target (50% payout)	Maximum (100% payout)	Actual	Assessment	Outcome
<b>Average return on equity (with CET1 underpin)<sup>2</sup> (20%)</b>	9.0%	10.0%	11.0%	7.3%	0.0%	0.00%
<b>Cost-efficiency ratio (20%)</b>	60.0%	58.0%	55.5%	62.4%	0.0%	0.00%
<b>Relative total shareholder return<sup>3</sup> (20%)</b>	At median of peer group	Straight-line vesting between minimum and maximum	At upper quartile of peer group	Rank 11th	0.0%	0.00%
<b>Risk and compliance<sup>4</sup> (25%)</b> <ul style="list-style-type: none"> <li>Achieve and sustain compliance with Global Financial Crime Compliance policies and procedures.</li> <li>Achieve a sustainable adoption of Group operation risk management framework, along with its policies and practices.</li> <li>Achieve and sustain delivery of global conduct outcomes and compliance with conduct of business regulatory obligations.</li> </ul>	Performance assessed by the Committee based on a number of qualitative and quantitative inputs such as Group Financial Crime Risk assessment against Financial Crime Compliance objectives, outcome of assurance and audit reviews, and achievement of long-term Group objectives and priorities during the performance period, with input and approval from the Group Risk Committee.			65.0%	65.0%	16.25%
<b>Strategy (15%)</b>						
Sustainable finance (\$bn) <sup>5</sup>	30.0	34.0	37.0	93.0	100.0%	5.00%
Employee confidence <sup>6</sup>	65.0%	67.0%	70.0%	62.0%	0.0%	0.00%
Customer (based on customer recommendation in top five markets by revenue)	Improvement in recommendation in three of top five markets for WPB, CMB and GBM.	Improvement in recommendation in four of top five markets for WPB, CMB and GBM.	Improvement in recommendation in all of top five markets for WPB, CMB and GBM.	Improvement in three of top five markets	25.0%	1.25%
<b>Total<sup>7</sup></b>						<b>22.50%</b>

<sup>1</sup> Based on the scorecard outcome, 29,655 shares will vest with Iain Mackay and 86,491 shares will vest with Marc Moses (determined by prorating their awards for time in employment during the performance period of 1 January 2018 to 31 December 2020). The awards will vest in five equal annual instalments commencing in March 2021. Using the average daily closing share prices over the three months to 31 December 2020 of £3.604 the value of awards to vest with Iain Mackay and Marc Moses is £106,877 and £311,714, respectively.

<sup>2</sup> Significant items are excluded from the profit attributable to ordinary shareholders of the company for the purpose of computing adjusted return on equity.

<sup>3</sup> The peer group for the 2017 award is: Bank of America, Barclays, BNP Paribas, Citigroup, Credit Suisse Group, DBS Group Holdings, Deutsche Bank, JPMorgan Chase & Co., Lloyds Banking Group, Standard Chartered and UBS Group.

<sup>4</sup> The performance outcome was reviewed and approved by the Group Risk Committee taking into account evidence of progress made during the three-year performance period. Specifically, it noted a steady improvement in financial crime risk related audit outcomes, a significant reduction of overdue and re-opened high and medium risk assurance issues and stabilisation of the global residual risk for anti-money laundering, sanctions, and anti-bribery and corruption. The non-financial risk optimisation programme made significant progress during 2020 to demonstrate operational risk management maturity in areas of focus. There was also a steady improvement in conduct ratings with significant improvement seen in Global Banking and Markets since 2018. The Group Risk Committee also noted the need for ongoing enhancements in certain areas and the need for further improvement in approach to conduct management.

<sup>5</sup> Assessed based on cumulative financing and investment made to develop clean energy, lower-carbon technologies and projects that contribute to the delivery of the Paris Agreement and the UN Sustainable Development Goals.

<sup>6</sup> Assessed based on results of the latest employee Snapshot survey question, 'I am seeing the positive impact of our strategy'.

<sup>7</sup> Taking into consideration the overall performance of the Group using a number of internal and external measures, including profit before tax, RoTE, share price and total shareholder returns, the Committee considered that the scorecard outcomes reflected the performance achieved.

## Long-term incentive awards

(Audited)

### Long-term incentive in respect of 2020

After taking into account performance for 2020, the Committee decided to grant Noel Quinn and Ewen Stevenson LTI awards of £3,718,000 and £2,118,000, respectively. These awards will be subject to 'windfall gain' adjustments, as set out below. As the awards are not entitled to dividend equivalents in accordance with regulatory requirements, the number of shares to be awarded will be adjusted to reflect the expected dividend yield of the shares over the vesting period.

The 2020 LTI awards will have a three-year performance period starting 1 January 2021. During this period, performance will be assessed based on the 2020 LTI scorecard comprising four equally-weighted measures: two financial measures to incentivise value creation for our shareholders; a measure linked to our climate ambitions; and a measure for relative total shareholder return ('TSR').

RoTE was retained as a metric as it remains a key measure of our financial performance and how we generate returns that deliver value for our shareholders. Given the uncertainty from the economic impact of the Covid-19 outbreak, the Committee determined it was most appropriate to assess RoTE at the end of the performance period. This element of the award will continue to be subject to a CET1 underpin.

Capital reallocation to Asia was added as a new metric as this is one of the key levers of our strategy and business transformation plan. This measure will be assessed based on the share of Group tangible equity allocated to Asia at the end of the performance period and is also subject to the CET1 underpin.

The environment and sustainability scorecard measure was added to align to our new climate ambition. Announced in October 2020, we set out how we aim to bring carbon emissions in our own

operations to net zero by 2030 and support our customers in the transition to a more sustainable future with financing, facilitation and investments of \$750bn to \$1tn over the same time period. Scorecard targets are linked to this climate ambition and performance will be assessed based on the reduction in our carbon footprint and the financing we provide to our clients in their net zero transition.

Relative TSR was retained as a metric in the scorecard as it rewards executive Directors based on comparison of the total shareholder return performance of the Group and a relevant peer group. No changes were made to the peer group used for this purpose. Given the planned strategic shifts in our geographical and business mix, notably future growth investment in Asia and wealth business, we will review our peer group for any relative TSR measure to be used for the 2021 LTI scorecard. The updated peer group will be set out in the *Annual Report and Accounts 2021*.

The LTI continues to be subject to a risk and compliance modifier, which gives the Committee the discretion to adjust down the overall scorecard outcome to ensure that the Group operates soundly when achieving its financial targets. For this purpose, the Committee will receive information including any risk metrics outside of tolerance for a significant period of time and any risk management failures that have resulted in significant customer detriment, reputational damage and/or regulatory censure.

To the extent performance conditions are satisfied at the end of the three-year performance period, the awards will vest in five equal annual instalments commencing from around the third anniversary of the grant date. On vesting, shares equivalent to the net number of shares that have vested (after those sold to cover any income tax and social security payable) will be held for a retention period of up to one year, or such period as required by regulators.

### Performance conditions for LTI awards in respect of 2020

Measures	Minimum (25% payout)	Target (50% payout)	Maximum (100% payout)	Weighting %
<b>RoTE (with CET1 underpin)<sup>1</sup></b>	8.0%	9.0%	10.0%	25.0
<b>Capital reallocation to Asia (with CET1 underpin)<sup>2</sup></b>	45.0%	47.0%	50.0%	25.0
<b>Environment and sustainability<sup>3</sup></b>	<b>Carbon reduction</b>	42.0%	48.0%	25.0
	<b>Sustainable finance and investment \$bn</b>	200.0	240.0	
<b>Relative TSR<sup>4</sup></b>	At median of the peer group	Straight-line vesting between minimum and maximum	At upper quartile of peer group	25.0

1 To be assessed based on RoTE at the end of the performance period. The measure will also be subject to a CET1 underpin. If the CET1 ratio at the end of the performance period is below the CET1 risk tolerance level set in the risk appetite statement, then the assessment for this measure will be reduced to nil.

2 To be assessed based on share of Group tangible equity (on a constant currency basis and excluding associates) allocated to Asia by 31 December 2023. This metric will be measured on an organic basis and will exclude changes in Group tangible equity allocation resulting from acquisitions and disposals (and also part-acquisitions or part-disposals) of businesses and is subject to the CET1 underpin outlined above.

3 Carbon reduction will be measured based on percentage reduction in total energy and travel emissions achieved by 31 December 2023 using 2019 as the baseline. A sustainable finance and investment metric will assess cumulative financing provided over the period commencing on 1 January 2020 and ending on 31 December 2023.

4 The peer group for the 2020 award is: Bank of America, Barclays, BNP Paribas, Citigroup, Credit Suisse Group, DBS Group Holdings, Deutsche Bank, J.P. Morgan Chase & Co., Lloyds Banking Group, Morgan Stanley, Standard Chartered and UBS Group.

5 Awards will vest on a straight-line basis for performance between the minimum, target and maximum levels of performance set in this table.

### 2020 LTI grant size

The Committee is conscious of the external commentary on 'windfall gains' from LTI awards given the impact of the Covid-19 outbreak. The Committee is also aware that a number of investors have expressed their preference that, where executives may benefit from 'windfall gains', the Committee is proactive in considering award levels at the time of grant. Based on the above and discussions with investors and proxy voting agencies, the Committee agreed that the 2020 LTI awards should be subject to a 'windfall gain' adjustment at grant if the share price falls significantly relative to the grant price of the 2019 LTI. This is to ensure reward for our executive Directors aligns with the experience of our shareholders and is reflective of management

performance over the performance period. While the share price to be used for the 2020 LTI award is not known at this stage, the Committee agreed that, in line with investor expectations, if the 2020 LTI grant share price experiences a greater than 30% decline since the previous grant, this would be considered a material fall in share price (based on review of historical share price volatility and the impact of significant external macroeconomic events). In such an event, an adjustment percentage equal to half the share price percentage decline will be applied to the awards to mitigate the potential for 'windfall gains'. This approach will apply to the 2020 LTI award to be granted in 2021.

## 2018 long-term incentive award

The LTI granted in respect of 2018 included an ESG measure based on our objective disclosed in the Strategy Update in June 2018 to achieve an 'Outperformer' rating from ratings provider Sustainalytics. Our 2018 Directors' remuneration report noted that in the event Sustainalytics changed its rating approach, the Committee retained the discretion to review and modify the assessment approach and targets to ensure the assessment approach achieved its original purpose.

Sustainalytics has since revised its methodology and replaced 'performer' ratings with low, medium and high risk ratings. In 2020, the Committee approved a revised assessment approach and targets that aim for HSBC to 'outperform' a set of peers using Sustainalytics' revised risk-based rating as detailed in the table below. The Committee is comfortable that the proposed targets are no more or less difficult to achieve than the original proposed targets.

### Performance conditions for LTI awards in respect of 2018

Measures	Minimum (25% payout)	Target (50% payout)	Maximum (100% payout)	Weighting %
Average RoTE (with CET1 underpin) <sup>1</sup>	10.0%	11.0%	12.0%	75.0
Employer advocacy <sup>2</sup>	65.0%	70.0%	75.0%	12.5
Environmental, social and governance rank <sup>3</sup>	At median of the peer group	Straight-line vesting between minimum and maximum	At upper quartile of peer group	12.5

1 If the CET1 ratio at the end of performance period is below the CET1 risk tolerance level set in the risk appetite statement, then the assessment for this measure will be reduced to nil.

2 To be assessed based on results of the latest employee Snapshot survey question: 'I would recommend this company as a great place to work'.

3 Peer group (in line with TSR peer group for the 2017 LTI, including three additional peers): Bank of America, Barclays, BNP Paribas, Citigroup, Credit Suisse Group, Deutsche Bank, DBS Group Holdings, J.P. Morgan Chase & Co., Lloyds Banking Group, Standard Chartered, UBS Group, ICBC, Itau and Santander.

## Scheme interests awarded during 2020

(Audited)

The table below sets out the scheme interests awarded to Directors in 2020, as disclosed in the 2019 Directors' remuneration

report. No non-executive Directors received scheme interests during the financial year.

### Scheme awards in 2020

(Audited)

	Type of interest awarded	Basis on which award made	Date of award	Face value awarded <sup>1</sup> £000	Percentage receivable for minimum performance	Number of shares awarded	End of performance period
Ewen Stevenson	LTI deferred shares <sup>2</sup>	% of salary <sup>2</sup>	24 February 2020	2,680	25	476,757	31 December 2022
Noel Quinn	Deferred shares <sup>3</sup>	Annual incentive	24 February 2020	1,134	—	201,702	31 December 2019
	Deferred cash <sup>3</sup>	Annual incentive	24 February 2020	886	—	N/A	31 December 2019

1 The face value of the award has been computed using HSBC's closing share price of £5.622 taken on 21 February 2020. LTI awards are subject to a three-year forward-looking performance period and vest in five equal annual instalments, between the third and seventh anniversary of the award date, subject to performance achieved. On vesting, awards will be subject to a one-year retention period. Awards are subject to malus during the vesting period and clawback for a maximum period of 10 years from the date of the award.

2 In line with regulatory requirements, scheme interests awarded during 2020 were not eligible for dividend equivalents. In accordance with the remuneration policy approved by shareholders at the 2019 AGM, the LTI award was determined at 290% of salary for Ewen Stevenson and the number of shares to be granted was determined by taking into account a share price discounted based on HSBC's expected dividend yield of 5% per annum for the vesting period (i.e. £4.393). Noel Quinn did not receive the 2019 LTI award that was granted on 24 February 2020, as he was in the Group Chief Executive role in an interim capacity during 2019.

3 2019 annual incentive award received by Noel Quinn for his role as Chief Executive Officer of Commercial Banking and interim Group Chief Executive. As noted in the Annual Report and Accounts 2019, 60% of his annual incentive award was deferred and in line with regulatory requirements split between cash and shares. The awards will vest in five equal annual instalments between the third and seventh anniversary of the award date. On vesting, the deferred shares will be subject to a one-year retention period. As the deferred share awards are not eligible for dividend equivalents, the number of shares to be granted was determined by taking into account a share price discounted based on HSBC's expected dividend yield of 5% per annum for the vesting period (i.e. £4.393).

The above table does not include details of shares issued as part of the fixed pay allowance and shares issued as part of the 2020 annual incentive award that vested on grant and were not subject to any further service or performance conditions. Details of the performance measures and targets for the LTI award in respect of 2019 are set out on the following page.

## Performance conditions for LTI awards in respect of 2019

Measures	Minimum (25% payout)	Target (50% payout)	Maximum (100% payout)	Weighting %
RoTE (with CET1 underpin) <sup>1,2</sup>	10.0%	11.0%	12.0%	33.3
Relative TSR <sup>3</sup>	At median of the peer group	Straight-line vesting between minimum and maximum	At upper quartile of peer group	33.3
Customers	Performance will be assessed by the Committee taking into consideration: <ul style="list-style-type: none"> <li>customer satisfaction scores at the start and end of the three-year performance period for our global businesses in home and scale markets as per data provided by an independent third party on HSBC's performance across our products and services; and</li> <li>progress against customer objectives linked to our strategy over the next three years.</li> </ul>			33.3

1 To be assessed based on RoTE in the 2022 financial year. The measure will also be subject to a CET1 underpin. If the CET1 ratio at the end of performance period is below the CET1 risk tolerance level set in the risk appetite statement, then the assessment for this measure will be reduced to nil.

2 Awards will vest on a straight-line basis for performance between the minimum, target and maximum levels of performance set in this table.

3 The peer group for the 2019 award is: Bank of America, Barclays, BNP Paribas, Citigroup, Credit Suisse Group, DBS Group Holdings, Deutsche Bank, J.P. Morgan Chase & Co., Lloyds Banking Group, Morgan Stanley, Standard Chartered and UBS Group.

## Executive Directors' interests in shares

(Audited)

The shareholdings of all persons who were executive Directors in 2020, including the shareholdings of their connected persons, at 31 December 2020 (or the date they stepped down from the Board, if earlier) are set out below. The following table shows the comparison of shareholdings with the company shareholding guidelines. There have been no changes in the shareholdings of the executive Directors from 31 December 2020 to the date of this report.

Individuals are given five years from their appointment date to build up the recommended levels of shareholding. Unvested share-based incentives are not normally taken into consideration in assessing whether the shareholding requirement has been met.

The Committee reviews compliance with the shareholding requirement and has full discretion in determining if any unvested shares should be taken into consideration for assessing compliance with this requirement, taking into account shareholder expectations and guidelines. The Committee also has full discretion in determining any penalties for non-compliance.

With regard to the post-employment shareholding requirement, we believe that our remuneration structure achieves the objective of ensuring there is ongoing alignment of executive Directors' interests with shareholder experience post-cessation of their

employment due to the following features of the policy:

- Shares delivered to executive Directors as part of the FPA have a five-year retention period, which continues to apply following a departure of an executive Director.
- Shares delivered as part of an annual incentive award are subject to a one-year retention period, which continues to apply following a departure of an executive Director.
- When an executive Director ceases employment as a good leaver under our policy, any LTI awards granted will continue to be released over a period of up to eight years, subject to the outcome of performance conditions.

An executive Director who ceases employment as a good leaver after a tenure of five years will have share interests not subject to further performance conditions equivalent in value to more than 400% of salary assuming they receive a target payout of 50% for LTI awards.

HSBC operates an anti-hedging policy under which individuals are not permitted to enter into any personal hedging strategies in relation to HSBC shares subject to a vesting and/or retention period.

## Shares

(Audited)

	Shareholding guidelines (% of salary)	At 31 Dec 2020				
		Shareholding at 31 Dec 2020 <sup>2</sup> (% of salary)	Share interests (number of shares)	Share options <sup>3</sup>	Scheme interests	
					without performance conditions <sup>4</sup>	with performance conditions <sup>5</sup>
<b>Executive Directors</b>						
Noel Quinn <sup>6</sup>	400%	221 %	778,958	–	554,556	–
Ewen Stevenson <sup>6</sup>	300%	265 %	545,731	–	728,790	476,757
Group Managing Directors <sup>6</sup>	250%	n/a	n/a	n/a	n/a	n/a

1 The gross number of shares is disclosed. A portion of these shares will be sold at vesting to cover any income tax and social security that falls due at the time of vesting.

2 The value of the shareholding is calculated using an average of the daily closing share prices in the three months to 31 December 2020 (£3.604).

3 As at 31 December 2020, Noel Quinn and Ewen Stevenson did not hold any options under the HSBC Holdings Savings-Related Share Option Plan (UK).

4 The amount for Ewen Stevenson reflects the award granted in May 2019, replacing the 2015 to 2018 LTIs forfeited by the Royal Bank of Scotland Group plc ('RBS') and is subject to any performance adjustments assessed and disclosed in the relevant Annual Report and Accounts of RBS.

5 LTI awards granted in February 2020 are subject to the performance conditions as set out on page 287.

6 All Group Managing Directors and executive Directors are expected to meet their shareholding guidelines within five years of the date of their appointment (Noel Quinn and Ewen Stevenson were appointed on 5 August 2019 and 1 January 2019 respectively). The shareholding guidelines for Group Managing Directors have been updated from 250,000 shares to 250% of reference salary from 1 January 2019 to align with the approach used for executive Directors.

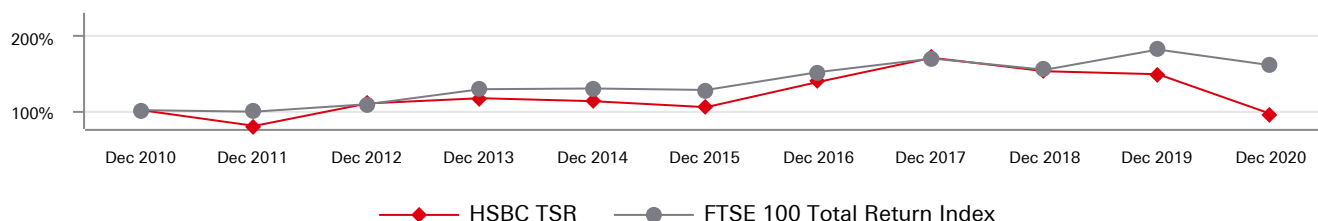


## Summary of shareholder return and Group Chief Executive remuneration

The following graph shows HSBC TSR performance (based on the daily spot Return Index in sterling) against the FTSE 100 Total Return Index for the 10-year period ended 31 December 2020.

The FTSE 100 Total Return Index has been chosen as a recognised broad equity market index of which HSBC Holdings is a member. The single figure remuneration for the Group Chief Executive over the past 10 years, together with the outcomes of the respective annual incentive and LTI awards, are presented in the following table.

### HSBC TSR and FTSE 100 Total Return Index



	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020		
Group Chief Executive	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	Stuart Gulliver	John Flint	John Flint	Noel Quinn	<b>Noel Quinn</b>
Total single figure £000	8,047	7,532	8,033	7,619	7,340	5,675	6,086	2,387	4,582	2,922	1,977	<b>4,154</b>
Annual incentive <sup>1</sup> (% of maximum)	58%	52%	49%	54%	45%	64%	80%	76%	76%	61%	66%	<b>32%</b>
Long-term incentive <sup>1,2,3</sup> (% of maximum)	50%	40%	49%	44%	41%	-%	-%	100%	-%	-%	-%	<b>-%</b>

- <sup>1</sup> The 2012 annual incentive figure for Stuart Gulliver used for this table includes 60% of the annual incentive disclosed in the 2012 Directors' remuneration report, which was deferred for five years and subject to service conditions and satisfactory completion of the five-year deferred prosecution agreement with the US Department of Justice, entered into in December 2012 ('AML DPA') as determined by the Committee. The AML DPA performance condition was met and the award vested in 2018. The value of the award at vesting was included in the 2018 single figure of remuneration and included as long-term incentive for 2018.
- <sup>2</sup> Long-term incentive awards are included in the single figure for the year in which the performance period is deemed to be substantially completed. For Group Performance Share Plan ('GPSP') awards, this is the end of the financial year preceding the date of grant. GPSP awards shown in 2011 to 2015 are therefore related to awards granted in 2012 to 2016.
- <sup>3</sup> The GPSP was replaced by the LTI in 2016 and the value for GPSP is nil for 2016 as no GPSP award was made for 2016. LTI awards have a three-year performance period and the first LTI award was made in February 2017. The value of the LTI awards expected to vest will be included in the total single figure of remuneration of the year in which the performance period ends. Noel Quinn did not receive the 2017 LTI award that had a performance period ended on 31 December 2020.

## Comparison of Directors' and employees' pay

The following table compares the changes in each Director's pay with changes in employee pay between 2019 and 2020.

### Annual percentage change in remuneration

Director/employees	2020		
	Base salary/fees	Benefits	Annual incentive
<b>Executive Directors<sup>1</sup></b>			
Noel Quinn <sup>1</sup>	151.7%	353.7%	20.2%
Ewen Stevenson	2.6%	-25.0%	-58.4%
<b>Non-executive Directors<sup>2</sup></b>			
Kathleen Casey (retired on 24 April 2020)	-65.0%	200.0%	-
Laura Cha	97.0%	-	-
Henri de Castries	4.1%	-75.0%	-
James Forese	-	-	-
Steven Guggenheimer	-	-	-
Irene Lee	20.3%	-100.0%	-
José Antonio Meade Kuribreña	28.7%	100.0%	-
Heidi Miller	1.1%	-100.0%	-
Eileen Murray	-	-	-
David Nish	108.7%	-50.0%	-
Sir Jonathan Symonds (retired on 18 February 2020)	-86.5%	-4.8%	-
Jackson Tai	-10.8%	-78.9%	-
Mark Tucker	-%	-77.5%	-
Pauline van der Meer Mohr	17.7%	-75.0%	-
<b>Employee group<sup>3</sup></b>	<b>2.0%</b>	<b>2.3%</b>	<b>-20.0%</b>

- <sup>1</sup> Noel Quinn succeeded John Flint as interim Group Chief Executive with effect from 5 August 2019 and was appointed permanently into the role on 17 March 2020. The annual percentage change for Noel Quinn is based on remuneration reported in his 2019 single figure of remuneration (for the period 5 August 2019 to 31 December 2019) and his 2020 single figure of remuneration (for the period 1 January 2020 to 31 December 2020). Based on his annualised 2019 compensation as an executive Director, his percentage change in salary, benefits and annual incentive is 2.1%, 85.2% and -50.9%, respectively.
- <sup>2</sup> In some instances, non-executive Directors may have served only part of the year resulting in large year-on-year percentage changes in fees and/or benefits. Page 291 provides the underlying single figure of remuneration for non-executive Directors used to calculate the figures above.
- <sup>3</sup> Employee group consists of individuals employed by HSBC Group Management Services Ltd, the employing entity of the executive Directors, as no individuals are employed directly by HSBC Holdings.

## Pay ratio

The following table shows the ratio between the total pay of the Group Chief Executive and the lower quartile, median and upper quartile pay of our UK employees.

### Total pay ratio

	Method	Lower quartile	Median	Upper quartile
2020	A	139:1	85:1	43:1
2019	A	169:1	105:1	52:1

### Total pay and benefits amounts used to calculate the ratio

(£)	Method	Lower quartile		Median		Upper quartile	
		Total pay and benefits	Total salary	Total pay and benefits	Total salary	Total pay and benefits	Total salary
2020	A	29,833	23,264	48,703	36,972	96,386	75,000
2019	A	28,920	24,235	46,593	41,905	93,365	72,840

Our ratios have been calculated using the option 'A' methodology prescribed under the UK Companies (Miscellaneous Reporting) Regulations 2018. Under this option, the ratios are computed using full-time equivalent pay and benefits of all employees providing services in the UK at 31 December 2020. We believe this approach provides accurate information and representation of the ratios. The ratio has been computed taking into account the pay and benefits of over 40,000 UK employees, other than the individual performing the role of Group Chief Executive. We calculated our lower quartile, median and upper quartile pay and benefits information for our UK employees using:

- full-time equivalent annualised fixed pay, which includes salary and allowances, at 31 December 2020;
- variable pay awards for 2020, including notional returns paid during 2020;
- gains realised from exercising awards from taxable employee share plans; and
- full-time equivalent value of taxable benefits and pension contributions.

For this purpose, full-time equivalent fixed pay and benefits for each employee have been computed by using each employee's fixed pay and benefits at 31 December 2020. Where an employee works part-time, fixed pay and benefits are grossed up, where appropriate, to full-time equivalent. One-off benefits provided on a temporary basis to employees on secondment to the UK have not been included in calculating the ratios above as these are not permanent in nature and in some cases, depending on individual circumstances, may not truly reflect a benefit to the employee.

Total pay and benefits for the Group Chief Executive used for this purpose is the total remuneration for Noel Quinn as reported in the single figure of remuneration table. Total remuneration does not include an LTI as he has not received an LTI award with a performance period that ended during 2020. In a year in which a value of an LTI is included in the single figure table of remuneration, the above ratios could be higher.

Given the different business mix, size of the business, methodologies for computing pay ratios, estimates and assumptions used by other companies to calculate their respective pay ratios, as well as differences in employment and compensation practices between companies, the ratios reported above may not be comparable to those reported by other listed peers on the FTSE 100 and our international peers.

The decrease in median ratio is primarily driven by the lower annual incentive award for the Group Chief Executive, reflecting the lower scorecard outcome and the voluntary waiver of the cash portion of the award. Without this waiver, the median ratio is 102:1.

While total compensation for the Group Chief Executive declined compared with 2019, total pay and benefits for the median

employee for 2020 was 5% higher at £48,703 compared with 2019.

Our UK workforce comprises a diverse mix of employees across different businesses and levels of seniority, from junior cashiers in our retail branches to senior executives managing our global business units. We aim to deliver market-competitive pay for each role, taking into consideration the skills and experience required for the business. Our approach to pay is designed to attract and motivate the very best people, regardless of gender, ethnicity, age, disability or any other factor unrelated to performance or experience. We actively promote learning and development opportunities for our employees to provide them a framework to develop their career. As an individual progresses in their career we would expect their total compensation opportunity to also increase, reflecting their role and responsibilities.

Pay structure varies across roles in order to deliver an appropriate mix of fixed and variable pay. Junior employees have a greater portion of their pay delivered in a fixed component, which does not vary with performance and allows them to predictably meet their day-to-day needs. Our senior management, including executive Directors, generally have a higher portion of their total compensation opportunity structured as variable pay and linked to the performance of the Group, given their role and ability to influence the strategy and performance of the Group. Executive Directors also have a higher proportion of their variable pay delivered in shares, which vest over a period of seven years with a post-vesting retention period of one year. During this deferral and retention period, the awards are linked to the share price so the value of award realised by them after the vesting and retention period will be aligned to the performance of the Group.

We are satisfied that the median pay ratio is consistent with the pay, reward and progression policies for our UK workforce, taking into account the diverse mix of our UK employees, the compensation structure mix applicable to each role and our objective of delivering market competitive pay for each role subject to Group, business and individual performance.

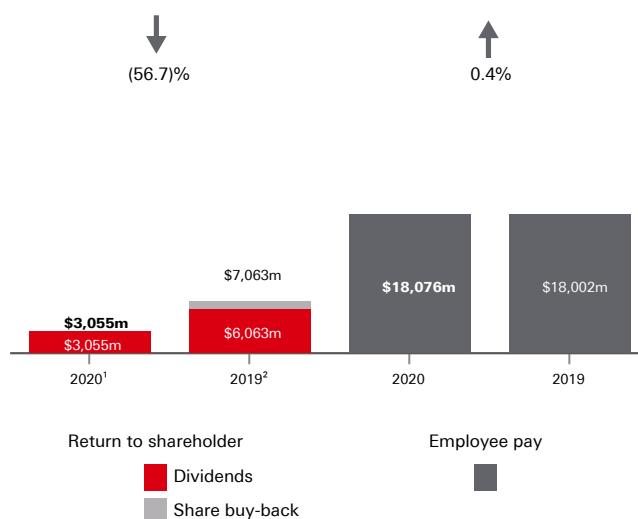
## Relative importance of spend on pay

The following chart shows the change in:

- total staff pay between 2019 and 2020; and
- dividends in respect of 2019 and 2020.

In 2019, we returned a total of \$1bn to ordinary shareholders through share buy-backs.

## Relative importance of spend on pay



- 1 The fourth interim dividend of 2020, of \$0.15 per ordinary share, is an approximation of the amount payable on 29 April 2021.
- 2 The fourth interim dividend of 2019, of \$0.21 per ordinary share, was cancelled in response to a written request from the UK's Prudential Regulation Authority ('PRA'). The 2019 dividends have been re-presented accordingly.

## Non-executive Directors

(Audited)

The following table shows the total fees and benefits of non-executive Directors for 2020, together with comparative figures for 2019.

### Fees and benefits

(Audited) (£000)	Footnotes	Fees <sup>1</sup>		Benefits <sup>2</sup>		Total	
		2020	2019	2020	2019	2020	2019
Kathleen Casey (retired on 24 April 2020)	3,4	78	223	27	9	105	232
Laura Cha	5	587	298	—	—	587	298
Henri de Castries		202	194	1	4	203	198
James Forese	6	160	—	—	—	160	—
Steven Guggenheimer	7	134	—	—	—	134	—
Irene Lee	8	546	454	—	3	546	457
José Antonio Meade Kuribreña		202	157	4	2	206	159
Heidi Miller	9	632	625	7	2	639	627
Eileen Murray	10	120	—	—	—	120	—
David Nish	11	480	230	8	16	488	246
Sir Jonathan Symonds (retired on 18 February 2020)		86	638	20	21	106	659
Jackson Tai	12	355	398	12	57	367	455
Mark Tucker	13	1,500	1,500	52	231	1,552	1,731
Pauline van der Meer Mohr	14	312	265	2	8	314	273
<b>Total (£000)</b>		<b>5,394</b>	<b>4,982</b>	<b>133</b>	<b>353</b>	<b>5,527</b>	<b>5,335</b>
<b>Total (\$000)</b>		<b>6,919</b>	<b>6,390</b>	<b>171</b>	<b>453</b>	<b>7,090</b>	<b>6,843</b>

- The Directors' remuneration policy was approved at the 2019 AGM and the new fees became effective from 13 April 2019. Fees include a travel allowance of £4,000 for non-UK based non-executive Directors and for all non-executive Directors effective from 1 June 2019. Given the travel restrictions in place, the Board was unable to travel to attend meetings in person. Therefore, the travel allowance available to all non-executive Directors was pro-rated to reflect the travel required of the Board during 2020.*
- Benefits include taxable expenses such as accommodation, travel and subsistence relating to attendance at Board and other meetings at HSBC Holdings' registered offices. Amounts disclosed have been grossed up using a tax rate of 45%, where relevant.*
- Appointed as a member of the Group Risk Committee on 17 January 2020.*
- Stepped down as a member of the Financial System Vulnerabilities Committee on 17 January 2020 when the Committee was demised.*
- Includes fees of £423,800 (2019: £104,000) for her role as non-executive Chair and member of the Nomination Committee of The Hongkong and Shanghai Banking Corporation. Following approval of the non-executive Chair fee by the Group Remuneration Committee in 2020, Laura also received a pro-rated additional Chair fee of HK\$201,639 paid in respect of the period from 6 December to 31 December 2019.*
- Appointed to the Board and a member of the Group Audit Committee, Group Remuneration Committee and Nomination & Corporate Governance Committee on 1 May 2020.*
- Appointed to the Board and as a member of the Group Risk Committee and Nomination & Corporate Governance Committee on 1 May 2020.*
- Includes fees of £344,000 (2019: £260,000) in relation to her roles as a Director, Remuneration Committee Chair, Audit Committee member and Risk Committee member of The Hongkong and Shanghai Banking Corporation Limited. Fees in relation to her role as a Director, Risk Committee Chair and Audit Committee member, and from 28 December 2020 as a member of the Nomination Committee, of Hang Seng Bank Limited.*
- Includes fees of £430,000 (2019: £431,000) in relation to her role as Chair of HSBC North America Holdings Inc.*
- Appointed to the Board and as member of the Group Audit Committee, Group Risk Committee and Nomination & Corporate Governance Committee on 1 July 2020.*
- Appointed as Senior Independent Director, Chair of the Group Audit Committee and member of the Group Risk Committee on 18 February 2020.*
- Stepped down as Chair of the Financial System Vulnerabilities Committee on 17 January 2020 when the Committee was demised.*
- The Group Chairman donated 100% of his 2020 fee to charities in the UK and Hong Kong supporting vulnerable people and in the local response to Covid-19.*
- Appointed as a member of the Group Audit Committee on 19 February 2020.*

### Non-executive Directors' interests in shares

(Audited)

The shareholdings of persons who were non-executive Directors in 2020, including the shareholdings of their connected persons, at 31 December 2020, or date of cessation as a Director if earlier, are set out below. Non-executive Directors are expected to meet the

shareholding guidelines within five years of the date of their appointment. All non-executive Directors who had been appointed for five years or more at 31 December 2020 met the guidelines except Irene Lee, who has committed to acquiring the remaining shares as soon as possible, and no later than the conclusion of the 2021 AGM.

### Shares

	Shareholding guidelines (number of shares)	Share interests (number of shares)
Kathleen Casey (retired on 24 April 2020)	15,000	15,125
Laura Cha	15,000	16,200
Henri de Castries	15,000	19,251
James Forese (appointed to the Board on 1 May 2020)	15,000	115,000
Steven Guggenheimer (appointed to the Board on 1 May 2020)	15,000	15,000
Irene Lee	15,000	11,904
José Antonio Meade Kuribreña	15,000	15,000
Heidi Miller	15,000	15,700
Eileen Murray (appointed to the Board on 1 July 2020)	15,000	75,000
David Nish	15,000	50,000
Sir Jonathan Symonds (retired on 18 February 2020)	15,000	43,821
Jackson Tai	15,000	66,515
Mark Tucker	15,000	307,352
Pauline van der Meer Mohr	15,000	15,000

## Voting results from Annual General Meeting

### 2020 Annual General Meeting voting results

	For	Against	Withheld
Remuneration report (votes cast)	96.47 %	3.53 %	—
	8,842,653,970	323,238,790	36,605,397
Remuneration policy (2019) (votes cast)	97.36%	2.64%	—
	9,525,856,097	258,383,075	47,468,297

### 2021 annual incentive scorecards

The 2021 annual incentive scorecard measures for our executive Directors have been set against the backdrop of the continuing impact of the Covid-19 outbreak on the global economy; geopolitical risks, particularly those relating to trade and other tensions; and expectations that global interest rates will remain lower for longer. In this context, the Committee determined the scorecard measures should incentivise adapting our business model to a protracted, low interest-rate environment; reducing our operating costs; and transforming the Group.

Therefore, the 2021 annual incentive scorecard includes financial measures linked to the reduction of the Group's cost base, the reduction of assets in low-return areas and the creation of opportunities in our high-growth areas. The scorecard also includes non-financial measures linked to delivering against our customer and employee objectives.

The Committee will continue to retain discretion to adjust down the formulaic outcomes of scorecards, taking into account factors such as Group profits, wider business performance and

stakeholder experience, to ensure alignment between executive reward and the broader stakeholder experience.

The weightings and performance measures for the 2021 annual incentive award for executive Directors are disclosed below. The performance targets are commercially sensitive and it would be detrimental to the Group's interests to disclose them at the start of the financial year. Subject to commercial sensitivity, we will disclose the targets for a given year in the *Annual Report and Accounts* for that year in the Directors' remuneration report.

Executive Directors will be eligible for an annual incentive award of up to 215% of base salary.

The 2021 annual incentive scorecards for our Group Managing Directors include similar measures as the executive Directors to drive performance in each of our businesses, functions and regions that contribute to the overall success of the Group. Their annual incentive scorecards will also include RoTE and environmental measures, which are aligned with achieving the three-year forward-looking performance targets in the 2020 LTI.

### 2021 annual incentive scorecards measures and weightings

Measures	Group Chief Executive	Group Chief Financial Officer
	%	%
Adjusted costs	20.0	20.0
Revenue growth in Asia	20.0	15.0
RWA reduction in legacy assets/low-return areas	20.0	15.0
Customer satisfaction	15.0	15.0
Employee experience	15.0	15.0
Personal objectives <sup>1</sup>	10.0	20.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>

<sup>1</sup> For the Group Chief Executive, this includes the launch of our refreshed purpose and values, and the delivery of strategy at pace (equally weighted at 5% each). For the Group Chief Financial Officer, this includes Finance Cloud deployment, resolvability assessment framework attestation, climate stress tests, and Group Finance costs and FTE (equally weighted at 5% each).

The 2021 annual incentive scorecard is subject to a risk and compliance modifier, which allows the Committee the discretion to adjust down the overall scorecard outcome to ensure that the Group operates soundly when achieving its financial targets. For this purpose, the Committee will receive information including any risk thresholds outside of tolerance for a significant period of time and any risk management failures that have resulted in significant customer detriment, reputational damage and/or regulatory censure.

### 2021 long-term incentives

Details of the performance measures and targets for LTI awards to be made in 2021, in respect of 2020, are provided on page 286.

The performance measures and targets for awards to be made in respect of 2021, granted in 2022, will be provided in the *Annual Report and Accounts 2021*.

### Total pension entitlements

(Audited)

No employees who served as executive Directors during the year have a right to amounts under any HSBC final salary pension scheme for their services as executive Directors or are entitled to additional benefits in the event of early retirement. There is no retirement age set for Directors, but the normal retirement age for employees is 65.

### Payments to past Directors

(Audited)

Details of the 2017 LTI outcome, in which Marc Moses (former Group Chief Risk Officer) and Iain Mackay (former Group Finance Director) participated, are outlined on page 285. No payments were made to, or in respect of, former Directors in the year in excess of the minimum threshold of £50,000 set for this purpose.

### Payments for loss of office

(Audited)

No payments for loss of office were made to, or in respect of, former or current Directors in the year.

### External appointments

During 2020, executive Directors did not receive any fees from external appointments.

## Remuneration structure for our Group employees

Total compensation, which comprises fixed and variable pay, is the key focus of our remuneration framework, with variable pay differentiated by performance and adherence to the HSBC Values.

We set out below the key features and design characteristics of our remuneration framework, which apply on a Group-wide basis, subject to compliance with local laws:

### Overview of remuneration structure for employees

Remuneration components and objectives	Application
<p><b>Fixed pay</b> Attract and retain employees by paying market competitive pay for the role, skills and experience required for the business.</p>	<ul style="list-style-type: none"> <li>Fixed pay may include salary, fixed pay allowance, cash in lieu of pension and other cash allowances in accordance with local market practices. These pay elements are based on predetermined criteria, are non-discretionary, are transparent and are not reduced based on performance.</li> <li>Fixed pay represents a higher proportion of total compensation for more junior employees.</li> <li>Elements of fixed pay may change to reflect an individual's position, role or grade, cost of living in the country, individual skills, competencies, capabilities and experience.</li> <li>Fixed pay is generally delivered in cash on a monthly basis.</li> </ul>
<p><b>Benefits</b> Provided in accordance with local market practice.</p>	<ul style="list-style-type: none"> <li>Benefits may include, but are not limited to, the provision of a pension, medical insurance, life insurance, health assessment and relocation support.</li> </ul>
<p><b>Annual incentive<sup>1</sup></b> Incentivise and reward performance based on annual financial and non-financial measures consistent with the medium- to long-term strategy, stakeholder interests and adherence to HSBC Values.</p>	<ul style="list-style-type: none"> <li>All employees are eligible to be considered for a discretionary variable pay award. Individual awards are determined against a balanced scorecard for performance in excess of that required to fulfil an employee's job description.</li> <li>Annual incentives represent a higher proportion of total compensation for more senior employees and will be more closely aligned to Group and business performance as seniority increases.</li> <li>Variable pay awards for all Group employees identified as Material Risk Takers ('MRTs') under European Union Regulatory Technical Standard ('RTS') 604/2014 are limited to 200% of fixed pay.<sup>2</sup></li> <li>Awards are generally paid in cash and shares. For MRTs, at least 50% of the awards are in shares and/or where required by regulations, in units linked to asset management funds.</li> <li>A portion of the annual incentive award may be deferred and vest over a period of three to eight years.</li> </ul>
<p><b>Deferral</b> Alignment with the medium- to long-term strategy, stakeholder interests and adherence to the HSBC Values.</p>	<ul style="list-style-type: none"> <li>A Group-wide deferral approach is applicable to all employees. A portion of annual incentive awards above a specified threshold is deferred in shares vesting annually over a three-year period with 33% vesting on the first and second anniversaries of grant and 34% on the third anniversary. Local employees in France are granted deferred awards that vest 66% on the second anniversary and 34% on the third anniversary.</li> <li>For MRTs identified in accordance with the UK's PRA and FCA remuneration rules, awards are generally subject to a minimum 40% deferral (60% for awards of £500,000 or more) over a minimum period of three years<sup>3</sup>. A longer deferral period is applied for certain MRTs as follows: <ul style="list-style-type: none"> <li>five years for individuals identified in a risk-manager MRT role under the PRA and FCA remuneration rules. This reflects the deferral period prescribed by both the PRA and the European Banking Authority for individuals performing key senior roles with the Group; or</li> <li>seven years for individuals in PRA-designated senior management functions, being the deferral period mandated by the PRA as reflecting the typical business cycle period.</li> </ul> </li> <li>Individuals based outside the UK who have not been identified at the Group level as an MRT, but who are identified as MRTs under local regulations, are generally subject to a three-year deferral period. In Germany, a deferral period of up to eight years is applied for members of the local management board and individuals in managerial roles reporting into the management board. In Malta, a five-year deferral period is applied for executive committee members. In Australia, local MRTs are subject to a four-year deferral period in respect of deferred cash awards. Local MRTs are also subject to the minimum deferral rates discussed above, except in China (where a minimum deferral rate of 50% is applied for the Chief Executive Officer), Germany (where a minimum deferral rate of 60% is applied for members of the local management board and individuals in managerial roles reporting into the management board) and Oman (where a minimum deferral rate of 45% is applied).</li> <li>Where an employee is subject to more than one regulation, the requirement that is specific to the sector and/or country in which the individual is working is applied, subject to meeting the minimum requirements applicable under each regulation.</li> <li>All deferred awards are subject to malus provisions, subject to compliance with local laws. Awards granted to MRTs on or after 1 January 2015 are also subject to clawback.</li> <li>HSBC operates an anti-hedging policy for all employees, which prohibits employees from entering into any personal hedging strategies in respect of HSBC securities.</li> </ul>
<p><b>Deferral instruments</b> Alignment with the medium- to long-term strategy, stakeholder interests and adherence to the HSBC Values.</p>	<ul style="list-style-type: none"> <li>Generally, the underlying instrument for all deferred awards is HSBC shares to ensure alignment between the long-term interest of our employees and shareholders.</li> <li>For Group and local MRTs, excluding executive Directors where deferral is typically in the form of shares only, a minimum of 50% of the deferred awards is in HSBC shares and the balance is deferred into cash. In accordance with local regulatory requirements, for local MRTs in Brazil and Oman 100% of the deferred amount is delivered in shares or linked to the value of shares.</li> <li>For some employees in our asset management business, where required by the regulations applicable to asset management entities within the Group, at least 50% of the deferred award is linked to fund units reflective of funds managed by those entities, with the remaining portion of deferred awards being in the form of deferred cash awards.</li> </ul>

Overview of remuneration structure for employees (continued)

Remuneration components and objectives	Application
<p><b>Post-vesting retention period</b> Ensure appropriate alignment with shareholders.</p>	<ul style="list-style-type: none"> <li>Variable pay awards made in HSBC shares or linked to relevant fund units granted to MRTs are generally subject to a one-year retention period post-vesting. Local MRTs (except those in Brazil, France, Oman and Russia) are also generally subject to a one-year retention period post-vesting. For local MRTs in Brazil, France and Russia, a six-month retention period is applied. No retention period is applied for local MRTs in Oman.</li> <li>MRTs who are subject to a five-year deferral period, except senior management or individuals in PRA- and FCA-designated senior management functions, have a six-month retention period applied to their awards.</li> </ul>
<p><b>Buy-out awards</b> Support recruitment of talent.</p>	<ul style="list-style-type: none"> <li>Buy-out awards may be offered if an individual holds any outstanding unvested awards that are forfeited on resignation from the previous employer.</li> <li>The terms of the buy-out awards will not be more generous than the terms attached to the awards forfeited on cessation of employment with the previous employer.</li> </ul>
<p><b>Guaranteed variable remuneration</b> Support recruitment of talent.</p>	<ul style="list-style-type: none"> <li>Guaranteed variable remuneration is awarded in exceptional circumstances for new hires, and is limited to the individual's first year of employment only.</li> <li>The exceptional circumstances where HSBC would offer guaranteed variable remuneration would typically involve a critical new hire and would also depend on factors such as the seniority of the individual, whether the new hire candidate has any competing offers and the timing of the hire during the performance year.</li> </ul>
<p><b>Severance payments</b> Adhere to contractual agreements with involuntary leavers.</p>	<ul style="list-style-type: none"> <li>Where an individual's employment is terminated involuntarily for gross misconduct then, subject to compliance with local laws, the Group's policy is not to make any severance payment in such cases. For such individuals, all outstanding unvested awards are forfeited.</li> <li>For other cases of involuntary termination of employment the determination of any severance will take into consideration the performance of the individual, contractual notice period, applicable local laws and circumstances of the case.</li> <li>Generally, all outstanding unvested awards will normally continue to vest in line with the applicable vesting dates. Where relevant, any performance conditions attached to the awards, and malus and clawback provisions, will remain applicable to those awards.</li> <li>Severance amounts awarded to MRTs are not considered as variable pay for the purpose of application of the deferral and variable pay cap rules under the PRA and FCA remuneration rules where such amounts include: (i) payments of fixed remuneration that would have been payable during the notice and/or consultation period; (ii) statutory severance payments; (iii) payments determined in accordance with any approach applicable in the relevant jurisdictions; and (iv) payments made to settle a potential or actual dispute.</li> </ul>

- Executive Directors are also eligible to be considered for a long-term incentive award. See details on page 278.*
- Shareholders approved the increase in the maximum ratio between the fixed and variable components of total remuneration from 1:1 to 1:2 at the 2014 AGM held on 23 May 2014 (98% in favour). The Group has not used the EBA discount rate for the purpose of computing the ratio between fixed and variable components of 2020 total remuneration.*
- In accordance with the terms of the PRA and FCA remuneration rules, and subject to compliance with local regulations, the deferral requirement for MRTs is not applied to individuals where their total compensation is £500,000 or less and variable pay is not more than 33% of total compensation. For these individuals, the Group standard deferral applies.*

## Link between risk, performance and reward

Our remuneration practices promote sound and effective risk management while supporting our business objectives.

We set out below the key features of our remuneration framework, which help enable us to achieve alignment between risk, performance and reward, subject to compliance with local laws and regulations:

### Alignment between risk and reward

Framework elements	Application
<b>Variable pay pool and individual performance scorecard</b>	<p>The Group variable pay pool is expected to move in line with Group performance. We also use a countercyclical funding methodology, with both a floor and a ceiling, with the payout ratio generally reducing as performance increases to avoid pro-cyclicality. The floor recognises that even in challenging times, remaining competitive is important. The ceiling recognises that at higher levels of performance it is not always necessary to continue to increase the variable pay pool, thereby limiting the risk of inappropriate behaviour to drive financial performance.</p> <p>The main quantitative and qualitative performance and risk metrics used for assessment of performance include:</p> <ul style="list-style-type: none"> <li>• Group and business unit financial performance, including capital requirements;</li> <li>• current and future risks, taking into consideration performance against the risk appetite statement ('RAS'), annual operating plan and global conduct outcomes;</li> <li>• fines, penalties and provisions for customer redress, which are automatically included in the Committee's definition of profit; and</li> <li>• assessment of individual performance with reference to a balanced scorecard of clear and relevant objectives. Objectives included in the performance scorecards of senior management take into account appropriate measures linked to sustainability risks, such as: reduction in carbon footprint; facilitating financing to help clients with their transition to net zero; employee diversity targets; and risk and compliance measures. A mandatory global risk objective is included in the scorecard of all other employees. All employees receive a behaviour rating as well as a performance rating, which ensures performance is assessed not only on what is achieved but also on how it is achieved.</li> </ul>
<b>Remuneration for control function staff</b>	<ul style="list-style-type: none"> <li>• The performance and reward of individuals in control functions, including risk and compliance employees, are assessed according to a balanced scorecard of objectives specific to the functional role they undertake. This is to ensure their remuneration is determined independent of the performance of the business areas they oversee.</li> <li>• The Committee is responsible for approving the remuneration recommendations for the Group Chief Risk Officer and senior management in control functions.</li> <li>• Group policy is for control functions staff to report into their respective function. Remuneration decisions for senior functional roles are led by, and must carry the approval of, the global function head.</li> <li>• Remuneration is carefully benchmarked with the market and internally to ensure it is set at an appropriate level.</li> </ul>
<b>Variable pay adjustments and conduct recognition</b>	<ul style="list-style-type: none"> <li>• Variable pay awards may be adjusted downwards in circumstances including: <ul style="list-style-type: none"> <li>– detrimental conduct, including conduct that brings HSBC into disrepute;</li> <li>– involvement in events resulting in significant operational losses, or events that have caused or have the potential to cause significant harm to HSBC; and</li> <li>– non-compliance with the HSBC Values and other mandatory requirements or policies.</li> </ul> </li> <li>• Rewarding positive conduct may take the form of use of our global recognition programme, At Our Best, or positive adjustments to variable pay awards.</li> </ul>
<b>Malus</b>	<p>Malus can be applied to unvested deferred awards granted in prior years in circumstances including:</p> <ul style="list-style-type: none"> <li>• detrimental conduct, including conduct that brings the business into disrepute;</li> <li>• past performance being materially worse than originally reported;</li> <li>• restatement, correction or amendment of any financial statements; and</li> <li>• improper or inadequate risk management.</li> </ul>
<b>Clawback</b>	<p>Clawback can be applied to vested or paid awards granted to MRTs on or after 1 January 2015 for a period of seven years, extended to 10 years for employees under the PRA's Senior Managers Regime in the event of ongoing internal/regulatory investigation at the end of the seven-year period. Clawback may be applied in circumstances including:</p> <ul style="list-style-type: none"> <li>• participation in, or responsibility for, conduct that results in significant losses;</li> <li>• failing to meet appropriate standards and propriety;</li> <li>• reasonable evidence of misconduct or material error that would justify, or would have justified, summary termination of a contract of employment; and</li> <li>• a material failure of risk management suffered by HSBC or a business unit in the context of Group risk-management standards, policies and procedures.</li> </ul>
<b>Sales incentives</b>	<ul style="list-style-type: none"> <li>• We generally do not operate commission-based sales plans.</li> </ul>
<b>Identification of MRTs</b>	<ul style="list-style-type: none"> <li>• We identify individuals as MRTs based on the qualitative and quantitative criteria set out in the RTS. We also identify MRTs based on additional criteria developed internally. The following key principles underpin HSBC's identification process: <ul style="list-style-type: none"> <li>– MRTs are identified at Group, HSBC Bank (consolidated) and HSBC UK Bank level.</li> <li>– MRTs are also identified at other solo regulated entity level as required by the regulations.</li> <li>– When identifying an MRT, HSBC considers an employee's role within its matrix management structure. The global business and function that an individual works within takes precedence, followed by the geographical location in which they work.</li> </ul> </li> <li>• In addition to applying the qualitative and quantitative criteria specified in the RTS, we also identify additional MRTs based on our own internal criteria, which include compensation thresholds and individuals in certain roles and grades who otherwise would not be identified as MRTs under the criteria prescribed in the RTS.</li> <li>• The list of MRTs, and any exclusions from it, is reviewed by chief risk officers and chief operating officers of the relevant global businesses and functions. The overall results are reviewed by the Group Chief Risk Officer.</li> <li>• The Group Remuneration Committee reviews the methodology, key decisions regarding identification, and the results of the identification exercise, including proposed MRT exclusions.</li> </ul>

## Additional remuneration disclosures

This section provides disclosures required under the Hong Kong Ordinances, Hong Kong Listing Rules and the Pillar 3 remuneration disclosures.

For the purpose of the Pillar 3 remuneration disclosures, executive Directors and non-executive Directors are considered to be members of the management body. Members of the Group Executive Committee other than the executive Directors are considered as senior management.

## MRT remuneration disclosures

The following tables set out the remuneration disclosures for individuals identified as MRTs for HSBC Holdings. Remuneration information for individuals who are only identified as MRTs at HSBC Bank plc, HSBC UK Bank plc or other solo-regulated entity levels is included, where relevant, in those entities' disclosures.

The 2020 variable pay information included in the following tables is based on the market value of awards. For share awards, the market value is based on HSBC Holdings' share price at the date of grant (unless indicated otherwise). For cash awards, it is the value of awards expected to be paid to the individual over the deferral period.

### Remuneration – fixed and variable amounts (REM1)

	Fixed (\$m)			Variable <sup>2</sup> (\$m)							Total (\$m)	
	Number of MRTs	Cash-based <sup>1</sup>	Share-based	Cash-based	Of which: deferred	Share-based <sup>3</sup>	Of which: deferred	Other forms	Of which: deferred	Total		
Executive Directors	2	2.8	3.4	6.2	–	–	11.2	9.6	–	–	11.2	17.4
Non-executive Directors	12	7.0	–	7.0	–	–	–	–	–	–	–	7.0
Senior management	15	32.9	–	32.9	17.1	10.3	19.6	12.8	–	–	36.7	69.6
Investment banking	541	342.4	–	342.4	130.6	65.7	138.6	74.6	–	–	269.2	611.6
Retail banking	194	104.2	–	104.2	34.8	15.2	34.8	17.5	–	–	69.6	173.8
Asset management	33	20.5	–	20.5	8.1	3.8	5.7	3.0	2.7	1.8	16.5	37.0
Corporate functions	124	69.9	–	69.9	22.5	10.4	23.2	11.9	–	–	45.7	115.6
Independent control functions	145	67.6	1.2	68.8	18.0	6.1	14.9	7.6	–	–	32.9	101.7
All other	83	64.3	1.3	65.6	17.7	9.0	18.5	10.3	–	–	36.2	101.8
<b>Total</b>	<b>1,149</b>	<b>711.6</b>	<b>5.9</b>	<b>717.5</b>	<b>248.8</b>	<b>120.5</b>	<b>266.5</b>	<b>147.3</b>	<b>2.7</b>	<b>1.8</b>	<b>518.0</b>	<b>1,235.5</b>

1 Cash-based fixed remuneration is paid immediately.

2 Variable pay awarded in respect of 2020. In accordance with shareholder approval received on 23 May 2014 (98% in favour), for each MRT the variable component of remuneration for any one year is limited to 200% of fixed component of the total remuneration.

3 In general, share-based awards are made in HSBC shares. Vested shares are subject to a retention period of up to one year.

### Guaranteed bonus, sign-on and severance payments (REM2)

	Guaranteed bonus and sign-on payments <sup>1</sup>			Severance payments <sup>2</sup>			
	Made during year (\$m)	Number of beneficiaries	Awarded during year (\$m)	Number of beneficiaries	Highest such award to a single person (\$m)	Paid during year (\$m)	Number of beneficiaries
Executive Directors	–	–	–	–	–	–	–
Senior management	–	–	–	–	–	–	–
Investment banking	0.5	1	36.6	38	7.3	35.0	37
Retail banking	0.9	1	5.3	11	1.8	4.6	11
Asset management	–	–	1.9	4	1.0	1.9	4
Corporate functions	1.0	1	5.8	12	2.0	5.8	12
Independent control functions	–	–	4.2	10	0.7	3.6	9
All other	–	–	4.4	6	1.3	4.4	6
<b>Total</b>	<b>2.4</b>	<b>3</b>	<b>58.2</b>	<b>81</b>	<b>–</b>	<b>55.3</b>	<b>79</b>

1 No sign-on payments were made in 2020. A guaranteed bonus is awarded in exceptional circumstances for new hires, and in the first year only. The circumstances where HSBC would offer a guaranteed bonus would typically involve a critical new hire, and would also depend on factors such as the seniority of the individual, whether the new hire candidate has any competing offers and the timing of the hire during the performance year.

2 Includes payments such as payment in lieu of notice, statutory severance, outplacement service, legal fees, ex-gratia payments and settlements (excludes pre-existing benefit entitlements triggered on terminations).



Deferred remuneration at 31 December<sup>1</sup> (REM3)

\$m	Total outstanding <sup>2</sup>	Of which: unvested	Of which: total outstanding deferred and retained exposed to ex post explicit and/or implicit adjustment	Total amount of amendment during the year due to ex post implicit adjustment	Total amount of amendment during the year due to ex post explicit adjustment <sup>3</sup>	Total amount of deferred paid out in the financial year <sup>4</sup>
<b>Cash</b>						
Executive Directors	3.6	3.6	3.6	–	–	0.1
Senior management	27.4	27.4	27.4	–	–	5.1
Investment banking	195.0	195.0	195.0	–	–	62.7
Retail banking	41.9	41.9	41.9	–	–	10.2
Asset management	8.1	8.1	8.1	–	–	3.4
Corporate functions	35.0	35.0	35.0	–	–	9.7
Independent control functions	23.6	23.6	23.6	–	–	4.5
All other	30.2	30.2	30.2	–	–	8.7
<b>Shares</b>						
Executive Directors	9.7	9.1	9.7	(5.4)	–	2.5
Senior management	25.7	22.4	25.7	(12.7)	–	11.6
Investment banking	183.3	146.0	183.3	(90.5)	–	130.6
Retail banking	45.9	38.1	45.9	(22.6)	–	29.1
Asset management	5.6	4.2	5.6	(2.7)	–	4.3
Corporate functions	39.5	31.5	39.5	(19.6)	–	26.5
Independent control functions	28.8	26.2	28.8	(14.5)	–	18.0
All other	35.2	27.7	35.2	(17.4)	–	20.4
<b>Other forms</b>						
Executive Directors	–	–	–	–	–	–
Senior management	–	–	–	–	–	–
Investment banking	–	–	–	–	–	–
Retail banking	–	–	–	–	–	–
Asset management	7.0	5.6	7.0	0.3	–	1.7
Corporate functions	0.8	0.7	0.8	0.1	–	0.3
Independent control functions	0.2	0.1	0.2	–	–	0.1
All other	–	–	–	–	–	–

1 This table provides details of balances and movements during performance year 2020. For details of variable pay awards granted for 2020, refer to the 'Remuneration – fixed and variable amounts' table. Deferred remuneration is made in cash and/or shares. Share-based awards are made in HSBC shares.

2 Includes unvested deferred awards and vested deferred awards subject to retention period at 31 December 2020.

3 Includes any amendments due to malus or clawback.

4 Shares are considered as paid when they vest. Vested shares are valued using the sale price or the closing share price on the business day immediately preceding the vesting day.

MRTs' remuneration by band<sup>1</sup>

	Management body	All other	Total
€0 – 1,000,000	11	814	825
€1,000,000 – 1,500,000	–	179	179
€1,500,000 – 2,000,000	1	76	77
€2,000,000 – 2,500,000	–	27	27
€2,500,000 – 3,000,000	–	13	13
€3,000,000 – 3,500,000	–	11	11
€3,500,000 – 4,000,000	–	7	7
€4,000,000 – 4,500,000	–	1	1
€4,500,000 – 5,000,000	–	1	1
€5,000,000 – 6,000,000	1	3	4
€6,000,000 – 7,000,000	–	3	3
€7,000,000 – 8,000,000	–	–	–
€8,000,000 – 9,000,000	–	–	–
€9,000,000 – 10,000,000	1	–	1

1 Table prepared in euros in accordance with Article 450 of the European Union Capital Requirements Regulation, using the exchange rates published by the European Commission for financial programming and budget for December of the reported year as published on its website.

## Directors' emoluments

The details of compensation paid to executive and non-executive Directors for the year ended 31 December 2020 are set out below.

### Emoluments

	Noel Quinn		Ewen Stevenson		Non-executive Directors	
	2020 £000	2019 £000	2020 £000	2019 £000	2020 £000	2019 £000
Basic salaries, allowances and benefits in kind	3,338	1,312	1,806	1,820	5,527	5,335
Pension contributions	—	—	—	—	—	—
Performance-related pay paid or receivable <sup>1</sup>	4,517	665	2,568	3,176	—	—
Inducements to join paid or receivable	—	—	1,431	1,974	—	—
Compensation for loss of office	—	—	—	—	—	—
Notional return on deferred cash	17	—	—	—	—	—
<b>Total</b>	<b>7,872</b>	<b>1,977</b>	<b>5,805</b>	<b>6,970</b>	<b>5,527</b>	<b>5,335</b>
<b>Total (\$000)</b>	<b>10,097</b>	<b>2,522</b>	<b>7,446</b>	<b>8,890</b>	<b>7,090</b>	<b>6,843</b>

<sup>1</sup> Includes the value of the deferred and LTI awards at grant.

The aggregate amount of Directors' emoluments (including both executive Directors and non-executive Directors) for the year ended 31 December 2020 was \$24,624,520. As per our policy, benefits in kind may include, but are not limited to, the provision of medical insurance, income protection insurance, health assessment, life assurance, club membership, tax assistance, car benefit, travel assistance, provision of company owned-accommodation and relocation costs (including any tax due on these benefits, where applicable). Post-employment medical insurance benefit was provided to former Directors, including Douglas Flint valued at £5,859 (\$7,515), Stuart Gulliver valued at £5,859 (\$7,515) and John Flint valued at £4,784 (\$6,136). Tax support fees of £460 (\$590) were also provided to Stuart Gulliver, giving a total aggregate value of £16,962 (\$21,756) for benefits provided to past directors. The aggregate value of Director retirement benefits for current Directors is nil. Amounts are converted into US dollars based on the average year-to-date exchange rates for the respective year.

There were payments under retirement benefit arrangements with two former Directors of \$413,160. The provision at 31 December 2020 in respect of unfunded pension obligations to former Directors amounted to \$7,821,639.

### Emoluments of senior management and five highest paid employees

The following tables set out the details of emoluments paid to senior management, which in this case comprises executive Directors and members of the Group Executive Committee, for the year ended 31 December 2020, or for the period of appointment in 2020 as a Director or member of the Group Executive Committee. Details of the remuneration paid to the five highest paid employees, comprising one executive Director and four Group Managing Directors, for the year ended 31 December 2020, are also presented.

### Emoluments

£000s	Five highest paid employees	Senior management
Basic salaries, allowances and benefits in kind	13,319	36,831
Pension contributions	15	57
Performance-related pay paid or receivable <sup>1</sup>	17,310	34,431
Inducements to join paid or receivable	—	1,308
Compensation for loss of office	—	848
<b>Total</b>	<b>30,644</b>	<b>73,475</b>
<b>Total (\$000)</b>	<b>39,307</b>	<b>94,247</b>

<sup>1</sup> Includes the value of deferred shares awards at grant.

### Emoluments by bands

Hong Kong dollars	US dollars	Number of highest paid employees	Number of senior management
\$1,500,001 – \$2,000,000	\$193,397 – \$257,863	—	1
\$4,500,001 – \$5,000,000	\$580,191 – \$644,657	—	1
\$9,000,001 – \$9,500,000	\$1,160,382 – \$1,224,848	—	1
\$9,500,001 – \$10,000,000	\$1,224,848 – \$1,289,313	—	1
\$10,000,001 – \$10,500,000	\$1,289,314 – \$1,353,779	—	1
\$13,500,001 – \$14,000,000	\$1,740,573 – \$1,805,039	—	1
\$15,000,001 – \$15,500,000	\$1,933,970 – \$1,998,436	—	1
\$24,500,001 – \$25,000,000	\$3,158,818 – \$3,223,284	—	1
\$27,000,001 – \$27,500,000	\$3,481,146 – \$3,545,612	—	1
\$28,000,001 – \$28,500,000	\$3,610,078 – \$3,674,543	—	1
\$28,500,001 – \$29,000,000	\$3,674,543 – \$3,739,009	—	1
\$29,000,001 – \$29,500,000	\$3,739,009 – \$3,803,475	—	2
\$30,000,001 – \$30,500,000	\$3,867,940 – \$3,932,406	—	1
\$41,000,001 – \$41,500,000	\$5,286,185 – \$5,350,651	—	1
\$43,500,001 – \$44,000,000	\$5,608,514 – \$5,672,979	—	1
\$44,000,001 – \$44,500,000	\$5,672,979 – \$5,737,445	—	1
\$44,500,001 – \$45,000,000	\$5,737,445 – \$5,801,910	—	1
\$48,500,001 – \$49,000,000	\$6,253,170 – \$6,317,636	—	1
\$49,000,001 – \$49,500,000	\$6,317,636 – \$6,382,101	—	1
\$50,500,001 – \$51,000,000	\$6,511,033 – \$6,575,499	1	1
\$54,500,001 – \$55,000,000	\$7,026,758 – \$7,091,224	2	—
\$66,500,001 – \$67,000,000	\$8,573,934 – \$8,638,400	1	1
\$78,000,001 – \$78,500,000	\$10,056,645 – \$10,121,110	1	1

---

## Share capital and other related disclosures

### Share buy-back programme

HSBC Holdings did not announce a share buy-back to purchase its ordinary shares of \$0.50 each during the year.

### Dividends

#### Dividends for 2020

On 31 March 2020, HSBC announced that, in response to a written request from the Bank of England through the Prudential Regulation Authority ('PRA'), the Board had cancelled the fourth interim dividend for 2019. Similar requests were also made to other UK incorporated banking groups. We also announced that until the end of 2020 we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares.

In December 2020, the PRA announced a temporary approach to shareholder distributions for 2020 in which it set out a framework for board decisions on dividends. On 23 February 2021, after considering the requirements of the temporary approach, the Directors approved an interim dividend for 2020 of \$0.15 per ordinary share. The interim dividend will be payable on 29 April 2021 in cash in US dollars, or in sterling or Hong Kong dollars at exchange rates to be determined on 19 April 2021.

The 2020 interim dividend will be paid in cash with no scrip alternative. The Group has decided to discontinue the scrip dividend option as it is dilutive, including to dividend per share progression over time.

As the interim dividend for 2020 was approved after 31 December 2020, it has not been included in the balance sheet of HSBC as a liability. The distributable reserves of HSBC Holdings at 31 December 2020 were \$31.3bn.

A quarterly dividend of \$15.50 per 6.20% non-cumulative US dollar preference share, Series A ('Series A dollar preference share'), (equivalent to a dividend of \$0.3875 per Series A American Depositary Share ('ADS'), each of which represents 1/40th of a Series A dollar preference share), and £0.01 per Series A sterling preference share was paid on 16 March, 16 June, 15 September and 15 December 2020. The Series A dollar preference shares were redeemed on 13 January 2021.

#### Dividends for 2021

In December 2020, the PRA also announced that it intends to transition back to its standard approach to capital setting and shareholder distributions through 2021. In the meantime, for 2021 dividends the PRA is content for appropriately prudent dividends to be accrued but not paid out. The PRA aims to provide a further update ahead of the 2021 half-year results of large UK banks.

The Group will not pay quarterly dividends during 2021 but will consider whether to announce an interim dividend at the 2021 half-year results in August.

The Group will review whether to revert to paying quarterly dividends at or ahead of its 2021 results announcement in February 2022.

A dividend of £0.01 per Series A sterling preference share was approved on 23 February 2021 for payment on 15 March 2021.

### Share capital

#### Issued share capital

The nominal value of HSBC Holdings' issued share capital paid up at 31 December 2020 was \$10,346,810,550 divided into 20,693,621,100 ordinary shares of \$0.50 each, 1,450,000 non-cumulative preference shares of \$0.01 each and one non-cumulative preference share of £0.01, representing approximately 100.00%, 0.00%, and 0.00% respectively of the nominal value of HSBC Holdings' total issued share capital paid up at 31 December 2020. The 1,450,000 non-cumulative preference shares of \$0.01 each were redeemed on 13 January 2021.

### Rights, obligations and restrictions attaching to shares

The rights and obligations attaching to each class of ordinary and non-cumulative preference shares in our share capital are set out in full in our Articles of Association. The Articles of Association may be amended by special resolution of the shareholders and can be found on our website at [www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities](http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities).

#### Ordinary shares

HSBC Holdings has one class of ordinary share, which carries no right to fixed income. There are no voting restrictions on the issued ordinary shares, all of which are fully paid. On a show of hands, each member present has the right to one vote at general meetings. On a poll, each member present or voting by proxy is entitled to one vote for every \$0.50 nominal value of share capital held. There are no specific restrictions on transfers of ordinary shares, which are governed by the general provisions of the Articles of Association and prevailing legislation.

*Information on the policy adopted by the Board for paying interim dividends on the ordinary shares may be found in the 'Shareholder information' section on page 406.*

#### Dividend waivers

HSBC Holdings' employee benefit trusts, which hold shares in HSBC Holdings in connection with the operation of its share plans, have lodged standing instructions to waive dividends on shares held by them that have not been allocated to employees. There were no dividends waived during 2020 as there were no dividends paid on ordinary shares during 2020.

#### Preference shares

The preference shares, which have preferential rights to income and capital, do not, in general, confer a right to attend and vote at general meetings.

There are three classes of preference shares in the share capital of HSBC Holdings: non-cumulative US dollar preference shares of \$0.01 each ('dollar preference shares'); non-cumulative preference shares of £0.01 each ('sterling preference shares'); and non-cumulative preference shares of €0.01 ('euro preference shares'). The sterling preference share in issue is a Series A sterling preference share. There are no dollar preference shares or euro preference shares in issue.

*Information on dividends approved for 2020 and 2021 may be found in Note 8 on the financial statements on page 345.*

*Further details of the rights and obligations attaching to the HSBC Holdings' issued share capital may be found in Note 31 on the financial statements.*

#### Compliance with Hong Kong Listing Rule 13.25A(2)

HSBC Holdings has been granted a waiver from strict compliance with Rule 13.25A(2) of the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong.

Under this waiver, HSBC's obligation to file a Next Day Return following the issue of new shares, pursuant to the vesting of share awards granted under its share plans to persons who are not Directors, would only be triggered where it falls within one of the circumstances set out under Rule 13.25A(3).

#### Share capital changes in 2020

The following events occurred during the year in relation to the ordinary share capital of HSBC Holdings:

#### Scrip dividends

There were no scrip dividends issued during the year.

## All-employee share plans

	Number	Aggregate nominal value \$	Exercise price	
			from £	to £
<b>HSBC Holdings Savings-Related Share Option Plan (UK)</b>				
HSBC ordinary shares issued in £	1,387,599	693,800	2.6270	5.9640
Options over HSBC ordinary shares lapsed	44,189,936	22,094,968		
Options over HSBC ordinary shares granted in response to approximately 29,048 applications from HSBC employees in the UK on 24 September 2020	111,469,393	55,734,697		
	HSBC Holdings ordinary shares issued	Aggregate nominal value \$	Market value per share	
			from £	to £
<b>HSBC International Employee Share Purchase Plan</b>	<b>679,640</b>	<b>339,820</b>	<b>3.0855</b>	<b>5.9140</b>

## HSBC share plans

	HSBC Holdings ordinary shares issued	Aggregate nominal value \$	Market value per share	
			from £	to £
Vesting of awards under the HSBC Share Plan 2011	53,029,316	26,514,658	3.2290	5.6220

**Authorities to allot and to purchase shares and pre-emption rights**

At the AGM in 2020, shareholders renewed the general authority for the Directors to allot new shares up to 13,554,626,552 ordinary shares, 15,000,000 non-cumulative preference shares of £0.01 each, 15,000,000 non-cumulative preference shares of \$0.01 each and 15,000,000 non-cumulative preference shares of €0.01 each. Shareholders also renewed the authority for the Directors to make market purchases of up to 2,033,193,983 ordinary shares, which was not exercised during the year.

In addition, shareholders gave authority for the Directors to grant rights to subscribe for, or to convert any security into, no more than 4,066,387,966 ordinary shares in relation to any issue by HSBC Holdings or any member of the Group of contingent convertible securities that automatically convert into or are exchanged for ordinary shares in HSBC Holdings in prescribed circumstances. For further details on the issue of contingent convertible securities, see Note 31 on the financial statements.

Other than as disclosed in the tables above headed 'Share capital changes in 2020', the Directors did not allot any shares during 2020.

**Debt securities**

In 2020, HSBC Holdings issued the equivalent of \$15.95bn of debt securities in the public capital markets in a range of currencies and maturities in the form of senior securities to ensure it meets the current and proposed regulatory rules, including those relating to the availability of adequate total loss-absorbing capacity. For further details of capital instruments and bail-inable debt, see Notes 28 and 31 on pages 380 and 388.

**Treasury shares**

In accordance with the terms of a waiver granted by the Hong Kong Stock Exchange on 19 December 2005, HSBC Holdings will comply with the applicable law and regulation in the UK in relation to the holding of any shares in treasury and with the conditions of the waiver in connection with any shares it may hold in treasury. At 31 December 2020, pursuant to Chapter 6 of the UK Companies Act 2006, 325,273,407 ordinary shares were held in treasury. This was the maximum number of shares held at any time during 2020, representing 1.57% of the shares in issue as at 31 December 2020. The nominal value of shares held in treasury was \$162,636,704.

**Notifiable interests in share capital**

At 31 December 2020, HSBC Holdings had received the following notification of major holdings of voting rights pursuant to the requirements of Rule 5 of the Disclosure, Guidance and Transparency Rules:

- BlackRock, Inc. gave notice on 3 March 2020 that on 2 March 2020 it had the following: an indirect interest in HSBC Holdings ordinary shares of 1,235,558,490; qualifying financial instruments with 7,294,459 voting rights that may be acquired if the instruments are exercised or converted; and financial instruments with a similar economic effect to qualifying financial instruments, which refer to 2,441,397 voting rights, representing 6.07%, 0.03% and 0.01%, respectively, of the total voting rights at 2 March 2020.

No further notifications had been received pursuant to the requirements of Rule 5 of the Disclosure, Guidance and Transparency Rules between 31 December 2020 and 15 February 2021.

At 31 December 2020, according to the register maintained by HSBC Holdings pursuant to section 336 of the Securities and Futures Ordinance of Hong Kong:

- BlackRock, Inc. gave notice on 1 September 2020 that on 27 August 2020 it had the following interests in HSBC Holdings ordinary shares: a long position of 1,477,023,361 shares and a short position of 38,760,188 shares, representing 7.14% and 0.19%, respectively, of the ordinary shares in issue at that date.
- Ping An Asset Management Co., Ltd, gave notice on 25 September 2020 that on 23 September 2020 it had a long position of 1,655,479,531 in HSBC Holdings ordinary shares, representing 8.00% of the ordinary shares in issue at that date.

**Sufficiency of float**

In compliance with the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited, at least 25% of the total issued share capital has been held by the public at all times during 2020 and up to the date of this report.

**Dealings in HSBC Holdings listed securities**

The Group has policies and procedures that, except where permitted by statute and regulation, prohibit specified transactions in respect of its securities listed on The Stock Exchange of Hong Kong Limited. Except for dealings as intermediaries or as trustees by subsidiaries of HSBC Holdings, neither HSBC Holdings nor any of its subsidiaries has purchased, sold or redeemed any of its securities listed on The Stock Exchange of Hong Kong Limited during the year ended 31 December 2020.

## Directors' interests

Pursuant to the requirements of the UK Listing Rules and according to the register of Directors' interests maintained by HSBC Holdings pursuant to section 352 of the Securities and Futures Ordinance of Hong Kong, the Directors of HSBC Holdings at 31 December 2020 had certain interests, all beneficial unless otherwise stated, in the shares or debentures of HSBC Holdings and its associated corporations. Save as stated in the following

table, no further interests were held by Directors, and no Directors or their connected persons were awarded or exercised any right to subscribe for any shares or debentures in any HSBC corporation during the year.

No Directors held any short position as defined in the Securities and Futures Ordinance of Hong Kong in the shares or debentures of HSBC Holdings and its associated corporations.

### Directors' interests – shares and debentures

	Footnotes	At 31 Dec 2020 or date of cessation, if earlier					Total interests
		At 1 Jan 2020, or date of appointment, if later	Beneficial owner	Child under 18 or spouse	Jointly with another person	Trustee	
<b>HSBC Holdings ordinary shares</b>							
Kathleen Casey (retired on 24 April 2020)	1	15,125	15,125	–	–	–	15,125
Laura Cha		16,200	16,200	–	–	–	16,200
Henri de Castries		19,251	19,251	–	–	–	19,251
James Forese (appointed to the Board on 1 May 2020)	1	–	115,000	–	–	–	115,000
Steven Guggenheimer (appointed to the Board on 1 May 2020)	1,4	–	–	–	15,000	–	15,000
Irene Lee		11,904	11,904	–	–	–	11,904
José Antonio Meade Kuribreña	1	–	15,000	–	–	–	15,000
Heidi Miller	1	15,700	15,700	–	–	–	15,700
Eileen Murray (appointed to the Board on 1 July 2020)	1	–	75,000	–	–	–	75,000
David Nish		50,000	–	50,000	–	–	50,000
Noel Quinn	2	441,925	778,958	–	–	–	778,958
Ewen Stevenson	2	233,972	545,731	–	–	–	545,731
Sir Jonathan Symonds (retired on 18 February 2020)		43,821	38,823	4,998	–	–	43,821
Jackson Tai	1,3	66,515	32,800	11,965	21,750	–	66,515
Mark Tucker		307,352	307,352	–	–	–	307,352
Pauline van der Meer Mohr		15,000	15,000	–	–	–	15,000

1 Kathleen Casey has an interest in 3,025, James Forese has an interest in 23,000, Steven Guggenheimer has an interest in 3,000, José Antonio Meade Kuribreña has an interest in 3,000, Heidi Miller has an interest in 3,140, Eileen Murray has an interest in 15,000 and Jackson Tai has an interest in 13,303 listed ADS, which are categorised as equity derivatives under Part XV of the Securities and Futures Ordinance of Hong Kong. Each ADS represents five HSBC Holdings ordinary shares.

2 Executive Directors' other interests in HSBC Holdings ordinary shares arising from the HSBC Holdings Savings-Related Share Option Plan (UK) and the HSBC Share Plan 2011 are set out in the Scheme interests in the Directors' remuneration report on page 271. At 31 December 2020, the aggregate interests under the Securities and Futures Ordinance of Hong Kong in HSBC Holdings ordinary shares, including interests arising through employee share plans and the interests above were: Noel Quinn – 1,333,514; and Ewen Stevenson – 1,751,278. Each Director's total interests represents less than 0.01% of the shares in issue and 0.01% of the shares in issue excluding treasury shares.

3 Jackson Tai has a non-beneficial interest in 11,965 shares of which he is custodian.

4 On 19 May 2020, Steven Guggenheimer reported to HSBC that he had acquired 5,000 shares on 1 May 2020. Prior clearance was not obtained as required pursuant to the standards set out in the Hong Kong Model Code for Securities Transactions by Directors of Listed Issuers. Enhancements have been made to the Directors' onboarding process, along with communication throughout the year, to highlight share dealing obligations.

There have been no changes in the shares or debentures of the Directors from 31 December 2020 to the date of this report.

### Listing Rule 9.8.4 and other disclosures

This section of the Form 20-F forms part of and includes certain disclosures required in the Report of the Directors incorporated by cross-reference, including under Listing Rule 9.8.4 and otherwise as applicable by law.

Content	Page references
Long-term incentives	286
Dividend waivers	299
Dividends	299
Change of control	303
Emissions	46
Energy efficiency	53, 55
Principal activities of HSBC	12, 30, 99, 371
Business review and future developments	12–41, 43, 134, 160, 397

## Directors' governance

### Appointment and re-election

A rigorous selection process is followed for the appointment of Directors. Appointments are made on merit and candidates are considered against objective criteria, having regard to the benefits of a diverse Board. Appointments are made in accordance with HSBC Holdings' Articles of Association. The Nomination & Corporate Governance Committee report sets out further detail on

the Board selection process. The number of Directors (other than any alternate Directors) must not be fewer than five nor exceed 25. The Board may at any time appoint any person as a Director, either to fill a vacancy or as an addition to the existing Board. The Board may appoint any Director to hold any employment or executive office, and may revoke or terminate any such appointment.

Non-executive Directors are appointed for an initial three-year term and, subject to continued satisfactory performance based upon an assessment by the Group Chairman and the Nomination & Corporate Governance Committee, are proposed for re-election by shareholders at each AGM. They typically serve two three-year terms. The Board may invite a Director to serve additional periods but any term beyond six years is subject to review with an explanation to be provided in the Annual Report and Accounts.

Shareholders vote at each AGM on whether to elect and re-elect individual Directors. All Directors that stood for election and re-election at the 2020 AGM were elected and re-elected by shareholders.

None of the Directors who retired during the year or who are not offering themselves for re-election at the 2021 AGM have raised concerns about the operation of the Board or the management of the company.

No executive Director is involved in deciding their own remuneration outcome.

### Commitments

The terms and conditions of the appointments of non-executive Directors are set out in a letter of appointment, which includes the expectations of them and the estimated time required to perform their role. Letters of appointment of each non-executive Director are available for inspection at the registered office of HSBC Holdings. The current anticipated time commitment, which is subject to periodic review, is 75 days per year. Non-executive Directors who chair a Board committee are expected to devote up to 100 days per year to the Group. The Chair of the Group Risk Committee is expected to commit up to 150 days per year, reflecting the complexity of the role and responsibilities of this committee. All non-executive Directors confirm that they can meet this requirement, taking into account any other commitments they have.

Board approval is required for any non-executive Directors' external commitments, with consideration given to time commitments and conflicts of interest.

### Conflicts of interest

The Board has an established policy and set of procedures to ensure that the Board's management of the Directors' conflicts of interest policy operates effectively. The Board has the power to authorise conflicts where they arise, in accordance with the Companies Act 2006 and HSBC Holdings' Articles of Association. Details of all Directors' conflicts of interest are recorded in the register of conflicts, which is maintained by the Group Company Secretary and Chief Governance Officer's office. Upon appointment, new Directors are advised of the policy and procedures for managing conflicts. Directors are required to notify the Board of any actual or potential conflicts of interest and to update the Board with any changes to the facts and circumstances surrounding such conflicts. The Board has considered, and authorised (with or without conditions) where appropriate, potential conflicts as they have arisen during the year in accordance with the said policy and procedures.

### Directors' indemnity

The Articles of Association of HSBC Holdings contain a qualifying third-party indemnity provision, which entitles Directors and other officers to be indemnified out of the assets of HSBC Holdings against claims from third parties in respect of certain liabilities.

HSBC Holdings has granted, by way of deed poll, indemnities to the Directors, including former Directors who retired during the year, against certain liabilities arising in connection with their position as a Director of HSBC Holdings or of any Group company. Directors are indemnified to the maximum extent permitted by law.

The indemnities that constitute a 'qualifying third-party indemnity provision', as defined by section 234 of the Companies Act 2006, remained in force for the whole of the financial year (or, in the case of Directors appointed during 2020, from the date of their appointment). The deed poll is available for inspection at the registered office of HSBC Holdings.

Additionally, Directors have the benefit of Directors' and officers' liability insurance.

Qualifying pension scheme indemnities have also been granted to the Trustees of the Group's pension schemes, which were in force for the whole of the financial year and remain in force as at the date of this report.

### Contracts of significance

During 2020, none of the Directors had a material interest, directly or indirectly, in any contract of significance with any HSBC company. During the year, all Directors were reminded of their obligations in respect of transacting in HSBC securities and following specific enquiry all Directors have confirmed that they have complied with their obligations.

### Additional non-financial disclosures

Additional non-financial disclosures detailing HSBC's policies and practices in relation to the workforce, environment, social matters,

human rights, and anti-corruption and anti-bribery matters are included in other sections of the *Annual Report and Accounts 2020*.

### Shareholder engagement

The Board is directly accountable to, and gives high priority to communicating with, HSBC's shareholders. Information about HSBC and its activities is provided to shareholders in its *Interim Reports* and the *Annual Report and Accounts* as well as on [www.hsbc.com](http://www.hsbc.com).

To complement regular publications, there is continual dialogue between members of the Board and institutional investors throughout the year. For examples of such engagement see the Group Chairman's letter on page 238 and the Remuneration Committee Chair's letter on page 271.

Directors are encouraged to develop an understanding of the views of shareholders. Enquiries from individuals on matters relating to their shareholdings and HSBC's business are welcomed.

Any individual or institutional investor can make an enquiry by contacting the investor relations team, Group Chairman, Group Chief Executive, Group Chief Financial Officer and Group Company Secretary and Chief Governance Officer. Our Senior Independent Director is also available to shareholders if they have concerns that cannot be resolved or for which the normal channels would not be appropriate. He can be contacted via the Group Company Secretary and Chief Governance Officer at 8 Canada Square, London E14 5HQ.

### Annual General Meeting

The AGM in 2021 is planned to be held in London at 11:00am on Friday, 28 May 2021. Information on how to participate, both in advance and on the day, can be found in the Notice of the 2021 AGM, which will be sent to shareholders on 24 March 2021 and be available on [www.hsbc.com/agm](http://www.hsbc.com/agm). A live webcast will be available on [www.hsbc.com](http://www.hsbc.com). A recording of the proceedings will be available on [www.hsbc.com](http://www.hsbc.com) shortly after the conclusion of the AGM. Due to the current environment these arrangements may change. Shareholders should monitor our website and announcements for any updates. Shareholders may send enquiries to the Board in writing via the Group Company Secretary and Chief Governance Officer, HSBC Holdings plc, 8 Canada Square, London E14 5HQ or by sending an email to [shareholderquestions@hsbc.com](mailto:shareholderquestions@hsbc.com).

### General meetings and resolutions

Shareholders may require the Directors to call a general meeting other than an AGM, as provided by the UK Companies Act 2006. A valid request to call a general meeting may be made by members representing at least 5% of the paid-up capital of HSBC Holdings as carries the right of voting at its general meetings (excluding any paid-up capital held as treasury shares). A request must state the general nature of the business to be dealt with at the meeting and may include the text of a resolution that may properly be moved and is intended to be moved at the meeting. At any general meeting convened on such request, no business may be transacted except that stated by the requisition or proposed by the Board.

Shareholders may request the Directors to send a resolution to shareholders for consideration at an AGM, as provided by the UK Companies Act 2006. A valid request must be made by (i) members representing at least 5% of the paid-up capital of HSBC Holdings as carries the right of voting at its general meetings (excluding any paid-up capital held as treasury shares), or (ii) at least 100 members who have a right to vote on the resolution at the AGM in question and hold shares in HSBC Holdings on which there has been paid up an average sum, per member, of at least £100. The request must be received by the company not later than (i) six weeks before the AGM in question; or (ii) if later, the time at which the notice of AGM is published.

A request may be in hard copy form or in electronic form, and must be authenticated by the person or persons making it. A request may be made in writing to HSBC Holdings at its UK

address, referred to in the paragraph above or by sending an email to [shareholderquestions@hsbc.com](mailto:shareholderquestions@hsbc.com).

### Events after the balance sheet date

For details of events after the balance sheet date, see Note 36 on the financial statements.

### Change of control

The Group is not party to any significant agreements that take effect, alter or terminate following a change of control of the Group. The Group does not have agreements with any Director or employee that would provide compensation for loss of office or employment resulting from a takeover bid.

### Branches

The Group provides a wide range of banking and financial services through branches and offices in the UK and overseas.

### Research and development activities

During the ordinary course of business the Group develops new products and services within the global businesses.

### Political donations

HSBC does not make any political donations or incur political expenditure within the ordinary meaning of those words. We have no intention of altering this policy. However, the definitions of political donations, political parties, political organisations and political expenditure used in the UK Companies Act 2006 are very wide. As a result, they may cover routine activities that form part of the normal business activities of the Group and are an accepted part of engaging with stakeholders. To ensure that neither the Group nor any of its subsidiaries inadvertently breaches the UK Companies Act 2006, authority is sought from shareholders at the AGM to make political donations.

HSBC provides administrative support to two political action committees ("PACs") in the US funded by voluntary political contributions by eligible employees. We do not control the PACs, and all decisions regarding the amounts and recipients of contributions are directed by the respective steering committee of each PAC, which are comprised of eligible employees. The PACs recorded combined political donations of \$100,750 during 2020 (2019: \$119,600).

### Charitable contributions

For details of charitable contributions, see page 50.

---

## Internal control

The Board is responsible for maintaining and reviewing the effectiveness of risk management and internal control systems, and for determining the aggregate level and types of risks the Group is willing to take in achieving its strategic objectives.

To meet this requirement and to discharge its obligations under the FCA Handbook and the PRA Handbook, procedures have been designed: for safeguarding assets against unauthorised use or disposal; for maintaining proper accounting records; and for ensuring the reliability and usefulness of financial information used within the business or for publication.

These procedures provide reasonable assurance against material misstatement, errors, losses or fraud. They are designed to provide effective internal control within the Group and accord with the Financial Reporting Council's guidance for Directors issued in 2014, on risk management, internal control and related financial and business reporting. The procedures have been in place throughout the year and up to 23 February 2021, the date of approval of the *Annual Report and Accounts 2020*.

The key risk management and internal control procedures include the following:

### Global principles

The Group's Global Principles set an overarching standard for all other policies and procedures and are fundamental to the Group's risk management structure. They inform and connect our purpose,

values, strategy and risk management principles, guiding us to do the right thing and treat our customers and our colleagues fairly at all times.

### Risk management framework

The risk management framework provides an effective and efficient approach to how we govern and oversee the organisation as well as how we monitor and mitigate risks to the delivery of our strategy. It applies to all categories of risk, covering core governance, standards and principles that bring together all of the Group's risk management practices into an integrated structure.

### Delegation of authority within limits set by the Board

Subject to certain matters reserved for the Board, the Group Chief Executive has been delegated authority limits and powers within which to manage the day-to-day affairs of the Group, including the right to sub-delegate those limits and powers. Each relevant Group Executive Committee member or executive Director has delegated authority within which to manage the day-to-day affairs of the business or function for which he or she is accountable.

Delegation of authority from the Board requires those individuals to maintain a clear and appropriate apportionment of significant responsibilities and to oversee the establishment and maintenance of systems of control that are appropriate to their business or function. Authorities to enter into credit and market risk exposures are delegated with limits to line management of Group companies. However, credit proposals with specified higher-risk characteristics require the concurrence of the appropriate global function. Credit and market risks are measured and reported at subsidiary company level and aggregated for risk concentration analysis on a Group-wide basis.

### Risk identification and monitoring

Systems and procedures are in place to identify, assess, control and monitor the material risk types facing HSBC as set out in the risk management framework. The Group's risk measurement and reporting systems are designed to help ensure that material risks are captured with all the attributes necessary to support well-founded decisions, that those attributes are accurately assessed and that information is delivered in a timely manner for those risks to be successfully managed and mitigated.

### Changes in market conditions/practices

Processes are in place to identify new risks arising from changes in market conditions/practices or customer behaviours, which could expose the Group to heightened risk of loss or reputational damage. The Group employs a top and emerging risks framework, which contains an aggregate of all current and forward-looking risks and enables it to take action that either prevents them materialising or limits their impact.

During 2020 unprecedented global economic events led to banks playing an expanded role to support society and customers. The Covid-19 outbreak and its impact on the global economy have impacted many of our customers' business models and income, requiring significant levels of support from both governments and banks.

To meet the additional challenges, we supplemented our existing approach to risk management with additional tools and practices. We increased our focus on the quality and timeliness of the data used to inform management decisions, through measures such as early warning indicators, prudent active risk management of our risk appetite, and ensuring regular communication with our Board and other key stakeholders.

### Responsibility for risk management

All employees are responsible for identifying and managing risk within the scope of their role as part of the three lines of defence model. This is an activity-based model to delineate management accountabilities and responsibilities for risk management and the control environment. The second line of defence sets the policy and guidelines for managing specific risk areas, provides advice and guidance in relation to the risk, and challenges the first line of defence (the risk owners) on effective risk management.

The Board delegated authority to the Group Audit Committee ('GAC') and it reviewed the independence, autonomy and effectiveness of the Group's policies and procedures on whistleblowing, including the procedures for the protection of staff who raise concerns of detrimental treatment.

### Strategic plans

Strategic plans are prepared for global businesses, global functions and geographical regions within the framework of the Group's overall strategy. Annual operating plans, informed by detailed analysis of risk appetite describing the types and quantum of risk that the Group is prepared to take in executing its strategy, are prepared and adopted by all major Group operating companies and set out the key business initiatives and the likely financial effects of those initiatives.

The effectiveness of the Group's system of risk management and internal control is reviewed regularly by the Board, the Group Risk Committee ('GRC') and the GAC.

During 2020, the Group continued to focus on operational resilience and invest in the non-financial risk infrastructure. There was a particular focus on material and emerging risks and areas undergoing strategic growth.

The GRC and the GAC received confirmation that executive management has taken or is taking the necessary actions to remedy any failings or weaknesses identified through the operation of the Group's framework of controls. In response to the Covid-19 outbreak, our business continuity responses have been successfully implemented and the majority of service level agreements continue to be maintained.

### Internal control over financial reporting

HSBC is required to comply with section 404 of the US Sarbanes-Oxley Act of 2002 and assess its effectiveness of internal control over financial reporting at 31 December 2020. In 2014, the GAC endorsed the adoption of the COSO 2013 framework for the monitoring of risk management and internal control systems to satisfy the requirements of section 404 of the Sarbanes-Oxley Act.

The key risk management and internal control procedures over financial reporting include the following:

#### Entity level controls

The primary mechanism through which comfort over risk management and internal control systems is achieved is through assessments of the effectiveness of controls to manage risk, and the reporting of issues on a regular basis through the various risk management and risk governance forums. Entity level controls are a defined suite of internal controls that have a pervasive influence over the entity as a whole and meet the principles of the Committee of Sponsoring Organizations of the Treadway Commission ('COSO') framework. They include controls related to the control environment, such as the Group's values and ethics, the promotion of effective risk management and the overarching governance exercised by the Board and its non-executive committees. The design and operational effectiveness of entity level controls are assessed annually as part of the assessment of the effectiveness of internal controls over financial reporting. If issues are significant to the Group, they are escalated to the GRC and also to the GAC, if concerning financial reporting matters. The suite of entity level controls was updated in 2020 to simplify and align with the Group's refreshed risk management framework.

#### Process level transactional controls

Key process level controls that mitigate the risk of financial misstatement are identified, recorded and monitored in accordance with the risk framework. This includes the identification and assessment of relevant control issues against which action plans are tracked through to remediation. Further details on HSBC's approach to risk management can be found on page 132. The GAC has continued to receive regular updates on HSBC's ongoing activities for improving the effective oversight of end-to-end business processes and management continued to identify opportunities for enhancing key controls, such as through the use of automation technologies.

### Financial reporting

The Group's financial reporting process is controlled using documented accounting policies and reporting formats, supported by detailed instructions and guidance on reporting requirements, issued to all reporting entities within the Group in advance of each reporting period end. The submission of financial information from each reporting entity is supported by a certification by the responsible financial officer and analytical review procedures at reporting entity and Group levels.

### Disclosure Committee

Chaired by the Group Chief Financial Officer, the Disclosure Committee supports the discharge of the Group's obligations under relevant legislation and regulation including the UK and Hong Kong listing rules, the UK Market Abuse Regulation and US Securities and Exchange Commission rules. In so doing, the Disclosure Committee is empowered to determine whether a new event or circumstance should be disclosed, including the form and timing of such disclosure, and review certain material disclosures made or to be made by the Group. The membership of the Disclosure Committee consists of senior management, including the Group Chief Financial Officer, Group Chief Legal Officer and Group Company Secretary and Chief Governance Officer. The Group's brokers, external auditors and its external legal counsel also attend as required. The integrity of disclosures is underpinned by structures and processes within the Global Finance and Global Risk functions that support rigorous analytical review of financial reporting and the maintenance of proper accounting records. As required by the Sarbanes-Oxley Act, the Group Chief Executive and the Group Chief Financial Officer have certified that the Group's disclosure controls and procedures were effective as at the end of the period covered by the *Annual Report and Accounts 2020*.

The annual review of the effectiveness of the Group's system of risk management and internal control over financial reporting was conducted with reference to the COSO 2013 framework. Based on the assessment performed, the Directors concluded that for the year ended 31 December 2020, the Group's internal control over financial reporting was effective.

PwC has audited the effectiveness of HSBC's internal control over financial reporting and has given an unqualified opinion.



---

## Going concern

The Directors considered it appropriate to prepare the financial statements on a going concern basis.

In making the going concern assessment, the Directors have considered a wide range of detailed information relating to present and potential conditions, including projections for profitability, cash flows, capital requirements and capital resources.

In carrying out their assessment of the principal risks, the Directors considered a wide range of information including:

- details of the Group's business and operating models, and strategy;
- details of the Group's approach to managing risk and allocating capital;
- a summary of the Group's financial performance, its ability to maintain minimum levels of regulatory capital, liquidity funding and the minimum requirement for own funds and eligible liabilities over the period of assessment. Notable are the risks which the Directors believe could cause the Group's future results or operations to adversely impact any of the above;
- enterprise risk reports, including the Group's risk appetite profile (see page 132 of the Annual Report and Accounts) and top and emerging risks (see page 140 of the Annual Report and Accounts);
- the impact on the Group due to the Covid-19 pandemic, the UK's departure from the EU, trade and tariff related tensions between the US and China and the situation in Hong Kong;
- reports and updates regarding regulatory and internal stress testing. While the Bank of England and European Banking Authority cancelled their industry-wide stress test exercises in 2020, a number of internal stress tests were conducted in 2020, including several potential Covid-19 related outcomes;
- reports and updates from management on risk-related issues selected for in-depth consideration;
- reports and updates on regulatory developments;
- legal proceedings and regulatory matters set out in Note 34 on the financial statements of the *Annual Report and Accounts 2020*; and
- reports and updates from management on the operational resilience of the Group.

---

## Employees

At 31 December 2020, HSBC had a total workforce equivalent to 226,000 full-time employees compared with 235,000 at the end of 2019 and 229,000 at the end of 2018. Our main centres of employment were the UK with approximately 40,000 employees, India with 39,000, Hong Kong with 29,000, mainland China with 27,000, Mexico with 15,000, the US with 8,000 and France with 7,000.

Our people span many cultures, communities and continents. By focusing on employee well-being, diversity, inclusion and engagement, as well as building our peoples' skills and capabilities for now and for the future, we aim to create an environment where our people can fulfil their potential. We use confidential surveys to assess progress and make changes. We want to have an open culture where our people feel connected, supported to speak up and where our leaders encourage feedback. Where we make organisational changes, we support our people throughout the change and in particular where there are job losses.

### Employee relations

We consult with and, where appropriate, negotiate with employee representative bodies where we have them. It is our policy to maintain well-developed communications and consultation programmes with all employee representative bodies. There have

been no material disruptions to our operations from labour disputes during the past five years.

We are committed to complying with the applicable employment laws and regulations in the jurisdictions in which we operate. HSBC's global employment practices and relations policy provides the framework and controls through which we seek to uphold that commitment.

### Diversity and inclusion

Our customers, suppliers and communities span many cultures and continents. We believe this diversity makes us stronger, and we are dedicated to building a diverse and connected workforce where everyone feels a sense of belonging.

Our Group People Committee, which is made up of Group Executive Committee members, governs our diversity and inclusion agenda. It meets regularly to agree actions to improve diverse representation and build a more inclusive culture where our colleagues can bring the best of themselves to work and deliver more equal outcomes for our stakeholders. Members of our Group Executive Committee are held to account for the actions they take on diversity via aspirational targets contained within their performance scorecards. Our people managers also have a component of their performance assessed on the degree to which they create team environments that are inclusive, motivating and nurturing. Every colleague at HSBC must treat each other with dignity and respect, creating an inclusive environment. Our policies make clear we do not tolerate unlawful discrimination, bullying or harassment on any grounds.

To align our approach to inclusion best practice, we participate in global diversity benchmarks, which help us to identify improvement opportunities. We also track a large number of diversity and inclusion metrics, which enable us to pinpoint inclusion barriers and take action where required.

Our gender diversity statistics are set out on page 64.

*Further details of our diversity and inclusion activity, together with our Gender and Ethnicity UK Pay Gap Report 2020, can be found at [www.hsbc.com/diversitycommitments](http://www.hsbc.com/diversitycommitments).*

### Employment of people with a disability

We believe in providing equal opportunities for all employees. The employment of people with a disability is included in this commitment. The recruitment, training, career development and promotion of people with a disability are based on the aptitudes and abilities of the individual. Should employees become disabled during their employment with us, efforts are made to continue their employment and, if necessary, appropriate training and reasonable equipment and facilities are provided.

### Employee development

A workforce capable of meeting the challenges of today and tomorrow requires significant support to develop the right skills. Whatever our colleagues' career paths, we have a range of tools and resources to help them.

### A rapid shift to virtual learning

The Covid-19 outbreak resulted in a halt to classroom training and rapid expansion in virtual learning. We prioritised the transition to remote working and helping people manage their well-being. The shift from physical classroom training to shorter virtual equivalents and online resources resulted in a total of 5.2 million hours and 2.9 days per FTE in training in 2020. For further details on training hours and days by gender, region and seniority, see the *ESG Data Pack* at [www.hsbc.com/esg](http://www.hsbc.com/esg).

We converted or rebuilt technical, professional and personal classroom programmes to deliver online. New joiners to HSBC experienced an immersive virtual induction programme and virtual internships. Our global graduate induction programme moved entirely online with more than 100 leaders and graduate alumni welcoming approximately 650 graduates.

### Supporting self-development

We have a range of tools and resources to help colleagues take ownership of their development and career.

- HSBC University is our one-stop shop for learning delivered via an online portal, network of global training centres and third-party providers.
- Our My HSBC Career portal offers career development resources and information on managing change and on giving back to the organisation and the communities in which we operate. Over 100,000 of our colleagues made use of it in 2020.
- We launched a global mentoring system in 2020 to enable colleagues to match with a mentor or mentee. At 31 December 2020, we had in excess of 6,800 mentors and mentees in 58 countries and territories.

### Developing core skills

Our managers are the critical link in supporting our colleagues. In 2020, we redesigned our suite of training and resources for managers so they can focus on the most important skills including leading and supporting teams through change.

Risk management remains central to development and is part of our mandatory training. Those at higher risk of exposure to financial wrongdoing experience more in-depth training on financial risks, such as money laundering, sanctions, bribery and corruption. Other programmes and resources address specific areas of risk, like management of third-party suppliers.

Our Cyber Hub brings together training, insights, events and campaigns on how to combat cyber-crime. We are also supporting those who develop models and senior leaders with training to help them understand and apply our Principles on the Ethical Use of Big Data and Artificial Intelligence.

### A learning and feedback culture

We want our colleagues to be well prepared for changing workplace requirements and so have developed a flagship Future Skills programme to support them. We identified nine key behaviours we believe are necessary future skills for colleagues and built a curriculum of resources to support learners to develop these.

More than 1,000 colleagues now act as Future Skills Influencers, supporting their businesses and teams to invest in learning. In November 2020, we ran a week-long MySkills festival, which helped colleagues explore future skills through virtual events, interactive workshops and online resources. Demand to join sessions surpassed our expectations with more than 45,000 registrations for events.

### Senior succession planning

Developing future leaders is critical to our long-term success. The Group Executive Committee dedicates time to articulate the current and future capabilities required to deliver the business strategy, and identify successors for our most critical roles.

Successors undergo robust assessment and participate in executive development. Potential successors for senior roles also benefit from coaching and mentoring and are moved into roles that build their skills and capabilities.

### Health and safety

We are committed to providing a safe and healthy working environment for everyone. We strive to ensure we adopt best health and safety management practices across the organisation and aim for standards that reflect our core values.

Chief operating officers have overall responsibility for ensuring that global policies, procedures and safeguards are put into practice locally, and that all legal requirements are met.

To put our commitment into practice, we delivered a range of programmes in 2020 to help us understand and manage effectively the risks we face and improve the buildings in which we operate:

- Based on expert medical advice, we created safe workplaces globally, designed to protect our employees, contractors and

customers from the risks of Covid-19. We carried out approximately 1,700 Covid-19-related workplace enhancements globally, with measures involving: enhanced cleaning; training and awareness; public hygiene; and track and trace.

- We updated our advice on working from home, providing more awareness and best practices on good ergonomics and well-being to be adopted during these unprecedented times.
- We delivered an improved health and safety training and awareness programme to 245,000 of our employees and contractors globally, ensuring roles and responsibilities were clear and understood.
- We completed the annual safety inspection on all of our buildings globally, subject to local Covid-19 restrictions, to ensure we were meeting our standards and continuously improving our safety performance.
- We continued to focus on enhancing the safety culture in our supply chain through our SAFER Together programme, covering the five key elements of best practice safety culture, including speaking up about safety, and recognising excellence. Our 2020 safety climate survey results showed a continued year-on-year increase in safety culture, and significantly above the industry average.
- Our Eat Well Live Well programme continued through educating and informing our colleagues on how to make healthy food and drink choices. We enhanced the programme to provide digital educational and information resources, including a suite of videos and recipe ideas. The programme was runner up in the 2020 Global Healthy Workplace Awards.
- We put in place effective storm preparation controls and processes to ensure the protection of our people and operations. In 2020, there were 41 named storms, which passed over 2,316 of our buildings and resulted in no injuries or business impact.

### Employee health and safety

	Footnotes	2020	2019	2018
Number of workplace fatalities		—	1	1
Number of major injuries to employees	<sup>1</sup>	15	29	27
All injury rate per 100,000 employees		88	189	189

<sup>1</sup> Fractures, dislocation, concussion, loss of consciousness, overnight admission to hospital.

### Remuneration

HSBC's pay and performance strategy is designed to reward competitively the achievement of long-term sustainable performance and attract and motivate the very best people, regardless of gender, ethnicity, age, disability or any other factor unrelated to performance or experience with the Group, while performing their role in the long-term interests of our stakeholders.

For further details of the Group's approach to remuneration, see page 275.

### Employee share plans

Share options and discretionary awards of shares granted under HSBC share plans align the interests of employees with the creation of shareholder value. The following table sets out the particulars of outstanding options, including those held by employees working under employment contracts that are regarded as 'continuous contracts' for the purposes of the Hong Kong Employment Ordinance. The options were granted at nil consideration. No options have been granted to substantial shareholders and suppliers of goods or services, nor in excess of the individual limit for each share plan. No options were cancelled by HSBC during the year.

A summary for each plan of the total number of the options that were granted, exercised or lapsed during 2020 is shown in the following table. Further details required to be disclosed pursuant to Chapter 17 of the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited are available on our website at [www.hsbc.com/who-we-are/leadership-and-governance/remuneration](http://www.hsbc.com/who-we-are/leadership-and-governance/remuneration) and on the website of The Stock

Exchange of Hong Kong Limited at [www.hkex.com.hk](http://www.hkex.com.hk), or can be obtained upon request from the Group Company Secretary and Chief Governance Officer, 8 Canada Square, London E14 5HQ.

*Particulars of options held by Directors of HSBC Holdings are set out on page 288.*

*Note 5 on the financial statements gives details of share-based payments, including discretionary awards of shares granted under HSBC share plans.*

### All-employee share plans

HSBC operates all-employee share option plans under which options are granted over HSBC ordinary shares. Subject to leaver provisions, options are normally exercisable after three or five years. During 2020, options were granted by reference to the average market value of HSBC Holdings ordinary shares on the five business days immediately preceding the invitation date, then applying a discount of 20%. The closing price for HSBC Holdings

ordinary shares quoted on the London Stock Exchange on 23 September 2020, the day before the options were granted and as derived from the Daily Official List, was £2.9025.

The HSBC Holdings Savings-Related Share Option Plan (UK) will expire on 24 April 2030, by which time the plan may be extended with approval from shareholders, unless the Directors resolve to terminate the plan at an earlier date.

The HSBC International Employee Share Purchase Plan was introduced in 2013 and now includes employees based in 27 jurisdictions, although no options are granted under this plan.

During 2020, approximately 171,000 employees were offered participation in these plans.

#### HSBC Holdings Savings-Related Share Option Plan (UK)

Dates of awards		Exercise price		Usually exercisable		HSBC Holdings ordinary shares					
from	to	from	to	from	to	Footnotes	At 1 Jan 2020	Granted during year	Exercised during year	Lapsed during year	At 31 Dec 2020
		(£)	(£)								
20 Sep 2013	24 Sep 2020	2.6270	5.9640	1 Nov 2018	30 Apr 2026	<sup>1</sup>	65,060,681	111,469,393	1,387,599	44,189,936	130,952,539

<sup>1</sup> The weighted average closing price of the shares immediately before the dates on which options were exercised was £5.2014.

## Statement of compliance

The statement of corporate governance practices set out on pages 237 to 309 and the information referred to therein constitutes the 'Corporate governance report' and 'Report of the Directors' of HSBC Holdings. The websites referred to do not form part of this report.

### Relevant corporate governance codes, role profiles and policies

UK Corporate Governance Code	<a href="http://www.frc.org.uk">www.frc.org.uk</a>
Hong Kong Corporate Governance Code (set out in Appendix 14 to the Rules Governing the Listing of Securities on the Stock Exchange of Hong Kong Limited)	<a href="http://www.hkex.com.hk">www.hkex.com.hk</a>
Descriptions of the roles and responsibilities of the:	<a href="http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities">www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities</a>
– Group Chairman	
– Group Chief Executive	
– Senior Independent Director	
– Board	
Board and senior management	<a href="http://www.hsbc.com/who-we-are/leadership-and-governance">www.hsbc.com/who-we-are/leadership-and-governance</a>
Roles and responsibilities of the Board's committees	<a href="http://www.hsbc.com/who-we-are/leadership-and-governance/board-committees">www.hsbc.com/who-we-are/leadership-and-governance/board-committees</a>
Board's policies on:	<a href="http://www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities">www.hsbc.com/who-we-are/leadership-and-governance/board-responsibilities</a>
– diversity and inclusion	
– shareholder communication	
– human rights	
– remuneration practices and governance	
Global Internal Audit Charter	<a href="http://www.hsbc.com/who-we-are/leadership-and-governance/corporate-governance-codes/internal-control">www.hsbc.com/who-we-are/leadership-and-governance/corporate-governance-codes/internal-control</a>

HSBC is subject to corporate governance requirements in both the UK and Hong Kong. During 2020, save to the extent referred to below, HSBC complied with the provisions and requirements of both the UK and Hong Kong Corporate Governance Codes.

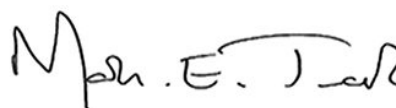
Following the UK Government's introduction of social distancing measures and prohibition on non-essential travel and public gatherings, it was not possible for shareholders to attend the 2020 Annual General Meeting ('AGM') in person. The Board was fully informed of all relevant AGM and shareholder matters but only a limited number of Directors and essential personnel attended the AGM to ensure the meeting was quorate and to enable the business of the meeting to be conducted. Shareholders were advised to vote by submitting a proxy in advance of the AGM and that they should only appoint the Chairman of the AGM to act as their proxy. To ensure that shareholders did not lose the opportunity to raise questions, shareholders were encouraged to submit questions for the Board via email in advance of the AGM. Responses to the most frequent questions across key themes were published on the HSBC website after due consideration by the Board. None of the questions submitted covered a topic that required consideration by the auditor. Given these measures, not all of the persons set out in paragraphs A.6.7 and E.1.2 of the Hong Kong Corporate Governance Code were able to attend the AGM.

Under the Hong Kong Code, the audit committee should be responsible for the oversight of all risk management and internal control systems. HSBC's Group Risk Committee is responsible for

oversight of internal control, other than internal control over financial reporting, and risk management systems. This is permitted under the UK Corporate Governance Code.

Notwithstanding that Laura Cha has served on the Board for more than nine years, the Board has determined that she continues to be independent when taking into consideration all other relevant circumstances that are likely to impair, or could appear to impair, independence. Laura will not be standing for re-election at the 2021 AGM.

HSBC Holdings has codified obligations for transactions in Group securities in accordance with the requirements of the UK Market Abuse Regulation and the rules governing the listing of securities on HKEx, save that the HKEx has granted waivers from strict compliance with the rules that take into account accepted practices in the UK, particularly in respect of employee share plans. During the year, all Directors were reminded of their obligations in respect of transacting in HSBC Group securities and, except as disclosed on page 301, following specific enquiry all Directors have confirmed that they have complied with their obligations.



On behalf of the Board

**Mark E Tucker**

Group Chairman

HSBC Holdings plc

Registered number 617987

23 February 2021

**This page is left intentionally blank**

# Financial statements

- 311 Report of Independent Registered Public Accounting Firm to the Board of Directors and Shareholders of HSBC Holdings plc
- 314 Financial statements
- 324 Notes on the financial statements

## Supporting our customers through transition finance

We are supporting our customers to make progress towards their commitments to cut greenhouse gas emissions, in line with the goals of the Paris Agreement on climate change. We played a key role in the world's first 'transition' Islamic bond, known as a sukuk, to help reduce carbon emissions in the aviation industry. Etihad Airways will use the \$600m proceeds for energy-efficient aircraft and research and development into sustainable aviation fuel.

This sukuk included a commitment from Etihad to purchase a set amount of carbon offsets if it fails to meet its short-term target to reduce the carbon intensity of its passenger fleet.

We acted as joint global coordinator and joint sustainability structuring agent on the deal, as well as joint bookrunner and dealer manager.

---

## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Shareholders of HSBC Holdings plc

### Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of HSBC Holdings plc and its subsidiaries (the "Company") as of 31 December 2020 and 31 December 2019, and the related consolidated income statements, consolidated statements of comprehensive income, consolidated statements of cash flows, and consolidated statements of changes in equity for each of the three years in the period ended 31 December 2020, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of 31 December 2020, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of 31 December 2020 and 31 December 2019, and the results of its operations and its cash flows for each of the three years in the period ended 31 December 2020 i) in accordance with International Accounting Standards in conformity with the requirements of the Companies Act 2006, ii) as prepared in accordance with International Financial Reporting Standards adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the European Union, and iii) as prepared in accordance with International Financial Reporting Standards as issued by the International Accounting Standards Board. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of 31 December 2020, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

### Change in Accounting Principle

As discussed in Note 1 to the consolidated financial statements, the Company changed the manner in which it accounts for financial instruments in 2018.

### Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's assessment of internal controls over financial reporting on page 121 of the Form 20-F. Our responsibility is to express opinions on the Company's financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorisations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

### Critical Audit Matters

The critical audit matters communicated below are matters arising from the current period audit of the financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the financial statements and (ii) involved especially challenging, subjective, or complex judgements. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

### Measurement of expected credit losses

As described in Note 1.2 (i) to the consolidated financial statements and detailed in the audited disclosures within 'Risk review' section on pages 143 to 236, the Company's expected credit losses ('ECL') total was \$15.7bn. The assessment of credit risk and the estimation of ECL incorporates information about past events, current conditions and forecasts of future events and economic conditions at the reporting date. Management estimates ECL using three main components: a probability of default ('PD'), loss given default ('LGD') and

## Report of Independent Registered Public Accounting Firm to the Board of Directors and Shareholders of HSBC Holdings plc

exposure at default ('EAD'). Management applies four forward looking economic scenarios with associated weightings. The economic conditions caused by the Covid-19 pandemic are outside the bounds of historical experience used to develop ECL model methodologies, resulting in significantly greater limitations in their reliability to estimate ECLs. Significant management judgemental adjustments have been made to modelled ECL to address these limitations.

The principal considerations for our determination that performing procedures relating to ECL is a critical audit matter was the high degree of judgement used by management in determining the ECL, in particular the assumptions supporting the forward looking economic scenarios and their weightings, and the judgemental adjustments made to modelled ECL. This led to a high degree of auditor judgement and effort in performing procedures to evaluate evidence related to weighted forward looking economic scenarios and the assumptions used in determining management judgemental adjustments. The audit effort involved the use of professionals with specialised skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the Company's determination of ECL and the assumptions used. These procedures also included, among others; (i) the involvement of professionals with specialised skills and knowledge to assist in the testing of model methodologies, to assess the economic scenarios and to test the determination of credit risk ratings assigned by management to wholesale exposures; (ii) testing the completeness and accuracy of certain data that is used to determine ECL; and (iii) evaluating the disclosures made in the consolidated financial statements in relation to the measurement of ECL.

### Impairment assessment of investment in Bank of Communications Co., Limited ('BoCom')

As described in Notes 1.2(a) and 18 to the consolidated financial statements, \$21.2bn of the Company's \$26.7bn investment in associates and joint ventures represents BoCom's carrying value. At 31 December, the fair value based on the listed share price, was \$13.7bn lower than carrying value. An impairment test was performed by management using a value in use ('VIU') model to estimate the recoverable amount. The VIU model used discounted cash flow projections based on management's estimates of future earnings available to ordinary shareholders. The VIU was higher than the carrying value. Significant management judgement was required in arriving at the estimate, related to the methodology used to calculate the VIU and the significant assumptions relating to BoCom's operating income growth rate, long-term profit growth rate, long-term asset growth rate, ratio of risk-weighted assets as a percentage of total assets, cost income ratio, discount rates, expected credit losses as a percentage of customer advances, the long-term effective tax rate, and the capital and tier 1 capital adequacy ratio requirements.

The principal consideration for our determination that performing procedures relating to the impairment assessment of the investment in BoCom is a critical audit matter was the significant judgement used by management when developing the VIU of BoCom. This led to a high degree of auditor judgement and effort in performing procedures to evaluate the methodology used to calculate the VIU and management's determination of significant assumptions, related to BoCom's operating income growth rate, long-term profit growth rate, long-term asset growth rate, discount rate, ratio of risk-weighted assets as a percentage of total assets, expected credit losses as a percentage of customer advances, cost-income ratio, capital and Tier 1 capital requirements and long-term effective tax rate. In addition, the audit effort involved the use of professionals with specialised skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the financial statements. These procedures included testing the effectiveness of controls relating to management's impairment testing process, which included controls over the model and significant assumptions. These procedures also included, among others, i) evaluating management's VIU determination and underlying significant assumptions; ii) the involvement of professionals with specialised skills and knowledge to assist in developing an independent range for discount rates and evaluating the appropriateness of the methodology used to estimate the VIU; iii) testing the inputs used in the determination of the significant assumptions using external market information, third-party sources, including analyst reports, and historical publicly available BoCom information; and iv) evaluating the disclosures made in the consolidated financial statements in relation to BoCom, specifically giving consideration to the sensitivity disclosures and the variations in assumptions that would result in an impairment.

### Impairment of goodwill and intangible assets

As described in Notes 1.2(a), 1.2(n) and 21 to the consolidated financial statements, the Company had goodwill and software intangible assets with carrying values of \$5.9bn and \$4.5bn respectively at 31 December 2020. In the current period, a total impairment charge of \$1.3bn has been recorded. Impairment testing is required whenever there is an indicator of impairment and at least once a year for goodwill. This assessment is performed by comparing the recoverable amount of a cash generating unit ('CGU') with its carrying amount. The recoverable amount is the higher of the value in use ('VIU') or fair value less cost to sell. Management predominantly used VIU in its impairment tests, unless it believed that fair value less cost to sell would result in a higher recoverable amount. Indicators of impairment were identified across all CGUs, resulting in impairment charges for software intangible assets and goodwill of \$1.3bn and \$41m respectively. The VIU and fair value less cost to sell are calculated by discounting management's cash flow projections for each CGU. The significant assumptions used in the calculations are estimated future cash flows based on Board approved plans, the discount rate and long-term growth rates.

The principal consideration for our determination that performing procedures relating to the impairment assessment of goodwill and software intangible assets is a critical audit matter was the significant judgement used by management in determining the VIU of the CGUs. This led to a high degree of auditor judgement and effort in performing procedures to evaluate management's VIU and fair value less cost to sell determination and underlying significant assumptions, related to estimated future cash flows for each CGU discounted at an appropriate discount rate and long-term growth rates. In addition, the audit effort involved the use of professionals with specialised skills and knowledge to assist in developing an independent range for discount rates and assessing the appropriateness of the long-term growth rates.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the financial statements. These procedures included testing the effectiveness of controls relating to management's impairment assessment of goodwill and software intangible assets including controls over the valuation of CGUs. These procedures also included, among others; (i) testing management's process for determining VIU and fair value less cost to sell by evaluating the appropriateness of the valuation method and reasonableness of underlying significant assumptions, related to expected cash flows, discount rates and the long-term growth rates used in the discounted cash flow method; (ii) the involvement of professionals with specialised skills and knowledge to assist in evaluating the appropriateness of the discounted cash flow methodology, developing an independent range for discount rates used in the discounted cash flow method and evaluating the appropriateness of the long term growth rates used for each CGU; and (iii) evaluating the disclosures made in the consolidated financial statements in relation to impairment of goodwill.



## Valuation of financial instruments

As described in Notes 1.2(c) and 12 to the consolidated financial statements, the financial instruments held by the Company range from those that are traded on active markets with quoted prices, to more complex and bespoke positions. The valuation of financial instruments can require the use of prices or inputs which are not readily observable in the market. Where significant pricing inputs are unobservable, the financial instruments are classified as Level 3 (L3), per the IFRS 13 fair value hierarchy. Determining unobservable inputs in fair value measurement involves management judgement and is subject to a high degree of estimation uncertainty. At 31 December 2020, L3 financial instruments dependent on unobservable inputs totalled \$11.0bn of private equity including strategic investments within 'Financial assets designated and otherwise mandatorily measured at fair value through profit or loss'. There are also \$758m of similar investments in the UK pension scheme assets. The fair value of these investments is estimated using commonly accepted valuation methodologies, which are set out in the International Private Equity and Venture Capital Valuation Guidelines. The fair value of most of these investments held by the Company are based on Net Asset Value (NAV) statements provided by fund managers.

The principal considerations for our determination that performing procedures relating to valuation of these instruments is a critical audit matter are the significant management judgements in relation to determining fair valuation of the investments. This led to a high degree of auditor judgement and effort in performing procedures to evaluate management's significant assumptions, in respect of the reliability of the NAV statements for estimating fair value. Audit effort involved inspecting NAV statements and included the use of professionals with specialised skill and knowledge to assist in testing management's assessment of the reliability of these valuations.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of the controls over the valuation of financial instruments, including private equity fund valuations. These procedures also included, among others, i) testing management's process by comparing fair value movements to movements in relevant market information, such as industry indices; ii) agreeing NAV statements from fund managers to audited fund financial statements where they were available; iii) performing back testing of fair values to any recent transactions; iv) the involvement of professionals with specialised skills and knowledge in testing management's assessment of the reliability of these valuations; and v) evaluating the disclosures made in the consolidated financial statements in relation to valuation of L3 financial instruments.

/s/PricewaterhouseCoopers LLP  
London, United Kingdom  
24 February 2021

We have served as the Company's auditor since 2015

## Financial statements

	Page
Consolidated income statement	314
Consolidated statement of comprehensive income	315
Consolidated balance sheet	316
Consolidated statement of cash flows	317
Consolidated statement of changes in equity	318
HSBC Holdings income statement	320
HSBC Holdings statement of comprehensive income	320
HSBC Holdings balance sheet	321
HSBC Holdings statement of cash flows	322
HSBC Holdings statement of changes in equity	323

### Consolidated income statement for the year ended 31 December

	Notes*	2020 \$m	2019 \$m	2018 \$m
Net interest income		27,578	30,462	30,489
– interest income <sup>1,2</sup>		41,756	54,695	49,609
– interest expense <sup>3</sup>		(14,178)	(24,233)	(19,120)
Net fee income	2	11,874	12,023	12,620
– fee income		15,051	15,439	16,044
– fee expense		(3,177)	(3,416)	(3,424)
Net income from financial instruments held for trading or managed on a fair value basis	3	9,582	10,231	9,531
Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss	3	2,081	3,478	(1,488)
Changes in fair value of designated debt and related derivatives <sup>4</sup>	3	231	90	(97)
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	3	455	812	695
Gains less losses from financial investments		653	335	218
Net insurance premium income	4	10,093	10,636	10,659
Other operating income		527	2,957	960
<b>Total operating income</b>		<b>63,074</b>	<b>71,024</b>	<b>63,587</b>
Net insurance claims and benefits paid and movement in liabilities to policyholders	4	(12,645)	(14,926)	(9,807)
<b>Net operating income before change in expected credit losses and other credit impairment charges</b>		<b>50,429</b>	<b>56,098</b>	<b>53,780</b>
Change in expected credit losses and other credit impairment charges		(8,817)	(2,756)	(1,767)
<b>Net operating income</b>		<b>41,612</b>	<b>53,342</b>	<b>52,013</b>
Employee compensation and benefits	5	(18,076)	(18,002)	(17,373)
General and administrative expenses		(11,115)	(13,828)	(15,353)
Depreciation and impairment of property, plant and equipment and right-of-use assets <sup>5</sup>		(2,681)	(2,100)	(1,119)
Amortisation and impairment of intangible assets		(2,519)	(1,070)	(814)
Goodwill impairment	21	(41)	(7,349)	–
<b>Total operating expenses</b>		<b>(34,432)</b>	<b>(42,349)</b>	<b>(34,659)</b>
<b>Operating profit</b>		<b>7,180</b>	<b>10,993</b>	<b>17,354</b>
Share of profit in associates and joint ventures	18	1,597	2,354	2,536
<b>Profit before tax</b>		<b>8,777</b>	<b>13,347</b>	<b>19,890</b>
Tax expense	7	(2,678)	(4,639)	(4,865)
<b>Profit for the year</b>		<b>6,099</b>	<b>8,708</b>	<b>15,025</b>
Attributable to:				
– ordinary shareholders of the parent company		3,898	5,969	12,608
– preference shareholders of the parent company		90	90	90
– other equity holders		1,241	1,324	1,029
– non-controlling interests		870	1,325	1,298
<b>Profit for the year</b>		<b>6,099</b>	<b>8,708</b>	<b>15,025</b>
		\$	\$	\$
Basic earnings per ordinary share	9	0.19	0.30	0.63
Diluted earnings per ordinary share	9	0.19	0.30	0.63

\* For Notes on the financial statements, see page 324.

1 Interest income includes \$35,293m (2019: \$45,708m) of interest recognised on financial assets measured at amortised cost and \$5,614m (2019: \$8,259m) of interest recognised on financial assets measured at fair value through other comprehensive income.

2 Interest revenue calculated using the effective interest method comprises interest recognised on financial assets measured at either amortised cost or fair value through other comprehensive income.

3 Interest expense includes \$12,426m (2019: \$21,922m) of interest on financial instruments, excluding interest on financial liabilities held for trading or designated or otherwise mandatorily measured at fair value.

4 The debt instruments, issued for funding purposes, are designated under the fair value option to reduce an accounting mismatch.

5 Includes depreciation of the right-of-use assets of \$1,029m (2019: \$912m). Right-of-use assets have been recognised from 1 January 2019 following the adoption of IFRS 16. Comparatives have not been restated.

**Consolidated statement of comprehensive income**  
**for the year ended 31 December**

	2020	2019	2018
	\$m	\$m	\$m
Profit for the year	6,099	8,708	15,025
<b>Other comprehensive income/(expense)</b>			
<b>Items that will be reclassified subsequently to profit or loss when specific conditions are met:</b>			
Debt instruments at fair value through other comprehensive income	1,750	1,152	(243)
– fair value gains/(losses)	2,947	1,793	(168)
– fair value gains transferred to the income statement on disposal	(668)	(365)	(95)
– expected credit (recoveries)/losses recognised in the income statement	48	109	(94)
– income taxes	(577)	(385)	114
Cash flow hedges	471	206	19
– fair value gains/(losses)	(157)	551	(267)
– fair value (gains)/losses reclassified to the income statement	769	(286)	317
– income taxes	(141)	(59)	(31)
Share of other comprehensive income/(expense) of associates and joint ventures	(73)	21	(64)
– share for the year	(73)	21	(64)
Exchange differences	4,855	1,044	(7,156)
<b>Items that will not be reclassified subsequently to profit or loss:</b>			
Remeasurement of defined benefit asset/liability	834	13	(329)
– before income taxes	1,223	(17)	(388)
– income taxes	(389)	30	59
Changes in fair value of financial liabilities designated at fair value upon initial recognition arising from changes in own credit risk	167	(2,002)	2,847
– before income taxes	190	(2,639)	3,606
– income taxes	(23)	637	(759)
Equity instruments designated at fair value through other comprehensive income	212	366	(27)
– fair value gains/(losses)	212	364	(71)
– income taxes	–	2	44
Effects of hyperinflation	193	217	283
Other comprehensive income/(expense) for the period, net of tax	8,409	1,017	(4,670)
<b>Total comprehensive income for the year</b>	<b>14,508</b>	<b>9,725</b>	<b>10,355</b>
Attributable to:			
– ordinary shareholders of the parent company	12,146	6,838	8,083
– preference shareholders of the parent company	90	90	90
– other equity holders	1,241	1,324	1,029
– non-controlling interests	1,031	1,473	1,153
<b>Total comprehensive income for the year</b>	<b>14,508</b>	<b>9,725</b>	<b>10,355</b>

## Financial statements

### Consolidated balance sheet

	Notes*	At	
		31 Dec 2020 \$m	31 Dec 2019 \$m
<b>Assets</b>			
Cash and balances at central banks		304,481	154,099
Items in the course of collection from other banks		4,094	4,956
Hong Kong Government certificates of indebtedness		40,420	38,380
Trading assets	11	231,990	254,271
Financial assets designated and otherwise mandatorily measured at fair value through profit or loss	14	45,553	43,627
Derivatives	15	307,726	242,995
Loans and advances to banks		81,616	69,203
Loans and advances to customers		1,037,987	1,036,743
Reverse repurchase agreements – non-trading		230,628	240,862
Financial investments	16	490,693	443,312
Prepayments, accrued income and other assets	22	156,412	136,680
Current tax assets		954	755
Interests in associates and joint ventures	18	26,684	24,474
Goodwill and intangible assets	21	20,443	20,163
Deferred tax assets	7	4,483	4,632
<b>Total assets</b>		<b>2,984,164</b>	<b>2,715,152</b>
<b>Liabilities and equity</b>			
<b>Liabilities</b>			
Hong Kong currency notes in circulation		40,420	38,380
Deposits by banks		82,080	59,022
Customer accounts		1,642,780	1,439,115
Repurchase agreements – non-trading		111,901	140,344
Items in the course of transmission to other banks		4,343	4,817
Trading liabilities	23	75,266	83,170
Financial liabilities designated at fair value	24	157,439	164,466
Derivatives	15	303,001	239,497
Debt securities in issue	25	95,492	104,555
Accruals, deferred income and other liabilities	26	128,624	118,156
Current tax liabilities		690	2,150
Liabilities under insurance contracts	4	107,191	97,439
Provisions	27	3,678	3,398
Deferred tax liabilities	7	4,313	3,375
Subordinated liabilities	28	21,951	24,600
<b>Total liabilities</b>		<b>2,779,169</b>	<b>2,522,484</b>
<b>Equity</b>			
Called up share capital	31	10,347	10,319
Share premium account	31	14,277	13,959
Other equity instruments		22,414	20,871
Other reserves		8,833	2,127
Retained earnings		140,572	136,679
<b>Total shareholders' equity</b>		<b>196,443</b>	<b>183,955</b>
Non-controlling interests		8,552	8,713
<b>Total equity</b>		<b>204,995</b>	<b>192,668</b>
<b>Total liabilities and equity</b>		<b>2,984,164</b>	<b>2,715,152</b>

\* For Notes on the financial statements, see page 324.

The accompanying notes on pages 324 to 405 and the audited sections in: 'Risk' on pages 131 to 236 (including 'Measurement uncertainty and sensitivity analysis of ECL estimates' on pages 169 to 177), and 'Directors' remuneration report' on pages 271 to 298 form an integral part of these financial statements.

These financial statements were approved by the Board of Directors on 23 February 2021 and signed on its behalf by:

Mark E Tucker  
Group Chairman

Ewen Stevenson  
Group Chief Financial Officer

## Consolidated statement of cash flows for the year ended 31 December

	2020 \$m	2019 \$m	2018 \$m
<b>Profit before tax</b>	<b>8,777</b>	13,347	19,890
<b>Adjustments for non-cash items:</b>			
Depreciation, amortisation and impairment	5,241	10,519	1,933
Net gain from investing activities	(541)	(399)	(126)
Share of profits in associates and joint ventures	(1,597)	(2,354)	(2,536)
Gain on disposal of subsidiaries, businesses, associates and joint ventures	—	(929)	—
Change in expected credit losses gross of recoveries and other credit impairment charges	9,096	3,012	2,280
Provisions including pensions	1,164	2,423	1,944
Share-based payment expense	433	478	450
Other non-cash items included in profit before tax	(906)	(2,297)	(1,303)
Elimination of exchange differences <sup>1</sup>	(25,749)	(3,742)	4,930
<b>Changes in operating assets and liabilities</b>			
Change in net trading securities and derivatives	13,150	(18,910)	20,855
Change in loans and advances to banks and customers	(14,131)	(53,760)	(44,071)
Change in reverse repurchase agreements – non-trading	9,950	(7,390)	(25,399)
Change in financial assets designated and otherwise mandatorily measured at fair value	(1,962)	(2,308)	(1,515)
Change in other assets	(19,610)	(21,863)	6,766
Change in deposits by banks and customer accounts	226,723	79,163	(5,745)
Change in repurchase agreements – non-trading	(28,443)	(25,540)	35,882
Change in debt securities in issue	(9,075)	19,268	18,806
Change in financial liabilities designated at fair value	(6,630)	20,068	4,500
Change in other liabilities	20,323	23,124	(2,187)
Dividends received from associates	761	633	910
Contributions paid to defined benefit plans	(495)	(533)	(332)
Tax paid	(4,259)	(2,267)	(3,417)
<b>Net cash from operating activities</b>	<b>182,220</b>	29,743	32,515
Purchase of financial investments	(496,669)	(445,907)	(399,458)
Proceeds from the sale and maturity of financial investments	476,990	413,186	386,056
Net cash flows from the purchase and sale of property, plant and equipment	(1,446)	(1,343)	(1,196)
Net cash flows from purchase/(disposal) of customer and loan portfolios	1,362	1,118	(204)
Net investment in intangible assets	(2,064)	(2,289)	(1,848)
Net cash flow from acquisition and disposal of subsidiaries, businesses, associates and joint ventures	(603)	(83)	4
<b>Net cash from investing activities</b>	<b>(22,430)</b>	(35,318)	(16,646)
Issue of ordinary share capital and other equity instruments	1,497	—	6,001
Cancellation of shares	—	(1,000)	(1,998)
Net sales/(purchases) of own shares for market-making and investment purposes	(181)	141	133
Redemption of preference shares and other equity instruments	(398)	—	(6,078)
Subordinated loan capital repaid <sup>2</sup>	(3,538)	(4,210)	(4,077)
Dividends paid to shareholders of the parent company and non-controlling interests	(2,023)	(9,773)	(10,762)
<b>Net cash from financing activities</b>	<b>(4,643)</b>	(14,842)	(16,781)
<b>Net increase/(decrease) in cash and cash equivalents</b>	<b>155,147</b>	(20,417)	(912)
Cash and cash equivalents at 1 Jan	293,742	312,911	323,718
Exchange differences in respect of cash and cash equivalents	19,434	1,248	(9,895)
<b>Cash and cash equivalents at 31 Dec<sup>3</sup></b>	<b>468,323</b>	293,742	312,911
<b>Cash and cash equivalents comprise:</b>			
– cash and balances at central banks	304,481	154,099	162,843
– items in the course of collection from other banks	4,094	4,956	5,787
– loans and advances to banks of one month or less	51,788	41,626	39,460
– reverse repurchase agreements with banks of one month or less	65,086	65,370	74,702
– treasury bills, other bills and certificates of deposit less than three months	30,023	20,132	21,685
– cash collateral and net settlement accounts	17,194	12,376	14,075
– less: items in the course of transmission to other banks	(4,343)	(4,817)	(5,641)
<b>Cash and cash equivalents at 31 Dec<sup>3</sup></b>	<b>468,323</b>	293,742	312,911

Interest received was \$45,578m (2019: \$58,627m; 2018: \$45,291m), interest paid was \$17,740m (2019: \$27,384m; 2018: \$14,172m) and dividends received (excluding dividends received from associates, which are presented separately above) were \$1,158m (2019: \$2,369m; 2018: \$1,702m).

- Adjustment to bring changes between opening and closing balance sheet amounts to average rates. This is not done on a line-by-line basis, as details cannot be determined without unreasonable expense.
- Subordinated liabilities changes during the year are attributable to repayments of \$(3.5)bn (2019: \$(4.2)bn; 2018: \$(4.1)bn) of securities. Non-cash changes during the year included foreign exchange gains/(losses) of \$0.5bn (2019: \$0.6bn; 2018: \$(0.6)bn) and fair value gains/(losses) of \$1.1bn (2019: \$1.4bn; 2018: \$(1.4)bn).
- At 31 December 2020, \$41,912m (2019: \$35,735m; 2018: \$26,282m) was not available for use by HSBC, of which \$16,935m (2019: \$19,353m; 2018: \$19,755m) related to mandatory deposits at central banks.

## Financial statements

### Consolidated statement of changes in equity for the year ended 31 December

	Other reserves										
	Called up share capital and share premium	Other equity instruments	Retained earnings <sup>3,4</sup>	Financial assets at FVOCI reserve	Cash flow hedging reserve	Foreign exchange reserve	Merger and other reserves <sup>4,5</sup>	Total shareholders' equity	Non-controlling interests	Total equity	
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
<b>At 1 Jan 2020</b>	<b>24,278</b>	<b>20,871</b>	<b>136,679</b>	<b>(108)</b>	<b>(2)</b>	<b>(25,133)</b>	<b>27,370</b>	<b>183,955</b>	<b>8,713</b>	<b>192,668</b>	
Profit for the year	–	–	5,229	–	–	–	–	5,229	870	6,099	
Other comprehensive income (net of tax)	–	–	1,118	1,913	459	4,758	–	8,248	161	8,409	
– debt instruments at fair value through other comprehensive income	–	–	–	1,746	–	–	–	1,746	4	1,750	
– equity instruments designated at fair value through other comprehensive income	–	–	–	167	–	–	–	167	45	212	
– cash flow hedges	–	–	–	–	459	–	–	459	12	471	
– changes in fair value of financial liabilities designated at fair value upon initial recognition arising from changes in own credit risk	–	–	167	–	–	–	–	167	–	167	
– remeasurement of defined benefit asset/liability	–	–	831	–	–	–	–	831	3	834	
– share of other comprehensive income of associates and joint ventures	–	–	(73)	–	–	–	–	(73)	–	(73)	
– effects of hyperinflation	–	–	193	–	–	–	–	193	–	193	
– exchange differences	–	–	–	–	–	4,758	–	4,758	97	4,855	
<b>Total comprehensive income for the year</b>	<b>–</b>	<b>–</b>	<b>6,347</b>	<b>1,913</b>	<b>459</b>	<b>4,758</b>	<b>–</b>	<b>13,477</b>	<b>1,031</b>	<b>14,508</b>	
Shares issued under employee remuneration and share plans	346	–	(339)	–	–	–	–	7	–	7	
Capital securities issued <sup>1</sup>	–	1,500	(3)	–	–	–	–	1,497	–	1,497	
Dividends to shareholders	–	–	(1,331)	–	–	–	–	(1,331)	(692)	(2,023)	
Redemption of securities <sup>2</sup>	–	–	(1,450)	–	–	–	–	(1,450)	–	(1,450)	
Transfers <sup>6</sup>	–	–	435	–	–	–	(435)	–	–	–	
Cost of share-based payment arrangements	–	–	434	–	–	–	–	434	–	434	
Other movements	–	43	(200)	11	–	–	–	(146)	(500)	(646)	
<b>At 31 Dec 2020</b>	<b>24,624</b>	<b>22,414</b>	<b>140,572</b>	<b>1,816</b>	<b>457</b>	<b>(20,375)</b>	<b>26,935</b>	<b>196,443</b>	<b>8,552</b>	<b>204,995</b>	
At 1 Jan 2019	23,789	22,367	138,191	(1,532)	(206)	(26,133)	29,777	186,253	7,996	194,249	
Profit for the year	–	–	7,383	–	–	–	–	7,383	1,325	8,708	
Other comprehensive income (net of tax)	–	–	(1,759)	1,424	204	1,000	–	869	148	1,017	
– debt instruments at fair value through other comprehensive income	–	–	–	1,146	–	–	–	1,146	6	1,152	
– equity instruments designated at fair value through other comprehensive income	–	–	–	278	–	–	–	278	88	366	
– cash flow hedges	–	–	–	–	204	–	–	204	2	206	
– changes in fair value of financial liabilities designated at fair value upon initial recognition arising from changes in own credit risk	–	–	(2,002)	–	–	–	–	(2,002)	–	(2,002)	
– remeasurement of defined benefit asset/liability	–	–	5	–	–	–	–	5	8	13	
– share of other comprehensive income of associates and joint ventures	–	–	21	–	–	–	–	21	–	21	
– effects of hyperinflation	–	–	217	–	–	–	–	217	–	217	
– exchange differences	–	–	–	–	–	1,000	–	1,000	44	1,044	
<b>Total comprehensive income for the year</b>	<b>–</b>	<b>–</b>	<b>5,624</b>	<b>1,424</b>	<b>204</b>	<b>1,000</b>	<b>–</b>	<b>8,252</b>	<b>1,473</b>	<b>9,725</b>	
Shares issued under employee remuneration and share plans	557	–	(495)	–	–	–	–	62	–	62	
Shares issued in lieu of dividends and amounts arising thereon	–	–	2,687	–	–	–	–	2,687	–	2,687	
Dividends to shareholders	–	–	(11,683)	–	–	–	–	(11,683)	(777)	(12,460)	
Redemption of securities <sup>2</sup>	–	(1,496)	(12)	–	–	–	–	(1,508)	–	(1,508)	
Transfers <sup>6</sup>	–	–	2,475	–	–	–	(2,475)	–	–	–	
Cost of share-based payment arrangements	–	–	478	–	–	–	–	478	–	478	
Cancellation of shares <sup>7</sup>	(68)	–	(1,000)	–	–	–	68	(1,000)	–	(1,000)	
Other movements	–	–	414	–	–	–	–	414	21	435	
<b>At 31 Dec 2019</b>	<b>24,278</b>	<b>20,871</b>	<b>136,679</b>	<b>(108)</b>	<b>(2)</b>	<b>(25,133)</b>	<b>27,370</b>	<b>183,955</b>	<b>8,713</b>	<b>192,668</b>	

**Consolidated statement of changes in equity (continued)**  
**for the year ended 31 December**

	Called up share capital and share premium	Other equity instruments	Retained earnings <sup>3,4</sup>	Other reserves				Total share-holders' equity	Non-controlling interests	Total equity
				Financial assets at FVOCI reserve	Cash flow hedging reserve	Foreign exchange reserve	Merger and other reserves <sup>5</sup>			
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
At 1 Jan 2018	20,337	22,250	139,414	(1,371)	(222)	(19,072)	27,308	188,644	7,580	196,224
Profit for the year	—	—	13,727	—	—	—	—	13,727	1,298	15,025
Other comprehensive income (net of tax)	—	—	2,765	(245)	16	(7,061)	—	(4,525)	(145)	(4,670)
– debt instruments at fair value through other comprehensive income	—	—	—	(245)	—	—	—	(245)	2	(243)
– equity instruments designated at fair value through other comprehensive income	—	—	—	—	—	—	—	—	(27)	(27)
– cash flow hedges	—	—	—	—	16	—	—	16	3	19
– changes in fair value of financial liabilities designated at fair value due to movement in own credit risk	—	—	2,847	—	—	—	—	2,847	—	2,847
– remeasurement of defined benefit asset/liability	—	—	(301)	—	—	—	—	(301)	(28)	(329)
– share of other comprehensive income of associates and joint ventures	—	—	(64)	—	—	—	—	(64)	—	(64)
– effects of hyperinflation	—	—	283	—	—	—	—	283	—	283
– exchange differences	—	—	—	—	—	(7,061)	—	(7,061)	(95)	(7,156)
Total comprehensive income for the year	—	—	16,492	(245)	16	(7,061)	—	9,202	1,153	10,355
Shares issued under employee remuneration and share plans	721	—	(610)	—	—	—	—	111	—	111
Shares issued in lieu of dividends and amounts arising thereon	—	—	1,494	—	—	—	—	1,494	—	1,494
Capital securities issued <sup>1</sup>	—	5,968	—	—	—	—	—	5,968	—	5,968
Dividends to shareholders	—	—	(11,547)	—	—	—	—	(11,547)	(710)	(12,257)
Redemption of securities <sup>2</sup>	—	(5,851)	(237)	—	—	—	—	(6,088)	—	(6,088)
Transfers <sup>6</sup>	—	—	(2,200)	—	—	—	2,200	—	—	—
Cost of share-based payment arrangements	—	—	450	—	—	—	—	450	—	450
Cancellation of shares <sup>7</sup>	2,731	—	(4,998)	—	—	—	269	(1,998)	—	(1,998)
Other movements	—	—	(67)	84	—	—	—	17	(27)	(10)
At 31 Dec 2018	23,789	22,367	138,191	(1,532)	(206)	(26,133)	29,777	186,253	7,996	194,249

- During 2020 HSBC Holdings issued \$1,500m of perpetual subordinated contingent convertible securities. In 2018, HSBC Holdings issued \$4,150m, £1,000m and SGD750m of perpetual subordinated contingent convertible capital securities on which there were \$60m of external issuance costs, \$49m of intra-Group issuance costs and \$11m of tax benefits. Under IFRSs these issuance costs and tax benefits are classified as equity.
- During 2020, HSBC Holdings called \$1,450m 6.20% non-cumulative US dollar preference shares. For further details, see Note 31 in the Annual Report and Accounts 2020. In 2019, HSBC Holdings redeemed \$1,500m 5.625% perpetual subordinated capital securities on which there were \$12m of external issuance costs. In 2018, HSBC Holdings redeemed \$2,200m 8.125% perpetual subordinated capital securities and its \$3,800m 8.000% perpetual subordinated capital securities, Series 2, on which there were \$172m of external issuance costs and \$23m of intra-Group issuance costs wound down. Under IFRSs external issuance costs are classified as equity.
- At 31 December 2020, retained earnings included 509,825,249 treasury shares (2019: 432,108,782; 2018: 379,926,645). In addition, treasury shares are also held within HSBC's Insurance business retirement funds for the benefit of policyholders or beneficiaries within employee trusts for the settlement of shares expected to be delivered under employee share schemes or bonus plans, and the market-making activities in Global Markets.
- Cumulative goodwill amounting to \$5,138m has been charged against reserves in respect of acquisitions of subsidiaries prior to 1 January 1998, including \$3,469m charged against the merger reserve arising on the acquisition of HSBC Bank plc. The balance of \$1,669m has been charged against retained earnings.
- Statutory share premium relief under section 131 of the Companies Act 1985 (the 'Act') was taken in respect of the acquisition of HSBC Bank plc in 1992, HSBC Continental Europe in 2000 and HSBC Finance Corporation in 2003, and the shares issued were recorded at their nominal value only. In HSBC's consolidated financial statements, the fair value differences of \$8,290m in respect of HSBC Continental Europe and \$12,768m in respect of HSBC Finance Corporation were recognised in the merger reserve. The merger reserve created on the acquisition of HSBC Finance Corporation subsequently became attached to HSBC Overseas Holdings (UK) Limited ('HOHU'), following a number of intra-Group reorganisations. During 2009, pursuant to section 131 of the Companies Act 1985, statutory share premium relief was taken in respect of the rights issue and \$15,796m was recognised in the merger reserve.
- Permitted transfers from the merger reserve to retained earnings were made when the investment in HSBC Overseas Holdings (UK) Limited was previously impaired. In 2018, a part reversal of this impairment resulted in a transfer from retained earnings back to the merger reserve of \$2,200m. In 2019, an additional impairment of \$2,475m was recognised and a permitted transfer of this amount was made from the merger reserve to retained earnings. During 2020, a further impairment of \$435m was recognised and a permitted transfer of this amount was made from the merger reserve to retained earnings.
- For further details, see Note 31 in the Annual Report and Accounts 2020. In August 2019, HSBC announced a share buy-back of up to \$1.0bn, which was completed in September 2019. In May 2018, HSBC announced a share buy-back of up to \$2.0bn, which was completed in August 2018.

## Financial statements

### HSBC Holdings income statement

for the year ended 31 December

	Notes*	2020 \$m	2019 \$m	2018 \$m
Net interest expense		(2,632)	(2,554)	(1,112)
– interest income		473	1,249	2,193
– interest expense		(3,105)	(3,803)	(3,305)
Fee (expense)/income		(12)	(2)	0
Net income from financial instruments held for trading or managed on a fair value basis	3	801	1,477	245
Changes in fair value of designated debt and related derivatives <sup>1</sup>	3	(326)	(360)	(77)
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	3	1,141	1,659	43
Gains less losses from financial investments		–	–	4
Dividend income from subsidiaries <sup>2</sup>		8,156	15,117	55,304
Other operating income		1,889	1,293	960
<b>Total operating income</b>		<b>9,017</b>	<b>16,630</b>	<b>55,367</b>
Employee compensation and benefits	5	(56)	(37)	(37)
General and administrative expenses		(4,276)	(4,772)	(4,507)
Impairment of subsidiaries		(435)	(2,562)	2,064
<b>Total operating expenses</b>		<b>(4,767)</b>	<b>(7,371)</b>	<b>(2,480)</b>
<b>Profit before tax</b>		<b>4,250</b>	<b>9,259</b>	<b>52,887</b>
Tax (charge)/credit		(165)	(218)	(62)
<b>Profit for the year</b>		<b>4,085</b>	<b>9,041</b>	<b>52,825</b>

\* For Notes on the financial statements, see page 324.

1 The debt instruments, issued for funding purposes, are designated under the fair value option to reduce an accounting mismatch.

2 The 2018 year included \$44,893m (2020 and 2019: nil) return on capital from HSBC Finance (Netherlands) resulting from restructuring the Group's Asia operation to meet resolution and recovery requirements.

### HSBC Holdings statement of comprehensive income

for the year ended 31 December

	2020 \$m	2019 \$m	2018 \$m
Profit for the year	4,085	9,041	52,825
<b>Other comprehensive income/(expense)</b>			
<b>Items that will not be reclassified subsequently to profit or loss:</b>			
Changes in fair value of financial liabilities designated at fair value upon initial recognition arising from changes in own credit risk	176	(396)	865
– before income taxes	176	(573)	1,090
– income taxes	–	177	(225)
<b>Other comprehensive income/(expense) for the year, net of tax</b>	<b>176</b>	<b>(396)</b>	<b>865</b>
<b>Total comprehensive income for the year</b>	<b>4,261</b>	<b>8,645</b>	<b>53,690</b>



## HSBC Holdings balance sheet

	Notes*	31 Dec 2020 \$m	31 Dec 2019 \$m
<b>Assets</b>			
Cash and balances with HSBC undertakings		2,913	2,382
Financial assets with HSBC undertakings designated and otherwise mandatorily measured at fair value		65,253	61,964
Derivatives	15	4,698	2,002
Loans and advances to HSBC undertakings		10,443	10,218
Financial investments		17,485	16,106
Prepayments, accrued income and other assets		1,445	559
Current tax assets		–	203
Investments in subsidiaries		160,660	161,473
Intangible assets		276	333
<b>Total assets at 31 Dec</b>		<b>263,173</b>	<b>255,240</b>
<b>Liabilities and equity</b>			
<b>Liabilities</b>			
Amounts owed to HSBC undertakings		330	464
Financial liabilities designated at fair value	24	25,664	30,303
Derivatives	15	3,060	2,021
Debt securities in issue	25	64,029	56,844
Accruals, deferred income and other liabilities		4,865	1,915
Subordinated liabilities	28	17,916	18,361
Current tax liabilities		71	–
Deferred tax liabilities		438	288
<b>Total liabilities</b>		<b>116,373</b>	<b>110,196</b>
<b>Equity</b>			
Called up share capital	31	10,347	10,319
Share premium account		14,277	13,959
Other equity instruments		22,414	20,743
Merger and other reserves		34,757	37,539
Retained earnings		65,005	62,484
<b>Total equity</b>		<b>146,800</b>	<b>145,044</b>
<b>Total liabilities and equity at 31 Dec</b>		<b>263,173</b>	<b>255,240</b>

\* For Notes on the financial statements, see page 324.

The accompanying notes on pages 324 to 405 and the audited sections in: 'Risk' on pages 131 to 236 (including 'Measurement uncertainty and sensitivity analysis of ECL estimates' on pages 169 to 177), and 'Directors' remuneration report' on pages 271 to 298 form an integral part of these financial statements.

These financial statements were approved by the Board of Directors on 23 February 2021 and signed on its behalf by:

**Mark E Tucker**  
Group Chairman

**Ewen Stevenson**  
Group Chief Financial Officer

**HSBC Holdings statement of cash flows**  
**for the year ended 31 December**

	2020	2019	2018
	\$m	\$m	\$m
<b>Profit before tax</b>	<b>4,250</b>	9,259	52,887
Adjustments for non-cash items	<b>442</b>	2,657	(46,878)
– depreciation, amortisation and impairment/expected credit losses	<b>87</b>	72	70
– share-based payment expense	<b>1</b>	1	–
– other non-cash items included in profit before tax <sup>1</sup>	<b>354</b>	2,584	(46,948)
<b>Changes in operating assets and liabilities</b>			
Change in loans to HSBC undertakings	<b>(327)</b>	41,471	7,293
Change in financial assets with HSBC undertakings designated and otherwise mandatorily measured at fair value	<b>(3,289)</b>	(38,451)	(7,305)
Change in net trading securities and net derivatives	<b>(1,657)</b>	(1,433)	758
Change in other assets	<b>(633)</b>	(437)	231
Change in financial investments	<b>449</b>	(70)	–
Change in debt securities in issue	<b>3,063</b>	1,899	(1,094)
Change in financial liabilities designated at fair value	<b>1,258</b>	1,227	(740)
Change in other liabilities	<b>1,366</b>	437	(1,883)
Tax received	<b>270</b>	459	301
<b>Net cash from operating activities</b>	<b>5,192</b>	17,018	3,570
Purchase of financial investments	<b>(11,652)</b>	(19,293)	–
Proceeds from the sale and maturity of financial investments	<b>9,342</b>	6,755	–
Net cash outflow from acquisition of or increase in stake of subsidiaries	<b>(2,558)</b>	(3,721)	(8,992)
Repayment of capital from subsidiaries	<b>1,516</b>	–	3,627
Net investment in intangible assets	<b>(33)</b>	(44)	(121)
<b>Net cash from investing activities</b>	<b>(3,385)</b>	(16,303)	(5,486)
Issue of ordinary share capital and other equity instruments	<b>1,846</b>	500	6,652
Redemption of other equity instruments	<b>–</b>	–	(6,093)
Cancellation of shares	<b>–</b>	(1,006)	(1,998)
Subordinated loan capital repaid	<b>(1,500)</b>	(4,107)	(1,972)
Debt securities issued	<b>15,951</b>	10,817	19,513
Debt securities repaid	<b>(16,577)</b>	–	(1,025)
Dividends paid on ordinary shares	<b>–</b>	(7,582)	(8,693)
Dividends paid to holders of other equity instruments	<b>(1,331)</b>	(1,414)	(1,360)
<b>Net cash from financing activities</b>	<b>(1,611)</b>	(2,792)	5,024
<b>Net increase/(decrease) in cash and cash equivalents</b>	<b>196</b>	(2,077)	3,108
Cash and cash equivalents at 1 January	<b>5,980</b>	8,057	4,949
<b>Cash and cash equivalents at 31 Dec</b>	<b>6,176</b>	5,980	8,057
Cash and cash equivalents comprise:			
– cash at bank with HSBC undertakings	<b>2,913</b>	2,382	3,509
– loans and advances to banks of one month or less	<b>249</b>	102	4,548
– treasury and other eligible bills	<b>3,014</b>	3,496	–

Interest received was \$1,952m (2019: \$2,216m; 2018: \$2,116m), interest paid was \$3,166m (2019: \$3,819m; 2018: \$3,379m) and dividends received were \$8,156m (2019: \$15,117m; 2018: \$10,411m).

<sup>1</sup> The 2018 year included \$44,893m (2020 and 2019: nil) return on capital from HSBC Finance (Netherlands) resulting from restructuring the Group's Asia operation to meet resolution and recovery requirements.

## HSBC Holdings statement of changes in equity for the year ended 31 December

	Called up share capital	Share premium	Other equity instruments	Retained earnings <sup>1</sup>	Other reserves		Total shareholders' equity
					Financial assets at FVOCI reserve	Merger and other reserves	
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
At 1 Jan 2020	10,319	13,959	20,743	62,484	–	37,539	145,044
Profit for the year	–	–	–	4,085	–	–	4,085
Other comprehensive income (net of tax)	–	–	–	176	–	–	176
– changes in fair value of financial liabilities designated at fair value due to movement in own credit risk	–	–	–	176	–	–	176
<b>Total comprehensive income for the year</b>	–	–	–	4,261	–	–	4,261
Shares issued under employee share plans	28	318	–	2,540	–	(2,347)	539
Capital securities issued	–	–	1,500	(15)	–	–	1,485
Dividends to shareholders	–	–	–	(1,331)	–	–	(1,331)
Redemption of capital securities	–	–	–	(1,450)	–	–	(1,450)
Transfers <sup>4</sup>	–	–	–	435	–	(435)	–
Other movements <sup>5</sup>	–	–	171	(1,919)	–	–	(1,748)
<b>At 31 Dec 2020</b>	<b>10,347</b>	<b>14,277</b>	<b>22,414</b>	<b>65,005</b>	<b>–</b>	<b>34,757</b>	<b>146,800</b>
At 1 Jan 2019	10,180	13,609	22,231	61,434	–	39,899	147,353
Profit for the year	–	–	–	9,041	–	–	9,041
Other comprehensive income (net of tax)	–	–	–	(396)	–	–	(396)
– changes in fair value of financial liabilities designated at fair value due to movement in own credit risk	–	–	–	(396)	–	–	(396)
<b>Total comprehensive income for the year</b>	–	–	–	8,645	–	–	8,645
Shares issued under employee share plans	36	521	–	(56)	–	–	501
Shares issued in lieu of dividends and amounts arising thereon	171	(171)	–	2,687	–	–	2,687
Cancellation of shares <sup>2</sup>	(68)	–	–	(1,000)	–	68	(1,000)
Capital securities issued	–	–	–	–	–	–	–
Dividends to shareholders	–	–	–	(11,683)	–	–	(11,683)
Redemption of capital securities	–	–	(1,488)	(20)	–	–	(1,508)
Transfers <sup>4</sup>	–	–	–	2,475	–	(2,475)	–
Other movements	–	–	–	2	–	47	49
<b>At 31 Dec 2019</b>	<b>10,319</b>	<b>13,959</b>	<b>20,743</b>	<b>62,484</b>	<b>–</b>	<b>37,539</b>	<b>145,044</b>
At 31 Dec 2017	10,160	10,177	22,107	23,903	59	37,381	103,787
Impact on transition to IFRS 9	–	–	–	949	(59)	–	890
At 1 Jan 2018	10,160	10,177	22,107	24,852	–	37,381	104,677
Profit for the year	–	–	–	52,825	–	–	52,825
Other comprehensive income (net of tax)	–	–	–	865	–	–	865
– changes in fair value of financial liabilities designated at fair value due to movement in own credit risk	–	–	–	865	–	–	865
<b>Total comprehensive income for the year</b>	–	–	–	53,690	–	–	53,690
Shares issued under employee share plans	42	679	–	–	–	–	721
Shares issued in lieu of dividends and amounts arising thereon	83	(83)	–	1,494	–	–	1,494
Cancellation of shares <sup>3</sup>	(105)	2,836	–	(4,998)	–	269	(1,998)
Capital securities issued	–	–	5,967	–	–	–	5,967
Dividends to shareholders	–	–	–	(11,547)	–	–	(11,547)
Redemption of capital securities	–	–	(5,843)	(236)	–	–	(6,079)
Transfers <sup>4</sup>	–	–	–	(2,200)	–	2,200	–
Other movements	–	–	–	379	–	49	428
<b>At 31 Dec 2018</b>	<b>10,180</b>	<b>13,609</b>	<b>22,231</b>	<b>61,434</b>	<b>–</b>	<b>39,899</b>	<b>147,353</b>

Dividends per ordinary share at 31 December 2020 were nil (2019: \$0.51; 2018: \$0.51).

- At 31 December 2020, retained earnings included 326,766,253 (\$2,521m) treasury shares (2019: 326,191,804 (\$2,543m); 2018: 326,503,319 (\$2,546m)).
- In August 2019, HSBC announced a share buy-back of up to \$1.0bn, which was completed in September 2019.
- The 2018 year included a re-presentation of the cancellation of shares to retained earnings and capital redemption reserve in respect of the 2018 share buy-back, under which retained earnings has been reduced by \$3,000m, share premium increased by \$2,836m and other reserves increased by \$164m.
- At 31 December 2020, an impairment of \$435m of HSBC Overseas Holdings (UK) Limited (2019: \$2,475m) was recognised and a permitted transfer of \$435m (2019: \$2,475m) was made from the merger reserve to retained earnings. In 2018, a part reversal of the impairment of HSBC Overseas Holdings (UK) Limited resulted in a transfer from retained earnings back to the merger reserve of \$2,200m.
- Includes an adjustment to retained earnings for a repayment of capital by a subsidiary of \$1,650m, which had been recognised as dividend income in 2019.

## Notes on the financial statements

	Page		Page
1	324	21	374
2	335	22	377
3	336	23	377
4	336	24	377
5	337	25	378
6	343	26	378
7	343	27	379
8	345	28	380
9	346	29	382
10	347	30	387
11	349	31	388
12	350	32	390
13	357	33	391
14	358	34	391
15	359	35	395
16	364	36	397
17	366	37	397
18	367	38	405
19	371		
20	372		

### 1 Basis of preparation and significant accounting policies

#### 1.1 Basis of preparation

##### (a) Compliance with International Financial Reporting Standards

The consolidated financial statements of HSBC and the separate financial statements of HSBC Holdings comply with international accounting standards in conformity with the requirements of the Companies Act 2006 and have also applied international financial reporting standards adopted pursuant to Regulation (EC) No 1606/2002 as it applies in the European Union. These financial statements are also prepared in accordance with International Financial Reporting Standards ('IFRSs') as issued by the International Accounting Standards Board ('IASB'), including interpretations issued by the IFRS Interpretations Committee, as there are no applicable differences from IFRSs as issued by the IASB for the periods presented. 'Interest Rate Benchmark Reform – Phase 2', which amends IFRS 9, IAS 39 'Financial Instruments,' IFRS 7 'Financial Instruments,' IFRS 4 'Insurance Contracts' and IFRS 16 'Leases', was adopted for use in the UK and the EU in January 2021 and has been early adopted as set out below. Therefore, there were no unendorsed standards effective for the year ended 31 December 2020 affecting these consolidated and separate financial statements.

##### Standards adopted during the year ended 31 December 2020

###### *Interest Rate Benchmark Reform – Phase 2*

Interest Rate Benchmark Reform Phase 2: Amendments to IFRS 9, IAS 39, IFRS 7, IFRS 4 and IFRS 16 issued in August 2020 represents the second phase of the IASB's project on the effects of interest rate benchmark reform, addressing issues affecting financial statements when changes are made to contractual cash flows and hedging relationships as a result of the reform.

Under these amendments, changes made to a financial instrument measured at other than fair value through profit or loss that are economically equivalent and required by interest rate benchmark reform do not result in the derecognition or a change in the carrying amount of the financial instrument, but instead require the effective interest rate to be updated to reflect the change in the interest rate benchmark. In addition, hedge accounting will not be discontinued solely because of the replacement of the interest rate benchmark if the hedge meets other hedge accounting criteria.

These amendments apply from 1 January 2021 with early adoption permitted. HSBC adopted the amendments from 1 January 2020 and made the additional disclosures as required by the amendments. Further information is included in Note 15 and in 'Financial instruments impacted by Ibor reform' on page 143.

###### *Other changes*

In addition, HSBC adopted a number of interpretations and amendments to standards, which had an insignificant effect on the consolidated financial statements of HSBC and the separate financial statements of HSBC Holdings.

In 2018, HSBC adopted IFRS 9 and made voluntary presentation changes, including to certain financial liabilities, which contain both deposit and derivative components, and to cash collateral, margin and settlement accounts. The impact of this is included in the HSBC Holdings statement of changes in equity for that year end.

Other than as noted above, accounting policies have been consistently applied.

##### (b) Differences between IFRSs and Hong Kong Financial Reporting Standards

There are no significant differences between IFRSs and Hong Kong Financial Reporting Standards in terms of their application to HSBC, and consequently there would be no significant differences had the financial statements been prepared in accordance with Hong Kong Financial Reporting Standards. The 'Notes on the financial statements', taken together with the 'Report of the Directors', include the aggregate of all disclosures necessary to satisfy IFRSs and Hong Kong reporting requirements.

## **(c) Future accounting developments**

### **Minor amendments to IFRSs**

The IASB has not published any minor amendments effective from 1 January 2021 that are applicable to HSBC. However, the IASB has published a number of minor amendments to IFRSs that are effective from 1 January 2022 and 1 January 2023. HSBC expects they will have an insignificant effect, when adopted, on the consolidated financial statements of HSBC and the separate financial statements of HSBC Holdings.

### **New IFRSs**

#### ***IFRS 17 'Insurance Contracts'***

IFRS 17 'Insurance Contracts' was issued in May 2017, with amendments to the standard issued in June 2020. The standard sets out the requirements that an entity should apply in accounting for insurance contracts it issues and reinsurance contracts it holds. Following the amendments, IFRS 17 is effective from 1 January 2023. The Group is in the process of implementing IFRS 17. Industry practice and interpretation of the standard are still developing. Therefore, the likely numerical impact of its implementation remains uncertain. However, we have the following expectations as to the impact compared with the Group's current accounting policy for insurance contracts, which is set out in policy 1.2(j) below:

- Under IFRS 17, there will be no PVIF asset recognised; rather the estimated future profit will be included in the measurement of the insurance contract liability as the contractual service margin ('CSM') and gradually recognised in revenue as services are provided over the duration of the insurance contract. The PVIF asset will be eliminated to equity on transition, together with other adjustments to assets and liabilities to reflect IFRS 17 measurement requirements and any consequential amendments to financial assets in the scope of IFRS 9;
- IFRS 17 requires increased use of current market values in the measurement of insurance liabilities. Depending on the measurement model, changes in market conditions for certain products (measured under the General Measurement Approach) are immediately recognised in profit or loss, while for other products (measured under the Variable Fee Approach) they will be included in the measurement of CSM.
- In accordance with IFRS 17, directly attributable costs will be included in the results of insurance services as profit is recognised over the duration of insurance contracts. Costs that are not directly attributable will remain in operating expenses. This will result in a reduction in operating expenses compared with the current accounting policy.

## **(d) Foreign currencies**

HSBC's consolidated financial statements are presented in US dollars because the US dollar and currencies linked to it form the major currency bloc in which HSBC transacts and funds its business. The US dollar is also HSBC Holdings' functional currency because the US dollar and currencies linked to it are the most significant currencies relevant to the underlying transactions, events and conditions of its subsidiaries, as well as representing a significant proportion of its funds generated from financing activities.

Transactions in foreign currencies are recorded at the rate of exchange on the date of the transaction. Assets and liabilities denominated in foreign currencies are translated at the rate of exchange at the balance sheet date, except non-monetary assets and liabilities measured at historical cost, which are translated using the rate of exchange at the initial transaction date. Exchange differences are included in other comprehensive income or in the income statement depending on where the gain or loss on the underlying item is recognised. In the consolidated financial statements, the assets and liabilities of branches, subsidiaries, joint ventures and associates whose functional currency is not US dollars are translated into the Group's presentation currency at the rate of exchange at the balance sheet date, while their results are translated into US dollars at the average rates of exchange for the reporting period. Exchange differences arising are recognised in other comprehensive income. On disposal of a foreign operation, exchange differences previously recognised in other comprehensive income are reclassified to the income statement.

## **(e) Presentation of information**

Certain disclosures required by IFRSs have been included in the sections marked as ('Audited') in the *Annual Report and Accounts 2020* as follows:

- disclosures concerning the nature and extent of risks relating to insurance contracts and financial instruments are included in the 'Risk review' on pages 131 to 236;
- the 'Own funds disclosure' included in the 'Risk review' on page 216; and
- disclosures relating to HSBC's securitisation activities and structured products are included in the 'Risk review' on pages 131 to 236.

HSBC follows the UK Finance Disclosure Code ('the UKF Disclosure Code'). The UKF Disclosure Code aims to increase the quality and comparability of UK banks' disclosures and sets out five disclosure principles together with supporting guidance agreed in 2010. In line with the principles of the UKF Disclosure Code, HSBC assesses good practice recommendations issued from time to time by relevant regulators and standard setters, and will assess the applicability and relevance of such guidance, enhancing disclosures where appropriate.

## **(f) Critical accounting estimates and judgements**

The preparation of financial information requires the use of estimates and judgements about future conditions. In view of the inherent uncertainties and the high level of subjectivity involved in the recognition or measurement of items, highlighted as the 'critical accounting estimates and judgements' in section 1.2 below (including impairment of non-financial assets for the first time), it is possible that the outcomes in the next financial year could differ from those on which management's estimates are based. This could result in materially different estimates and judgements from those reached by management for the purposes of these financial statements. Management's selection of HSBC's accounting policies that contain critical estimates and judgements reflects the materiality of the items to which the policies are applied and the high degree of judgement and estimation uncertainty involved.

## **(g) Segmental analysis**

HSBC's Chief Operating Decision Maker is the Group Chief Executive, who is supported by the rest of the Group Executive Committee ('GEC'), which operates as a general management committee under the direct authority of the Board. Operating segments are reported in a manner consistent with the internal reporting provided to the Group Chief Executive and the GEC.

## Notes on the financial statements

Measurement of segmental assets, liabilities, income and expenses is in accordance with the Group's accounting policies. Segmental income and expenses include transfers between segments, and these transfers are conducted at arm's length. Shared costs are included in segments on the basis of the actual recharges made.

### (h) Going concern

The financial statements are prepared on a going concern basis, as the Directors are satisfied that the Group and parent company have the resources to continue in business for the foreseeable future. In making this assessment, the Directors have considered a wide range of information relating to present and future conditions, including future projections of profitability, cash flows, capital requirements and capital resources. These considerations include stressed scenarios that reflect the increasing uncertainty that the global Covid-19 outbreak has had on HSBC's operations, as well as considering potential impacts from other top and emerging risks, and the related impact on profitability, capital and liquidity.

## 1.2 Summary of significant accounting policies

### (a) Consolidation and related policies

#### Investments in subsidiaries

Where an entity is governed by voting rights, HSBC consolidates when it holds – directly or indirectly – the necessary voting rights to pass resolutions by the governing body. In all other cases, the assessment of control is more complex and requires judgement of other factors, including having exposure to variability of returns, power to direct relevant activities, and whether power is held as agent or principal.

Business combinations are accounted for using the acquisition method. The amount of non-controlling interest is measured either at fair value or at the non-controlling interest's proportionate share of the acquiree's identifiable net assets. This election is made for each business combination.

HSBC Holdings' investments in subsidiaries are stated at cost less impairment losses.

#### Goodwill

Goodwill is allocated to cash-generating units ('CGUs') for the purpose of impairment testing, which is undertaken at the lowest level at which goodwill is monitored for internal management purposes. HSBC's CGUs are based on geographical regions subdivided by global business, except for Global Banking and Markets, for which goodwill is monitored on a global basis.

Impairment testing is performed at least once a year, or whenever there is an indication of impairment, by comparing the recoverable amount of a CGU with its carrying amount.

Goodwill is included in a disposal group if the disposal group is a CGU to which goodwill has been allocated or it is an operation within such a CGU. The amount of goodwill included in a disposal group is measured on the basis of the relative values of the operation disposed of and the portion of the CGU retained.

#### Critical accounting estimates and judgements

The review of goodwill and non-financial assets (see Note 1.2(n)) for impairment reflects management's best estimate of the future cash flows of the CGUs and the rates used to discount these cash flows, both of which are subject to uncertain factors as follows:

Judgements	Estimates
<ul style="list-style-type: none"><li>The accuracy of forecast cash flows is subject to a high degree of uncertainty in volatile market conditions. Where such circumstances are determined to exist, management re-tests goodwill for impairment more frequently than once a year when indicators of impairment exist. This ensures that the assumptions on which the cash flow forecasts are based continue to reflect current market conditions and management's best estimate of future business prospects</li></ul>	<ul style="list-style-type: none"><li>The future cash flows of the CGUs are sensitive to the cash flows projected for the periods for which detailed forecasts are available and to assumptions regarding the long-term pattern of sustainable cash flows thereafter. Forecasts are compared with actual performance and verifiable economic data, but they reflect management's view of future business prospects at the time of the assessment</li><li>The rates used to discount future expected cash flows can have a significant effect on their valuation, and are based on the costs of capital assigned to individual CGUs. The cost of capital percentage is generally derived from a capital asset pricing model, which incorporates inputs reflecting a number of financial and economic variables, including the risk-free interest rate in the country concerned and a premium for the risk of the business being evaluated. These variables are subject to fluctuations in external market rates and economic conditions beyond management's control</li><li>Key assumptions used in estimating goodwill and non-financial asset impairment are described in Note 21</li></ul>

#### HSBC sponsored structured entities

HSBC is considered to sponsor another entity if, in addition to ongoing involvement with the entity, it had a key role in establishing that entity or in bringing together relevant counterparties so the transaction that is the purpose of the entity could occur. HSBC is generally not considered a sponsor if the only involvement with the entity is merely administrative.

#### Interests in associates and joint arrangements

Joint arrangements are investments in which HSBC, together with one or more parties, has joint control. Depending on HSBC's rights and obligations, the joint arrangement is classified as either a joint operation or a joint venture. HSBC classifies investments in entities over which it has significant influence, and that are neither subsidiaries nor joint arrangements, as associates.

HSBC recognises its share of the assets, liabilities and results in a joint operation. Investments in associates and interests in joint ventures are recognised using the equity method. The attributable share of the results and reserves of joint ventures and associates is included in the consolidated financial statements of HSBC based on either financial statements made up to 31 December or pro-rated amounts adjusted for any material transactions or events occurring between the date the financial statements are available and 31 December.

Investments in associates and joint ventures are assessed at each reporting date and tested for impairment when there is an indication that the investment may be impaired. Goodwill on acquisitions of interests in joint ventures and associates is not tested separately for impairment, but is assessed as part of the carrying amount of the investment.

## Critical accounting estimates and judgements

The most significant critical accounting estimates relate to the assessment of impairment of our investment in Bank of Communications Co. Limited ('BoCom'), which involves estimations of value in use:

Judgements	Estimates
	<ul style="list-style-type: none"><li>Management's best estimate of BoCom's earnings are based on management's explicit forecasts over the short to medium term and the capital maintenance charge, which is management's forecast of the earnings that need to be withheld in order for BoCom to meet regulatory requirements over the forecast period, both of which are subject to uncertain factors</li><li>Key assumptions used in estimating BoCom's value in use, the sensitivity of the value in use calculations to different assumptions and a sensitivity analysis that shows the changes in key assumptions that would reduce the excess of value in use over the carrying amount (the 'headroom') to nil are described in Note 18</li></ul>

### (b) Income and expense

#### Operating income

##### *Interest income and expense*

Interest income and expense for all financial instruments, excluding those classified as held for trading or designated at fair value, are recognised in 'Interest income' and 'Interest expense' in the income statement using the effective interest method. However, as an exception to this, interest on debt instruments issued by HSBC for funding purposes that are designated under the fair value option to reduce an accounting mismatch and on derivatives managed in conjunction with those debt instruments is included in interest expense.

Interest on credit-impaired financial assets is recognised using the rate of interest used to discount the future cash flows for the purpose of measuring the impairment loss.

##### *Non-interest income and expense*

HSBC generates fee income from services provided at a fixed price over time, such as account service and card fees, or when HSBC delivers a specific transaction at a point in time, such as broking services and import/export services. With the exception of certain fund management and performance fees, all other fees are generated at a fixed price. Fund management and performance fees can be variable depending on the size of the customer portfolio and HSBC's performance as fund manager. Variable fees are recognised when all uncertainties are resolved. Fee income is generally earned from short-term contracts with payment terms that do not include a significant financing component.

HSBC acts as principal in the majority of contracts with customers, with the exception of broking services. For most brokerage trades, HSBC acts as agent in the transaction and recognises broking income net of fees payable to other parties in the arrangement.

HSBC recognises fees earned on transaction-based arrangements at a point in time when it has fully provided the service to the customer. Where the contract requires services to be provided over time, income is recognised on a systematic basis over the life of the agreement.

Where HSBC offers a package of services that contains multiple non-distinct performance obligations, such as those included in account service packages, the promised services are treated as a single performance obligation. If a package of services contains distinct performance obligations, such as those including both account and insurance services, the corresponding transaction price is allocated to each performance obligation based on the estimated stand-alone selling prices.

Dividend income is recognised when the right to receive payment is established. This is the ex-dividend date for listed equity securities, and usually the date when shareholders approve the dividend for unlisted equity securities.

Net income/(expense) from financial instruments measured at fair value through profit or loss includes the following:

- 'Net income from financial instruments held for trading or managed on a fair value basis': This comprises net trading income, which includes all gains and losses from changes in the fair value of financial assets and financial liabilities held for trading and other financial instruments managed on a fair value basis, together with the related interest income, expense and dividends, excluding the effect of changes in the credit risk of liabilities managed on a fair value basis. It also includes all gains and losses from changes in the fair value of derivatives that are managed in conjunction with financial assets and liabilities measured at fair value through profit or loss.
- 'Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss': This includes interest income, interest expense and dividend income in respect of financial assets and liabilities measured at fair value through profit or loss; and those derivatives managed in conjunction with the above that can be separately identifiable from other trading derivatives.
- 'Changes in fair value of designated debt instruments and related derivatives': Interest paid on debt instruments and interest cash flows on related derivatives is presented in interest expense where doing so reduces an accounting mismatch.
- 'Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss': This includes interest on instruments that fail the solely payments of principal and interest test, see (d) below.

The accounting policies for insurance premium income are disclosed in Note 1.2(j).

### (c) Valuation of financial instruments

All financial instruments are initially recognised at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value of a financial instrument on initial recognition is generally its transaction price (that is, the fair value of the consideration given or received). However, if there is a difference between the transaction price and the fair value of financial instruments whose fair value is based on a quoted price in an active market or a valuation technique that uses only data from observable markets, HSBC recognises the difference as a trading gain or loss at inception (a 'day 1 gain or loss'). In all other cases, the entire day 1 gain or loss is deferred and recognised in the income statement over the life of the transaction until the transaction matures, is closed out, the valuation inputs become observable or HSBC enters into an offsetting transaction. The fair value of financial instruments is generally measured on an individual basis. However,

## Notes on the financial statements

in cases where HSBC manages a group of financial assets and liabilities according to its net market or credit risk exposure, the fair value of the group of financial instruments is measured on a net basis but the underlying financial assets and liabilities are presented separately in the financial statements, unless they satisfy the IFRS offsetting criteria.

### Critical accounting estimates and judgements

The majority of valuation techniques employ only observable market data. However, certain financial instruments are classified on the basis of valuation techniques that feature one or more significant market inputs that are unobservable, and for them, the measurement of fair value is more judgemental:

Judgements	Estimates
<ul style="list-style-type: none"><li>An instrument in its entirety is classified as valued using significant unobservable inputs if, in the opinion of management, a significant proportion of the instrument's inception profit or greater than 5% of the instrument's valuation is driven by unobservable inputs</li><li>'Unobservable' in this context means that there is little or no current market data available from which to determine the price at which an arm's length transaction would be likely to occur. It generally does not mean that there is no data available at all upon which to base a determination of fair value (consensus pricing data may, for example, be used)</li></ul>	<ul style="list-style-type: none"><li>Details on the Group's level 3 financial instruments and the sensitivity of their valuation to the effect of applying reasonable possible alternative assumptions in determining their fair value are set out in Note 12</li></ul>

#### (d) Financial instruments measured at amortised cost

Financial assets that are held to collect the contractual cash flows and which contain contractual terms that give rise on specified dates to cash flows that are solely payments of principal and interest are measured at amortised cost. Such financial assets include most loans and advances to banks and customers and some debt securities. In addition, most financial liabilities are measured at amortised cost. HSBC accounts for regular way amortised cost financial instruments using trade date accounting. The carrying value of these financial assets at initial recognition includes any directly attributable transactions costs. If the initial fair value is lower than the cash amount advanced, such as in the case of some leveraged finance and syndicated lending activities, the difference is deferred and recognised over the life of the loan through the recognition of interest income.

HSBC may commit to underwriting loans on fixed contractual terms for specified periods of time. When the loan arising from the lending commitment is expected to be held for trading, the commitment to lend is recorded as a derivative. When HSBC intends to hold the loan, the loan commitment is included in the impairment calculations set out below.

#### Non-trading reverse repurchase, repurchase and similar agreements

When debt securities are sold subject to a commitment to repurchase them at a predetermined price ('repos'), they remain on the balance sheet and a liability is recorded in respect of the consideration received. Securities purchased under commitments to resell ('reverse repos') are not recognised on the balance sheet and an asset is recorded in respect of the initial consideration paid. Non-trading repos and reverse repos are measured at amortised cost. The difference between the sale and repurchase price or between the purchase and resale price is treated as interest and recognised in net interest income over the life of the agreement.

Contracts that are economically equivalent to reverse repo or repo agreements (such as sales or purchases of debt securities entered into together with total return swaps with the same counterparty) are accounted for similarly to, and presented together with, reverse repo or repo agreements.

#### (e) Financial assets measured at fair value through other comprehensive income

Financial assets held for a business model that is achieved by both collecting contractual cash flows and selling and which contain contractual terms that give rise on specified dates to cash flows that are solely payments of principal and interest are measured at fair value through other comprehensive income ('FVOCI'). These comprise primarily debt securities. They are recognised on the trade date when HSBC enters into contractual arrangements to purchase and are normally derecognised when they are either sold or redeemed. They are subsequently remeasured at fair value and changes therein (except for those relating to impairment, interest income and foreign currency exchange gains and losses) are recognised in other comprehensive income until the assets are sold. Upon disposal, the cumulative gains or losses in other comprehensive income are recognised in the income statement as 'Gains less losses from financial instruments'. Financial assets measured at FVOCI are included in the impairment calculations set out below and impairment is recognised in profit or loss.

#### (f) Equity securities measured at fair value with fair value movements presented in other comprehensive income

The equity securities for which fair value movements are shown in other comprehensive income are business facilitation and other similar investments where HSBC holds the investments other than to generate a capital return. Gains or losses on the derecognition of these equity securities are not transferred to profit or loss. Otherwise, equity securities are measured at fair value through profit or loss (except for dividend income, which is recognised in profit or loss).

#### (g) Financial instruments designated at fair value through profit or loss

Financial instruments, other than those held for trading, are classified in this category if they meet one or more of the criteria set out below and are so designated irrevocably at inception:

- the use of the designation removes or significantly reduces an accounting mismatch;
- a group of financial assets and liabilities or a group of financial liabilities is managed and its performance is evaluated on a fair value basis, in accordance with a documented risk management or investment strategy; and
- the financial liability contains one or more non-closely related embedded derivatives.

Designated financial assets are recognised when HSBC enters into contracts with counterparties, which is generally on trade date, and are normally derecognised when the rights to the cash flows expire or are transferred. Designated financial liabilities are recognised when HSBC enters into contracts with counterparties, which is generally on settlement date, and are normally derecognised when extinguished. Subsequent changes in fair values are recognised in the income statement in 'Net income from financial instruments held for trading or managed on a fair value basis' or 'Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss' except for the effect of changes in the liabilities' credit risk, which is presented in 'Other comprehensive income', unless that treatment would create or enlarge an accounting mismatch in profit or loss.



Under the above criterion, the main classes of financial instruments designated by HSBC are:

- Debt instruments for funding purposes that are designated to reduce an accounting mismatch: The interest and/or foreign exchange exposure on certain fixed-rate debt securities issued has been matched with the interest and/or foreign exchange exposure on certain swaps as part of a documented risk management strategy.
- Financial assets and financial liabilities under unit-linked and non-linked investment contracts: A contract under which HSBC does not accept significant insurance risk from another party is not classified as an insurance contract, other than investment contracts with discretionary participation features ('DPF'), but is accounted for as a financial liability. Customer liabilities under linked and certain non-linked investment contracts issued by insurance subsidiaries are determined based on the fair value of the assets held in the linked funds. If no fair value designation was made for the related assets, at least some of the assets would otherwise be measured at either fair value through other comprehensive income or amortised cost. The related financial assets and liabilities are managed and reported to management on a fair value basis. Designation at fair value of the financial assets and related liabilities allows changes in fair values to be recorded in the income statement and presented in the same line.
- Financial liabilities that contain both deposit and derivative components: These financial liabilities are managed and their performance evaluated on a fair value basis.

#### **(h) Derivatives**

Derivatives are financial instruments that derive their value from the price of underlying items such as equities, interest rates or other indices. Derivatives are recognised initially and are subsequently measured at fair value through profit or loss. Derivatives are classified as assets when their fair value is positive or as liabilities when their fair value is negative. This includes embedded derivatives in financial liabilities, which are bifurcated from the host contract when they meet the definition of a derivative on a stand-alone basis.

Where the derivatives are managed with debt securities issued by HSBC that are designated at fair value, the contractual interest is shown in 'Interest expense' together with the interest payable on the issued debt.

##### **Hedge accounting**

When derivatives are not part of fair value designated relationships, if held for risk management purposes they are designated in hedge accounting relationships where the required criteria for documentation and hedge effectiveness are met. HSBC uses these derivatives or, where allowed, other non-derivative hedging instruments in fair value hedges, cash flow hedges or hedges of net investments in foreign operations as appropriate to the risk being hedged.

##### **Fair value hedge**

Fair value hedge accounting does not change the recording of gains and losses on derivatives and other hedging instruments, but results in recognising changes in the fair value of the hedged assets or liabilities attributable to the hedged risk that would not otherwise be recognised in the income statement. If a hedge relationship no longer meets the criteria for hedge accounting, hedge accounting is discontinued and the cumulative adjustment to the carrying amount of the hedged item is amortised to the income statement on a recalculated effective interest rate, unless the hedged item has been derecognised, in which case it is recognised in the income statement immediately.

##### **Cash flow hedge**

The effective portion of gains and losses on hedging instruments is recognised in other comprehensive income and the ineffective portion of the change in fair value of derivative hedging instruments that are part of a cash flow hedge relationship is recognised immediately in the income statement within 'Net income from financial instruments held for trading or managed on a fair value basis'. The accumulated gains and losses recognised in other comprehensive income are reclassified to the income statement in the same periods in which the hedged item affects profit or loss. When a hedge relationship is discontinued, or partially discontinued, any cumulative gain or loss recognised in other comprehensive income remains in equity until the forecast transaction is recognised in the income statement. When a forecast transaction is no longer expected to occur, the cumulative gain or loss previously recognised in other comprehensive income is immediately reclassified to the income statement.

##### **Net investment hedge**

Hedges of net investments in foreign operations are accounted for in a similar way to cash flow hedges. The effective portion of gains and losses on the hedging instrument is recognised in other comprehensive income and other gains and losses are recognised immediately in the income statement. Gains and losses previously recognised in other comprehensive income are reclassified to the income statement on the disposal, or part disposal, of the foreign operation.

##### **Derivatives that do not qualify for hedge accounting**

Non-qualifying hedges are derivatives entered into as economic hedges of assets and liabilities for which hedge accounting was not applied.

#### **(i) Impairment of amortised cost and FVOCI financial assets**

Expected credit losses ('ECL') are recognised for loans and advances to banks and customers, non-trading reverse repurchase agreements, other financial assets held at amortised cost, debt instruments measured at FVOCI, and certain loan commitments and financial guarantee contracts. At initial recognition, allowance (or provision in the case of some loan commitments and financial guarantees) is required for ECL resulting from default events that are possible within the next 12 months, or less, where the remaining life is less than 12 months ('12-month ECL'). In the event of a significant increase in credit risk, allowance (or provision) is required for ECL resulting from all possible default events over the expected life of the financial instrument ('lifetime ECL'). Financial assets where 12-month ECL is recognised are considered to be 'stage 1'; financial assets that are considered to have experienced a significant increase in credit risk are in 'stage 2'; and financial assets for which there is objective evidence of impairment so are considered to be in default or otherwise credit impaired are in 'stage 3'. Purchased or originated credit-impaired financial assets ('POCI') are treated differently, as set out below.

##### **Credit impaired (stage 3)**

HSBC determines that a financial instrument is credit impaired and in stage 3 by considering relevant objective evidence, primarily whether:

- contractual payments of either principal or interest are past due for more than 90 days;

## Notes on the financial statements

- there are other indications that the borrower is unlikely to pay, such as when a concession has been granted to the borrower for economic or legal reasons relating to the borrower's financial condition; and
- the loan is otherwise considered to be in default.

If such unlikelihood to pay is not identified at an earlier stage, it is deemed to occur when an exposure is 90 days past due, even where regulatory rules permit default to be defined based on 180 days past due. Therefore, the definitions of credit impaired and default are aligned as far as possible so that stage 3 represents all loans that are considered defaulted or otherwise credit impaired.

Interest income is recognised by applying the effective interest rate to the amortised cost amount, i.e. gross carrying amount less ECL allowance.

### Write-off

Financial assets (and the related impairment allowances) are normally written off, either partially or in full, when there is no realistic prospect of recovery. Where loans are secured, this is generally after receipt of any proceeds from the realisation of security. In circumstances where the net realisable value of any collateral has been determined and there is no reasonable expectation of further recovery, write-off may be earlier.

### Renegotiation

Loans are identified as renegotiated and classified as credit impaired when we modify the contractual payment terms due to significant credit distress of the borrower. Renegotiated loans remain classified as credit impaired until there is sufficient evidence to demonstrate a significant reduction in the risk of non-payment of future cash flows and retain the designation of renegotiated until maturity or derecognition.

A loan that is renegotiated is derecognised if the existing agreement is cancelled and a new agreement is made on substantially different terms, or if the terms of an existing agreement are modified such that the renegotiated loan is a substantially different financial instrument. Any new loans that arise following derecognition events in these circumstances are considered to be POCI and will continue to be disclosed as renegotiated loans.

Other than originated credit-impaired loans, all other modified loans could be transferred out of stage 3 if they no longer exhibit any evidence of being credit impaired and, in the case of renegotiated loans, there is sufficient evidence to demonstrate a significant reduction in the risk of non-payment of future cash flows over the minimum observation period, and there are no other indicators of impairment. These loans could be transferred to stage 1 or 2 based on the mechanism as described below by comparing the risk of a default occurring at the reporting date (based on the modified contractual terms) and the risk of a default occurring at initial recognition (based on the original, unmodified contractual terms). Any amount written off as a result of the modification of contractual terms would not be reversed.

### Loan modifications other than renegotiated loans

Loan modifications that are not identified as renegotiated are considered to be commercial restructuring. Where a commercial restructuring results in a modification (whether legalised through an amendment to the existing terms or the issuance of a new loan contract) such that HSBC's rights to the cash flows under the original contract have expired, the old loan is derecognised and the new loan is recognised at fair value. The rights to cash flows are generally considered to have expired if the commercial restructure is at market rates and no payment-related concession has been provided. Mandatory and general offer loan modifications that are not borrower-specific, for example market-wide customer relief programmes, have not been classified as renegotiated loans and generally have not resulted in derecognition, but their stage allocation is determined considering all available and supportable information under our ECL impairment policy.

### Significant increase in credit risk (stage 2)

An assessment of whether credit risk has increased significantly since initial recognition is performed at each reporting period by considering the change in the risk of default occurring over the remaining life of the financial instrument. The assessment explicitly or implicitly compares the risk of default occurring at the reporting date compared with that at initial recognition, taking into account reasonable and supportable information, including information about past events, current conditions and future economic conditions. The assessment is unbiased, probability-weighted, and to the extent relevant, uses forward-looking information consistent with that used in the measurement of ECL. The analysis of credit risk is multifactor. The determination of whether a specific factor is relevant and its weight compared with other factors depends on the type of product, the characteristics of the financial instrument and the borrower, and the geographical region. Therefore, it is not possible to provide a single set of criteria that will determine what is considered to be a significant increase in credit risk, and these criteria will differ for different types of lending, particularly between retail and wholesale. However, unless identified at an earlier stage, all financial assets are deemed to have suffered a significant increase in credit risk when 30 days past due. In addition, wholesale loans that are individually assessed, which are typically corporate and commercial customers, and included on a watch or worry list, are included in stage 2.

For wholesale portfolios, the quantitative comparison assesses default risk using a lifetime probability of default ('PD'), which encompasses a wide range of information including the obligor's customer risk rating ('CRR'), macroeconomic condition forecasts and credit transition probabilities. For origination CRRs up to 3.3, significant increase in credit risk is measured by comparing the average PD for the remaining term estimated at origination with the equivalent estimation at the reporting date. The quantitative measure of significance varies depending on the credit quality at origination as follows:

Origination CRR	Significance trigger – PD to increase by
0.1–1.2	15bps
2.1–3.3	30bps

For CRRs greater than 3.3 that are not impaired, a significant increase in credit risk is considered to have occurred when the origination PD has doubled. The significance of changes in PD was informed by expert credit risk judgement, referenced to historical credit migrations and to relative changes in external market rates.

For loans originated prior to the implementation of IFRS 9, the origination PD does not include adjustments to reflect expectations of future macroeconomic conditions since these are not available without the use of hindsight. In the absence of this data, origination PD must be approximated assuming through-the-cycle ('TTC') PDs and TTC migration probabilities, consistent with the instrument's

underlying modelling approach and the CRR at origination. For these loans, the quantitative comparison is supplemented with additional CRR deterioration-based thresholds, as set out in the table below:

Origination CRR	Additional significance criteria – number of CRR grade notches deterioration required to identify as significant credit deterioration (stage 2) (> or equal to)
0.1	5 notches
1.1–4.2	4 notches
4.3–5.1	3 notches
5.2–7.1	2 notches
7.2–8.2	1 notch
8.3	0 notch

*Further information about the 23-grade scale used for CRR can be found on page 163.*

For certain portfolios of debt securities where external market ratings are available and credit ratings are not used in credit risk management, the debt securities will be in stage 2 if their credit risk increases to the extent they are no longer considered investment grade. Investment grade is where the financial instrument has a low risk of incurring losses, the structure has a strong capacity to meet its contractual cash flow obligations in the near term, and adverse changes in economic and business conditions in the longer term may, but will not necessarily, reduce the ability of the borrower to fulfil their contractual cash flow obligations.

For retail portfolios, default risk is assessed using a reporting date 12-month PD derived from credit scores, which incorporates all available information about the customer. This PD is adjusted for the effect of macroeconomic forecasts for periods longer than 12 months and is considered to be a reasonable approximation of a lifetime PD measure. Retail exposures are first segmented into homogeneous portfolios, generally by country, product and brand. Within each portfolio, the stage 2 accounts are defined as accounts with an adjusted 12-month PD greater than the average 12-month PD of loans in that portfolio 12 months before they become 30 days past due. The expert credit risk judgement is that no prior increase in credit risk is significant. This portfolio-specific threshold identifies loans with a PD higher than would be expected from loans that are performing as originally expected, and higher than what would have been acceptable at origination. It therefore approximates a comparison of origination to reporting date PDs.

#### Unimpaired and without significant increase in credit risk (stage 1)

ECL resulting from default events that are possible within the next 12 months ('12-month ECL') are recognised for financial instruments that remain in stage 1.

#### Purchased or originated credit impaired

Financial assets that are purchased or originated at a deep discount that reflects the incurred credit losses are considered to be POCI. This population includes the recognition of a new financial instrument following a renegotiation where concessions have been granted for economic or contractual reasons relating to the borrower's financial difficulty that otherwise would not have been considered. The amount of change-in-lifetime ECL is recognised in profit or loss until the POCI is derecognised, even if the lifetime ECL are less than the amount of ECL included in the estimated cash flows on initial recognition.

#### Movement between stages

Financial assets can be transferred between the different categories (other than POCI) depending on their relative increase in credit risk since initial recognition. Financial instruments are transferred out of stage 2 if their credit risk is no longer considered to be significantly increased since initial recognition based on the assessments described above. Except for renegotiated loans, financial instruments are transferred out of stage 3 when they no longer exhibit any evidence of credit impairment as described above. Renegotiated loans that are not POCI will continue to be in stage 3 until there is sufficient evidence to demonstrate a significant reduction in the risk of non-payment of future cash flows, observed over a minimum one-year period and there are no other indicators of impairment. For loans that are assessed for impairment on a portfolio basis, the evidence typically comprises a history of payment performance against the original or revised terms, as appropriate to the circumstances. For loans that are assessed for impairment on an individual basis, all available evidence is assessed on a case-by-case basis.

#### Measurement of ECL

The assessment of credit risk and the estimation of ECL are unbiased and probability-weighted, and incorporate all available information that is relevant to the assessment including information about past events, current conditions and reasonable and supportable forecasts of future events and economic conditions at the reporting date. In addition, the estimation of ECL should take into account the time value of money.

In general, HSBC calculates ECL using three main components: a probability of default, a loss given default ('LGD') and the exposure at default ('EAD').

The 12-month ECL is calculated by multiplying the 12-month PD, LGD and EAD. Lifetime ECL is calculated using the lifetime PD instead. The 12-month and lifetime PDs represent the probability of default occurring over the next 12 months and the remaining maturity of the instrument respectively.

The EAD represents the expected balance at default, taking into account the repayment of principal and interest from the balance sheet date to the default event together with any expected drawdowns of committed facilities. The LGD represents expected losses on the EAD given the event of default, taking into account, among other attributes, the mitigating effect of collateral value at the time it is expected to be realised and the time value of money.

HSBC leverages the Basel II IRB framework where possible, with recalibration to meet the differing IFRS 9 requirements as set out in the following table:

## Notes on the financial statements

Model	Regulatory capital	IFRS 9
PD	<ul style="list-style-type: none"> <li>Through the cycle (represents long-run average PD throughout a full economic cycle)</li> <li>The definition of default includes a backstop of 90+ days past due, although this has been modified to 180+ days past due for some portfolios, particularly UK and US mortgages</li> </ul>	<ul style="list-style-type: none"> <li>Point in time (based on current conditions, adjusted to take into account estimates of future conditions that will impact PD)</li> <li>Default backstop of 90+ days past due for all portfolios</li> </ul>
EAD	<ul style="list-style-type: none"> <li>Cannot be lower than current balance</li> </ul>	<ul style="list-style-type: none"> <li>Amortisation captured for term products</li> </ul>
LGD	<ul style="list-style-type: none"> <li>Downturn LGD (consistent losses expected to be suffered during a severe but plausible economic downturn)</li> <li>Regulatory floors may apply to mitigate risk of underestimating downturn LGD due to lack of historical data</li> <li>Discounted using cost of capital</li> <li>All collection costs included</li> </ul>	<ul style="list-style-type: none"> <li>Expected LGD (based on estimate of loss given default including the expected impact of future economic conditions such as changes in value of collateral)</li> <li>No floors</li> <li>Discounted using the original effective interest rate of the loan</li> <li>Only costs associated with obtaining/selling collateral included</li> </ul>
Other		<ul style="list-style-type: none"> <li>Discounted back from point of default to balance sheet date</li> </ul>

While 12-month PDs are recalibrated from Basel II models where possible, the lifetime PDs are determined by projecting the 12-month PD using a term structure. For the wholesale methodology, the lifetime PD also takes into account credit migration, i.e. a customer migrating through the CRR bands over its life.

The ECL for wholesale stage 3 is determined on an individual basis using a discounted cash flow ('DCF') methodology. The expected future cash flows are based on the credit risk officer's estimates as at the reporting date, reflecting reasonable and supportable assumptions and projections of future recoveries and expected future receipts of interest. Collateral is taken into account if it is likely that the recovery of the outstanding amount will include realisation of collateral based on the estimated fair value of collateral at the time of expected realisation, less costs for obtaining and selling the collateral. The cash flows are discounted at a reasonable approximation of the original effective interest rate. For significant cases, cash flows under four different scenarios are probability-weighted by reference to the economic scenarios applied more generally by the Group and the judgement of the credit risk officer in relation to the likelihood of the workout strategy succeeding or receivership being required. For less significant cases, the effect of different economic scenarios and work-out strategies is approximated and applied as an adjustment to the most likely outcome.

### Period over which ECL is measured

Expected credit loss is measured from the initial recognition of the financial asset. The maximum period considered when measuring ECL (be it 12-month or lifetime ECL) is the maximum contractual period over which HSBC is exposed to credit risk. For wholesale overdrafts, credit risk management actions are taken no less frequently than on an annual basis and therefore this period is to the expected date of the next substantive credit review. The date of the substantive credit review also represents the initial recognition of the new facility. However, where the financial instrument includes both a drawn and undrawn commitment and the contractual ability to demand repayment and cancel the undrawn commitment does not serve to limit HSBC's exposure to credit risk to the contractual notice period, the contractual period does not determine the maximum period considered. Instead, ECL is measured over the period HSBC remains exposed to credit risk that is not mitigated by credit risk management actions. This applies to retail overdrafts and credit cards, where the period is the average time taken for stage 2 exposures to default or close as performing accounts, determined on a portfolio basis and ranging from between two and six years. In addition, for these facilities it is not possible to identify the ECL on the loan commitment component separately from the financial asset component. As a result, the total ECL is recognised in the loss allowance for the financial asset unless the total ECL exceeds the gross carrying amount of the financial asset, in which case the ECL is recognised as a provision.

### Forward-looking economic inputs

HSBC applies multiple forward-looking global economic scenarios determined with reference to external forecast distributions representative of our view of forecast economic conditions. This approach is considered sufficient to calculate unbiased expected loss in most economic environments. In certain economic environments, additional analysis may be necessary and may result in additional scenarios or adjustments, to reflect a range of possible economic outcomes sufficient for an unbiased estimate. The detailed methodology is disclosed in 'Measurement uncertainty and sensitivity analysis of ECL estimates' on page 169.

### Critical accounting estimates and judgements

The calculation of the Group's ECL under IFRS 9 requires the Group to make a number of judgements, assumptions and estimates. The most significant are set out below:

Judgements	Estimates
<ul style="list-style-type: none"> <li>Defining what is considered to be a significant increase in credit risk</li> <li>Determining the lifetime and point of initial recognition of overdrafts and credit cards</li> <li>Selecting and calibrating the PD, LGD and EAD models, which support the calculations, including making reasonable and supportable judgements about how models react to current and future economic conditions</li> <li>Selecting model inputs and economic forecasts, including determining whether sufficient and appropriately weighted economic forecasts are incorporated to calculate unbiased expected loss</li> <li>Making management adjustments to account for late breaking events, model and data limitations and deficiencies, and expert credit judgements</li> </ul>	<ul style="list-style-type: none"> <li>The sections marked as audited on pages 169 to 183, 'Measurement uncertainty and sensitivity analysis of ECL estimates' set out the assumptions used in determining ECL and provide an indication of the sensitivity of the result to the application of different weightings being applied to different economic assumptions</li> </ul>

### (j) Insurance contracts

A contract is classified as an insurance contract where HSBC accepts significant insurance risk from another party by agreeing to compensate that party on the occurrence of a specified uncertain future event. An insurance contract may also transfer financial risk, but is accounted for as an insurance contract if the insurance risk is significant. In addition, HSBC issues investment contracts with discretionary participation features ('DPF'), which are also accounted for as insurance contracts as required by IFRS 4 'Insurance Contracts'.

### Net insurance premium income

Premiums for life insurance contracts are accounted for when receivable, except in unit-linked insurance contracts where premiums are accounted for when liabilities are established. Reinsurance premiums are accounted for in the same accounting period as the premiums for the direct insurance contracts to which they relate.

### Net insurance claims and benefits paid and movements in liabilities to policyholders

Gross insurance claims for life insurance contracts reflect the total cost of claims arising during the year, including claim handling costs and any policyholder bonuses allocated in anticipation of a bonus declaration.

Maturity claims are recognised when due for payment. Surrenders are recognised when paid or at an earlier date on which, following notification, the policy ceases to be included within the calculation of the related insurance liabilities. Death claims are recognised when notified.

Reinsurance recoveries are accounted for in the same period as the related claim.

### Liabilities under insurance contracts

Liabilities under non-linked life insurance contracts are calculated by each life insurance operation based on local actuarial principles. Liabilities under unit-linked life insurance contracts are at least equivalent to the surrender or transfer value, which is calculated by reference to the value of the relevant underlying funds or indices.

### Future profit participation on insurance contracts with DPF

Where contracts provide discretionary profit participation benefits to policyholders, liabilities for these contracts include provisions for the future discretionary benefits to policyholders. These provisions reflect the actual performance of the investment portfolio to date and management's expectation of the future performance of the assets backing the contracts, as well as other experience factors such as mortality, lapses and operational efficiency, where appropriate. The benefits to policyholders may be determined by the contractual terms, regulation, or past distribution policy.

### Investment contracts with DPF

While investment contracts with DPF are financial instruments, they continue to be treated as insurance contracts as required by IFRS 4. The Group therefore recognises the premiums for these contracts as revenue and recognises as an expense the resulting increase in the carrying amount of the liability.

In the case of net unrealised investment gains on these contracts, whose discretionary benefits principally reflect the actual performance of the investment portfolio, the corresponding increase in the liabilities is recognised in either the income statement or other comprehensive income, following the treatment of the unrealised gains on the relevant assets. In the case of net unrealised losses, a deferred participating asset is recognised only to the extent that its recoverability is highly probable. Movements in the liabilities arising from realised gains and losses on relevant assets are recognised in the income statement.

### Present value of in-force long-term insurance business

HSBC recognises the value placed on insurance contracts and investment contracts with DPF, which are classified as long-term and in-force at the balance sheet date, as an asset. The asset represents the present value of the equity holders' interest in the issuing insurance companies' profits expected to emerge from these contracts written at the balance sheet date. The present value of in-force business ('PVIF') is determined by discounting those expected future profits using appropriate assumptions in assessing factors such as future mortality, lapse rates and levels of expenses, and a risk discount rate that reflects the risk premium attributable to the respective contracts. The PVIF incorporates allowances for both non-market risk and the value of financial options and guarantees. The PVIF asset is presented gross of attributable tax in the balance sheet and movements in the PVIF asset are included in 'Other operating income' on a gross of tax basis.

## (k) Employee compensation and benefits

### Share-based payments

HSBC enters into both equity-settled and cash-settled share-based payment arrangements with its employees as compensation for the provision of their services.

The vesting period for these schemes may commence before the legal grant date if the employees have started to render services in respect of the award before the legal grant date, where there is a shared understanding of the terms and conditions of the arrangement. Expenses are recognised when the employee starts to render service to which the award relates.

Cancellations result from the failure to meet a non-vesting condition during the vesting period, and are treated as an acceleration of vesting recognised immediately in the income statement. Failure to meet a vesting condition by the employee is not treated as a cancellation, and the amount of expense recognised for the award is adjusted to reflect the number of awards expected to vest.

### Post-employment benefit plans

HSBC operates a number of pension schemes including defined benefit, defined contribution and post-employment benefit schemes.

Payments to defined contribution schemes are charged as an expense as the employees render service.

Defined benefit pension obligations are calculated using the projected unit credit method. The net charge to the income statement mainly comprises the service cost and the net interest on the net defined benefit asset or liability, and is presented in operating expenses. Remeasurements of the net defined benefit asset or liability, which comprise actuarial gains and losses, return on plan assets excluding interest and the effect of the asset ceiling (if any, excluding interest), are recognised immediately in other comprehensive income. The net defined benefit asset or liability represents the present value of defined benefit obligations reduced by the fair value of plan assets (see policy (c)), after applying the asset ceiling test, where the net defined benefit surplus is limited to the present value of available refunds and reductions in future contributions to the plan.

The cost of obligations arising from other post-employment plans are accounted for on the same basis as defined benefit pension plans.

## Notes on the financial statements

### Critical accounting estimates and judgements

The most significant critical accounting estimates relate to the determination of key assumptions applied in calculating the defined benefit pension obligation for the principal plan.

Judgements	Estimates
	<ul style="list-style-type: none"><li>• A range of assumptions could be applied, and different assumptions could significantly alter the defined benefit obligation and the amounts recognised in profit or loss or OCI.</li><li>• The calculation of the defined benefit pension obligation includes assumptions with regard to the discount rate, inflation rate, pension payments and deferred pensions, pay and mortality. Management determines these assumptions in consultation with the plan's actuaries.</li><li>• Key assumptions used in calculating the defined benefit pension obligation for the principal plan and the sensitivity of the calculation to different assumptions are described in Note 5</li></ul>

### (l) Tax

Income tax comprises current tax and deferred tax. Income tax is recognised in the income statement except to the extent that it relates to items recognised in other comprehensive income or directly in equity, in which case the tax is recognised in the same statement as the related item appears.

Current tax is the tax expected to be payable on the taxable profit for the year and on any adjustment to tax payable in respect of previous years. HSBC provides for potential current tax liabilities that may arise on the basis of the amounts expected to be paid to the tax authorities.

Deferred tax is recognised on temporary differences between the carrying amounts of assets and liabilities in the balance sheet, and the amounts attributed to such assets and liabilities for tax purposes. Deferred tax is calculated using the tax rates expected to apply in the periods in which the assets will be realised or the liabilities settled.

Current and deferred tax are calculated based on tax rates and laws enacted, or substantively enacted, by the balance sheet date.

### Critical accounting estimates and judgements

The recognition of deferred tax assets depends on judgements

Judgements	Estimates
<ul style="list-style-type: none"><li>• Assessing the probability and sufficiency of future taxable profits, taking into account the future reversal of existing taxable temporary differences and tax planning strategies including corporate reorganisations</li></ul>	

### (m) Provisions, contingent liabilities and guarantees

#### Provisions

Provisions are recognised when it is probable that an outflow of economic benefits will be required to settle a present legal or constructive obligation that has arisen as a result of past events and for which a reliable estimate can be made.

### Critical accounting estimates and judgements

The recognition and measurement of provisions requires the Group to make a number of judgements, assumptions and estimates. The most significant are set out below:

Judgements	Estimates
<ul style="list-style-type: none"><li>• Determining whether a present obligation exists. Professional advice is taken on the assessment of litigation and similar obligations</li><li>• Provisions for legal proceedings and regulatory matters typically require a higher degree of judgement than other types of provisions. When matters are at an early stage, accounting judgements can be difficult because of the high degree of uncertainty associated with determining whether a present obligation exists, and estimating the probability and amount of any outflows that may arise. As matters progress, management and legal advisers evaluate on an ongoing basis whether provisions should be recognised, revising previous estimates as appropriate. At more advanced stages, it is typically easier to make estimates around a better defined set of possible outcomes</li></ul>	<ul style="list-style-type: none"><li>• Provisions for legal proceedings and regulatory matters remain very sensitive to the assumptions used in the estimate. There could be a wider range of possible outcomes for any pending legal proceedings, investigations or inquiries. As a result it is often not practicable to quantify a range of possible outcomes for individual matters. It is also not practicable to meaningfully quantify ranges of potential outcomes in aggregate for these types of provisions because of the diverse nature and circumstances of such matters and the wide range of uncertainties involved</li><li>• Provisions for customer remediation also require significant levels of estimation. The amounts of provisions recognised depend on a number of different assumptions, the most significant of which are the uphold rate and average redress for complaints yet to be worked. More information about these assumptions is included in Note 27</li></ul>

### Contingent liabilities, contractual commitments and guarantees

#### Contingent liabilities

Contingent liabilities, which include certain guarantees and letters of credit pledged as collateral security, and contingent liabilities related to legal proceedings or regulatory matters, are not recognised in the financial statements but are disclosed unless the probability of settlement is remote.

#### Financial guarantee contracts

Liabilities under financial guarantee contracts that are not classified as insurance contracts are recorded initially at their fair value, which is generally the fee received or present value of the fee receivable.

HSBC Holdings has issued financial guarantees and similar contracts to other Group entities. HSBC elects to account for certain guarantees as insurance contracts in HSBC Holdings' financial statements, in which case they are measured and recognised as insurance liabilities. This election is made on a contract-by-contract basis, and is irrevocable.

## (n) Impairment of non-financial assets

Software under development is tested for impairment at least annually. Other non-financial assets are property, plant and equipment, intangible assets (excluding goodwill) and right-of-use assets. They are tested for impairment at the individual asset level when there is indication of impairment at that level, or at the CGU level for assets that do not have a recoverable amount at the individual asset level. In addition, impairment is also tested at the CGU level when there is indication of impairment at that level. For this purpose, CGUs are considered to be the principal operating legal entities divided by global business.

Impairment testing compares the carrying amount of the non-financial asset or CGU with its recoverable amount, which is the higher of the fair value less costs of disposal or the value in use. The carrying amount of a CGU comprises the carrying value of its assets and liabilities, including non-financial assets that are directly attributable to it and non-financial assets that can be allocated to it on a reasonable and consistent basis. Non-financial assets that cannot be allocated to an individual CGU are tested for impairment at an appropriate grouping of CGUs. The recoverable amount of the CGU is the higher of the fair value less costs of disposal of the CGU, which is determined by independent and qualified valuers where relevant, and the value in use, which is calculated based on appropriate inputs (see Note 21).

When the recoverable amount of a CGU is less than its carrying amount, an impairment loss is recognised in the income statement to the extent that the impairment can be allocated on a pro-rata basis to the non-financial assets by reducing their carrying amounts to the higher of their respective individual recoverable amount or nil. Impairment is not allocated to the financial assets in a CGU.

Impairment loss recognised in prior periods for non-financial assets is reversed when there has been a change in the estimate used to determine the recoverable amount. The impairment loss is reversed to the extent that the carrying amount of the non-financial assets would not exceed the amount that would have been determined (net of amortisation or depreciation) had no impairment loss been recognised in prior periods.

### Critical accounting estimates and judgements

The review of goodwill and other non-financial assets for impairment reflects management's best estimate of the future cash flows of the CGUs and the rates used to discount these cash flows, both of which are subject to uncertain factors as described in the Critical accounting estimates and judgements in Note 1.2(a).

## 2 Net fee income

### Net fee income by global business

	2020					Total \$m
	Wealth and Personal Banking	Commercial Banking	Global Banking and Markets	Corporate Centre		
	\$m	\$m	\$m	\$m		
Funds under management	1,686	126	477	—		2,289
Cards	1,564	360	25	—		1,949
Broking income	862	61	616	—		1,539
Credit facilities	93	740	626	—		1,459
Account services	431	598	264	—		1,293
Underwriting	5	9	1,002	(1)		1,015
Global custody	189	22	723	—		934
Unit trusts	881	18	—	—		899
Remittances	77	313	288	(1)		677
Imports/exports	—	417	160	—		577
Insurance agency commission	307	17	1	—		325
Other	1,123	893	2,369	(2,290)		2,095
<b>Fee income</b>	<b>7,218</b>	<b>3,574</b>	<b>6,551</b>	<b>(2,292)</b>		<b>15,051</b>
Less: fee expense	(1,810)	(349)	(3,284)	2,266		(3,177)
<b>Net fee income</b>	<b>5,408</b>	<b>3,225</b>	<b>3,267</b>	<b>(26)</b>		<b>11,874</b>

	2019 <sup>1</sup>					Total \$m	Total \$m
	Wealth and Personal Banking	Commercial Banking	Global Banking and Markets	Corporate Centre			
	\$m	\$m	\$m	\$m			
Funds under management	1,597	120	460	—	2,177	2,221	
Cards	1,602	358	15	—	1,975	1,956	
Broking income	485	40	532	—	1,057	1,210	
Credit facilities	90	785	743	—	1,618	1,723	
Account services	991	654	365	(7)	2,003	2,177	
Underwriting	3	6	821	(1)	829	723	
Global custody	135	18	564	—	717	736	
Unit trusts	1,011	22	2	—	1,035	1,038	
Remittances	77	362	311	(3)	747	778	
Imports/exports	1	497	164	—	662	709	
Insurance agency commission	356	20	1	—	377	404	
Other	1,284	887	2,353	(2,282)	2,242	2,369	
<b>Fee income</b>	<b>7,632</b>	<b>3,769</b>	<b>6,331</b>	<b>(2,293)</b>	<b>15,439</b>	<b>16,044</b>	
Less: fee expense	(1,998)	(380)	(3,292)	2,254	(3,416)	(3,424)	
<b>Net Fee income</b>	<b>5,634</b>	<b>3,389</b>	<b>3,039</b>	<b>(39)</b>	<b>12,023</b>	<b>12,620</b>	

1 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental Analysis on page 347.

## Notes on the financial statements

Net fee income includes \$5,858m of fees earned on financial assets that are not at fair value through profit or loss, other than amounts included in determining the effective interest rate (2019: \$6,647m; 2018: \$7,522m), \$1,260m of fees payable on financial liabilities that are not at fair value through profit or loss, other than amounts included in determining the effective interest rate (2019: \$1,450m; 2018: \$1,682m), \$3,426m of fees earned on trust and other fiduciary activities (2019: \$3,110m; 2018: \$3,165m) and \$267m of fees payable relating to trust and other fiduciary activities (2019: \$237m; 2018: \$175m).

### 3 Net income from financial instruments measured at fair value through profit or loss

<i>Footnotes</i>	2020 \$m	2019 \$m	2018 \$m
<b>Net income/(expense) arising on:</b>			
Net trading activities	11,074	16,121	6,982
Other instruments managed on a fair value basis	(1,492)	(5,890)	2,549
<b>Net income from financial instruments held for trading or managed on a fair value basis</b>	<b>9,582</b>	<b>10,231</b>	<b>9,531</b>
Financial assets held to meet liabilities under insurance and investment contracts	2,481	3,830	(1,585)
Liabilities to customers under investment contracts	(400)	(352)	97
<b>Net income/(expense) from assets and liabilities of insurance businesses, including related derivatives, measured at fair value through profit or loss</b>	<b>2,081</b>	<b>3,478</b>	<b>(1,488)</b>
Derivatives managed in conjunction with HSBC's issued debt securities	2,619	2,561	(626)
Other changes in fair value	(2,388)	(2,471)	529
<b>Changes in fair value of designated debt and related derivatives</b>	<b>231</b>	<b>90</b>	<b>(97)</b>
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	455	812	695
<b>Year ended 31 Dec</b>	<b>12,349</b>	<b>14,611</b>	<b>8,641</b>

1 The debt instruments, issued for funding purposes, are designated under the fair value option to reduce an accounting mismatch.

### HSBC Holdings

	2020 \$m	2019 \$m	2018 \$m
<b>Net income/(expense) arising on:</b>			
– trading activities	(336)	(559)	(176)
– other instruments managed on a fair value basis	1,137	2,036	421
<b>Net income from financial instruments held for trading or managed on a fair value basis</b>	<b>801</b>	<b>1,477</b>	<b>245</b>
Derivatives managed in conjunction with HSBC Holdings-issued debt securities	694	764	(337)
Other changes in fair value	(1,020)	(1,124)	260
<b>Changes in fair value of designated debt and related derivatives</b>	<b>(326)</b>	<b>(360)</b>	<b>(77)</b>
Changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	1,141	1,659	43
<b>Year ended 31 Dec</b>	<b>1,616</b>	<b>2,776</b>	<b>211</b>

### 4 Insurance business

#### Net insurance premium income

	Non-linked insurance \$m	Linked life insurance \$m	Investment contracts with DPF <sup>1</sup> \$m	Total \$m
Gross insurance premium income	8,321	579	1,563	10,463
Reinsurers' share of gross insurance premium income	(362)	(8)	–	(370)
<b>Year ended 31 Dec 2020</b>	<b>7,959</b>	<b>571</b>	<b>1,563</b>	<b>10,093</b>
Gross insurance premium income	9,353	489	2,266	12,108
Reinsurers' share of gross insurance premium income	(1,465)	(7)	–	(1,472)
<b>Year ended 31 Dec 2019</b>	<b>7,888</b>	<b>482</b>	<b>2,266</b>	<b>10,636</b>
Gross insurance premium income	8,616	422	2,300	11,338
Reinsurers' share of gross insurance premium income	(672)	(7)	–	(679)
<b>Year ended 31 Dec 2018</b>	<b>7,944</b>	<b>415</b>	<b>2,300</b>	<b>10,659</b>

1 Discretionary participation features.



## Net insurance claims and benefits paid and movement in liabilities to policyholders

	Non-linked insurance \$m	Linked life insurance \$m	Investment contracts with DPF <sup>1</sup> \$m	Total \$m
Gross claims and benefits paid and movement in liabilities	10,050	1,112	1,853	13,015
– claims, benefits and surrenders paid	3,695	900	2,083	6,678
– movement in liabilities	6,355	212	(230)	6,337
Reinsurers' share of claims and benefits paid and movement in liabilities	(366)	(4)	–	(370)
– claims, benefits and surrenders paid	(430)	(10)	–	(440)
– movement in liabilities	64	6	–	70
<b>Year ended 31 Dec 2020</b>	<b>9,684</b>	<b>1,108</b>	<b>1,853</b>	<b>12,645</b>
Gross claims and benefits paid and movement in liabilities	11,305	1,217	3,810	16,332
– claims, benefits and surrenders paid	3,783	900	1,921	6,604
– movement in liabilities	7,522	317	1,889	9,728
Reinsurers' share of claims and benefits paid and movement in liabilities	(1,402)	(4)	–	(1,406)
– claims, benefits and surrenders paid	(411)	(17)	–	(428)
– movement in liabilities	(991)	13	–	(978)
Year ended 31 Dec 2019	9,903	1,213	3,810	14,926
Gross claims and benefits paid and movement in liabilities	8,943	(446)	1,724	10,221
– claims, benefits and surrenders paid	3,852	1,088	1,869	6,809
– movement in liabilities	5,091	(1,534)	(145)	3,412
Reinsurers' share of claims and benefits paid and movement in liabilities	(605)	191	–	(414)
– claims, benefits and surrenders paid	(311)	(181)	–	(492)
– movement in liabilities	(294)	372	–	78
Year ended 31 Dec 2018	8,338	(255)	1,724	9,807

1 Discretionary participation features.

## Liabilities under insurance contracts

	Footnotes	Non-linked insurance \$m	Linked life insurance \$m	Investment contracts with DPF <sup>1</sup> \$m	Total \$m
Gross liabilities under insurance contracts at 1 Jan 2020		65,324	6,151	25,964	97,439
Claims and benefits paid		(3,695)	(900)	(2,083)	(6,678)
Increase in liabilities to policyholders		10,050	1,112	1,853	13,015
Exchange differences and other movements	2	785	86	2,544	3,415
<b>Gross liabilities under insurance contracts at 31 Dec 2020</b>		<b>72,464</b>	<b>6,449</b>	<b>28,278</b>	<b>107,191</b>
Reinsurers' share of liabilities under insurance contracts		(3,434)	(14)	–	(3,448)
<b>Net liabilities under insurance contracts at 31 Dec 2020</b>		<b>69,030</b>	<b>6,435</b>	<b>28,278</b>	<b>103,743</b>
Gross liabilities under insurance contracts at 1 Jan 2019		57,283	5,789	24,258	87,330
Claims and benefits paid		(3,804)	(900)	(1,900)	(6,604)
Increase in liabilities to policyholders		11,326	1,217	3,789	16,332
Exchange differences and other movements	2	519	45	(183)	381
Gross liabilities under insurance contracts at 31 Dec 2019		65,324	6,151	25,964	97,439
Reinsurers' share of liabilities under insurance contracts		(3,521)	(71)	–	(3,592)
Net liabilities under insurance contracts at 31 Dec 2019		61,803	6,080	25,964	93,847

1 Discretionary participation features.

2 'Exchange differences and other movements' includes movements in liabilities arising from net unrealised investment gains recognised in other comprehensive income.

The key factors contributing to the movement in liabilities to policyholders included movements in the market value of assets supporting policyholder liabilities, death claims, surrenders, lapses, new business, the declaration of bonuses and other amounts attributable to policyholders.

## 5 Employee compensation and benefits

	2020 \$m	2019 \$m	2018 \$m
Wages and salaries	15,752	15,581	14,751
Social security costs	1,378	1,472	1,490
Post-employment benefits	946	949	1,132
<b>Year ended 31 Dec</b>	<b>18,076</b>	<b>18,002</b>	<b>17,373</b>

## Notes on the financial statements

### Average number of persons employed by HSBC during the year by global business

	2020	2019 <sup>1</sup>	2018 <sup>1</sup>
Wealth and Personal Banking	144,615	148,680	144,109
Commercial Banking	45,631	46,584	48,983
Global Banking and Markets	49,055	51,313	49,217
Corporate Centre	411	478	541
<b>Year ended 31 Dec</b>	<b>239,712</b>	<b>247,055</b>	<b>242,850</b>

<sup>1</sup> A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly. For further guidance, see Note 10: Segmental analysis on page 347.

### Average number of persons employed by HSBC during the year by geographical region

	2020	2019	2018
Europe	64,886	66,392	67,007
Asia	129,923	133,624	127,992
Middle East and North Africa	9,550	9,798	9,798
North America	15,430	16,615	17,350
Latin America	19,923	20,626	20,703
<b>Year ended 31 Dec</b>	<b>239,712</b>	<b>247,055</b>	<b>242,850</b>

### Reconciliation of total incentive awards granted to income statement charge

	2020 \$m	2019 \$m	2018 \$m
<b>Total incentive awards approved for the current year</b>	<b>2,659</b>	<b>3,341</b>	<b>3,473</b>
Less: deferred bonuses awarded, expected to be recognised in future periods	(239)	(337)	(351)
<b>Total incentives awarded and recognised in the current year</b>	<b>2,420</b>	<b>3,004</b>	<b>3,122</b>
Add: current year charges for deferred bonuses from previous years	286	327	322
Other	2	(55)	(70)
<b>Income statement charge for incentive awards</b>	<b>2,708</b>	<b>3,276</b>	<b>3,374</b>

### Share-based payments

'Wages and salaries' includes the effect of share-based payments arrangements, of which \$434m was equity settled (2019: \$478m; 2018: \$450m), as follows:

	2020 \$m	2019 \$m	2018 \$m
Conditional share awards	411	521	499
Savings-related and other share award option plans	51	30	23
<b>Year ended 31 Dec</b>	<b>462</b>	<b>551</b>	<b>522</b>

### HSBC share awards

Award	Policy
<b>Deferred share awards (including annual incentive awards, LTI awards delivered in shares) and Group Performance Share Plans ('GPSP')</b>	<p>An assessment of performance over the relevant period ending on 31 December is used to determine the amount of the award to be granted.</p> <ul style="list-style-type: none"> <li>Deferred awards generally require employees to remain in employment over the vesting period and are generally not subject to performance conditions after the grant date. An exception to these are the LTI awards, which are subject to performance conditions.</li> <li>Deferred share awards generally vest over a period of three, five or seven years.</li> <li>Vested shares may be subject to a retention requirement post-vesting. GPSP awards are retained until cessation of employment.</li> <li>Awards are subject to a malus provision prior to vesting.</li> <li>Awards granted to Material Risk Takers from 2015 onwards are subject to clawback post-vesting.</li> </ul>
<b>International Employee Share Purchase Plan ('ShareMatch')</b>	<p>The plan was first introduced in Hong Kong in 2013 and now includes employees based in 27 jurisdictions.</p> <ul style="list-style-type: none"> <li>Shares are purchased in the market each quarter up to a maximum value of £750, or the equivalent in local currency.</li> <li>Matching awards are added at a ratio of one free share for every three purchased.</li> <li>Matching awards vest subject to continued employment and the retention of the purchased shares for a maximum period of two years and nine months.</li> </ul>

### Movement on HSBC share awards

	2020 Number (000s)	2019 Number (000s)
<b>Conditional share awards outstanding at 1 Jan</b>	<b>97,055</b>	<b>94,897</b>
Additions during the year	72,443	71,858
Released in the year	(60,673)	(67,737)
Forfeited in the year	(5,352)	(1,963)
<b>Conditional share awards outstanding at 31 Dec</b>	<b>103,473</b>	<b>97,055</b>
Weighted average fair value of awards granted (\$)	7.28	7.89

## HSBC share option plans

Main plans	Policy
<b>Savings-related share option plans ('Sharesave')</b>	<ul style="list-style-type: none"> <li>From 2014, employees eligible for the UK plan could save up to £500 per month with the option to use the savings to acquire shares.</li> <li>These are generally exercisable within six months following either the third or fifth anniversary of the commencement of a three-year or five-year contract, respectively.</li> <li>The exercise price is set at a 20% (2019: 20%) discount to the market value immediately preceding the date of invitation.</li> </ul>

## Calculation of fair values

The fair values of share options are calculated using a Black-Scholes model. The fair value of a share award is based on the share price at the date of the grant.

## Movement on HSBC share option plans

	Footnotes	Savings-related share option plans	
		Number (000s)	WAEP <sup>1</sup> £
<b>Outstanding at 1 Jan 2020</b>		<b>65,060</b>	<b>4.81</b>
Granted during the year	2	111,469	2.63
Exercised during the year	3	(1,387)	4.48
Expired during the year		(43,032)	4.81
Forfeited during the year		(1,158)	4.88
<b>Outstanding at 31 Dec 2020</b>		<b>130,952</b>	<b>2.97</b>
– of which exercisable		8,170	4.50
Weighted average remaining contractual life (years)		3.68	
Outstanding at 1 Jan 2019		57,065	4.92
Granted during the year	2	32,130	4.69
Exercised during the year	3	(11,806)	4.40
Expired during the year		(11,321)	5.46
Forfeited during the year		(1,008)	4.99
Outstanding at 31 Dec 2019		65,060	4.81
– of which exercisable		2,149	4.53
Weighted average remaining contractual life (years)		2.77	

1 Weighted average exercise price.

2 The weighted average fair value of options granted during the year was \$0.47 (2019: \$1.36).

3 The weighted average share price at the date the options were exercised was \$7.08 (2019: \$7.99).

## Post-employment benefit plans

The Group operates pension plans throughout the world for its employees. 'Pension risk management processes' on page 214 contains details of the policies and practices associated with these pension plans, some of which are defined benefit plans. The largest defined benefit plan is the HBUK section of the HSBC Bank (UK) Pension Scheme ('the principal plan'), created as a result of the HSBC Bank (UK) Pension Scheme being fully sectionalised in 2018 to meet the requirements of the Banking Reform Act.

HSBC holds on its balance sheet the net surplus or deficit, which is the difference between the fair value of plan assets and the discounted value of scheme liabilities at the balance sheet date for each plan. Surpluses are only recognised to the extent that they are recoverable through reduced contributions in the future or through potential future refunds from the schemes. In assessing whether a surplus is recoverable, HSBC has considered its current right to obtain a future refund or a reduction in future contributions together with the rights of third parties such as trustees.

### The principal plan

The principal plan has a defined benefit section and a defined contribution section. The defined benefit section was closed to future benefit accrual in 2015, with defined benefits earned by employees at that date continuing to be linked to their salary while they remain employed by HSBC. The plan is overseen by an independent corporate trustee, who has a fiduciary responsibility for the operation of the plan. Its assets are held separately from the assets of the Group.

The investment strategy of the plan is to hold the majority of assets in bonds, with the remainder in a diverse range of investments. It also includes some interest rate swaps to reduce interest rate risk and inflation swaps to reduce inflation risk.

The latest funding valuation of the plan at 31 December 2019 was carried out by Colin G Singer of Willis Towers Watson Limited, who is a Fellow of the UK Institute and Faculty of Actuaries, using the projected unit credit method. At that date, the market value of the plan's assets was £31.1bn (\$41.1bn) and this exceeded the value placed on its liabilities on an ongoing basis by £2.5bn (\$3.3bn), giving a funding level of 109%. These figures include defined contribution assets amounting to £2.4bn (\$3.2bn). The main differences between the assumptions used for assessing the defined benefit liabilities for this funding valuation and those used for IAS 19 are more prudent assumptions for discount rate, inflation rate and life expectancy. The next funding valuation will have an effective date of 31 December 2022.

Although the plan was in surplus at the valuation date, HSBC continues to make further contributions to the plan to support a lower-risk investment strategy over the longer term. The remaining contribution is £160m (\$218m) to be paid in 2021. The main employer of the principal plan is HSBC UK Bank plc, with additional support from HSBC Holdings plc. The HSBC Bank (UK) Pension Scheme is fully sectionalised and no entities outside the ring fence participate in the HBUK section. The sectionalisation, which took place in 2018, did not materially affect the overall funding position of the plan.

## Notes on the financial statements

The actuary also assessed the value of the liabilities if the plan were to have been stopped and an insurance company asked to secure all future pension payments. This is generally larger than the amount needed on the ongoing basis described above because an insurance company would use more prudent assumptions and include an explicit allowance for the future administrative expenses of the plan. Under this approach, the amount of assets needed was estimated to be £33bn (\$44bn) at 31 December 2019.

### Guaranteed minimum pension equalisation

Following a judgment issued by the High Court of Justice of England and Wales in 2018, we estimated the financial effect of equalising benefits in respect of guaranteed minimum pension ('GMP') equalisation, and any potential conversion of GMPs into non-GMP benefits, to be an approximate 0.9% increase in the principal plan's liabilities, or £187m (\$239m). This was recognised in the income statement in 2018. A further judgment by the High Court on 20 November 2020 ruled that GMPs should also be equalised for those who had previously transferred benefits from the principal plan to another arrangement, with £13m (\$17m) consequently being recognised in 2020. We continue to assess the impact of GMP equalisation.

### Income statement charge

	2020	2019	2018
	\$m	\$m	\$m
Defined benefit pension plans	146	176	355
Defined contribution pension plans	775	758	756
<b>Pension plans</b>	<b>921</b>	<b>934</b>	<b>1,111</b>
Defined benefit and contribution healthcare plans	25	15	21
<b>Year ended 31 Dec</b>	<b>946</b>	<b>949</b>	<b>1,132</b>

### Net assets/(liabilities) recognised on the balance sheet in respect of defined benefit plans

	Fair value of plan assets	Present value of defined benefit obligations	Effect of limit on plan surpluses	Total
	\$m	\$m	\$m	\$m
Defined benefit pension plans	52,990	(43,995)	(44)	8,951
Defined benefit healthcare plans	114	(639)	—	(525)
<b>At 31 Dec 2020</b>	<b>53,104</b>	<b>(44,634)</b>	<b>(44)</b>	<b>8,426</b>
Total employee benefit liabilities (within Note 26 'Accruals, deferred income and other liabilities')				(2,025)
<b>Total employee benefit assets (within Note 22 'Prepayments, accrued income and other assets')</b>				<b>10,450</b>
Defined benefit pension plans	47,567	(40,582)	(16)	6,969
Defined benefit healthcare plans	121	(580)	—	(459)
<b>At 31 Dec 2019</b>	<b>47,688</b>	<b>(41,162)</b>	<b>(16)</b>	<b>6,510</b>
Total employee benefit liabilities (within Note 26 'Accruals, deferred income and other liabilities')				(1,771)
<b>Total employee benefit assets (within Note 22 'Prepayments, accrued income and other assets')</b>				<b>8,280</b>

### HSBC Holdings

Employee compensation and benefit expense in respect of HSBC Holdings' employees in 2020 amounted to \$56m (2019: \$37m). The average number of persons employed during 2020 was 59 (2019: 60). Employees who are members of defined benefit pension plans are principally members of either the HSBC Bank (UK) Pension Scheme or the HSBC International Staff Retirement Benefits Scheme. HSBC Holdings pays contributions to such plans for its own employees in accordance with the schedules of contributions determined by the trustees of the plans and recognises these contributions as an expense as they fall due.

## Defined benefit pension plans

### Net asset/(liability) under defined benefit pension plans

	Fair value of plan assets		Present value of defined benefit obligations		Effect of the asset ceiling		Net defined benefit asset/(liability)	
	Principal <sup>1</sup> plan \$m	Other plans \$m	Principal <sup>1</sup> plan \$m	Other plans \$m	Principal <sup>1</sup> plan \$m	Other plans \$m	Principal <sup>1</sup> plan \$m	Other plans \$m
<b>At 1 Jan 2020</b>	<b>37,874</b>	<b>9,693</b>	<b>(30,158)</b>	<b>(10,424)</b>	–	(16)	<b>7,716</b>	<b>(747)</b>
Service cost	–	–	(68)	(172)	–	–	(68)	(172)
– current service cost	–	–	(28)	(184)	–	–	(28)	(184)
– past service cost and gains/(losses) from settlements	–	–	(40)	12	–	–	(40)	12
Net interest income/(cost) on the net defined benefit asset/(liability)	<b>726</b>	<b>233</b>	<b>(575)</b>	<b>(245)</b>	–	–	<b>151</b>	<b>(12)</b>
Remeasurement effects recognised in other comprehensive income	<b>3,173</b>	<b>879</b>	<b>(2,118)</b>	<b>(547)</b>	–	(26)	<b>1,055</b>	<b>306</b>
– return on plan assets (excluding interest income)	<b>3,173</b>	<b>692</b>	–	–	–	–	<b>3,173</b>	<b>692</b>
– actuarial gains/(losses) <sup>2</sup>	–	–	(2,118)	(428)	–	–	(2,118)	(428)
– other changes	–	<b>187</b>	–	(119)	–	(26)	–	<b>42</b>
Exchange differences	<b>1,446</b>	<b>249</b>	<b>(1,100)</b>	<b>(387)</b>	–	(2)	<b>346</b>	<b>(140)</b>
Benefits paid	<b>(1,148)</b>	<b>(652)</b>	<b>1,148</b>	<b>727</b>	–	–	–	<b>75</b>
Other movements <sup>4</sup>	<b>434</b>	<b>83</b>	<b>(134)</b>	<b>58</b>	–	–	<b>300</b>	<b>141</b>
<b>At 31 Dec 2020</b>	<b>42,505</b>	<b>10,485</b>	<b>(33,005)</b>	<b>(10,990)</b>	–	(44)	<b>9,500</b>	<b>(549)</b>
At 1 Jan 2019	34,074	8,725	(26,616)	(9,967)	–	(35)	7,458	(1,277)
Service cost	–	–	(64)	(246)	–	–	(64)	(246)
– current service cost	–	–	(40)	(183)	–	–	(40)	(183)
– past service cost and losses from settlements	–	–	(24)	(63)	–	–	(24)	(63)
Net interest income/(cost) on the net defined benefit asset/(liability)	939	269	(728)	(293)	–	–	211	(24)
Remeasurement effects recognised in other comprehensive income	2,205	867	(2,548)	(521)	–	20	(343)	366
– return on plan assets (excluding interest income)	2,205	870	–	–	–	–	2,205	870
– actuarial gains/(losses) <sup>2,3</sup>	–	–	(2,548)	(507)	–	–	(2,548)	(507)
– other changes <sup>3</sup>	–	(3)	–	(14)	–	20	–	3
Exchange differences	1,300	181	(1,036)	(180)	–	(1)	264	–
Benefits paid	(1,014)	(620)	1,014	694	–	–	–	74
Other movements <sup>4</sup>	370	271	(180)	89	–	–	190	360
At 31 Dec 2019	37,874	9,693	(30,158)	(10,424)	–	(16)	7,716	(747)

1 For further details of the principal plan, see page 339.

2 Actuarial gains/(losses) for our principal plan includes losses relating to financial assumptions of \$3,179m (2019: \$3,049m), gains relating to demographic assumptions of \$86m (2019: \$186m) and experience adjustments of \$975m (2019: \$315m). Actuarial gains/(losses) for our other plans includes losses relating to financial assumptions of \$564m (2019: \$847m), gains relating to demographic assumptions of \$49m (2019: \$94m) and experience adjustments of \$87m (2019: \$246m).

3 The comparatives have been re-presented to reclassify gains and losses relating to demographic and experience assumptions in other plans from 'other changes' to 'actuarial gains and losses'.

4 Other movements include contributions by HSBC, contributions by employees, administrative costs and taxes paid by plan.

HSBC expects to make \$376m of contributions to defined benefit pension plans during 2021. Benefits expected to be paid from the plans to retirees over each of the next five years, and in aggregate for the five years thereafter, are as follows:

### Benefits expected to be paid from plans

	2021 \$m	2022 \$m	2023 \$m	2024 \$m	2025 \$m	2026-2030 \$m
The principal plan <sup>1,2</sup>	1,274	1,312	1,352	1,393	1,434	7,840
Other plans <sup>1</sup>	495	520	486	472	470	2,322

1 The duration of the defined benefit obligation is 17.4 years for the principal plan under the disclosure assumptions adopted (2019: 18.1 years) and 13.5 years for all other plans combined (2019: 13.2 years).

2 For further details of the principal plan, see page 339.

## Notes on the financial statements

### Fair value of plan assets by asset classes

	31 Dec 2020				31 Dec 2019			
	Value \$m	Quoted market price in active market \$m	No quoted market price in active market \$m	Thereof HSBC <sup>1</sup> \$m	Value \$m	Quoted market price in active market \$m	No quoted market price in active market \$m	Thereof HSBC <sup>1</sup> \$m
<b>The principal plan<sup>2</sup></b>								
Fair value of plan assets	42,505	37,689	4,816	973	37,874	33,921	3,953	1,183
– equities	268	7	261	–	662	312	350	–
– bonds	36,198	35,479	719	–	31,699	31,699	–	–
– derivatives	1,973	–	1,973	973	2,052	–	2,052	1,183
– other	4,066	2,203	1,863	–	3,461	1,910	1,551	–
<b>Other plans</b>								
Fair value of plan assets	10,485	9,512	973	54	9,693	8,702	991	239
– equities	1,484	1,069	415	3	2,065	1,455	610	2
– bonds	7,624	7,143	481	10	6,608	6,376	232	8
– derivatives	(57)	–	(57)	–	–	–	–	–
– other	1,434	1,300	134	41	1,020	871	149	229

1 The fair value of plan assets includes derivatives entered into with HSBC Bank plc as detailed in Note 35. These derivatives are presented within the principal plan at 31 December 2020. Comparatives have been re-presented.

2 For further details on the principal plan, see page 339.

### Post-employment defined benefit plans' principal actuarial financial assumptions

HSBC determines the discount rates to be applied to its obligations in consultation with the plans' local actuaries, on the basis of current average yields of high-quality (AA-rated or equivalent) debt instruments with maturities consistent with those of the defined benefit obligations.

### Key actuarial assumptions for the principal plan<sup>1</sup>

	Discount rate %	Inflation rate %	Rate of increase for pensions %	Rate of pay increase %
<b>UK</b>				
At 31 Dec 2020	1.45	3.05	3.00	2.75
At 31 Dec 2019	2.00	3.10	2.90	3.65

1 For further details on the principal plan, see page 339.

### Mortality tables and average life expectancy at age 60<sup>1</sup> for the principal plan

	Mortality table	Life expectancy at age 60 for a male member currently:		Life expectancy at age 60 for a female member currently:	
		Aged 60	Aged 40	Aged 60	Aged 40
<b>UK</b>					
At 31 Dec 2020	SAPS S3 <sup>2</sup>	27.0	28.5	28.1	29.7
At 31 Dec 2019	SAPS S2 <sup>3</sup>	28.0	29.4	28.2	29.8

1 For further details of the principal plan, see page 339.

2 Self-administered pension scheme ('SAPS') S3 table (males: 'Normal health pensioners, Light' version; females: 'Normal health pensioners, Heavy' version) with a multiplier of 1 for both male and female pensioners. Improvements are projected in accordance with the continual mortality investigation ('CMI') 2019 core projection model with a long-term rate of improvement of 0.25% per annum and a long-term rate of improvement of 1.25% per annum. Separate tables have been applied to lower-paid pensioners and dependant members.

3 Self-administered pension scheme ('SAPS') S2 table (males: 'Normal health pensioners' version; females: 'All pensioners' version) with a multiplier of 0.94 for male and 1.15 for female pensioners. Improvements are projected in accordance with the continual mortality investigation ('CMI') 2019 core projection model with an initial addition to improvements of 0.25% per annum and a long-term rate of improvement of 1.25% per annum. Separate tables have been applied to lower-paid pensioners and dependant members.

### The effect of changes in key assumptions on the principal plan<sup>1</sup>

	Impact on HBUK section of the HSBC Bank (UK) Pension Scheme obligation			
	Financial impact of increase		Financial impact of decrease	
	2020 \$m	2019 \$m	2020 \$m	2019 \$m
Discount rate – increase/decrease of 0.25%	(1,383)	(1,305)	1,475	1,395
Inflation rate – increase/decrease of 0.25%	871	781	(830)	(738)
Pension payments and deferred pensions – increase/decrease of 0.25%	1,307	1,100	(1,222)	(1,026)
Pay – increase/decrease of 0.25%	60	73	(59)	(72)
Change in mortality – increase of 1 year	1,453	1,267	N/A	N/A

1 For further details of the principal plan, see page 339.

The above sensitivity analyses are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur, and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions the same method (present value of the defined benefit obligation calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the defined benefit asset recognised in the balance sheet. The methods and types of assumptions used in preparing the sensitivity analysis did not change compared with the prior period.

## Directors' emoluments

Details of Directors' emoluments, pensions and their interests are disclosed in the Directors' remuneration report on page 271.

## 6 Auditor's remuneration

	2020 \$m	2019 \$m	2018 \$m
Audit fees payable to PwC	92.9	85.2	86.6
Other audit fees payable	1.0	0.9	0.9
<b>Year ended 31 Dec</b>	<b>93.9</b>	<b>86.1</b>	<b>87.5</b>

### Fees payable by HSBC to PwC

	Footnotes	2020 \$m	2019 \$m	2018 \$m
Fees for HSBC Holdings' statutory audit	1	21.9	15.7	16.4
Fees for other services provided to HSBC		108.3	95.0	103.1
– audit of HSBC's subsidiaries		71.0	69.5	70.2
– audit-related assurance services	2	17.2	10.0	11.4
– other assurance services	3,4	20.1	12.2	13.5
– taxation compliance services		–	1.6	1.4
– taxation advisory services		–	–	0.1
– other non-audit services	3	–	1.7	6.5
<b>Year ended 31 Dec</b>		<b>130.2</b>	<b>110.7</b>	<b>119.5</b>

- 1 Fees payable to PwC for the statutory audit of the consolidated financial statements of HSBC and the separate financial statements of HSBC Holdings. They include amounts payable for services relating to the consolidation returns of HSBC Holdings' subsidiaries, which are clearly identifiable as being in support of the Group audit opinion.
- 2 Including services for assurance and other services that relate to statutory and regulatory filings, including interim reviews.
- 3 Including permitted services relating to attestation reports on internal controls of a service organisation primarily prepared for and used by third party end user, including comfort letters.
- 4 Includes reviews of PRA regulatory reporting returns in 2020.

No fees were payable by HSBC to PwC as principal auditor for the following types of services: internal audit services and services related to litigation, recruitment and remuneration.

### Fees payable by HSBC's associated pension schemes to PwC

	2020 \$000	2019 \$000	2018 \$000
Audit of HSBC's associated pension schemes	316	250	172
<b>Year ended 31 Dec</b>	<b>316</b>	<b>250</b>	<b>172</b>

No fees were payable by HSBC's associated pension schemes to PwC as principal auditor for the following types of services: internal audit services, other assurance services, services related to corporate finance transactions, valuation and actuarial services, litigation, recruitment and remuneration, and information technology.

In addition to the above, the estimated fees paid to PwC by third parties associated with HSBC amounted to \$12.3m (2019: \$17.2m; 2018: \$14.0m). In these cases, HSBC was connected with the contracting party and may therefore have been involved in appointing PwC. These fees arose from services such as auditing mutual funds managed by HSBC and reviewing the financial position of corporate concerns that borrow from HSBC.

Fees payable for non-audit services for HSBC Holdings are not disclosed separately because such fees are disclosed on a consolidated basis for the Group.

## 7 Tax

### Tax expense

	Footnotes	2020 \$m	2019 \$m	2018 \$m
Current tax	1	2,700	3,768	4,195
– for this year		2,883	3,689	4,158
– adjustments in respect of prior years		(183)	79	37
Deferred tax		(22)	871	670
– origination and reversal of temporary differences		(341)	684	656
– effect of changes in tax rates		58	(11)	17
– adjustments in respect of prior years		261	198	(3)
<b>Year ended 31 Dec</b>	2	<b>2,678</b>	<b>4,639</b>	<b>4,865</b>

- 1 Current tax included Hong Kong profits tax of \$888m (2019: \$1,413m; 2018: \$1,532m). The Hong Kong tax rate applying to the profits of subsidiaries assessable in Hong Kong was 16.5% (2019: 16.5%; 2018: 16.5%).
- 2 In addition to amounts recorded in the income statement, a tax charge of \$7m (2019: charge of \$6m) was recorded directly to equity.

### Tax reconciliation

The tax charged to the income statement differs from the tax charge that would apply if all profits had been taxed at the UK corporation tax rate as follows:

## Notes on the financial statements

	2020		2019		2018	
	\$m	%	\$m	%	\$m	%
<b>Profit before tax</b>	<b>8,777</b>		13,347		19,890	
<b>Tax expense</b>						
Taxation at UK corporation tax rate of 19.00% (2019: 19.00%; 2018: 19.00%)	<b>1,668</b>	<b>19.0</b>	2,536	19.0	3,779	19.0
Impact of differently taxed overseas profits in overseas locations	<b>178</b>	<b>2.0</b>	253	1.9	264	1.3
Items increasing tax charge in 2020:						
– non-UK movements in unrecognised deferred tax	<b>608</b>	<b>6.9</b>	12	0.1	32	0.2
– UK tax losses not recognised	<b>444</b>	<b>5.1</b>	364	2.7	435	2.2
– other permanent disallowables	<b>322</b>	<b>3.6</b>	481	3.6	396	2.0
– local taxes and overseas withholding taxes	<b>228</b>	<b>2.6</b>	484	3.6	437	2.2
– bank levy	<b>202</b>	<b>2.3</b>	184	1.4	191	1.0
– adjustments in respect of prior period liabilities	<b>78</b>	<b>0.9</b>	277	2.1	34	0.2
– impacts of hyperinflation	<b>65</b>	<b>0.7</b>	29	0.2	78	0.4
– impact of changes in tax rates	<b>58</b>	<b>0.6</b>	(11)	(0.1)	17	0.1
– non-deductible regulatory settlements	<b>33</b>	<b>0.4</b>	5	–	153	0.8
– non-deductible goodwill write-down	–	–	1,421	10.7	–	–
Items reducing tax charge in 2020:						
– non-taxable income and gains	<b>(515)</b>	<b>(5.8)</b>	(844)	(6.3)	(691)	(3.5)
– deductions for AT1 coupon payments	<b>(310)</b>	<b>(3.5)</b>	(263)	(2.0)	–	–
– effect of profits in associates and joint ventures	<b>(250)</b>	<b>(2.8)</b>	(467)	(3.5)	(492)	(2.5)
– UK banking surcharge	<b>(113)</b>	<b>(1.3)</b>	29	0.2	229	1.1
– non-deductible UK customer compensation	<b>(18)</b>	<b>(0.2)</b>	382	2.9	16	0.1
– non-taxable gain on dilution of shareholding in SABB	–	–	(181)	(1.3)	–	–
– other items	–	–	(52)	(0.4)	(13)	(0.1)
Year ended 31 Dec	<b>2,678</b>	<b>30.5</b>	4,639	34.8	4,865	24.5

The Group's profits are taxed at different rates depending on the country or territory in which the profits arise. The key applicable tax rates for 2020 include Hong Kong (16.5%), the US (21%) and the UK (19%). If the Group's profits were taxed at the statutory rates of the countries in which the profits arose, then the tax rate for the year would have been 21.00% (2019: 20.90%). The effective tax rate for the year of 30.5% (2019: 34.8%) was lower than for 2019. The effective tax rate for 2019 included a non-deductible impairment of goodwill of \$7.3bn (10.7% increase in effective tax rate) and a higher level of non-deductible customer compensation (3.1% increase in effective tax rate compared with 2020), both of which are non-recurring items. This was partly offset by the impact of non-recognition of deferred tax, mainly in the UK (\$0.4bn) and France (\$0.4bn), being greater in 2020 than 2019 (9.2% increase in effective tax rate compared with 2019).

Following an amendment to IAS 12 effective 1 January 2019, the income tax consequences of distributions, including AT1 coupon payments, were recorded in the income statement tax expense. The 2018 reconciliation has not been restated.

Accounting for taxes involves some estimation because the tax law is uncertain and its application requires a degree of judgement, which authorities may dispute. Liabilities are recognised based on best estimates of the probable outcome, taking into account external advice where appropriate. We do not expect significant liabilities to arise in excess of the amounts provided. HSBC only recognises current and deferred tax assets where recovery is probable.

### Movement of deferred tax assets and liabilities

	Footnotes	Loan	Unused tax	Derivatives, FVOD <sup>1</sup>	Insurance	Expense	Fixed	Retirement	Other	Total
		impairment provisions	losses and tax credits	and other investments	business	provisions	assets	obligations		
		\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Assets		<b>983</b>	<b>1,414</b>	<b>979</b>	–	<b>650</b>	<b>1,002</b>	–	<b>422</b>	<b>5,450</b>
Liabilities		–	–	<b>(558)</b>	<b>(1,621)</b>	–	–	<b>(1,613)</b>	<b>(401)</b>	<b>(4,193)</b>
<b>At 1 Jan 2020</b>		<b>983</b>	<b>1,414</b>	<b>421</b>	<b>(1,621)</b>	<b>650</b>	<b>1,002</b>	<b>(1,613)</b>	<b>21</b>	<b>1,257</b>
Income statement		<b>295</b>	<b>355</b>	<b>(274)</b>	<b>(32)</b>	<b>(81)</b>	<b>(112)</b>	<b>(190)</b>	<b>61</b>	<b>22</b>
Other comprehensive income		–	–	<b>(23)</b>	–	–	–	<b>(387)</b>	<b>(660)</b>	<b>(1,070)</b>
Equity		–	–	–	–	–	–	–	–	–
Foreign exchange and other adjustments		<b>(36)</b>	<b>52</b>	<b>(281)</b>	<b>31</b>	<b>(4)</b>	<b>11</b>	<b>(116)</b>	<b>304</b>	<b>(39)</b>
<b>At 31 Dec 2020</b>		<b>1,242</b>	<b>1,821</b>	<b>(157)</b>	<b>(1,622)</b>	<b>565</b>	<b>901</b>	<b>(2,306)</b>	<b>(274)</b>	<b>170</b>
Assets	<sup>2</sup>	<b>1,242</b>	<b>1,821</b>	<b>548</b>	–	<b>565</b>	<b>901</b>	–	<b>960</b>	<b>6,037</b>
Liabilities	<sup>2</sup>	–	–	<b>(705)</b>	<b>(1,622)</b>	–	–	<b>(2,306)</b>	<b>(1,234)</b>	<b>(5,867)</b>
Assets		982	1,156	492	–	629	1,151	–	738	5,148
Liabilities		–	–	(376)	(1,271)	–	–	(1,387)	(283)	(3,317)
At 1 Jan 2019		982	1,156	116	(1,271)	629	1,151	(1,387)	455	1,831
Income statement		45	266	(386)	(303)	(18)	(185)	(149)	(141)	(871)
Other comprehensive income		–	–	544	–	–	–	30	(391)	183
Equity		–	–	–	–	–	–	–	–	–
Foreign exchange and other adjustments		(44)	(8)	147	(47)	39	36	(107)	98	114
At 31 Dec 2019		983	1,414	421	(1,621)	650	1,002	(1,613)	21	1,257
Assets	<sup>2</sup>	983	1,414	979	–	650	1,002	–	422	5,450
Liabilities	<sup>2</sup>	–	–	(558)	(1,621)	–	–	(1,613)	(401)	(4,193)

<sup>1</sup> Fair value of own debt.

<sup>2</sup> After netting off balances within countries, the balances as disclosed in the accounts are as follows: deferred tax assets \$4,483m (2019: \$4,632m) and deferred tax liabilities \$4,313m (2019: \$3,375m).



In applying judgement in recognising deferred tax assets, management has critically assessed all available information, including future business profit projections and the track record of meeting forecasts.

The Group's net deferred tax asset of \$0.2bn (2019: \$1.3bn) included \$2.4bn (2019: \$2.8bn) of deferred tax assets relating to the US, of which \$1.0bn related to US tax losses that expire in 13 to 17 years. Management expects the US deferred tax asset to be substantially recovered in seven to eight years, with the majority recovered in the first five years. During 2020, the Group derecognised \$250m of deferred tax asset relating to US state tax losses as management did not consider there to be sufficient evidence of future taxable profits against which to recover these losses before they expire. Management's assessment of the likely availability of future taxable profits against which to recover the US deferred tax assets takes into consideration the reversal of existing taxable temporary differences, past business performance and forecasts of future business performance. The most recent financial forecasts approved by management cover a five-year period and the forecasts have been extrapolated beyond five years by assuming that performance remains constant after the fifth year.

The Group's net deferred tax asset of \$0.2bn (2019: \$1.3bn) also included a net UK deferred tax asset of \$0.6bn (2019: liability of \$0.5bn), of which \$0.5bn related to UK banking tax losses created in 2020. The net UK deferred tax asset of \$0.6bn excludes the deferred tax liability arising on the UK pension scheme surplus, the reversal of which is not taken into account when estimating future taxable profits. The UK deferred tax asset is supported by forecasts of taxable profit, also taking into consideration the history of profitability in the combined UK banking entities and the fact that the loss arising in 2020 arose due to an identifiable and non-recurring reason, being the economic impacts of Covid-19.

### Unrecognised deferred tax

The amount of gross temporary differences, unused tax losses and tax credits for which no deferred tax asset is recognised in the balance sheet was \$15.6bn (2019: \$9.9bn). This amount included unused UK corporation tax losses of \$9.3bn (2019: \$7.3bn) which were not recognised due to uncertainty regarding the availability of sufficient future taxable profits against which to recover them. Of the total amounts unrecognised, \$11.5bn (2019: \$7.4bn) had no expiry date, \$0.7bn (2019: \$1.3bn) was scheduled to expire within 10 years and the remaining balance is expected to expire after 10 years.

Deferred tax is not recognised in respect of the Group's investments in subsidiaries and branches where HSBC is able to control the timing of remittance or other realisation and where remittance or realisation is not probable in the foreseeable future. The aggregate temporary differences relating to unrecognised deferred tax liabilities arising on investments in subsidiaries and branches is \$12.1bn (2019: \$13.4bn) and the corresponding unrecognised deferred tax liability was \$0.7bn (2019: \$1.0bn).

## 8 Dividends

### Dividends to shareholders of the parent company

	2020			2019			2018		
	Per share \$	Total \$m	Settled in scrip \$m	Per share \$	Total \$m	Settled in scrip \$m	Per share \$	Total \$m	Settled in scrip \$m
<b>Dividends paid on ordinary shares</b>									
In respect of previous year:									
– fourth interim dividend	–	–	–	0.21	4,206	1,160	0.21	4,197	393
In respect of current year:									
– first interim dividend	–	–	–	0.10	2,013	375	0.10	2,008	213
– second interim dividend	–	–	–	0.10	2,021	795	0.10	1,990	181
– third interim dividend	–	–	–	0.10	2,029	357	0.10	1,992	707
<b>Total</b>	–	–	–	0.51	10,269	2,687	0.51	10,187	1,494
Total dividends on preference shares classified as equity (paid quarterly)	<b>62.00</b>	<b>90</b>		62.00	90		62.00	90	
Total coupons on capital securities classified as equity		<b>1,241</b>			1,324			1,270	
<b>Dividends to shareholders</b>		<b>1,331</b>			11,683			11,547	

## Notes on the financial statements

### Total coupons on capital securities classified as equity

	Footnotes	First call date	2020		2019	2018
			Per security	Total \$m	Total \$m	Total \$m
<b>Perpetual subordinated capital securities</b>						
\$2,200m issued at 8.125%	1, 3	Apr 2013	\$0.000	—	—	89
\$3,800m issued at 8.000%		Dec 2015	\$0.000	—	—	76
<b>Perpetual subordinated contingent convertible securities</b>						
\$1,500m issued at 5.625%	4	Nov 2019	\$56.250	—	84	84
\$2,000m issued at 6.875%		Jun 2021	\$68.750	138	138	138
\$2,250m issued at 6.375%		Sep 2024	\$63.750	143	143	143
\$2,450m issued at 6.375%		Mar 2025	\$63.750	156	156	156
\$3,000m issued at 6.000%		May 2027	\$60.000	180	180	180
\$2,350m issued at 6.250%		Mar 2023	\$62.500	147	147	73
\$1,800m issued at 6.500%		Mar 2028	\$65.000	117	117	59
\$1,500m issued at 4.600%	5	Jun 2031	\$46.000	—	—	—
€1,500m issued at 5.250%		Sep 2022	€52.500	90	88	95
€1,000m issued at 6.000%		Sep 2023	€60.000	67	66	72
€1,250m issued at 4.750%		July 2029	€47.500	67	68	70
£1,000m issued at 5.875%		Sep 2026	£58.750	74	75	—
SGD1,000m issued at 4.700%		Jun 2022	SGD47.000	35	34	35
SGD750m issued at 5.000%		Sep 2023	SGD50.000	27	28	—
<b>Total</b>				<b>1,241</b>	1,324	1,270

1 Discretionary coupons are paid quarterly on the perpetual subordinated capital securities, in denominations of \$25 per security.

2 Discretionary coupons are paid semi-annually on the perpetual subordinated contingent convertible securities, in denominations of each security's issuance currency 1,000 per security.

3 For further details of these securities, see Note 31.

4 This security was called by HSBC Holdings on 22 November 2019 and was redeemed and cancelled on 17 January 2020. Between the date of exercise of the call option and the redemption, this security was considered to be a subordinated liability. For further details on additional tier 1 securities, see Note 31.

5 This security was issued by HSBC Holdings on 17 December 2020. The first call date commences six calendar months prior to the reset date of 17 June 2031.

After the end of the year, the Directors approved an interim dividend in respect of the financial year ended 31 December 2020 of \$0.15 per ordinary share, a distribution of approximately \$3,055m. The interim dividend will be payable on 29 April 2021 to holders on the Principal Register in the UK, the Hong Kong Overseas Branch Register or the Bermuda Overseas Branch Register on 12 March 2021. No liability was recorded in the financial statements in respect of the interim dividend for 2020.

On 4 January 2021, HSBC paid a coupon on its €1,250m subordinated capital securities, representing a total distribution of €30m (\$36m). No liability was recorded in the balance sheet at 31 December 2020 in respect of this coupon payment.

## 9 Earnings per share

Basic earnings per ordinary share is calculated by dividing the profit attributable to ordinary shareholders of the parent company by the weighted average number of ordinary shares outstanding, excluding own shares held. Diluted earnings per ordinary share is calculated by dividing the basic earnings, which require no adjustment for the effects of dilutive potential ordinary shares, by the weighted average number of ordinary shares outstanding, excluding own shares held, plus the weighted average number of ordinary shares that would be issued on conversion of dilutive potential ordinary shares.

### Profit attributable to the ordinary shareholders of the parent company

	2020	2019	2018
	\$m	\$m	\$m
Profit attributable to shareholders of the parent company	5,229	7,383	13,727
Dividend payable on preference shares classified as equity	(90)	(90)	(90)
Coupon payable on capital securities classified as equity	(1,241)	(1,324)	(1,029)
<b>Year ended 31 Dec</b>	<b>3,898</b>	5,969	12,608

### Basic and diluted earnings per share

	Footnotes	2020			2019			2018		
		Profit \$m	Number of shares (millions)	Per share \$	Profit \$m	Number of shares (millions)	Per share \$	Profit \$m	Number of shares (millions)	Per share \$
Basic	1	3,898	20,169	0.19	5,969	20,158	0.30	12,608	19,896	0.63
Effect of dilutive potential ordinary shares			73			75			87	
<b>Diluted</b>	1	<b>3,898</b>	<b>20,242</b>	<b>0.19</b>	5,969	20,233	0.30	12,608	19,983	0.63

1 Weighted average number of ordinary shares outstanding (basic) or assuming dilution (diluted).

The number of anti-dilutive employee share options excluded from the weighted average number of dilutive potential ordinary shares is 14.6 million (2019: 1.1 million; 2018: nil).

## 10 Segmental analysis

The Group Chief Executive, supported by the rest of the Group Executive Committee ('GEC'), is considered the Chief Operating Decision Maker ('CODM') for the purposes of identifying the Group's reportable segments. Global business results are assessed by the CODM on the basis of adjusted performance that removes the effects of significant items and currency translation from reported results. Therefore, we present these results on an adjusted basis as required by IFRSs. The 2019 and 2018 adjusted performance information is presented on a constant currency basis. The 2019 and 2018 income statements are converted at the average rates of exchange for 2020, and the balance sheets at 31 December 2019 and 31 December 2018 at the prevailing rates of exchange on 31 December 2020.

Our operations are closely integrated and, accordingly, the presentation of data includes internal allocations of certain items of income and expense. These allocations include the costs of certain support services and global functions to the extent that they can be meaningfully attributed to global businesses. While such allocations have been made on a systematic and consistent basis, they necessarily involve a degree of subjectivity. Costs that are not allocated to global businesses are included in Corporate Centre.

Where relevant, income and expense amounts presented include the results of inter-segment funding along with inter-company and inter-business line transactions. All such transactions are undertaken on arm's length terms. The intra-Group elimination items for the global businesses are presented in Corporate Centre.

### Change in reportable segments

Effective from the second quarter of 2020, we made the following realignments within our internal reporting to the GEC and CODM:

- We simplified our matrix organisational structure by combining Global Private Banking and Retail Banking and Wealth Management to form Wealth and Personal Banking.
- We reallocated our reporting of Markets Treasury, hyperinflation accounting in Argentina and HSBC Holdings net interest expense from Corporate Centre to the global businesses.

Comparative data have been re-presented accordingly.

### Our global businesses

We provide a comprehensive range of banking and related financial services to our customers in our three global businesses. The products and services offered to customers are organised by these global businesses.

- Wealth and Personal Banking ('WPB') provides a full range of retail banking and wealth products to our customers from personal banking to ultra high net worth individuals. Typically, customer offerings include retail banking products, such as current and savings accounts, mortgages and personal loans, credit cards, debit cards and local and international payment services. We also provide wealth management services, including insurance and investment products, global asset management services, investment management and Private Wealth Solutions for customers with more sophisticated and international requirements.
- Commercial Banking ('CMB') offers a broad range of products and services to serve the needs of our commercial customers, including small and medium-sized enterprises, mid-market enterprises and corporates. These include credit and lending, international trade and receivables finance, treasury management and liquidity solutions (payments and cash management and commercial cards), commercial insurance and investments. CMB also offers customers access to products and services offered by other global businesses, such as Global Banking and Markets, which include foreign exchange products, raising capital on debt and equity markets and advisory services.
- Global Banking and Markets ('GBM') provides tailored financial solutions to major government, corporate and institutional clients and private investors worldwide. The client-focused business lines deliver a full range of banking capabilities including financing, advisory and transaction services, a markets business that provides services in credit, rates, foreign exchange, equities, money markets and securities services, and principal investment activities.

### HSBC adjusted profit before tax and balance sheet data

	2020				
	Wealth and Personal Banking	Commercial Banking	Global Banking and Markets	Corporate Centre	Total
	\$m	\$m	\$m	\$m	\$m
<i>Footnotes</i>					
<b>Net operating income/(expense) before change in expected credit losses and other credit impairment charges</b>	22,013	13,312	15,303	(262)	50,366
– external	19,990	13,741	18,162	(1,527)	50,366
– inter-segment	2,023	(429)	(2,859)	1,265	–
<i>of which: net interest income/(expense)</i>	15,090	9,317	4,518	(1,326)	27,599
Change in expected credit losses and other credit impairment (charges)/ recoveries	(2,855)	(4,754)	(1,209)	1	(8,817)
<b>Net operating income/(expense)</b>	19,158	8,558	14,094	(261)	41,549
Total operating expenses	(15,024)	(6,689)	(9,264)	(482)	(31,459)
<b>Operating profit/(loss)</b>	4,134	1,869	4,830	(743)	10,090
Share of profit in associates and joint ventures	6	(1)	–	2,054	2,059
<b>Adjusted profit before tax</b>	4,140	1,868	4,830	1,311	12,149
	%	%	%	%	%
Share of HSBC's adjusted profit before tax	34.1	15.4	39.7	10.8	100.0
Adjusted cost efficiency ratio	68.3	50.2	60.5	(184.0)	62.5
<b>Adjusted balance sheet data</b>	\$m	\$m	\$m	\$m	\$m
Loans and advances to customers (net)	469,186	343,182	224,364	1,255	1,037,987
Interests in associates and joint ventures	447	14	143	26,080	26,684
Total external assets	881,918	570,295	1,347,440	184,511	2,984,164
Customer accounts	834,759	470,428	336,983	610	1,642,780

## Notes on the financial statements

### HSBC adjusted profit before tax and balance sheet data (continued)

	Footnotes	2019 <sup>2</sup>				Total \$m
		Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	
Net operating income/(expense) before change in expected credit losses and other credit impairment charges	1	25,565	15,164	14,869	(654)	54,944
– external		21,252	16,094	20,314	(2,716)	54,944
– inter-segment		4,313	(930)	(5,445)	2,062	—
<i>of which: net interest income/(expense)</i>		17,423	10,957	5,223	(3,264)	30,339
Change in expected credit losses and other credit impairment (charges)/ recoveries		(1,348)	(1,162)	(153)	36	(2,627)
Net operating income/(expense)		24,217	14,002	14,716	(618)	52,317
Total operating expenses		(15,388)	(6,832)	(9,544)	(755)	(32,519)
Operating profit/(loss)		8,829	7,170	5,172	(1,373)	19,798
Share of profit in associates and joint ventures		54	—	—	2,297	2,351
Adjusted profit before tax		8,883	7,170	5,172	924	22,149
		%	%	%	%	%
Share of HSBC's adjusted profit before tax		40.1	32.4	23.4	4.2	100.0
Adjusted cost efficiency ratio		60.2	45.1	64.2	(115.4)	59.2
Adjusted balance sheet data		\$m	\$m	\$m	\$m	\$m
Loans and advances to customers (net)		455,618	353,781	252,131	1,166	1,062,696
Interests in associates and joint ventures		449	14	16	24,941	25,420
Total external assets		793,100	523,585	1,310,772	156,354	2,783,811
Customer accounts		768,151	397,182	304,094	780	1,470,207

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly.

### HSBC adjusted profit before tax and balance sheet data (continued)

	Footnotes	2018 <sup>2</sup>				Total \$m
		Wealth and Personal Banking \$m	Commercial Banking \$m	Global Banking and Markets \$m	Corporate Centre \$m	
Net operating income/(expense) before change in expected credit losses and other credit impairment charges	1	23,551	14,374	15,056	(883)	52,098
– external		19,096	14,675	18,780	(453)	52,098
– inter-segment		4,455	(301)	(3,724)	(430)	—
<i>of which: net interest income/(expense)</i>		16,418	10,220	4,880	(2,070)	29,448
Change in expected credit losses and other credit impairment (charges)/ recoveries		(1,072)	(683)	34	101	(1,620)
Net operating income/(expense)		22,479	13,691	15,090	(782)	50,478
Total operating expenses		(14,614)	(6,307)	(9,316)	(1,486)	(31,723)
Operating profit/(loss)		7,865	7,384	5,774	(2,268)	18,755
Share of profit in associates and joint ventures		32	—	—	2,412	2,444
Adjusted profit before tax		7,897	7,384	5,774	144	21,199
		%	%	%	%	%
Share of HSBC's adjusted profit before tax		37.3	34.8	27.2	0.7	100.0
Adjusted cost efficiency ratio		62.1	43.9	61.9	(168.3)	60.9
Adjusted balance sheet data		\$m	\$m	\$m	\$m	\$m
Loans and advances to customers (net)		419,231	344,855	253,319	1,599	1,019,004
Interests in associates and joint ventures		399	—	—	22,753	23,152
Total external assets		741,222	520,403	1,261,807	128,021	2,651,453
Customer accounts		729,902	372,551	306,438	831	1,409,722

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

2 A change in reportable segments was made in 2020. Comparative data have been re-presented accordingly.

Reported external net operating income is attributed to countries and territories on the basis of the location of the branch responsible for reporting the results or advancing the funds:

	Footnotes	2020 \$m	2019 \$m	2018 \$m
<b>Reported external net operating income by country/territory</b>	1	<b>50,429</b>	56,098	53,780
– UK		<b>9,163</b>	9,011	10,340
– Hong Kong		<b>15,783</b>	18,449	17,162
– US		<b>4,474</b>	4,471	4,379
– France		<b>1,753</b>	1,942	1,898
– other countries		<b>19,256</b>	22,225	20,001

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

## Adjusted results reconciliation

	2020			2019				2018			
	Adjusted \$m	Significant items \$m	Reported \$m	Adjusted \$m	Currency translation \$m	Significant items \$m	Reported \$m	Adjusted \$m	Currency translation \$m	Significant items \$m	Reported \$m
Revenue	50,366	63	50,429	54,944	471	683	56,098	52,098	1,854	(172)	53,780
ECL	(8,817)	—	(8,817)	(2,627)	(129)	—	(2,756)	(1,620)	(147)	—	(1,767)
Operating expenses	(31,459)	(2,973)	(34,432)	(32,519)	(223)	(9,607)	(42,349)	(31,723)	(1,280)	(1,656)	(34,659)
Share of profit in associates and joint ventures	2,059	(462)	1,597	2,351	3	—	2,354	2,444	92	—	2,536
<b>Profit/(loss) before tax</b>	<b>12,149</b>	<b>(3,372)</b>	<b>8,777</b>	22,149	122	(8,924)	13,347	21,199	519	(1,828)	19,890

1 Net operating income before change in expected credit losses and other credit impairment charges, also referred to as revenue.

## Adjusted balance sheet reconciliation

	2020		2019		2018		
	Reported and adjusted \$m	Adjusted \$m	Currency translation \$m	Reported \$m	Adjusted \$m	Currency translation \$m	Reported \$m
Loans and advances to customers (net)	1,037,987	1,062,696	(25,953)	1,036,743	1,019,004	(37,308)	981,696
Interests in associates and joint ventures	26,684	25,420	(946)	24,474	23,152	(745)	22,407
Total external assets	2,984,164	2,783,811	(68,659)	2,715,152	2,651,453	(93,329)	2,558,124
Customer accounts	1,642,780	1,470,207	(31,092)	1,439,115	1,409,722	(47,079)	1,362,643

## Adjusted profit reconciliation

	2020 \$m	2019 \$m	2018 \$m
<b>Year ended 31 Dec</b>			
<b>Adjusted profit before tax</b>	<b>12,149</b>	22,149	21,199
Significant items	(3,372)	(8,924)	(1,828)
– customer redress programmes (revenue)	(21)	(163)	53
– disposals, acquisitions and investment in new businesses (revenue)	(10)	768	(113)
– fair value movements on financial instruments	264	84	(100)
– restructuring and other related costs (revenue)	(170)	—	—
– costs of structural reform	—	(158)	(361)
– customer redress programmes (operating expenses)	54	(1,281)	(146)
– disposals, acquisitions and investment in new businesses (operating expenses)	—	—	(52)
– impairment of goodwill and other intangible assets	(1,090)	(7,349)	—
– past service costs of guaranteed minimum pension benefits equalisation	(17)	—	(228)
– restructuring and other related costs (operating expenses)	(1,908)	(827)	(66)
– settlements and provisions in connection with legal and other regulatory matters	(12)	61	(816)
– impairment of goodwill (share of profit in associates and joint ventures)	(462)	—	—
– currency translation on significant items	—	(59)	1
Currency translation	—	122	519
<b>Reported profit before tax</b>	<b>8,777</b>	13,347	19,890

1 Includes fair value movements on non-qualifying hedges and debt valuation adjustments on derivatives.

2 Comprises losses associated with the RWA reduction commitments and gains relating to the business update in February 2020.

3 Comprises costs associated with preparations for the UK's exit from the European Union, costs to establish the UK ring-fenced bank (including the UK ServCo group) and costs associated with establishing an intermediate holding company in Hong Kong.

4 Includes impairment of software intangible assets of \$189m (of the total software intangible asset impairment of \$1,347m) and impairment of tangible assets of \$197m.

5 During the year, The Saudi British Bank ('SABB'), an associate of HSBC, impaired the goodwill that arose following the merger with Alawwal bank in 2019. HSBC's post-tax share of the goodwill impairment was \$462m.

## 11 Trading assets

	2020 \$m	2019 \$m
Treasury and other eligible bills	24,035	21,789
Debt securities	102,846	126,043
Equity securities	77,643	78,827
<b>Trading securities</b>	<b>204,524</b>	<b>226,659</b>
Loans and advances to banks	8,242	8,402
Loans and advances to customers	19,224	19,210
<b>Year ended 31 Dec</b>	<b>231,990</b>	<b>254,271</b>

1 Loans and advances to banks and customers include reverse repos, stock borrowing and other accounts.

## Notes on the financial statements

### Trading securities<sup>1</sup>

	Footnotes	2020 \$m	2019 \$m
US Treasury and US Government agencies	2	17,393	25,722
UK Government		8,046	10,040
Hong Kong Government		6,500	9,783
Other governments		70,580	72,456
Asset-backed securities	3	4,253	4,691
Corporate debt and other securities		20,109	25,140
Equity securities		77,643	78,827
<b>At 31 Dec</b>		<b>204,524</b>	<b>226,659</b>

1 Included within these figures are debt securities issued by banks and other financial institutions of \$10,876m (2019: \$17,846m), of which \$1,298m (2019: \$2,637m) are guaranteed by various governments.

2 Includes securities that are supported by an explicit guarantee issued by the US Government.

3 Excludes asset-backed securities included under US Treasury and US Government agencies.

## 12 Fair values of financial instruments carried at fair value

### Control framework

Fair values are subject to a control framework designed to ensure that they are either determined or validated by a function independent of the risk taker.

Where fair values are determined by reference to externally quoted prices or observable pricing inputs to models, independent price determination or validation is used. For inactive markets, HSBC sources alternative market information, with greater weight given to information that is considered to be more relevant and reliable. Examples of the factors considered are price observability, instrument comparability, consistency of data sources, underlying data accuracy and timing of prices.

For fair values determined using valuation models, the control framework includes development or validation by independent support functions of the model logic, inputs, model outputs and adjustments. Valuation models are subject to a process of due diligence before becoming operational and are calibrated against external market data on an ongoing basis.

Changes in fair value are generally subject to a profit and loss analysis process and are disaggregated into high-level categories including portfolio changes, market movements and other fair value adjustments.

The majority of financial instruments measured at fair value are in GBM. GBM's fair value governance structure comprises its Finance function, Valuation Committees and a Valuation Committee Review Group. Finance is responsible for establishing procedures governing valuation and ensuring fair values are in compliance with accounting standards. The fair values are reviewed by the Valuation Committees, which consist of independent support functions. These committees are overseen by the Valuation Committee Review Group, which considers all material subjective valuations.

### Financial liabilities measured at fair value

In certain circumstances, HSBC records its own debt in issue at fair value, based on quoted prices in an active market for the specific instrument. When quoted market prices are unavailable, the own debt in issue is valued using valuation techniques, the inputs for which are either based on quoted prices in an inactive market for the instrument or are estimated by comparison with quoted prices in an active market for similar instruments. In both cases, the fair value includes the effect of applying the credit spread that is appropriate to HSBC's liabilities. The change in fair value of issued debt securities attributable to the Group's own credit spread is computed as follows: for each security at each reporting date, an externally verifiable price is obtained or a price is derived using credit spreads for similar securities for the same issuer. Then, using discounted cash flow, each security is valued using a Libor-based discount curve. The difference in the valuations is attributable to the Group's own credit spread. This methodology is applied consistently across all securities.

Structured notes issued and certain other hybrid instruments are included within trading liabilities and are measured at fair value. The credit spread applied to these instruments is derived from the spreads at which HSBC issues structured notes.

Gains and losses arising from changes in the credit spread of liabilities issued by HSBC, recorded in other comprehensive income, reverse over the contractual life of the debt, provided that the debt is not repaid at a premium or a discount.

### Fair value hierarchy

Fair values of financial assets and liabilities are determined according to the following hierarchy:

- Level 1 – valuation technique using quoted market price. These are financial instruments with quoted prices for identical instruments in active markets that HSBC can access at the measurement date.
- Level 2 – valuation technique using observable inputs. These are financial instruments with quoted prices for similar instruments in active markets or quoted prices for identical or similar instruments in inactive markets and financial instruments valued using models where all significant inputs are observable.
- Level 3 – valuation technique with significant unobservable inputs. These are financial instruments valued using valuation techniques where one or more significant inputs are unobservable.

## Financial instruments carried at fair value and bases of valuation

	2020				2019			
	Level 1 \$m	Level 2 \$m	Level 3 \$m	Total \$m	Level 1 \$m	Level 2 \$m	Level 3 \$m	Total \$m
<b>Recurring fair value measurements at 31 Dec</b>								
<b>Assets</b>								
Trading assets	167,980	61,511	2,499	231,990	186,653	62,639	4,979	254,271
Financial assets designated and otherwise mandatorily measured at fair value through profit or loss	19,711	14,365	11,477	45,553	18,626	15,525	9,476	43,627
Derivatives	2,602	302,454	2,670	307,726	1,728	239,131	2,136	242,995
Financial investments	303,654	94,746	3,654	402,054	261,341	93,018	3,218	357,577
<b>Liabilities</b>								
Trading liabilities	53,290	21,814	162	75,266	66,925	16,192	53	83,170
Financial liabilities designated at fair value	1,267	150,866	5,306	157,439	9,549	149,901	5,016	164,466
Derivatives	1,788	297,025	4,188	303,001	1,331	235,864	2,302	239,497

Balances from 2019 have been re-presented to disclose a consistent application of the levelling methodology, primarily for private debt and equity and real estate investments during the period. This resulted in \$15.1bn and \$2.9bn moving into Levels 2 and 3, respectively, from Level 1. The change has impacted the disclosure for 'Financial investments' and 'Financial assets designated and otherwise mandatorily measured at fair value'.

## Transfers between Level 1 and Level 2 fair values

	Assets				Liabilities			
	Financial investments	Trading assets	Designated and otherwise mandatorily measured at fair value	Derivatives	Trading liabilities	Designated at fair value	Derivatives	
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
<b>At 31 Dec 2020</b>								
Transfers from Level 1 to Level 2	4,514	3,891	245	—	155	7,414	—	
Transfers from Level 2 to Level 1	7,764	5,517	328	1	433	—	—	
<b>At 31 Dec 2019</b>								
Transfers from Level 1 to Level 2	7,965	3,304	—	24	278	—	—	
Transfers from Level 2 to Level 1	4,184	2,726	673	111	220	—	117	

Balances from 2019 have been re-presented to disclose a consistent application of the levelling methodology.

Transfers between levels of the fair value hierarchy are deemed to occur at the end of each quarterly reporting period. Transfers into and out of levels of the fair value hierarchy are primarily attributable to observability of valuation inputs and price transparency.

## Fair value adjustments

We adopt the use of fair value adjustments when we take into consideration additional factors not incorporated within the valuation model that would otherwise be considered by a market participant. We classify fair value adjustments as either 'risk-related' or 'model-related'. The majority of these adjustments relate to GBM. Movements in the level of fair value adjustments do not necessarily result in the recognition of profits or losses within the income statement. For example, as models are enhanced, fair value adjustments may no longer be required. Similarly, fair value adjustments will decrease when the related positions are unwound, but this may not result in profit or loss.

## Global Banking and Markets fair value adjustments

	2020		2019	
	GBM \$m	Corporate Centre \$m	GBM \$m	Corporate Centre \$m
<b>Type of adjustment</b>				
Risk-related	1,170	28	1,118	47
– bid-offer	514	—	506	1
– uncertainty	106	1	115	1
– credit valuation adjustment	445	27	355	38
– debt valuation adjustment	(120)	—	(126)	—
– funding fair value adjustment	204	—	241	7
– other	21	—	27	—
Model-related	74	—	71	3
– model limitation	70	—	68	3
– other	4	—	3	—
Inception profit (Day 1 P&L reserves)	104	—	72	—
<b>At 31 Dec</b>	<b>1,348</b>	<b>28</b>	<b>1,261</b>	<b>50</b>

We reallocated our reporting of Markets Treasury and the funding costs of HSBC Holdings debt from Corporate Centre to the global businesses. Comparative data have been re-presented accordingly.

Fair value adjustment changes were mainly driven by an increase in inception profit (Day 1 P&L reserves), and an increase in credit valuation adjustment ('CVA') due to widening credit spreads and changes to derivative exposures caused by interest rates moves.

## Notes on the financial statements

### **Bid-offer**

IFRS 13 'Fair value measurement' requires the use of the price within the bid-offer spread that is most representative of fair value. Valuation models will typically generate mid-market values. The bid-offer adjustment reflects the extent to which bid-offer costs would be incurred if substantially all residual net portfolio market risks were closed using available hedging instruments or by disposing of or unwinding the position.

### **Uncertainty**

Certain model inputs may be less readily determinable from market data and/or the choice of model itself may be more subjective. In these circumstances, an adjustment may be necessary to reflect the likelihood that market participants would adopt more conservative values for uncertain parameters and/or model assumptions than those used in HSBC's valuation model.

### **Credit and debt valuation adjustments**

The credit valuation adjustment ('CVA') is an adjustment to the valuation of over-the-counter ('OTC') derivative contracts to reflect the possibility that the counterparty may default and that HSBC may not receive the full market value of the transactions.

The debt valuation adjustment ('DVA') is an adjustment to the valuation of OTC derivative contracts to reflect the possibility that HSBC may default, and that it may not pay the full market value of the transactions.

HSBC calculates a separate CVA and DVA for each legal entity, and for each counterparty to which the entity has exposure. With the exception of central clearing parties, all third-party counterparties are included in the CVA and DVA calculations, and these adjustments are not netted across Group entities.

HSBC calculates the CVA by applying the probability of default ('PD') of the counterparty, conditional on the non-default of HSBC, to HSBC's expected positive exposure to the counterparty and multiplying the result by the loss expected in the event of default. Conversely, HSBC calculates the DVA by applying the PD of HSBC, conditional on the non-default of the counterparty, to the expected positive exposure of the counterparty to HSBC and multiplying the result by the loss expected in the event of default. Both calculations are performed over the life of the potential exposure.

For most products HSBC uses a simulation methodology, which incorporates a range of potential exposures over the life of the portfolio, to calculate the expected positive exposure to a counterparty. The simulation methodology includes credit mitigants, such as counterparty netting agreements and collateral agreements with the counterparty.

The methodologies do not, in general, account for 'wrong-way risk'. Wrong-way risk is an adverse correlation between the counterparty's probability of default and the mark-to-market value of the underlying transaction. The risk can either be general, perhaps related to the currency of the issuer country, or specific to the transaction concerned. When there is significant wrong-way risk, a trade-specific approach is applied to reflect this risk in the valuation.

### **Funding fair value adjustment**

The funding fair value adjustment ('FFVA') is calculated by applying future market funding spreads to the expected future funding exposure of any uncollateralised component of the OTC derivative portfolio. The expected future funding exposure is calculated by a simulation methodology, where available, and is adjusted for events that may terminate the exposure, such as the default of HSBC or the counterparty. The FFVA and DVA are calculated independently.

### **Model limitation**

Models used for portfolio valuation purposes may be based upon a simplified set of assumptions that do not capture all current and future material market characteristics. In these circumstances, model limitation adjustments are adopted.

### **Inception profit (Day 1 P&L reserves)**

Inception profit adjustments are adopted when the fair value estimated by a valuation model is based on one or more significant unobservable inputs. The accounting for inception profit adjustments is discussed in Note 1.



## Fair value valuation bases

### Financial instruments measured at fair value using a valuation technique with significant unobservable inputs – Level 3

	Assets					Liabilities			
	Financial investments	Trading assets	Designated and otherwise mandatorily measured at fair value through profit or loss	Derivatives	Total	Trading liabilities	Designated at fair value	Derivatives	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Private equity including strategic investments	930	4	10,971	–	11,905	4	–	–	4
Asset-backed securities	1,286	523	25	–	1,834	–	–	–	–
Loans held for securitisation	–	–	–	–	–	–	–	–	–
Structured notes	–	–	–	–	–	29	5,301	–	5,330
Derivatives with monolines	–	–	–	68	68	–	–	–	–
Other derivatives	–	–	–	2,602	2,602	–	–	4,187	4,187
Other portfolios	1,438	1,972	481	–	3,891	129	5	1	135
<b>At 31 Dec 2020</b>	<b>3,654</b>	<b>2,499</b>	<b>11,477</b>	<b>2,670</b>	<b>20,300</b>	<b>162</b>	<b>5,306</b>	<b>4,188</b>	<b>9,656</b>
Private equity including strategic investments	716	4	8,831	–	9,551	4	–	–	4
Asset-backed securities	874	934	28	–	1,836	–	–	–	–
Loans held for securitisation	–	1	39	–	40	–	–	–	–
Structured notes	–	3	–	–	3	47	5,016	–	5,063
Derivatives with monolines	–	–	–	66	66	–	–	–	–
Other derivatives	–	–	–	2,070	2,070	–	–	2,302	2,302
Other portfolios	1,628	4,037	578	–	6,243	2	–	–	2
<b>At 31 Dec 2019</b>	<b>3,218</b>	<b>4,979</b>	<b>9,476</b>	<b>2,136</b>	<b>19,809</b>	<b>53</b>	<b>5,016</b>	<b>2,302</b>	<b>7,371</b>

Balances from 2019 have been re-presented to disclose a consistent application of the levelling methodology. This resulted in an increase of \$2.9bn of assets in Level 3. 'Other portfolios' increased by \$1.4bn and 'Private equity including strategic investments' increased by \$1.5bn.

Level 3 instruments are present in both ongoing and legacy businesses. Loans held for securitisation, derivatives with monolines, certain 'other derivatives' and predominantly all Level 3 ABSs are legacy positions. HSBC has the capability to hold these positions.

#### Private equity including strategic investments

The fair value of a private equity investment (including strategic investments) is estimated on the basis of an analysis of the investee's financial position and results, risk profile, prospects and other factors; by reference to market valuations for similar entities quoted in an active market; the price at which similar companies have changed ownership; or from published net asset values ('NAVs') received. If necessary, adjustments are made to the NAV of funds to obtain the best estimate of fair value.

#### Asset-backed securities

While quoted market prices are generally used to determine the fair value of the asset-backed securities ('ABSs'), valuation models are used to substantiate the reliability of the limited market data available and to identify whether any adjustments to quoted market prices are required. For certain ABSs, such as residential mortgage-backed securities, the valuation uses an industry standard model with assumptions relating to prepayment speeds, default rates and loss severity based on collateral type, and performance, as appropriate. The valuations output is benchmarked for consistency against observable data for securities of a similar nature.

#### Structured notes

The fair value of Level 3 structured notes is derived from the fair value of the underlying debt security, and the fair value of the embedded derivative is determined as described in the paragraph below on derivatives. These structured notes comprise principally equity-linked notes issued by HSBC, which provide the counterparty with a return linked to the performance of equity securities and other portfolios.

Examples of the unobservable parameters include long-dated equity volatilities and correlations between equity prices, and interest and foreign exchange rates.

#### Derivatives

OTC derivative valuation models calculate the present value of expected future cash flows, based upon 'no arbitrage' principles. For many vanilla derivative products, the modelling approaches used are standard across the industry. For more complex derivative products, there may be some differences in market practice. Inputs to valuation models are determined from observable market data wherever possible, including prices available from exchanges, dealers, brokers or providers of consensus pricing. Certain inputs may not be observable in the market directly, but can be determined from observable prices via model calibration procedures or estimated from historical data or other sources.

## Notes on the financial statements

### Reconciliation of fair value measurements in Level 3 of the fair value hierarchy

#### Movement in Level 3 financial instruments

	Assets				Liabilities		
	Financial investments	Trading assets	Designated and otherwise mandatorily measured at fair value through profit or loss	Derivatives	Trading liabilities	Designated at fair value	Derivatives
<b>At 1 Jan 2020</b>	<b>3,218</b>	<b>4,979</b>	<b>9,476</b>	<b>2,136</b>	<b>53</b>	<b>5,016</b>	<b>2,302</b>
Total gains/(losses) recognised in profit or loss	<b>17</b>	<b>(6)</b>	<b>504</b>	<b>2,281</b>	<b>307</b>	<b>(59)</b>	<b>3,398</b>
– net income/(losses) from financial instruments held for trading or managed on a fair value basis	–	(6)	–	2,281	307	–	3,398
– changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	–	–	504	–	–	(59)	–
– gains less losses from financial investments at fair value through other comprehensive income	17	–	–	–	–	–	–
– expected credit loss charges and other credit risk charges	–	–	–	–	–	–	–
Total gains recognised in other comprehensive income ('OCI') <sup>1</sup>	<b>394</b>	<b>115</b>	<b>286</b>	<b>143</b>	<b>17</b>	<b>204</b>	<b>169</b>
– financial investments: fair value gains	270	–	–	–	–	–	–
– exchange differences	124	115	286	143	17	204	169
Purchases	671	687	3,701	–	66	–	–
New issuances	–	–	1	–	6	1,876	–
Sales	(674)	(1,579)	(2,042)	–	(260)	–	–
Settlements	(530)	(1,122)	(435)	(1,542)	(26)	(1,531)	(1,462)
Transfers out	(101)	(1,790)	(140)	(565)	(9)	(777)	(528)
Transfers in	659	1,215	126	217	8	577	309
<b>At 31 Dec 2020</b>	<b>3,654</b>	<b>2,499</b>	<b>11,477</b>	<b>2,670</b>	<b>162</b>	<b>5,306</b>	<b>4,188</b>
Unrealised gains/(losses) recognised in profit or loss relating to assets and liabilities held at 31 Dec 2020	–	(32)	412	707	1	(91)	(1,621)
– net income/(losses) from financial instruments held for trading or managed on a fair value basis	–	(32)	–	707	1	–	(1,621)
– changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss	–	–	412	–	–	(91)	–
– loan impairment recoveries and other credit risk provisions	–	–	–	–	–	–	–

## Movement in Level 3 financial instruments (continued)

	Assets				Liabilities			
	Footnotes	Financial investments	Trading assets	Designated and otherwise mandatorily measured at fair value through profit or loss	Derivatives	Trading liabilities	Designated at fair value	Derivatives
		\$m	\$m	\$m	\$m	\$m	\$m	\$m
At 1 Jan 2019		2,796	6,759	7,080	2,423	58	5,328	1,756
Total gains/(losses) recognised in profit or loss		6	(112)	587	278	(4)	195	930
- net income/(losses) from financial instruments held for trading or managed on a fair value basis		—	(112)	—	278	(4)	—	930
- changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss		—	—	587	—	—	195	—
- gains less losses from financial investments at fair value through other comprehensive income		10	—	—	—	—	—	—
- expected credit loss charges and other credit risk charges		(4)	—	—	—	—	—	—
Total gains/(losses) recognised in other comprehensive income ('OCI')	1	309	76	(4)	49	1	18	52
- financial investments: fair value gains		301	—	—	—	—	—	—
- exchange differences		8	76	(4)	49	1	18	52
Purchases		693	2,206	2,506	—	8	157	—
New issuances		—	154	—	—	6	1,601	—
Sales		(56)	(895)	(276)	—	(9)	(193)	—
Settlements		(329)	(2,107)	(434)	(100)	(7)	(1,048)	(162)
Transfers out		(488)	(1,558)	(23)	(710)	(9)	(1,079)	(473)
Transfers in		287	456	40	196	9	37	199
At 31 Dec 2019		3,218	4,979	9,476	2,136	53	5,016	2,302
Unrealised gains/(losses) recognised in profit or loss relating to assets and liabilities held at 31 Dec 2019		(4)	(22)	465	279	—	57	(407)
- net income/(losses) from financial instruments held for trading or managed on a fair value basis		—	(22)	—	279	—	—	(407)
- changes in fair value of other financial instruments mandatorily measured at fair value through profit or loss		—	—	465	—	—	57	—
- loan impairment recoveries and other credit risk provisions		(4)	—	—	—	—	—	—

1 Included in 'financial investments: fair value gains/(losses)' in the current year and 'exchange differences' in the consolidated statement of comprehensive income.

Balances from 2019 have been re-presented to disclose a consistent application of the levelling methodology. The result of this is an increase of \$2.9bn of assets in Level 3. 'Financial investments' increased by \$1.2bn and 'Private equity including strategic investments financial assets designated and otherwise mandatorily measured at fair value' increased by \$1.7bn.

Transfers between levels of the fair value hierarchy are deemed to occur at the end of each quarterly reporting period. Transfers into and out of levels of the fair value hierarchy are primarily attributable to observability of valuation inputs and price transparency.

## Effect of changes in significant unobservable assumptions to reasonably possible alternatives

### Sensitivity of fair values to reasonably possible alternative assumptions

	Footnotes	2020				2019			
		Reflected in profit or loss		Reflected in OCI		Reflected in profit or loss		Reflected in OCI	
		Favourable changes \$m	Un-favourable changes \$m	Favourable changes \$m	Un-favourable changes \$m	Favourable changes \$m	Un-favourable changes \$m	Favourable changes \$m	Un-favourable changes \$m
Derivatives, trading assets and trading liabilities	1	229	(244)	—	—	255	(230)	—	—
Financial assets and liabilities designated and otherwise mandatorily measured at fair value through profit or loss		644	(643)	—	—	618	(503)	—	—
Financial investments		35	(35)	110	(110)	48	(53)	81	(81)
<b>At 31 Dec</b>		<b>908</b>	<b>(922)</b>	<b>110</b>	<b>(110)</b>	<b>921</b>	<b>(786)</b>	<b>81</b>	<b>(81)</b>

1 'Derivatives, trading assets and trading liabilities' are presented as one category to reflect the manner in which these instruments are risk-managed.

## Notes on the financial statements

Balances from 2019 have been re-presented to disclose a consistent application of the levelling methodology. The result of this is an increase in 'Financial investments reflected through OCI' and 'Financial asset designated and mandatorily measured at fair value reflected in profit or loss' of \$59m and \$86m respectively.

The sensitivity analysis aims to measure a range of fair values consistent with the application of a 95% confidence interval. Methodologies take account of the nature of the valuation technique employed, as well as the availability and reliability of observable proxy and historical data.

When the fair value of a financial instrument is affected by more than one unobservable assumption, the above table reflects the most favourable or the most unfavourable change from varying the assumptions individually.

### Key unobservable inputs to Level 3 financial instruments

The following table lists key unobservable inputs to Level 3 financial instruments and provides the range of those inputs at 31 December 2020.

#### Quantitative information about significant unobservable inputs in Level 3 valuations

	Fair value		Valuation techniques	Key unobservable inputs	2020		2019	
	Assets	Liabilities			Full range of inputs		Full range of inputs	
	\$m	\$m			Lower	Higher	Lower	Higher
Private equity including strategic investments	11,905	4	See below	See below				
Asset-backed securities	1,834	–						
– collateralised loan/debt obligation	59	–	Market proxy	Prepayment rate	0%	9%	0%	9%
– other ABSs	1,775	–	Market proxy	Bid quotes	0	100	0	100
Loans held for securitisation	–	–	Market proxy	Bid quotes	0	101	0	101
Structured notes	–	5,330						
– equity-linked notes	–	4,069	Model – Option model	Equity volatility	6%	115%	5%	90%
– FX-linked notes	–	608	Model – Option model	Equity correlation	(4)%	88%	9%	93%
– other	–	653	Model – Option model	FX volatility	0%	36%	1%	23%
Derivatives with monolines	68	–	Model – Discounted cash flow	Credit spread	2%	2%	0%	2%
Other derivatives	2,602	4,187						
– interest rate derivatives	1,300	1,414						
– securitisation swaps	285	707	Model – Discounted cash flow	Prepayment rate	6%	6%	6%	7%
– long-dated swaptions	529	370	Model – Option model	IR volatility	6%	28%	8%	22%
– other	486	337						
– FX derivatives	468	466						
– FX options	152	194	Model – Option model	FX volatility	0%	43%	1%	25%
– other	316	272						
– equity derivatives	754	2,244						
– long-dated single stock options	583	1,091	Model – Option model	Equity volatility	0%	120%	0%	89%
– other	171	1,153						
– credit derivatives	80	63						
– other	80	63						
Other portfolios	3,891	135						
– structured certificates	–	–	Model – Discounted cash flow	Credit volatility	–	–	4%	4%
– repurchase agreements	872	128	Model – Discounted cash flow	IR curve	0%	5%	1%	8%
– other <sup>1</sup>	3,019	7						
<b>At 31 Dec 2020</b>	<b>20,300</b>	<b>9,656</b>						

<sup>1</sup> 'Other' includes a range of smaller asset holdings.

### Private equity including strategic investments

Given the bespoke nature of the analysis in respect of each private equity holding, it is not practical to quote a range of key unobservable inputs.

#### Prepayment rates

Prepayment rates are a measure of the anticipated future speed at which a loan portfolio will be repaid in advance of the due date. They vary according to the nature of the loan portfolio and expectations of future market conditions, and may be estimated using a variety of evidence, such as prepayment rates implied from proxy observable security prices, current or historical prepayment rates and macroeconomic modelling.

#### Market proxy

Market proxy pricing may be used for an instrument when specific market pricing is not available but there is evidence from instruments with common characteristics. In some cases it might be possible to identify a specific proxy, but more generally evidence across a wider range of instruments will be used to understand the factors that influence current market pricing and the manner of that influence.

#### Volatility

Volatility is a measure of the anticipated future variability of a market price. It varies by underlying reference market price, and by strike and maturity of the option. Certain volatilities, typically those of a longer-dated nature, are unobservable and are estimated from observable data. The range of unobservable volatilities reflects the wide variation in volatility inputs by reference market price. The core range is significantly narrower than the full range because these examples with extreme volatilities occur relatively rarely within the HSBC portfolio.

## Correlation

Correlation is a measure of the inter-relationship between two market prices and is expressed as a number between minus one and one. It is used to value more complex instruments where the payout is dependent upon more than one market price. There is a wide range of instruments for which correlation is an input, and consequently a wide range of both same-asset correlations and cross-asset correlations is used. In general, the range of same-asset correlations will be narrower than the range of cross-asset correlations.

Unobservable correlations may be estimated based upon a range of evidence, including consensus pricing services, HSBC trade prices, proxy correlations and examination of historical price relationships. The range of unobservable correlations quoted in the table reflects the wide variation in correlation inputs by market price pair.

## Credit spread

Credit spread is the premium over a benchmark interest rate required by the market to accept lower credit quality. In a discounted cash flow model, the credit spread increases the discount factors applied to future cash flows, thereby reducing the value of an asset. Credit spreads may be implied from market prices and may not be observable in more illiquid markets.

## Inter-relationships between key unobservable inputs

Key unobservable inputs to Level 3 financial instruments may not be independent of each other. As described above, market variables may be correlated. This correlation typically reflects the manner in which different markets tend to react to macroeconomic or other events. Furthermore, the effect of changing market variables on the HSBC portfolio will depend on HSBC's net risk position in respect of each variable.

## HSBC Holdings

### Basis of valuing HSBC Holdings' financial assets and liabilities measured at fair value

	2020 \$m	2019 \$m
<b>Valuation technique using observable inputs: Level 2</b>		
<b>Assets at 31 Dec</b>		
– derivatives	4,698	2,002
– designated and otherwise mandatorily measured at fair value through profit or loss	65,253	61,964
<b>Liabilities at 31 Dec</b>		
– designated at fair value	25,664	30,303
– derivatives	3,060	2,021

## 13 Fair values of financial instruments not carried at fair value

### Fair values of financial instruments not carried at fair value and bases of valuation

	Fair value				Total \$m
	Carrying amount \$m	Quoted market price Level 1 \$m	Observable inputs Level 2 \$m	Significant unobservable inputs Level 3 \$m	
<b>At 31 Dec 2020</b>					
<b>Assets</b>					
Loans and advances to banks	81,616	–	80,457	1,339	81,796
Loans and advances to customers	1,037,987	–	9,888	1,025,573	1,035,461
Reverse repurchase agreements – non-trading	230,628	–	230,330	272	230,602
Financial investments – at amortised cost	88,639	28,722	67,572	507	96,801
<b>Liabilities</b>					
Deposits by banks	82,080	–	81,996	–	81,996
Customer accounts	1,642,780	–	1,642,988	143	1,643,131
Repurchase agreements – non-trading	111,901	3	111,898	–	111,901
Debt securities in issue	95,492	–	96,371	657	97,028
Subordinated liabilities	21,951	–	28,552	–	28,552
<b>At 31 Dec 2019</b>					
<b>Assets</b>					
Loans and advances to banks	69,203	–	68,508	739	69,247
Loans and advances to customers	1,036,743	–	10,365	1,027,178	1,037,543
Reverse repurchase agreements – non-trading	240,862	16	240,199	691	240,906
Financial investments – at amortised cost	85,735	26,202	62,572	287	89,061
<b>Liabilities</b>					
Deposits by banks	59,022	–	58,951	–	58,951
Customer accounts	1,439,115	–	1,439,362	150	1,439,512
Repurchase agreements – non-trading	140,344	–	140,344	–	140,344
Debt securities in issue	104,555	–	104,936	–	104,936
Subordinated liabilities	24,600	–	28,861	385	29,246

Other financial instruments not carried at fair value are typically short term in nature and reprice to current market rates frequently. Accordingly, their carrying amount is a reasonable approximation of fair value. They include cash and balances at central banks, items in the course of collection from and transmission to other banks, Hong Kong Government certificates of indebtedness and Hong Kong currency notes in circulation, all of which are measured at amortised cost.

## Notes on the financial statements

### Valuation

Fair value is an estimate of the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. It does not reflect the economic benefits and costs that HSBC expects to flow from an instrument's cash flow over its expected future life. Our valuation methodologies and assumptions in determining fair values for which no observable market prices are available may differ from those of other companies.

#### Loans and advances to banks and customers

To determine the fair value of loans and advances to banks and customers, loans are segregated, as far as possible, into portfolios of similar characteristics. Fair values are based on observable market transactions, when available. When they are unavailable, fair values are estimated using valuation models incorporating a range of input assumptions. These assumptions may include: value estimates from third-party brokers reflecting over-the-counter trading activity; forward-looking discounted cash flow models, taking account of expected customer prepayment rates, using assumptions that HSBC believes are consistent with those that would be used by market participants in valuing such loans; new business rates estimates for similar loans; and trading inputs from other market participants including observed primary and secondary trades. From time to time, we may engage a third-party valuation specialist to measure the fair value of a pool of loans.

The fair value of loans reflects expected credit losses at the balance sheet date and estimates of market participants' expectations of credit losses over the life of the loans, and the fair value effect of repricing between origination and the balance sheet date. For credit-impaired loans, fair value is estimated by discounting the future cash flows over the time period they are expected to be recovered.

#### Financial investments

The fair values of listed financial investments are determined using bid market prices. The fair values of unlisted financial investments are determined using valuation techniques that incorporate the prices and future earnings streams of equivalent quoted securities.

#### Deposits by banks and customer accounts

The fair values of on-demand deposits are approximated by their carrying value. For deposits with longer-term maturities, fair values are estimated using discounted cash flows, applying current rates offered for deposits of similar remaining maturities.

#### Debt securities in issue and subordinated liabilities

Fair values in debt securities in issue and subordinated liabilities are determined using quoted market prices at the balance sheet date where available, or by reference to quoted market prices for similar instruments.

#### Repurchase and reverse repurchase agreements – non-trading

Fair values of repurchase and reverse repurchase agreements that are held on a non-trading basis provide approximate carrying amounts. This is due to the fact that balances are generally short dated.

### HSBC Holdings

The methods used by HSBC Holdings to determine fair values of financial instruments for the purposes of measurement and disclosure are described above.

#### Fair values of HSBC Holdings' financial instruments not carried at fair value on the balance sheet

	2020		2019	
	Carrying amount	Fair value <sup>1</sup>	Carrying amount	Fair value <sup>1</sup>
	\$m	\$m	\$m	\$m
<b>Assets at 31 Dec</b>				
Loans and advances to HSBC undertakings	10,443	10,702	10,218	10,504
Financial investments – at amortised cost	17,485	17,521	16,106	16,121
<b>Liabilities at 31 Dec</b>				
Amounts owed to HSBC undertakings	330	330	464	464
Debt securities in issue	64,029	67,706	56,844	59,140
Subordinated liabilities	17,916	22,431	18,361	22,536

<sup>1</sup> Fair values (other than Level 1 financial investments) were determined using valuation techniques with observable inputs (Level 2).

## 14 Financial assets designated and otherwise mandatorily measured at fair value through profit or loss

	2020			2019		
	Designated at fair value	Mandatorily measured at fair value	Total	Designated at fair value	Mandatorily measured at fair value	Total
	\$m	\$m	\$m	\$m	\$m	\$m
Securities	2,492	39,088	41,580	2,344	35,808	38,152
– treasury and other eligible bills	635	26	661	630	31	661
– debt securities	1,857	5,250	7,107	1,714	4,838	6,552
– equity securities	–	33,812	33,812	–	30,939	30,939
Loans and advances to banks and customers	–	2,988	2,988	1	4,555	4,556
Other	–	985	985	–	919	919
<b>At 31 Dec</b>	<b>2,492</b>	<b>43,061</b>	<b>45,553</b>	<b>2,345</b>	<b>41,282</b>	<b>43,627</b>

## Securities<sup>1</sup>

Footnotes	2020			2019		
	Designated at fair value	Mandatorily measured at fair value	Total	Designated at fair value	Mandatorily measured at fair value	Total
	\$m	\$m	\$m	\$m	\$m	\$m
Hong Kong Government	22	—	22	4	—	4
Other governments	648	674	1,322	666	754	1,420
Asset-backed securities	2	235	235	—	363	363
Corporate debt and other securities	1,822	4,367	6,189	1,674	3,752	5,426
Equities	—	33,812	33,812	—	30,939	30,939
<b>At 31 Dec</b>	<b>2,492</b>	<b>39,088</b>	<b>41,580</b>	<b>2,344</b>	<b>35,808</b>	<b>38,152</b>

1 Included within these figures are debt securities issued by banks and other financial institutions of \$1,180m (2019 re-presented: \$1,244m), of which nil (2019: nil) are guaranteed by various governments.

2 Excludes asset-backed securities included under US Treasury and US Government agencies.

## 15 Derivatives

### Notional contract amounts and fair values of derivatives by product contract type held by HSBC

	Notional contract amount		Fair value – Assets			Fair value – Liabilities		
	Trading \$m	Hedging \$m	Trading \$m	Hedging \$m	Total \$m	Trading \$m	Hedging \$m	Total \$m
Foreign exchange	7,606,446	35,021	106,696	309	107,005	108,903	1,182	110,085
Interest rate	15,240,867	157,436	249,204	1,914	251,118	236,594	2,887	239,481
Equities	652,288	—	14,043	—	14,043	15,766	—	15,766
Credit	269,401	—	2,590	—	2,590	3,682	—	3,682
Commodity and other	120,259	—	2,073	—	2,073	3,090	—	3,090
<b>Gross total fair values</b>	<b>23,889,261</b>	<b>192,457</b>	<b>374,606</b>	<b>2,223</b>	<b>376,829</b>	<b>368,035</b>	<b>4,069</b>	<b>372,104</b>
Offset (Note 30)					(69,103)			(69,103)
<b>At 31 Dec 2020</b>	<b>23,889,261</b>	<b>192,457</b>	<b>374,606</b>	<b>2,223</b>	<b>307,726</b>	<b>368,035</b>	<b>4,069</b>	<b>303,001</b>
Foreign exchange	8,207,629	31,899	84,083	455	84,538	84,498	740	85,238
Interest rate	17,895,349	177,006	183,668	1,208	184,876	175,095	2,031	177,126
Equities	1,077,347	—	9,053	—	9,053	11,237	—	11,237
Credit	345,644	—	4,744	—	4,744	5,597	—	5,597
Commodity and other	93,245	—	1,523	—	1,523	2,038	—	2,038
Gross total fair values	27,619,214	208,905	283,071	1,663	284,734	278,465	2,771	281,236
Offset (Note 30)					(41,739)			(41,739)
At 31 Dec 2019	27,619,214	208,905	283,071	1,663	242,995	278,465	2,771	239,497

The notional contract amounts of derivatives held for trading purposes and derivatives designated in hedge accounting relationships indicate the nominal value of transactions outstanding at the balance sheet date. They do not represent amounts at risk.

Derivative assets and liabilities increased during 2020, driven by yield curve movements and changes in foreign exchange rates.

### Notional contract amounts and fair values of derivatives by product contract type held by HSBC Holdings with subsidiaries

	Notional contract amount		Assets			Liabilities		
	Trading \$m	Hedging \$m	Trading \$m	Hedging \$m	Total \$m	Trading \$m	Hedging \$m	Total \$m
Foreign exchange	23,413	—	506	—	506	870	—	870
Interest rate	47,569	34,006	966	3,221	4,187	2,176	8	2,184
<b>At 31 Dec 2020</b>	<b>70,982</b>	<b>34,006</b>	<b>1,472</b>	<b>3,221</b>	<b>4,693</b>	<b>3,046</b>	<b>8</b>	<b>3,054</b>
Foreign exchange	24,980	—	161	—	161	766	—	766
Interest rate	48,937	36,769	435	1,406	1,841	1,072	183	1,255
At 31 Dec 2019	73,917	36,769	596	1,406	2,002	1,838	183	2,021

## Use of derivatives

For details regarding the use of derivatives, see page 228 under 'Market risk'.

### Trading derivatives

Most of HSBC's derivative transactions relate to sales and trading activities. Sales activities include the structuring and marketing of derivative products to customers to enable them to take, transfer, modify or reduce current or expected risks. Trading activities include market-making and risk management. Market-making entails quoting bid and offer prices to other market participants for the purpose of generating revenue based on spread and volume. Risk management activity is undertaken to manage the risk arising from client transactions, with the principal purpose of retaining client margin. Other derivatives classified as held for trading include non-qualifying hedging derivatives.

Substantially all of HSBC Holdings' derivatives entered into with subsidiaries are managed in conjunction with financial liabilities designated at fair value.

## Notes on the financial statements

### Derivatives valued using models with unobservable inputs

The difference between the fair value at initial recognition (the transaction price) and the value that would have been derived had valuation techniques used for subsequent measurement been applied at initial recognition, less subsequent releases, is as shown in the following table:

#### Unamortised balance of derivatives valued using models with significant unobservable inputs

	Footnotes	2020 \$m	2019 \$m
Unamortised balance at 1 Jan		73	86
Deferral on new transactions		232	145
Recognised in the income statement during the year:		(205)	(154)
– amortisation		(116)	(80)
– subsequent to unobservable inputs becoming observable		(4)	(3)
– maturity, termination or offsetting derivative		(85)	(71)
Exchange differences		4	1
Other		–	(5)
<b>Unamortised balance at 31 Dec</b>	1	<b>104</b>	<b>73</b>

1 This amount is yet to be recognised in the consolidated income statement.

### Hedge accounting derivatives

HSBC applies hedge accounting to manage the following risks: interest rate, foreign exchange and net investment in foreign operations. Further details on how these risks arise and how they are managed by the Group can be found in the 'Risk review'.

#### Fair value hedges

HSBC enters into fixed-for-floating-interest-rate swaps to manage the exposure to changes in fair value caused by movements in market interest rates on certain fixed-rate financial instruments that are not measured at fair value through profit or loss, including debt securities held and issued.

#### HSBC hedging instrument by hedged risk

Hedged risk	Hedging instrument					Change in fair value <sup>2</sup> \$m
	Notional amount <sup>1</sup> \$m	Carrying amount		Balance sheet presentation		
		Assets \$m	Liabilities \$m			
Interest rate <sup>3</sup>	121,573	1,675	3,761	Derivatives	(1,894)	
<b>At 31 Dec 2020</b>	<b>121,573</b>	<b>1,675</b>	<b>3,761</b>		<b>(1,894)</b>	
Interest rate <sup>3</sup>	122,753	1,056	2,208	Derivatives	(1,531)	
At 31 Dec 2019	122,753	1,056	2,208		(1,531)	

1 The notional contract amounts of derivatives designated in qualifying hedge accounting relationships indicate the nominal value of transactions outstanding at the balance sheet date. They do not represent amounts at risk.

2 Used in effectiveness testing; comprising the full fair value change of the hedging instrument not excluding any component.

3 The hedged risk 'interest rate' includes inflation risk.

#### HSBC hedged item by hedged risk

Hedged risk	Hedged item				Change in fair value <sup>1</sup> \$m	Ineffectiveness	
	Carrying amount		Accumulated fair value hedge adjustments included in carrying amount <sup>2</sup>			Recognised in profit and loss \$m	Profit and loss presentation
	Assets \$m	Liabilities \$m	Assets \$m	Liabilities \$m			
	102,260		3,392		2,456		
				Financial assets designated and otherwise mandatorily measured at fair value through other comprehensive income			
Interest rate <sup>3</sup>	6		3	Loans and advances to banks	1	(11)	Net income from financial instruments held for trading or managed on a fair value basis
	2,280		56	Loans and advances to customers	21		
		12,148		1,620	Debt securities in issue	(613)	
		89		3	Deposits by banks	18	
<b>At 31 Dec 2020</b>	<b>104,546</b>	<b>12,237</b>	<b>3,451</b>	<b>1,623</b>	<b>1,883</b>	<b>(11)</b>	



### HSBC hedged item by hedged risk (continued)

Hedged risk	Hedged item					Ineffectiveness		
	Carrying amount		Accumulated fair value hedge adjustments included in carrying amount <sup>2</sup>			Change in fair value <sup>1</sup>	Recognised in profit and loss	Profit and loss presentation
	Assets	Liabilities	Assets	Liabilities	Balance sheet presentation			
	\$m	\$m	\$m	\$m		\$m	\$m	
	90,617		1,859		Financial assets designated and otherwise mandatorily measured at fair value through other comprehensive income	2,304		
Interest rate <sup>3</sup>	153		4		Loans and advances to banks	5	(7)	Net income from financial instruments held for trading or managed on a fair value basis
	1,897		12		Loans and advances to customers	24		
		15,206		797	Debt securities in issue	(1,011)		
		3,009		39	Deposits by banks	202		
At 31 Dec 2019	92,667	18,215	1,875	836		1,524	(7)	

- 1 Used in effectiveness testing; comprising amount attributable to the designated hedged risk that can be a risk component.
- 2 The accumulated amount of fair value adjustments remaining in the statement of financial position for hedged items that have ceased to be adjusted for hedging gains and losses were assets of \$855m for FVOCI and assets of \$17m for debt issued.
- 3 The hedged risk 'interest rate' includes inflation risk.

### HSBC Holdings hedging instrument by hedged risk

Hedged risk	Hedging instrument					Change in fair value <sup>2</sup>
	Notional amount <sup>1,4</sup>	Carrying amount			Balance sheet presentation	
		Assets	Liabilities	Derivatives		
Interest rate <sup>3</sup>	\$m	\$m	\$m	\$m	\$m	\$m
	34,006	3,221	8	8	Derivatives	1,927
<b>At 31 Dec 2020</b>	<b>34,006</b>	<b>3,221</b>	<b>8</b>	<b>8</b>		<b>1,927</b>
Interest rate <sup>3</sup>		36,769	1,406	183	Derivatives	1,704
At 31 Dec 2019		36,769	1,406	183		1,704

- 1 The notional contract amounts of derivatives designated in qualifying hedge accounting relationships indicate the nominal value of transactions outstanding at the balance sheet date; they do not represent amounts at risk.
- 2 Used in effectiveness testing; comprising the full fair value change of the hedging instrument not excluding any component.
- 3 The hedged risk 'interest rate' includes foreign exchange risk.
- 4 The notional amount of non-dynamic fair value hedges is equal to \$34,006m, of which the weighted-average maturity date is February 2028 and the weighted-average swap rate is 1.71%. The majority of these hedges are internal to the Group.

### HSBC Holdings hedged item by hedged risk

Hedged risk	Hedged item					Ineffectiveness		
	Carrying amount		Accumulated fair value hedge adjustments included in carrying amount <sup>2</sup>			Change in fair value <sup>1</sup>	Recognised in profit and loss	Profit and loss presentation
	Assets	Liabilities	Assets	Liabilities	Balance sheet presentation			
	\$m	\$m	\$m	\$m		\$m	\$m	
Interest rate <sup>3</sup>		37,338		3,027	Debt securities in issue	(1,910)	17	Net income from financial instruments held for trading or managed on a fair value basis
<b>At 31 Dec 2020</b>	<b>—</b>	<b>37,338</b>	<b>—</b>	<b>3,027</b>		<b>(1,910)</b>	<b>17</b>	
Interest rate <sup>3</sup>		38,126		1,088	Debt securities in issue	(1,697)	7	Net income from financial instruments held for trading or managed on a fair value basis
At 31 Dec 2019	—	38,126	—	1,088		(1,697)	7	

- 1 Used in effectiveness testing; comprising amount attributable to the designated hedged risk that can be a risk component.
- 2 The accumulated amount of fair value adjustments remaining in the statement of financial position for hedged items that have ceased to be adjusted for hedging gains and losses were liabilities of \$62.8m for debt issued.
- 3 The hedged risk 'interest rate' includes foreign exchange risk.

Sources of hedge ineffectiveness may arise from basis risk, including but not limited to the discount rates used for calculating the fair value of derivatives, hedges using instruments with a non-zero fair value, and notional and timing differences between the hedged items and hedging instruments.

For some debt securities held, HSBC manages interest rate risk in a dynamic risk management strategy. The assets in scope of this strategy are high-quality fixed-rate debt securities, which may be sold to meet liquidity and funding requirements.

The interest rate risk of the HSBC fixed-rate debt securities issued is managed in a non-dynamic risk management strategy.

## Notes on the financial statements

### Cash flow hedges

HSBC's cash flow hedging instruments consist principally of interest rate swaps and cross-currency swaps that are used to manage the variability in future interest cash flows of non-trading financial assets and liabilities, arising due to changes in market interest rates and foreign-currency basis.

HSBC applies macro cash flow hedging for interest rate risk exposures on portfolios of replenishing current and forecasted issuances of non-trading assets and liabilities that bear interest at variable rates, including rolling such instruments. The amounts and timing of future cash flows, representing both principal and interest flows, are projected for each portfolio of financial assets and liabilities on the basis of their contractual terms and other relevant factors, including estimates of prepayments and defaults. The aggregate cash flows representing both principal balances and interest cash flows across all portfolios are used to determine the effectiveness and ineffectiveness. Macro cash flow hedges are considered to be dynamic hedges.

HSBC also hedges the variability in future cash flows on foreign-denominated financial assets and liabilities arising due to changes in foreign exchange market rates with cross-currency swaps, which are considered dynamic hedges.

### Hedging instrument by hedged risk

Hedged risk	Hedging instrument				Hedged item		Ineffectiveness	
	Carrying amount				Change in fair value <sup>2</sup>	Change in fair value <sup>3</sup>	Recognised in profit and loss	Profit and loss presentation
	Notional amount <sup>1</sup>	Assets	Liabilities	Balance sheet presentation				
	\$m	\$m	\$m		\$m	\$m	\$m	
Foreign currency	24,506	309	448	Derivatives	(630)	(630)	—	Net income from financial instruments held for trading or managed on a fair value basis
Interest rate	35,863	239	2	Derivatives	519	514	5	
<b>At 31 Dec 2020</b>	<b>60,369</b>	<b>548</b>	<b>450</b>		<b>(111)</b>	<b>(116)</b>	<b>5</b>	
Foreign currency	21,385	455	254	Derivatives	341	341	—	Net income from financial instruments held for trading or managed on a fair value basis
Interest rate	54,253	152	46	Derivatives	195	193	2	
<b>At 31 Dec 2019</b>	<b>75,638</b>	<b>607</b>	<b>300</b>		<b>536</b>	<b>534</b>	<b>2</b>	

1 The notional contract amounts of derivatives designated in qualifying hedge accounting relationships indicate the nominal value of transactions outstanding at the balance sheet date. They do not represent amounts at risk.

2 Used in effectiveness testing; comprising the full fair value change of the hedging instrument not excluding any component.

3 Used in effectiveness assessment; comprising amount attributable to the designated hedged risk that can be a risk component.

Sources of hedge ineffectiveness may arise from basis risk, including but not limited to timing differences between the hedged items and hedging instruments and hedges using instruments with a non-zero fair value.

### Reconciliation of equity and analysis of other comprehensive income by risk type

	Interest rate	Foreign currency
	\$m	\$m
Cash flow hedging reserve at 1 Jan 2020	204	(205)
Fair value gains/(losses)	514	(630)
Fair value (gains)/losses reclassified from the cash flow hedge reserve to the income statement in respect of:		
Hedged items that have affected profit or loss	(107)	822
Income taxes	(79)	(23)
Others	(37)	(1)
<b>Cash flow hedging reserve at 31 Dec 2020</b>	<b>495</b>	<b>(37)</b>
Cash flow hedging reserve at 1 Jan 2019	(26)	(182)
Fair value gains/(losses)	193	341
Fair value (gains)/losses reclassified from the cash flow hedge reserve to the income statement in respect of:		
Hedged items that has affected profit or loss	99	(371)
Income taxes	(53)	4
Others	(9)	3
Cash flow hedging reserve at 31 Dec 2019	204	(205)

### Hedges of net investments in foreign operations

The Group applies hedge accounting in respect of certain consolidated net investments. Hedging is undertaken for Group structural exposure to changes in the US dollar-sterling exchange rate using forward foreign exchange contracts or by financing with foreign currency borrowings. This risk arises due to the Group investment in sterling functional currency subsidiaries and is only hedged for changes in spot exchange rates. At 31 December 2020, the fair values of outstanding financial instruments designated as hedges of net investments in foreign operations were assets of nil (2019: nil), liabilities of \$733m (2019: \$485m) and notional derivative contract values of \$10,500m (2019: \$10,500m). These values are included in 'Derivatives' presented in the balance sheet. Ineffectiveness recognised in 'Net income from financial instruments held for trading or managed on a fair value basis' in the year ended 31 December 2020 was nil (2019: nil) and the net investment hedge reserve was a negative \$56m as of 31 December 2020 (\$304m in 2019 and \$780m in 2018). There were no amounts reclassified to the profit and loss account during the accounting periods presented.

## Interest rate benchmark reform: Amendments to IFRS 9 and IAS 39 'Financial Instruments'

The first set of amendments ('Phase 1') to IFRS 9 and IAS 39, published in September 2019 and endorsed in January 2020, primarily allows the assumption that interbank offered rates ('Ibors') are to continue unaltered for the purposes of forecasting hedged cash flows until such time as the uncertainty of transitioning to near risk-free rates ('RFRs') is resolved. The second set of amendments ('Phase 2'), issued in August 2020 and endorsed in January 2021, allows the modification of hedge documentation to reflect the components of hedge relationships that have transitioned to RFRs on an economically equivalent basis as a direct result of the Ibor transition.

While the application of Phase 1 amendments is mandatory for accounting periods starting on or after 1 January 2020, the Group chose to early adopt the Phase 2 amendments from the beginning of 2020. Significant judgement will be required in determining when Ibor transition uncertainty is resolved and therefore decide when Phase 1 amendments cease to apply and when some of the Phase 2 amendments can be applied.

The notional value of the derivatives impacted by the Ibors reform but which are not used in designated hedge accounting relationships is disclosed on page 143 in the section 'Financial instruments impacted by the Ibor reform'.

The Group has cash flow and fair value hedge accounting relationships that are exposed to different Ibors, predominantly US dollar Libor, sterling Libor and Euribor, as well as overnight rates subject to the market-wide benchmarks reform such as the European Overnight Index Average rate ('Eonia'). Existing financial instruments (such as derivatives, loans and bonds) designated in relationships referencing these benchmarks are expected to transition to RFRs in different ways and at different times. External progress on the transition to RFRs is being monitored, with the objective of ensuring a smooth transition for the Group's hedge accounting relationships. The specific issues arising will vary with the details of each hedging relationship, but may arise due to the transition of existing products included in the designation, a change in expected volumes of products to be issued, a change in contractual terms of new products issued, or a combination of these factors. Some hedges may need to be de-designated and new relationships entered into, while others may survive the market-wide benchmarks reform.

The hedge accounting relationships that are affected by Phase 1 and Phase 2 amendments are presented in the balance sheet as 'Financial assets designated and otherwise mandatorily measured at fair value through other comprehensive income', 'Loans and advances to customers', 'Debt securities in issue' and 'Deposits by banks'.

The notional amounts of interest rate derivatives designated in hedge accounting relationships represent the extent of the risk exposure managed by the Group that is expected to be directly affected by market-wide Ibors reform and in scope of Phase 1 and Phase 2 amendments. The cross-currency swaps designated in hedge accounting relationships and affected by Ibor reform are not significant and have not been presented below:

### Hedging instrument impacted by Ibor reform

	Hedging instrument							
	Impacted by Ibor reform					Total	Not impacted by Ibor reform	Notional amount <sup>1</sup>
	€	£	\$	Other				
\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
Fair value hedges	17,792	3,706	32,789	10,128	64,415	57,157	121,572	
Cash flow hedges	8,344	2,522	8,705	6,797	26,368	9,495	35,863	
<b>At 31 Dec 2020</b>	<b>26,136</b>	<b>6,228</b>	<b>41,494</b>	<b>16,925</b>	<b>90,783</b>	<b>66,652</b>	<b>157,435</b>	
Fair value hedges	20,378	4,533	41,274	13,435	79,620	43,133	122,753	
Cash flow hedges	5,724	6,594	15,750	15,979	44,047	10,206	54,253	
At 31 Dec 2019	26,102	11,127	57,024	29,414	123,667	53,339	177,006	

1 The notional contract amounts of interest rate derivatives designated in qualifying hedge accounting relationships indicate the nominal value of transactions outstanding at the balance sheet date; they do not represent amounts at risk.

During 2019, the main market event in scope of Ibor reform was the change to the calculation of Eonia to be calculated as the euro short-term rate ('€STR') plus a fixed spread of 8.5 basis points. This event had no material impact to the valuation of components of designated hedge accounting relationships and there were no discontinuations of existing designated relationships. The main market events in scope of Ibor reform during 2020 were the changes applied by central clearing counterparties to remunerating euro and US dollar collateral. While there was a minimal valuation impact to the derivatives in scope that are used for hedge accounting, these changes had no discontinuation impact to any of the designated relationships affected.

For further details of Ibor transition, see 'Areas of special interest' in the Risk review on page 157.

### Hedging instrument impacted by Ibor reform held by HSBC Holdings

	Hedging instrument							
	Impacted by Ibor reform					Total	Not impacted by Ibor reform	Notional amount
	€	£	\$	Other				
\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
Fair value hedges	4,290	5,393	21,081	3,242	34,006	—	34,006	
<b>At 31 Dec 2020</b>	<b>4,290</b>	<b>5,393</b>	<b>21,081</b>	<b>3,242</b>	<b>34,006</b>	<b>—</b>	<b>34,006</b>	
Fair value hedges	3,928	5,222	24,500	3,119	36,769	—	36,769	
At 31 Dec 2019	3,928	5,222	24,500	3,119	36,769	—	36,769	

## Notes on the financial statements

### 16 Financial investments

#### Carrying amount of financial investments

	2020 \$m	2019 \$m
Financial investments measured at fair value through other comprehensive income	<b>402,054</b>	357,577
– treasury and other eligible bills	<b>118,163</b>	95,043
– debt securities	<b>281,467</b>	260,536
– equity securities	<b>2,337</b>	1,913
– other instruments	<b>87</b>	85
Debt instruments measured at amortised cost	<b>88,639</b>	85,735
– treasury and other eligible bills	<b>11,757</b>	10,476
– debt securities	<b>76,882</b>	75,259
<b>At 31 Dec</b>	<b>490,693</b>	443,312

#### Equity instruments measured at fair value through other comprehensive income

Type of equity instruments	Fair value \$m	Dividends recognised \$m
	Investments required by central institutions	<b>904</b>
Business facilitation	<b>1,387</b>	<b>22</b>
Others	<b>46</b>	<b>3</b>
<b>At 31 Dec 2020</b>	<b>2,337</b>	<b>47</b>
Investments required by central institutions	738	22
Business facilitation	1,124	19
Others	51	9
<b>At 31 Dec 2019</b>	<b>1,913</b>	<b>50</b>

#### Financial investments at amortised cost and fair value

	Footnotes	2020		2019	
		Amortised cost	Fair value <sup>1</sup>	Amortised cost	Fair value <sup>1</sup>
		\$m	\$m	\$m	\$m
US Treasury		<b>75,531</b>	<b>78,251</b>	79,633	80,589
US Government agencies	2	<b>19,851</b>	<b>20,320</b>	26,356	26,387
US Government-sponsored entities		<b>10,691</b>	<b>11,224</b>	8,070	8,259
UK Government		<b>28,094</b>	<b>28,754</b>	28,621	28,973
Hong Kong Government		<b>55,483</b>	<b>55,507</b>	47,824	47,820
Other governments		<b>178,091</b>	<b>180,881</b>	140,510	142,511
Asset-backed securities	3	<b>2,708</b>	<b>2,536</b>	2,954	2,889
Corporate debt and other securities		<b>110,015</b>	<b>118,960</b>	101,750	107,364
Equities		<b>1,410</b>	<b>2,337</b>	1,241	1,913
<b>At 31 Dec</b>		<b>481,874</b>	<b>498,770</b>	436,959	446,705

1 Included within 'fair value' figures are debt securities issued by banks and other financial institutions of \$62bn (2019: \$61bn), of which \$10bn (2019: \$11bn) are guaranteed by various governments.

2 Includes securities that are supported by an explicit guarantee issued by the US Government.

3 Excludes asset-backed securities included under US Government agencies and sponsored entities.

#### Maturities of investments in debt securities at their carrying amount

	Up to 1 year \$m	1 to 5 years \$m	5 to 10 years \$m	Over 10 years \$m	Total \$m
Debt securities measured at fair value through other comprehensive income	<b>72,250</b>	<b>131,859</b>	<b>42,168</b>	<b>35,190</b>	<b>281,467</b>
Debt securities measured at amortised cost	<b>6,135</b>	<b>16,499</b>	<b>19,437</b>	<b>34,811</b>	<b>76,882</b>
<b>At 31 Dec 2020</b>	<b>78,385</b>	<b>148,358</b>	<b>61,605</b>	<b>70,001</b>	<b>358,349</b>
Debt securities measured at fair value through other comprehensive income	61,833	123,740	42,831	32,132	260,536
Debt securities measured at amortised cost	5,472	14,395	21,431	33,961	75,259
<b>At 31 Dec 2019</b>	<b>67,305</b>	<b>138,135</b>	<b>64,262</b>	<b>66,093</b>	<b>335,795</b>

### Contractual maturities and weighted average yields of investment debt securities

	Up to 1 year		1 to 5 years		5 to 10 years		Over 10 years	
	Amount	Yield	Amount	Yield	Amount	Yield	Amount	Yield
	\$m	%	\$m	%	\$m	%	\$m	%
<b>Debt securities measured at fair value through other comprehensive income</b>								
US Treasury	6,596	1.2	22,945	1.6	15,618	1.5	4,195	2.3
US Government agencies	–	–	95	1.8	43	2.8	12,608	1.8
US Government-sponsored agencies	30	2.8	789	2.2	2,988	2.5	4,968	1.8
UK Government	2,765	1.5	5,126	0.8	6,220	0.2	4,910	2.3
Hong Kong Government	84	1.6	247	1.6	167	1.8	–	–
Other governments	51,507	1.7	62,587	2.3	8,184	1.6	2,089	4.3
Asset-backed securities	18	2.9	93	1.4	399	1.8	2,199	1.2
Corporate debt and other securities	10,831	2.1	35,615	1.4	7,169	1.8	2,583	3.4
<b>Total amortised cost at 31 Dec 2020</b>	<b>71,831</b>		<b>127,497</b>		<b>40,788</b>		<b>33,552</b>	
<b>Total carrying value</b>	<b>72,250</b>		<b>131,859</b>		<b>42,168</b>		<b>35,190</b>	
<b>Debt securities measured at amortised cost</b>								
US Treasury	3,769	0.1	4,618	1.6	3,003	2.0	969	2.8
US Government agencies	–	–	9	3.8	13	4.5	7,084	2.6
US Government-sponsored agencies	110	2.5	258	2.7	436	2.2	1,112	3.3
Hong Kong Government	13	3.0	23	1.6	118	2.6	12	4.8
Other governments	179	3.4	370	4.1	426	3.8	1,011	4.2
Asset-backed securities	–	–	–	–	–	–	2	6.0
Corporate debt and other securities	2,064	3.3	11,221	3.4	15,441	3.4	24,621	3.8
<b>Total amortised cost at 31 Dec 2020</b>	<b>6,135</b>		<b>16,499</b>		<b>19,437</b>		<b>34,811</b>	
<b>Total carrying value</b>	<b>6,135</b>		<b>16,497</b>		<b>19,439</b>		<b>34,812</b>	

The maturity distributions of ABSs are presented in the above table on the basis of contractual maturity dates. The weighted average yield for each range of maturities is calculated by dividing the annualised interest income for the year ended 31 December 2020 by the book amount of debt securities at that date. The yields do not include the effect of related derivatives.

### HSBC Holdings

#### HSBC Holdings carrying amount of financial investments

	2020 \$m	2019 \$m
<b>Debt instruments measured at amortised cost</b>		
– treasury and other eligible bills	10,941	10,081
– debt securities	6,544	6,025
<b>At 31 Dec</b>	<b>17,485</b>	<b>16,106</b>

#### Financial investments at amortised cost and fair value

	2020		2019	
	Amortised cost	Fair value	Amortised cost	Fair value
	\$m	\$m	\$m	\$m
US Treasury	17,485	17,521	16,106	16,121
US Government agencies	–	–	–	–
US Government-sponsored entities	–	–	–	–
<b>At 31 Dec</b>	<b>17,485</b>	<b>17,521</b>	<b>16,106</b>	<b>16,121</b>

#### Maturities of investments in debt securities at their carrying amount

	Up to 1 year	1 to 5 years	5 to 10 years	Over 10 years	Total
	\$m	\$m	\$m	\$m	\$m
Debt securities measured at amortised cost	3,767	2,777	–	–	6,544
<b>At 31 Dec 2020</b>	<b>3,767</b>	<b>2,777</b>	<b>–</b>	<b>–</b>	<b>6,544</b>
Debt securities measured at amortised cost	3,010	3,015	–	–	6,025
At 31 Dec 2019	3,010	3,015	–	–	6,025

### Contractual maturities and weighted average yields of investment debt securities

	Up to 1 year		1 to 5 years		5 to 10 years		Over 10 years	
	Amount	Yield	Amount	Yield	Amount	Yield	Amount	Yield
	\$m	%	\$m	%	\$m	%	\$m	%
<b>Debt securities measured at amortised cost</b>								
US Treasury	3,767	1.5	2,777	0.3	–	–	–	–
US Government agencies	–	–	–	–	–	–	–	–
US Government-sponsored agencies	–	–	–	–	–	–	–	–
<b>Total amortised cost at 31 Dec 2020</b>	<b>3,767</b>		<b>2,777</b>		<b>–</b>		<b>–</b>	
<b>Total carrying value</b>	<b>3,767</b>		<b>2,777</b>		<b>–</b>		<b>–</b>	

## Notes on the financial statements

The weighted average yield for each range of maturities is calculated by dividing the annualised interest income for the year ended 31 December 2020 by the book amount of debt securities at that date. The yields do not include the effect of related derivatives.

### 17 Assets pledged, collateral received and assets transferred

#### Assets pledged

##### Financial assets pledged as collateral

	2020	2019
	\$m	\$m
Treasury bills and other eligible securities	12,774	14,034
Loans and advances to banks	236	1,975
Loans and advances to customers	43,168	26,017
Debt securities	67,312	60,995
Equity securities	26,101	24,626
Other	60,810	50,231
<b>Assets pledged at 31 Dec</b>	<b>210,401</b>	<b>177,878</b>

Assets pledged as collateral include all assets categorised as encumbered in the disclosure on page 78 of the Pillar 3 Disclosures at 31 December 2020.

The amount of assets pledged to secure liabilities may be greater than the book value of assets utilised as collateral. For example, in the case of securitisations and covered bonds, the amount of liabilities issued plus mandatory over-collateralisation is less than the book value of the pool of assets available for use as collateral. This is also the case where assets are placed with a custodian or a settlement agent that has a floating charge over all the assets placed to secure any liabilities under settlement accounts.

These transactions are conducted under terms that are usual and customary for collateralised transactions including, where relevant, standard securities lending and borrowing, repurchase agreements and derivative margining. HSBC places both cash and non-cash collateral in relation to derivative transactions.

Hong Kong currency notes in circulation are secured by the deposit of funds in respect of which the Hong Kong Government certificates of indebtedness are held.

##### Financial assets pledged as collateral which the counterparty has the right to sell or repledge

	2020	2019
	\$m	\$m
Trading assets	64,225	63,163
Financial investments	16,915	10,782
<b>At 31 Dec</b>	<b>81,140</b>	<b>73,945</b>

#### Collateral received

The fair value of assets accepted as collateral relating primarily to standard securities lending, reverse repurchase agreements, swaps of securities and derivative margining that HSBC is permitted to sell or repledge in the absence of default was \$447,101m (2019: \$468,798m). The fair value of any such collateral sold or repledged was \$246,520m (2019: \$304,261m).

HSBC is obliged to return equivalent securities. These transactions are conducted under terms that are usual and customary to standard securities lending, reverse repurchase agreements and derivative margining.

#### Assets transferred

The assets pledged include transfers to third parties that do not qualify for derecognition, notably secured borrowings such as debt securities held by counterparties as collateral under repurchase agreements and equity securities lent under securities lending agreements, as well as swaps of equity and debt securities. For secured borrowings, the transferred asset collateral continues to be recognised in full while a related liability, reflecting the Group's obligation to repurchase the assets for a fixed price at a future date, is also recognised on the balance sheet. Where securities are swapped, the transferred asset continues to be recognised in full. There is no associated liability as the non-cash collateral received is not recognised on the balance sheet. The Group is unable to use, sell or pledge the transferred assets for the duration of the transaction, and remains exposed to interest rate risk and credit risk on these pledged assets. With the exception of 'Other sales' in the following table, the counterparty's recourse is not limited to the transferred assets.

##### Transferred financial assets not qualifying for full derecognition and associated financial liabilities

	Carrying amount of:		Fair value of:		Net position
	Transferred assets	Associated liabilities	Transferred assets	Associated liabilities	
	\$m	\$m	\$m	\$m	\$m
<b>At 31 Dec 2020</b>					
Repurchase agreements	52,413	51,092			
Securities lending agreements	38,364	124			
Other sales (recourse to transferred assets only)	3,564	3,478	3,619	3,564	55
<b>At 31 Dec 2019</b>					
Repurchase agreements	45,831	45,671			
Securities lending agreements	35,122	3,225			
Other sales (recourse to transferred assets only)	2,971	2,885	2,974	2,897	77

## 18 Interests in associates and joint ventures

### Carrying amount of HSBC's interests in associates and joint ventures

	2020	2019
	\$m	\$m
Interests in associates	26,594	24,384
Interests in joint ventures	90	90
<b>Interests in associates and joint ventures</b>	<b>26,684</b>	<b>24,474</b>

### Principal associates of HSBC

	2020		2019	
	Carrying amount \$m	Fair value <sup>1</sup> \$m	Carrying amount \$m	Fair value <sup>1</sup> \$m
Bank of Communications Co., Limited	21,248	7,457	18,982	10,054
The Saudi British Bank	4,215	4,197	4,370	5,550

<sup>1</sup> Principal associates are listed on recognised stock exchanges. The fair values are based on the quoted market prices of the shares held (Level 1 in the fair value hierarchy).

	Footnotes	At 31 Dec 2020		
		Country of incorporation and principal place of business	Principal activity	HSBC's interest %
Bank of Communications Co., Limited		People's Republic of China	Banking services	19.03
The Saudi British Bank	1	Saudi Arabia	Banking services	31.00

<sup>1</sup> In December 2020, HSBC purchased additional shares and increased its shareholding in The Saudi British Bank ('SABB') from 29.2% to 31.0%. SABB will continue to be accounted for as an associate of HSBC.

A list of all associates and joint ventures is set out in Note 37.

### Bank of Communications Co., Limited

The Group's investment in Bank of Communications Co., Limited ('BoCom') is classified as an associate. Significant influence in BoCom was established with consideration of all relevant factors, including representation on BoCom's Board of Directors and participation in a Resource and Experience Sharing ('RES') agreement. Under the RES, HSBC staff have been seconded to assist in the maintenance of BoCom's financial and operating policies. Investments in associates are recognised using the equity method of accounting in accordance with IAS 28, whereby the investment is initially recognised at cost and adjusted thereafter for the post-acquisition change in the Group's share of BoCom's net assets. An impairment test is required if there is any indication of impairment.

#### Impairment testing

At 31 December 2020, the fair value of the Group's investment in BoCom had been below the carrying amount for approximately nine years. As a result, the Group performed an impairment test on the carrying amount, which confirmed that there was no impairment at 31 December 2020 as the recoverable amount as determined by a value-in-use ('VIU') calculation was higher than the carrying value.

	At 31 Dec 2020			At 31 Dec 2019		
	VIU \$bn	Carrying value \$bn	Fair value \$bn	VIU \$bn	Carrying value \$bn	Fair value \$bn
BoCom	21.8	21.2	7.5	21.5	19.0	10.1

Compared with 31 December 2019, the extent to which the VIU exceeds the carrying value ('headroom') decreased by \$1.9bn. The reduction in headroom was principally due to the impact on the VIU from BoCom's actual performance, which was lower than earlier forecasts due to the impact of the Covid-19 outbreak and the disruption to global economic activity, downward revisions to management's best estimates of BoCom's future earnings in the short to medium term, and the net impact of revisions to certain long-term assumptions. Both the VIU and the carrying value increased due to the impact of foreign exchange movements.

In future periods, the VIU may increase or decrease depending on the effect of changes to model inputs. The main model inputs are described below and are based on factors observed at period-end. The factors that could result in a change in the VIU and an impairment include a short-term underperformance by BoCom, a change in regulatory capital requirements or an increase in uncertainty regarding the future performance of BoCom resulting in a downgrade of the forecast of future asset growth or profitability. An increase in the discount rate as a result of an increase in the risk premium or risk-free rates could also result in a reduction of VIU and an impairment. At the point where the carrying value exceeds the VIU, impairment would be recognised.

If the Group did not have significant influence in BoCom, the investment would be carried at fair value rather than the current carrying value.

#### Basis of recoverable amount

The impairment test was performed by comparing the recoverable amount of BoCom, determined by a VIU calculation, with its carrying amount. The VIU calculation uses discounted cash flow projections based on management's best estimates of future earnings available to ordinary shareholders prepared in accordance with IAS 36. Significant management judgement is required in arriving at the best estimate. There are two main components to the VIU calculation. The first component is management's best estimate of BoCom's earnings, which is based on explicit forecasts over the short to medium term. This results in forecast earnings growth that is lower than recent historical actual growth and also reflects the uncertainty arising from the current economic outlook. Earnings beyond the short to medium term are then extrapolated into perpetuity using a long-term growth rate to derive a terminal value, which comprises the majority of the VIU. The second component is the capital maintenance charge ('CMC'), which is management's forecast of the earnings

## Notes on the financial statements

that need to be withheld in order for BoCom to meet regulatory capital requirements over the forecast period, meaning that CMC is deducted when arriving at management's estimate of future earnings available to ordinary shareholders. The principal inputs to the CMC calculation include estimates of asset growth, the ratio of risk-weighted assets to total assets and the expected minimum regulatory capital requirements. An increase in the CMC as a result of a change to these principal inputs would reduce VIU. Additionally, management considers other factors, including qualitative factors, to ensure that the inputs to the VIU calculation remain appropriate.

### Key assumptions in value-in-use calculation

We used a number of assumptions in our VIU calculation, in accordance with the requirements of IAS 36:

- Long-term profit growth rate: 3% (2019: 3%) for periods after 2024, which does not exceed forecast GDP growth in mainland China and is consistent with forecasts by external analysts.
- Long-term asset growth rate: 3% (2019: 3%) for periods after 2024, which is the rate that assets are expected to grow to achieve long-term profit growth of 3%.
- Discount rate: 11.37% (2019: 11.24%). This is based on a capital asset pricing model ('CAPM') calculation for BoCom, using market data. Management also compares the rate derived from the CAPM with discount rates from external sources. The discount rate used is within the range of 10.3% to 15.0% (2019: 10.0% to 15.0%) indicated by external sources. The increased rate reflects the net impact of updates to certain components of CAPM due to elevated levels of risk arising from the impact of the Covid-19 outbreak and the disruption to global economic activity.
- Expected credit losses ('ECL') as a percentage of customer advances: This ranges from 0.98% to 1.22% (2019: 0.95%) in the short to medium term, reflecting increases due to the Covid-19 outbreak and BoCom's actual results. For periods after 2024, the ratio is 0.88% (2019: 0.76%), which is slightly higher than BoCom's average ECL in recent years. This ratio was increased to reflect trends in BoCom's actual results in recent years of increasing ECL and of changes to BoCom's loan portfolio.
- Risk-weighted assets as a percentage of total assets: This ranges from 61% to 62% (2019: 61%) in the short to medium term, reflecting increases that may arise from higher ECL in the short term, followed by reductions that may arise from a subsequent lowering of ECL and a continuation of the trend of strong retail loan growth. For periods after 2024, the ratio is 61% (2019: 61%). These rates are similar to BoCom's actual results in recent years and are slightly below forecasts disclosed by external analysts.
- Operating income growth rate: This ranges from 3.5% to 6.7% (2019: 4.9% to 9.4%) in the short to medium term, and is lower than BoCom's actual results in recent years and the forecasts disclosed by external analysts, reflecting economic pressures from the Covid-19 outbreak, global trade tensions and industry developments in mainland China.
- Cost-income ratio: This ranges from 36.3% to 36.8% (2019: 37.1% to 38.8%) in the short to medium term. These ratios are similar to BoCom's actual results in recent years and slightly higher than forecasts disclosed by external analysts.
- Effective tax rate: This ranges from 7.8% to 16.5% (2019: 12.0% to 17.0%) in the short to medium term, reflecting BoCom's actual results and an expected increase towards the long-term assumption through the forecast period. For periods after 2024, the rate is 16.8% (2019: 22.5%), which is higher than the recent historical average. This rate was reduced on expectations of a lower effective tax rate in the long term, reflecting BoCom's actual results in recent years and forecast financial asset composition, and forecasts disclosed by external analysts.
- Capital requirements: This was based on a capital adequacy ratio of 11.5% (2019: 11.5%) and tier 1 capital adequacy ratio of 9.5% (2019: 9.5%), based on the minimum regulatory requirements.

The following table shows the change to each key assumption in the VIU calculation that on its own would reduce the headroom to nil:

Key assumption	Changes to key assumption to reduce headroom to nil
• Long-term profit growth rate	• Decrease by 22 basis points
• Long-term asset growth rate	• Increase by 20 basis points
• Discount rate	• Increase by 26 basis points
• Expected credit losses as a percentage of customer advances	• Increase by 3 basis points
• Risk-weighted assets as a percentage of total assets	• Increase by 136 basis points
• Operating income growth rate	• Decrease by 28 basis points
• Cost-income ratio	• Increase by 77 basis points
• Long-term effective tax rate	• Increase by 216 basis points
• Capital requirements – capital adequacy ratio	• Increase by 26 basis points
• Capital requirements – tier 1 capital adequacy ratio	• Increase by 90 basis points

The following table further illustrates the impact on VIU of reasonably possible changes to key assumptions. This reflects the sensitivity of the VIU to each key assumption on its own and it is possible that more than one favourable and/or unfavourable change may occur at the same time. The selected rates of reasonably possible changes to key assumptions are largely based on external analysts' forecasts, which can change period to period.



## Sensitivity of VIU to reasonably possible changes in key assumptions

	Favourable change			Unfavourable change		
	Increase in VIU		VIU	Decrease in VIU		VIU
	bps	\$bn	\$bn	bps	\$bn	\$bn
<b>At 31 Dec 2020</b>						
Long-term profit growth rate	–	–	21.8	(50)	(1.3)	20.5
Long-term asset growth rate	(50)	1.4	23.2	–	–	21.8
Discount rate	–	1.2	23.0	53	(1.2)	20.6
	<b>2020 to 2024: 96</b>			<b>2020 to 2024:</b>		
	<b>2025 onwards:</b>	<b>2.3</b>	<b>24.1</b>	<b>122</b>	<b>(2.1)</b>	<b>19.7</b>
	<b>76</b>			<b>95</b>		
Expected credit losses as a percentage of customer advances						
Risk-weighted assets as a percentage of total assets	(40)	0.1	21.9	166	(0.8)	21.0
Operating income growth rate	2	0.2	22.0	(69)	(1.5)	20.3
Cost-income ratio	(149)	1.3	23.1	120	(1.2)	20.6
Long-term effective tax rate	(316)	0.9	22.7	820	(2.2)	19.6
Capital requirements – capital adequacy ratio	–	–	21.8	297	(7.8)	14.0
Capital requirements – tier 1 capital adequacy ratio	–	–	21.8	263	(5.3)	16.5
<b>At 31 Dec 2019</b>						
Long-term profit growth rate	–	–	21.5	(50)	(1.3)	20.2
Long-term asset growth rate	(50)	1.4	22.9	–	–	21.5
Discount rate	(54)	1.4	22.9	56	(1.2)	20.3
Expected credit losses as a percentage of customer advances	2019 to 2023: 90 2024 onwards: 70	1.0	22.5	2019 to 2023: 108 2024 onwards: 81	(1.2)	20.3
Risk-weighted assets as a percentage of total assets	(96)	0.4	21.9	12	–	21.5
Operating income growth rate	14	–	21.8	(102)	(1.8)	19.7
Cost-income ratio	(175)	1.0	22.5	95	(1.2)	20.3
Long-term effective tax rate	(352)	1.0	22.5	250	(0.7)	20.8
Capital requirements – capital adequacy ratio	–	–	21.5	337	(8.2)	13.3
Capital requirements – tier 1 capital adequacy ratio	–	–	21.5	322	(6.0)	15.5

Considering the interrelationship of the changes set out in the table above, management estimates that the reasonably possible range of VIU is \$18.2bn to \$24.2bn (2019: \$18.5bn to \$22.8bn). The range is based on the favourable/unfavourable change in the earnings in the short- to medium-term, and long-term expected credit losses as a percentage of customer advances as set out in the table above. All other long-term assumptions, the discount rate and the basis of the CMC have been kept unchanged when determining the reasonably possible range of the VIU.

### Selected financial information of BoCom

The statutory accounting reference date of BoCom is 31 December. For the year ended 31 December 2020, HSBC included the associate's results on the basis of the financial statements for the 12 months ended 30 September 2020, taking into account changes in the subsequent period from 1 October 2020 to 31 December 2020 that would have materially affected the results.

### Selected balance sheet information of BoCom

	At 30 Sep	
	2020 \$m	2019 \$m
Cash and balances at central banks	121,987	112,239
Loans and advances to banks and other financial institutions	107,334	108,026
Loans and advances to customers	870,728	730,510
Other financial assets	508,328	435,740
Other assets	44,622	40,101
<b>Total assets</b>	<b>1,652,999</b>	<b>1,426,616</b>
Deposits by banks and other financial institutions	273,708	290,492
Customer accounts	1,012,732	868,627
Other financial liabilities	207,110	131,772
Other liabilities	31,105	23,074
<b>Total liabilities</b>	<b>1,524,655</b>	<b>1,313,965</b>
<b>Total equity</b>	<b>128,344</b>	<b>112,651</b>

### Reconciliation of BoCom's total shareholders' equity to the carrying amount in HSBC's consolidated financial statements

	At 30 Sep	
	2020 \$m	2019 \$m
HSBC's share of total shareholders' equity	20,743	18,509
Goodwill and other intangible assets	505	473
<b>Carrying amount</b>	<b>21,248</b>	<b>18,982</b>

## Notes on the financial statements

### Selected income statement information of BoCom

	For the 12 months ended 30 Sep	
	2020	2019
	\$m	\$m
Net interest income	21,994	20,558
Net fee and commission income	6,398	6,411
Change in expected credit losses and other credit impairment charges	(9,698)	(7,479)
Depreciation and amortisation	(2,072)	(1,934)
Tax expense	(858)	(1,636)
<b>Profit for the year</b>	<b>10,261</b>	<b>11,175</b>
Other comprehensive income	(769)	315
<b>Total comprehensive income</b>	<b>9,492</b>	<b>11,490</b>
Dividends received from BoCom	633	613

### The Saudi British Bank

The Group's investment in The Saudi British Bank ('SABB') is classified as an associate. In June 2019, the merger between SABB and Alawwal bank ('Alawwal') became effective, which reduced HSBC's 40% interest in SABB to 29.2%. On 3 December 2020, HSBC purchased additional shares in SABB, which increased the Group's shareholding to 31%. HSBC remains the largest shareholder in SABB. Significant influence in SABB is established via representation on the Board of Directors. Investments in associates are recognised using the equity method of accounting in accordance with IAS 28, as described previously for BoCom.

#### Impairment testing

At 31 December 2020, the fair value of the Group's investment in SABB of \$4.20bn was below the carrying amount of \$4.22bn. As a result, the Group performed an impairment test on the carrying amount, which confirmed no impairment. The recoverable amount as determined by a VIU calculation is \$4.74bn.

#### The basis of recoverable amount

The impairment test was performed by comparing the recoverable amount of SABB, determined by a VIU calculation, with its carrying amount. The VIU calculation uses discounted cash flow projections based on management's best estimates of future earnings available to ordinary shareholders prepared in accordance with IAS 36, which requires significant management judgement. A key component to the VIU calculation is management's best estimate of SABB's earnings, which is based on explicit forecasts over the short to medium term. This reflects the uncertainty arising from the current economic outlook. Earnings beyond the short to medium term are then extrapolated in perpetuity using a long-term growth rate to derive a terminal value, which comprises the majority of the VIU. Additionally, management considers other factors (including qualitative factors) to ensure that the inputs to the VIU calculation remain appropriate.

#### Key assumptions in value-in-use calculation

We used a number of assumptions in our VIU calculation, in accordance with the requirements of IAS 36:

- Long-term profit growth rate: 2.85% for periods after 2024. This does not exceed forecast GDP growth in Saudi Arabia.
- Long-term asset growth rate: 2.85% for periods after 2024. This is the rate that assets are expected to grow to achieve long-term profit growth of 2.85%.
- Discount rate: 10.4%. This is based on a CAPM calculation for Saudi Arabia using market data. Management also compares the rate derived from the CAPM with cost of capital rates from external sources.
- Management's judgement in estimating the cash flows of SABB: Cash flow projections have considered the scale of the entity following the merger with Alawwal, current market conditions and our macroeconomic outlook.

#### Sensitivity of VIU to reasonably possible changes in key assumptions

At 31 December 2020, the Group's investment in SABB was sensitive to reasonably possible adverse changes in key assumptions supporting the recoverable amount. The most sensitive inputs to the impairment test are set out in the following table. A reasonable change in a single key assumption may not result in impairment, although taken together a combination of reasonable changes in key assumptions could result in a recoverable amount that is lower than the carrying amount.

Key assumption	Reasonably possible change
• Cash flow projections	• Cash flow projections decrease by 15%. This could result in an impairment of \$0.2bn.
• Discount rate	• Discount rate increases by 100 basis points. This does not result in impairment.

## 19 Investments in subsidiaries

### Main subsidiaries of HSBC Holdings

	At 31 Dec 2020		
	Place of incorporation or registration	HSBC's interest %	Share class
<b>Europe</b>			
HSBC Bank plc	England and Wales	100	£1 Ordinary, \$0.01 Non-cumulative third Dollar Preference
HSBC UK Bank plc	England and Wales	100	£1 Ordinary
HSBC Continental Europe	France	99.99	€5 Actions
HSBC Trinkaus & Burkhardt AG <sup>1</sup>	Germany	99.33	Stückaktien no par value
<b>Asia</b>			
Hang Seng Bank Limited	Hong Kong	62.14	HK\$5 Ordinary
HSBC Bank (China) Company Limited	People's Republic of China	100	CNY1 Ordinary
HSBC Bank Malaysia Berhad	Malaysia	100	RM0.5 Ordinary
HSBC Life (International) Limited	Bermuda	100	HK\$1 Ordinary
The Hongkong and Shanghai Banking Corporation Limited	Hong Kong	100	Ordinary no par value
<b>Middle East and North Africa</b>			
HSBC Bank Middle East Limited	United Arab Emirates	100	\$1 Ordinary and \$1 Cumulative Redeemable Preference shares (CRP)
<b>North America</b>			
HSBC Bank Canada	Canada	100	Common no par value and Preference no par value
HSBC Bank USA, N.A.	US	100	\$100 Common and \$0.01 Preference
<b>Latin America</b>			
HSBC Mexico, S.A., Institución de Banca Múltiple, Grupo Financiero HSBC	Mexico	99.99	MXN2 Ordinary

<sup>1</sup> The Group acquired the remaining minority equity interest in HSBC Trinkaus & Burkhardt AG on 1 February 2021. The Group now owns 100% of this subsidiary.

Details of the debt, subordinated debt and preference shares issued by the main subsidiaries to parties external to the Group are included in Note 25 'Debt securities in issue' and Note 28 'Subordinated liabilities', respectively.

A list of all related undertakings is set out in Note 37. The principal countries of operation are the same as the countries and territories of incorporation except for HSBC Life (International) Limited, which operates mainly in Hong Kong.

HSBC is structured as a network of regional banks and locally incorporated regulated banking entities. Each bank is separately capitalised in accordance with applicable prudential requirements and maintains a capital buffer consistent with the Group's risk appetite for the relevant country or region. HSBC's capital management process is incorporated in the annual operating plan, which is approved by the Board.

HSBC Holdings is the primary provider of equity capital to its subsidiaries and also provides them with non-equity capital where necessary. These investments are substantially funded by HSBC Holdings' issuance of equity and non-equity capital, and by profit retention. The net reduction in investments in subsidiaries was partly due to the impairment of HSBC Overseas Holdings (UK) Limited of \$0.4bn.

As part of its capital management process, HSBC Holdings seeks to maintain a balance between the composition of its capital and its investment in subsidiaries. Subject to this, there is no current or foreseen impediment to HSBC Holdings' ability to provide funding for such investments. During 2020, consistent with the Group's capital plan, the Group's subsidiaries did not experience any significant restrictions on paying dividends or repaying loans and advances. Also, there are no foreseen restrictions envisaged with regard to planned dividends or payments. However, the ability of subsidiaries to pay dividends or advance monies to HSBC Holdings depends on, among other things, their respective local regulatory capital and banking requirements, exchange controls, statutory reserves, and financial and operating performance.

The amount of guarantees by HSBC Holdings in favour of other Group entities is set out in Note 32.

Information on structured entities consolidated by HSBC where HSBC owns less than 50% of the voting rights is included in Note 20 'Structured entities'. In each of these cases, HSBC controls and consolidates an entity when it is exposed, or has rights, to variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.

### Subsidiaries with significant non-controlling interests

	2020	2019
<b>Hang Seng Bank Limited</b>		
Proportion of ownership interests and voting rights held by non-controlling interests	37.86 %	37.86%
Place of business	Hong Kong	Hong Kong
	\$m	\$m
Profit attributable to non-controlling interests	843	1,229
Accumulated non-controlling interests of the subsidiary	7,604	7,262
Dividends paid to non-controlling interests	625	720
Summarised financial information:		
– total assets	224,483	212,485
– total liabilities	202,907	191,819
– net operating income before changes in expected credit losses and other credit impairment charges	4,568	5,558
– profit for the year	2,230	3,251
– total comprehensive income for the year	2,535	3,461

### 20 Structured entities

HSBC is mainly involved with both consolidated and unconsolidated structured entities through the securitisation of financial assets, conduits and investment funds, established either by HSBC or a third party.

#### Consolidated structured entities

Total assets of HSBC's consolidated structured entities, split by entity type

	Conduits \$bn	Securitisations \$bn	HSBC managed funds \$bn	Other \$bn	Total \$bn
<b>At 31 Dec 2020</b>	<b>6.9</b>	<b>11.7</b>	<b>5.3</b>	<b>10.8</b>	<b>34.7</b>
At 31 Dec 2019	8.6	9.6	6.8	6.7	31.7

#### Conduits

HSBC has established and manages two types of conduits: securities investment conduits ('SICs') and multi-seller conduits.

##### Securities investment conduits

The SICs purchase highly rated ABSs to facilitate tailored investment opportunities.

- At 31 December 2020, Solitaire, HSBC's principal SIC, held \$1.9bn of ABSs (2019: \$2.1bn). It is currently funded entirely by commercial paper ('CP') issued to HSBC. At 31 December 2020, HSBC held \$2.1bn of CP (2019: \$3.2bn).

##### Multi-seller conduit

HSBC's multi-seller conduit was established to provide access to flexible market-based sources of finance for its clients. Currently, HSBC bears risk equal to the transaction-specific facility offered to the multi-seller conduit, amounting to \$9.6bn at 31 December 2020 (2019: \$12.4bn). First loss protection is provided by the originator of the assets, and not by HSBC, through transaction-specific credit enhancements. A layer of secondary loss protection is provided by HSBC in the form of programme-wide enhancement facilities.

#### Securitisations

HSBC uses structured entities to securitise customer loans and advances it originates in order to diversify its sources of funding for asset origination and capital efficiency purposes. The loans and advances are transferred by HSBC to the structured entities for cash or synthetically through credit default swaps, and the structured entities issue debt securities to investors.

#### HSBC managed funds

HSBC has established a number of money market and non-money market funds. Where it is deemed to be acting as principal rather than agent in its role as investment manager, HSBC controls these funds.

#### Other

HSBC has entered into a number of transactions in the normal course of business, which include asset and structured finance transactions where it has control of the structured entity. In addition, HSBC is deemed to control a number of third-party managed funds through its involvement as a principal in the funds.

#### Unconsolidated structured entities

The term 'unconsolidated structured entities' refers to all structured entities not controlled by HSBC. The Group enters into transactions with unconsolidated structured entities in the normal course of business to facilitate customer transactions and for specific investment opportunities.

## Nature and risks associated with HSBC interests in unconsolidated structured entities

Total asset values of the entities (\$m)	Securitisations	HSBC managed funds	Non-HSBC managed funds	Other	Total
0-500	86	292	1,430	47	1,855
500-2,000	9	94	733	2	838
2,000-5,000	—	32	389	—	421
5,000-25,000	—	14	311	—	325
25,000+	—	5	41	—	46
<b>Number of entities at 31 Dec 2020</b>	<b>95</b>	<b>437</b>	<b>2,904</b>	<b>49</b>	<b>3,485</b>
	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>
Total assets in relation to HSBC's interests in the unconsolidated structured entities	4.4	9.9	17.5	2.1	33.9
– trading assets	—	0.3	3.2	—	3.5
– financial assets designated and otherwise mandatorily measured at fair value	—	8.6	13.8	—	22.4
– loans and advances to customers	4.4	—	—	1.5	5.9
– financial investments	—	1	0.5	—	1.5
– other assets	—	—	—	0.6	0.6
Total liabilities in relation to HSBC's interests in the unconsolidated structured entities	—	—	—	0.3	0.3
– other liabilities	—	—	—	0.3	0.3
Other off-balance sheet commitments	0.1	0.5	4.9	1.2	6.7
<b>HSBC's maximum exposure at 31 Dec 2020</b>	<b>4.5</b>	<b>10.4</b>	<b>22.4</b>	<b>3.6</b>	<b>40.9</b>

Total asset values of the entities (\$m)					
0-500	91	236	670	70	1,067
500-2,000	12	70	642	7	731
2,000-5,000	—	28	345	—	373
5,000-25,000	—	14	260	—	274
25,000+	—	3	39	2	44
Number of entities at 31 Dec 2019	103	351	1,956	79	2,489
	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>	<b>\$bn</b>
Total assets in relation to HSBC's interests in the unconsolidated structured entities	5.3	9.1	15.1	4.2	33.7
– trading assets	—	0.2	3.5	1.3	5
– financial assets designated and otherwise mandatorily measured at fair value	—	8.4	10.7	—	19.1
– loans and advances to customers	5.3	—	0.4	2.3	8
– financial investments	—	0.5	0.5	—	1
– other assets	—	—	—	0.6	0.6
Total liabilities in relation to HSBC's interests in the unconsolidated structured entities	—	—	—	0.3	0.3
– other liabilities	—	—	—	0.3	0.3
Other off-balance sheet commitments	0.3	0.3	3.9	0.7	5.2
HSBC's maximum exposure at 31 Dec 2019	5.6	9.4	19.0	4.6	38.6

The maximum exposure to loss from HSBC's interests in unconsolidated structured entities represents the maximum loss it could incur as a result of its involvement with these entities regardless of the probability of the loss being incurred.

- For commitments, guarantees and written credit default swaps, the maximum exposure to loss is the notional amount of potential future losses.
- For retained and purchased investments and loans to unconsolidated structured entities, the maximum exposure to loss is the carrying value of these interests at the balance sheet reporting date.

The maximum exposure to loss is stated gross of the effects of hedging and collateral arrangements that HSBC has entered into in order to mitigate the Group's exposure to loss.

### Securitisations

HSBC has interests in unconsolidated securitisation vehicles through holding notes issued by these entities. In addition, HSBC has investments in ABSs issued by third-party structured entities.

### HSBC managed funds

HSBC establishes and manages money market funds and non-money market investment funds to provide customers with investment opportunities. Further information on funds under management is provided on page 106.

HSBC, as fund manager, may be entitled to receive management and performance fees based on the assets under management. HSBC may also retain units in these funds.

### Non-HSBC managed funds

HSBC purchases and holds units of third-party managed funds in order to facilitate business and meet customer needs.

### Other

HSBC has established structured entities in the normal course of business, such as structured credit transactions for customers, to provide finance to public and private sector infrastructure projects, and for asset and structured finance transactions.

## Notes on the financial statements

In addition to the interests disclosed above, HSBC enters into derivative contracts, reverse repos and stock borrowing transactions with structured entities. These interests arise in the normal course of business for the facilitation of third-party transactions and risk management solutions.

### HSBC sponsored structured entities

The amount of assets transferred to and income received from such sponsored structured entities during 2020 and 2019 were not significant.

## 21 Goodwill and intangible assets

	Footnotes	2020 \$m	2019 \$m
Goodwill		5,881	5,590
Present value of in-force long-term insurance business		9,435	8,945
Other intangible assets	1	5,127	5,628
<b>At 31 Dec</b>		<b>20,443</b>	<b>20,163</b>

1 Included within other intangible assets is internally generated software with a net carrying value of \$4,452m (2019: \$4,829m). During the year, capitalisation of internally generated software was \$1,934m (2019: \$2,086m), impairment was \$1,322m (2019: \$38m) and amortisation was \$1,085m (2019: \$947m).

### Movement analysis of goodwill

	2020 \$m	2019 \$m
<b>Gross amount</b>		
<b>At 1 Jan</b>	<b>22,084</b>	22,180
Exchange differences	967	(154)
Other	84	58
<b>At 31 Dec</b>	<b>23,135</b>	22,084
<b>Accumulated impairment losses</b>		
<b>At 1 Jan</b>	<b>(16,494)</b>	(9,194)
Impairment losses	(41)	(7,349)
Exchange differences	(719)	49
<b>At 31 Dec</b>	<b>(17,254)</b>	(16,494)
<b>Net carrying amount at 31 Dec</b>	<b>5,881</b>	5,590

## Goodwill

### Impairment testing

In previous years the Group's annual impairment test in respect of goodwill allocated to each CGU was performed at 1 July. Beginning in 2020 the annual impairment test will be performed as at 1 October to better align the timing of the test with cash flow projections approved by the Board. A review for indicators of impairment is undertaken at each subsequent quarter-end.

### Basis of the recoverable amount

The recoverable amount of all CGUs to which goodwill has been allocated was equal to its value in use ('VIU') at each respective testing date. The VIU is calculated by discounting management's cash flow projections for the CGU. At 1 October 2020, all CGUs supporting goodwill had a VIU larger than their respective carrying amounts. The key assumptions used in the VIU calculation for each individually significant CGU that is not impaired are discussed below.

### Key assumptions in VIU calculation – significant CGUs at 1 October 2020

	Goodwill at 1 Oct 2020 \$m	Discount rate %	Growth rate beyond initial cash flow %	Goodwill at 1 Jul 2020 \$m	Discount rate %	Nominal growth rate beyond initial cash flow projections %	Goodwill at 31 Dec 2019 \$m	Discount rate %	Nominal growth rate beyond initial cash flow projections %
<b>Cash-generating unit Europe – WPB<sup>1</sup></b>	<b>3,582</b>	<b>9.6</b>	<b>1.9</b>	<b>3,496</b>	<b>8.3</b>	<b>3.2</b>	3,464	8.3	1.7

1 CGU tested as Europe – RBWM at 31 December 2019. Details regarding our change in global businesses are set out in Note 10.

At 1 October 2020, aggregate goodwill of \$2,059m (1 July 2019: \$2,938m; 31 December 2019: \$2,126m) had been allocated to CGUs that were not considered individually significant. The Group's CGUs do not carry on their balance sheets any significant intangible assets with indefinite useful lives, other than goodwill.

### Management's judgement in estimating the cash flows of a CGU

The cash flow projections for each CGU are based on plans approved by the Board. The Board challenges and endorses planning assumptions in light of internal capital allocation decisions necessary to support our strategy, current market conditions and macroeconomic outlook. For the 1 October 2020 impairment test, cash flow projections until the end of the first quarter of 2025 were considered. As required by IFRSs, estimates of future cash flows exclude estimated cash inflows or outflows that are expected to arise from restructuring initiatives before an entity has a constructive obligation to carry out the plan, and would therefore have recognised a provision for restructuring costs.

## Discount rate

The rate used to discount the cash flows is based on the cost of capital assigned to each CGU, which is derived using a capital asset pricing model ('CAPM'). CAPM depends on a number of inputs reflecting financial and economic variables, including the risk-free rate and a premium to reflect the inherent risk of the business being evaluated. These variables are based on the market's assessment of the economic variables and management's judgement. The discount rates for each CGU are refined to reflect the rates of inflation for the countries within which the CGU operates. In addition, for the purposes of testing goodwill for impairment, management supplements this process by comparing the discount rates derived using the internally generated CAPM, with the cost of capital rates produced by external sources for businesses operating in similar markets.

## Long-term growth rate

The long-term growth rate is used to extrapolate the cash flows in perpetuity because of the long-term perspective within the Group of business units making up the CGUs. These growth rates reflect inflation for the countries within which the CGU operates or from which it derives revenue.

## Sensitivities of key assumptions in calculating VIU

At 31 December 2020, Europe – WPB was sensitive to reasonably possible adverse changes in key assumptions supporting the recoverable amount. In making an estimate of reasonably possible changes to assumptions, management considers the available evidence in respect of each input to the model, such as the external range of discount rates observable, historical performance against forecast and risks attaching to the key assumptions underlying cash flow projections. A reasonable change in one or more of these assumptions could result in an impairment.

Input	Key assumptions	Associated risks	Reasonably possible change
<b>Cash-generating unit</b>			
Europe – WPB	<ul style="list-style-type: none"> <li>Cash flow projections</li> <li>Level of interest rates and yield curves.</li> <li>Competitors' position within the market.</li> <li>Level and change in unemployment rates.</li> </ul>	<ul style="list-style-type: none"> <li>Uncertain regulatory environment.</li> <li>Customer remediation and regulatory actions.</li> </ul>	<ul style="list-style-type: none"> <li>Cash flow projections decrease by 30%.</li> </ul>
	Discount rate	<ul style="list-style-type: none"> <li>Discount rate used is a reasonable estimate of a suitable market rate for the profile of the business.</li> <li>External evidence suggests that the rate used is not appropriate to the business.</li> </ul>	<ul style="list-style-type: none"> <li>Discount rate increases by 100bps. This does not result in an impairment.</li> </ul>

## Sensitivity of VIU to reasonably possible changes in key assumptions and changes to current assumptions to achieve nil headroom

	Europe – WPB
<b>In \$bn (unless otherwise stated)</b>	
<b>At 31 December 2020</b>	
Carrying amount	11.1
VIU	16.4
<b>Impact on VIU</b>	
100 bps increase in the discount rate – single variable	(2.3)
30% decrease in cash flow projections – single variable	(6.0)
<b>Cumulative impact of all changes</b>	<b>(7.6)</b>
<b>Changes to key assumption to reduce headroom to nil – single variable</b>	
Discount rate – bps	271
Cash flows – %	(26.5)

## 30 June impairment indicators review

At 30 June 2020, we considered the pervasive macroeconomic deterioration caused by the outbreak of Covid-19, along with the impact on forecast profitability in some businesses, to be an indicator of goodwill impairment. As a result, an interim impairment test was performed by comparing the estimated recoverable amount of each CGU carrying goodwill, determined by a VIU calculation, with its carrying amount. At 30 June 2020, the goodwill allocated to Middle East and North Africa – WPB (\$41m) was fully impaired. This CGU carried no further significant non-financial assets.

## Other intangible assets

### Impairment testing

We considered the pervasive macroeconomic deterioration caused by the outbreak of Covid-19, along with the impact of forecast profitability in some businesses, to be indicators of intangible asset impairment during the period. The impairment tests were performed by comparing the net carrying amount of CGUs containing intangible assets with their recoverable amounts. Recoverable amounts were determined by calculating an estimated VIU or fair value, as appropriate, for each CGU. Our cash flow forecasts were updated for changes in the external outlook, although economic and geopolitical risks increase the inherent estimation uncertainty.

We recognised \$1.3bn of capitalised software impairment related principally to businesses within HSBC Bank plc, our non-ring-fenced bank in Europe, and to a lesser degree businesses within HSBC USA Inc. This impairment reflected underperformance and deterioration in the future forecasts of these businesses, substantially relating to prior periods in HSBC Bank plc.

### Key assumptions in VIU calculation

We used a number of assumptions in our VIU calculation, in accordance with the requirements of IAS 36:

- Management's judgement in estimating future cash flows: We considered past business performance, the scale of the current impact from the Covid-19 outbreak on our operations, current market conditions and our macroeconomic outlook to estimate future earnings. As required by IFRSs, estimates of future cash flows exclude estimated cash inflows or outflows that are expected to arise from restructuring initiatives before an entity has a constructive obligation to carry out the plan, and would therefore have recognised

## Notes on the financial statements

a provision for restructuring costs. For some businesses, this means that the benefit of certain strategic actions are not included in this impairment assessment, including capital releases.

- Long-term growth rates: The long-term growth rate is used to extrapolate the cash flows in perpetuity because of the long-term perspective of the businesses within the Group.
- Discount rates: Rates are based on a CAPM calculation considering market data for the businesses and geographies in which the Group operates. Discount rates ranged from 8.5% to 9.7% for HSBC Bank plc's businesses.

### Future software capitalisation

We will continue to invest in digital capabilities to meet our strategic objectives. However, software capitalisation within businesses where impairment was identified will not resume until the performance outlook for each business indicates future profits are sufficient to support capitalisation. The cost of additional software investment in these businesses will be recognised as an operating expense until such time.

### Sensitivity of estimates relating to non-financial assets

As explained in Note 1.2(a), estimates of future cash flows for cash-generating units ('CGUs') are made in the review of goodwill and non-financial assets for impairment. Non-financial assets include other intangible assets shown above, and owned property, plant and equipment and right-of-use assets (see Note 22). The most significant sources of estimation uncertainty are in respect of the goodwill balances disclosed above. There are no non-financial asset balances relating to individual CGUs which involve estimation uncertainty that represents a significant risk of resulting in a material adjustment to the results and financial position of the Group within the next financial year. Non-financial assets are widely distributed across CGUs within the legal entities of the Group, including Corporate Centre assets that cannot be allocated to CGUs and are therefore tested for impairment at consolidated level, and the recoverable amounts of other intangible assets, owned property, plant and equipment, and right-of-use assets cannot be lower than individual asset fair values less costs to dispose, where relevant. At HSBC Holdings plc consolidated level, Corporate Centre assets that cannot be allocated to CGUs within the legal entities of the Group were sensitive to reasonably possible adverse changes in cash flow projections and discount rates, which could result in a recoverable amount that is lower than the carrying amount. Corporate Centre non-financial assets include owned property, plant and equipment (\$2.1bn), right-of-use assets (\$0.6bn) and other intangible assets (\$0.5bn). A 12% decrease in cash flow projections or a 110bps increase in the discount rate (from 10.5% to 11.6%) would reduce the current CGU headroom (\$27.5bn) to nil.

### Present value of in-force long-term insurance business

When calculating the present value of in-force long-term ('PVIF') insurance business, expected cash flows are projected after adjusting for a variety of assumptions made by each insurance operation to reflect local market conditions, and management's judgement of future trends and uncertainty in the underlying assumptions is reflected by applying margins (as opposed to a cost of capital methodology) including valuing the cost of policyholder options and guarantees using stochastic techniques.

Actuarial Control Committees of each key insurance entity meet on a quarterly basis to review and approve PVIF assumptions. All changes to non-economic assumptions, economic assumptions that are not observable and model methodologies must be approved by the Actuarial Control Committee.

### Movements in PVIF

	Footnotes	2020 \$m	2019 \$m
<b>At 1 Jan</b>		<b>8,945</b>	7,149
Change in PVIF of long-term insurance business		<b>382</b>	1,749
– value of new business written during the year		<b>776</b>	1,225
– expected return	1	<b>(1,003)</b>	(836)
– assumption changes and experience variances (see below)		<b>604</b>	1,378
– other adjustments		<b>5</b>	(18)
Exchange differences and other movements		<b>108</b>	47
<b>At 31 Dec</b>		<b>9,435</b>	8,945

1 'Expected return' represents the unwinding of the discount rate and reversal of expected cash flows for the period.

### Assumption changes and experience variances

Included within this line item are:

- \$132m (2019: \$1,126m), directly offsetting interest rate-driven changes to the valuation of liabilities under insurance contracts;
- \$247m (2019: \$36m), reflecting the future expected sharing of returns with policyholders on contracts with discretionary participation features ('DPF'), to the extent this sharing is not already included in liabilities under insurance contracts; and
- \$225m (2019: \$216m), driven by other assumptions changes and experience variances.

### Key assumptions used in the computation of PVIF for main life insurance operations

Economic assumptions are set in a way that is consistent with observable market values. The valuation of PVIF is sensitive to observed market movements and the impact of such changes is included in the sensitivities presented below.

	2020		2019	
	Hong Kong %	France <sup>1</sup> %	Hong Kong %	France <sup>1</sup> %
Weighted average risk-free rate	<b>0.71</b>	<b>0.34</b>	1.84	0.44
Weighted average risk discount rate	<b>4.96</b>	<b>1.34</b>	5.44	1.27
Expense inflation	<b>3.00</b>	<b>1.60</b>	3.00	1.70

1 For 2020, the calculation of France's PVIF assumes a risk discount rate of 1.34% (2019: 1.27%) plus a risk margin of \$213m (2019: \$130m).



## Sensitivity to changes in economic assumptions

The Group sets the risk discount rate applied to the PVIF calculation by starting from a risk-free rate curve and adding explicit allowances for risks not reflected in the best-estimate cash flow modelling. Where the insurance operations provide options and guarantees to policyholders, the cost of these options and guarantees is accounted for as a deduction from the PVIF asset, unless the cost of such guarantees is already allowed for as an explicit addition to liabilities under insurance contracts. For further details of these guarantees and the impact of changes in economic assumptions on our insurance manufacturing subsidiaries, see page 235.

## Sensitivity to changes in non-economic assumptions

Policyholder liabilities and PVIF are determined by reference to non-economic assumptions, including mortality and/or morbidity, lapse rates and expense rates. For further details on the impact of changes in non-economic assumptions on our insurance manufacturing operations, see page 236.

## 22 Prepayments, accrued income and other assets

	2020 \$m	2019 \$m
Prepayments and accrued income	8,114	9,057
Settlement accounts	17,316	14,744
Cash collateral and margin receivables	59,543	49,148
Assets held for sale	299	123
Bullion	20,151	14,830
Endorsements and acceptances	10,278	10,198
Reinsurers' share of liabilities under insurance contracts (Note 4)	3,448	3,592
Employee benefit assets (Note 5)	10,450	8,280
Right-of-use assets	4,002	4,222
Owned property, plant and equipment	10,412	10,480
Other accounts	12,399	12,006
<b>At 31 Dec</b>	<b>156,412</b>	<b>136,680</b>

Prepayments, accrued income and other assets include \$105,469m (2019: \$92,979m) of financial assets, the majority of which are measured at amortised cost.

## 23 Trading liabilities

	Footnotes	2020 \$m	2019 \$m
Deposits by banks	1	6,689	4,187
Customer accounts	1	10,681	6,999
Other debt securities in issue (Note 25)		1,582	1,404
Other liabilities – net short positions in securities		56,314	70,580
<b>At 31 Dec</b>		<b>75,266</b>	<b>83,170</b>

1 'Deposits by banks' and 'Customer accounts' include repos, stock lending and other amounts.

## 24 Financial liabilities designated at fair value

### HSBC

	Footnotes	2020 \$m	2019 \$m
Deposits by banks and customer accounts	1, 2	19,176	17,660
Liabilities to customers under investment contracts		6,385	5,893
Debt securities in issue (Note 25)		121,034	130,364
Subordinated liabilities (Note 28)		10,844	10,130
Preferred securities (Note 28)		–	419
<b>At 31 Dec</b>		<b>157,439</b>	<b>164,466</b>

1 Structured deposits placed at HSBC Bank USA are insured by the Federal Deposit Insurance Corporation, a US government agency, up to \$250,000 per depositor.

2 In 2020, cash prime brokerage balances of \$3,889m have been presented as a single balance, resulting in a reclassification from customer accounts at amortised cost to provide more relevant information on the effect of these transactions on the Group's financial position. Comparatives have not been re-presented.

The carrying amount of financial liabilities designated at fair value was \$9,333m more than the contractual amount at maturity (2019: \$6,120m more). The cumulative amount of change in fair value attributable to changes in credit risk was a loss of \$2,542m (2019: loss of \$2,877m).

## Notes on the financial statements

### HSBC Holdings

	2020	2019
	\$m	\$m
Debt securities in issue (Note 25)	19,624	24,687
Subordinated liabilities (Note 28)	6,040	5,616
<b>At 31 Dec</b>	<b>25,664</b>	<b>30,303</b>

The carrying amount of financial liabilities designated at fair value was \$3,019m more than the contractual amount at maturity (2019: \$2,227m more). The cumulative amount of change in fair value attributable to changes in credit risk was a loss of \$1,210m (2019: \$1,386m).

## 25 Debt securities in issue

### HSBC

	2020	2019
	\$m	\$m
Bonds and medium-term notes	176,570	180,969
Other debt securities in issue	41,538	55,354
<b>Total debt securities in issue</b>	<b>218,108</b>	<b>236,323</b>
Included within:		
– trading liabilities (Note 23)	(1,582)	(1,404)
– financial liabilities designated at fair value (Note 24)	(121,034)	(130,364)
<b>At 31 Dec</b>	<b>95,492</b>	<b>104,555</b>

### HSBC Holdings

	2020	2019
	\$m	\$m
Debt securities	83,653	81,531
Included within:		
– financial liabilities designated at fair value (Note 24)	(19,624)	(24,687)
<b>At 31 Dec</b>	<b>64,029</b>	<b>56,844</b>

## 26 Accruals, deferred income and other liabilities

	2020	2019
	\$m	\$m
Accruals and deferred income	10,406	11,808
Settlement accounts	13,008	14,356
Cash collateral and margin payables	65,557	56,646
Endorsements and acceptances	10,293	10,127
Employee benefit liabilities (Note 5)	2,025	1,771
Lease liabilities	4,614	4,604
Other liabilities	22,721	18,844
<b>At 31 Dec</b>	<b>128,624</b>	<b>118,156</b>

Accruals, deferred income and other liabilities include \$120,229m (2019: \$111,395m) of financial liabilities, the majority of which are measured at amortised cost.

## 27 Provisions

	Restructuring costs \$m	Legal proceedings and regulatory matters \$m	Customer remediation \$m	Other provisions \$m	Total \$m
<b>Provisions (excluding contractual commitments)</b>					
At 1 Jan 2020	356	605	1,646	280	2,887
Additions	698	347	189	222	1,456
Amounts utilised	(322)	(177)	(739)	(125)	(1,363)
Unused amounts reversed	(74)	(75)	(240)	(80)	(469)
Exchange and other movements	13	56	2	8	79
<b>At 31 Dec 2020</b>	<b>671</b>	<b>756</b>	<b>858</b>	<b>305</b>	<b>2,590</b>
<b>Contractual commitments<sup>1</sup></b>					
At 1 Jan 2020					511
Net change in expected credit loss provision and other movements					577
<b>At 31 Dec 2020</b>					<b>1,088</b>
<b>Total provisions</b>					
At 31 Dec 2019					3,398
<b>At 31 Dec 2020</b>					<b>3,678</b>

<b>Provisions (excluding contractual commitments)</b>					
At 1 Jan 2019	130	1,128	788	357	2,403
Additions	402	282	1,674	223	2,581
Amounts utilised	(203)	(660)	(837)	(81)	(1,781)
Unused amounts reversed	(34)	(158)	(49)	(108)	(349)
Exchange and other movements	61	13	70	(111)	33
At 31 Dec 2019	356	605	1,646	280	2,887
<b>Contractual commitments<sup>1</sup></b>					
At 1 Jan 2019					517
Net change in expected credit loss provision and other movements					(6)
At 31 Dec 2019					511
<b>Total provisions</b>					
At 31 Dec 2018					2,920
At 31 Dec 2019					3,398

<sup>1</sup> Contractual commitments include the provision for contingent liabilities measured under IFRS 9 'Financial Instruments' in respect of financial guarantees and the expected credit loss provision on off-balance sheet guarantees and commitments.

Further details of 'Legal proceedings and regulatory matters' are set out in Note 34. Legal proceedings include civil court, arbitration or tribunal proceedings brought against HSBC companies (whether by way of claim or counterclaim) or civil disputes that may, if not settled, result in court, arbitration or tribunal proceedings. Regulatory matters refer to investigations, reviews and other actions carried out by, or in response to the actions of, regulators or law enforcement agencies in connection with alleged wrongdoing by HSBC.

Customer remediation refers to HSBC's activities to compensate customers for losses or damages associated with a failure to comply with regulations or to treat customers fairly. Customer remediation is often initiated by HSBC in response to customer complaints and/or industry developments in sales practices and is not necessarily initiated by regulatory action. Further details of customer remediation are set out in this note.

At 31 December 2020, \$0.3bn (2019: \$1.1bn) of the customer remediation provision related to the estimated liability for redress in respect of the possible mis-selling of payment protection insurance ('PPI') policies in previous years. Of the \$1.1bn balance at 31 December 2019, \$0.6bn has been utilised during 2020 and an unused release of \$0.1bn was recognised.

At 31 December 2020, a provision of \$0.3bn (2019: \$0.3bn) was held relating to the estimated liability for redress payable to customers following a review of historical collections and recoveries practices in the UK.

For further details of the impact of IFRS 9 on undrawn loan commitments and financial guarantees, presented in 'Contractual commitments', see Note 32. This provision results from the adoption of IFRS 9 and has no comparatives. Further analysis of the movement in the expected credit loss provision is disclosed within the 'Reconciliation of allowances for loans and advances to banks and customers including loan commitments and financial guarantees' table on page 178.

## Notes on the financial statements

### 28 Subordinated liabilities

#### HSBC's subordinated liabilities

	2020	2019
	\$m	\$m
At amortised cost	21,951	24,600
– subordinated liabilities	20,095	22,775
– preferred securities	1,856	1,825
Designated at fair value (Note 24)	10,844	10,549
– subordinated liabilities	10,844	10,130
– preferred securities	–	419
<b>At 31 Dec</b>	<b>32,795</b>	<b>35,149</b>
Issued by HSBC subsidiaries	10,223	12,363
Issued by HSBC Holdings	22,572	22,786

Subordinated liabilities rank behind senior obligations and generally count towards the capital base of HSBC. Capital securities may be called and redeemed by HSBC subject to prior notification to the PRA and, where relevant, the consent of the local banking regulator. If not redeemed at the first call date, coupons payable may reset or become floating rate based on interbank rates. On subordinated liabilities other than floating rate notes, interest is payable at fixed rates of up to 10.176%.

The balance sheet amounts disclosed in the following table are presented on an IFRS basis and do not reflect the amount that the instruments contribute to regulatory capital, principally due to regulatory amortisation and regulatory eligibility limits.

#### HSBC's subsidiaries subordinated liabilities in issue

		2020	2019
		\$m	\$m
<b>Additional tier 1 capital securities guaranteed by HSBC Holdings</b>	<i>Footnotes</i>		
\$900m 10.176% non-cumulative step-up perpetual preferred securities, series 2	1	900	900
		900	900
<b>Additional tier 1 capital securities guaranteed by HSBC Bank plc</b>	1		
£300m 5.862% non-cumulative step-up perpetual preferred securities	2	–	420
£700m 5.844% non-cumulative step-up perpetual preferred securities		956	925
		956	1,345
<b>Tier 2 securities issued by HSBC Bank plc</b>			
\$750m Undated floating rate primary capital notes		750	750
\$500m Undated floating rate primary capital notes		500	500
\$300m Undated floating rate primary capital notes, series 3		300	300
\$300m 7.65% subordinated notes		300	300
		1,850	1,850
£300m 6.50% subordinated notes		409	396
£350m 5.375% callable subordinated step-up notes	3	583	549
£500m 5.375% subordinated notes		981	875
£225m 6.25% subordinated notes		306	296
£600m 4.75% subordinated notes		812	785
		3,091	2,901
		4,941	4,751
<b>Tier 2 securities issued by The Hongkong and Shanghai Banking Corporation Ltd</b>			
\$400m Primary capital undated floating rate notes (third series)		400	400
		400	400
<b>Tier 2 securities issued by HSBC Bank Malaysia Berhad</b>			
MYR500m 5.05% subordinated bonds	7	124	122
		124	122
<b>Tier 2 securities issued by HSBC USA Inc.</b>	7		
\$750m 5.00% subordinated notes	8	–	748
\$250m 7.20% subordinated debentures		222	221
Other subordinated liabilities each less than \$150m		200	202
		422	1,171
<b>Tier 2 securities issued by HSBC Bank USA, N.A.</b>			
\$1,250m 4.875% subordinated notes	8	–	1,246
\$1,000m 5.875% subordinated notes	5	497	463
\$750m 5.625% subordinated notes	5	533	496
\$700m 7.00% subordinated notes		700	700
		1,730	2,905
<b>Tier 2 securities issued by HSBC Finance Corporation</b>			
\$2,939m 6.676% senior subordinated notes	6,7	509	507
<b>Tier 2 securities issued by HSBC Bank Canada</b>			
Other subordinated liabilities each less than \$150.00m		9	26
		9	26
<b>Securities issued by other HSBC subsidiaries</b>			
Other subordinated liabilities each less than \$200m	4	232	236
<b>Subordinated liabilities issued by HSBC subsidiaries at 31 Dec</b>		<b>10,223</b>	<b>12,363</b>

- 1 See paragraph below, 'Guaranteed by HSBC Holdings or HSBC Bank plc'.
- 2 HSBC Bank plc exercised the call option on the security in April 2020 and the security was subsequently redeemed.
- 3 The interest rate payable after November 2025 is the sum of the three-month sterling Libor plus 1.5 percentage points.
- 4 These securities are included in the capital base of HSBC, a subset of which are included in accordance with the grandfathering provisions under CRR II, with the exception of \$109m in relation to securities which matured 31 December 2020, settlement expected in June 2021, which are no longer eligible for inclusion in the capital base of HSBC.
- 5 HSBC tendered for these securities in November 2019. The principal balance is \$358m and \$383m respectively. The original notional value of these securities are \$1,000m and \$750m respectively.
- 6 HSBC tendered for these securities in 2017. In January 2018, a further tender was conducted. The principal balance is \$507m. The original notional of these securities is \$2,939m. This instrument matured and settled in January 2021.
- 7 These securities are ineligible for inclusion in the capital base of HSBC.
- 8 These securities matured in 2020 and were redeemed.

### HSBC Holdings' subordinated liabilities

	2020	2019
	\$m	\$m
At amortised cost	17,916	18,361
Designated at fair value (Note 24)	6,040	5,616
<b>At 31 Dec</b>	<b>23,956</b>	<b>23,977</b>

### HSBC Holdings' subordinated liabilities in issue

	Footnotes	First call date	Maturity date	2020	2019	
				\$m	\$m	
<b>Tier 2 securities issued by HSBC Holdings</b>						
<b>Amounts owed to third parties</b>						
\$2,000m	4.25% subordinated notes	2,3	—	Mar 2024	2,151	2,076
\$1,500m	4.25% subordinated notes	2	—	Aug 2025	1,702	1,611
\$1,500m	4.375% subordinated notes	2	—	Nov 2026	1,736	1,626
\$488m	7.625% subordinated notes	1	—	May 2032	541	545
\$222m	7.35% subordinated notes	1	—	Nov 2032	243	245
\$2,000m	6.50% subordinated notes	1	—	May 2036	2,034	2,036
\$2,500m	6.50% subordinated notes	1	—	Sep 2037	3,033	2,738
\$1,500m	6.80% subordinated notes	1	—	Jun 2038	1,490	1,490
\$1,500m	5.25% subordinated notes	2	—	Mar 2044	2,092	1,886
£650m	5.75% subordinated notes	2	—	Dec 2027	1,130	1,059
£650m	6.75% subordinated notes	2	—	Sep 2028	884	855
£750m	7.00% subordinated notes	2	—	Apr 2038	1,157	1,064
£900m	6.00% subordinated notes	2	—	Mar 2040	1,483	1,294
€1,500m	3.0% subordinated notes	2	—	Jun 2025	1,916	1,736
€1,000m	3.125% subordinated notes	2	—	Jun 2028	1,472	1,321
				<b>23,064</b>	<b>21,582</b>	
<b>Amounts owed to HSBC undertakings</b>						
\$900m	10.176% subordinated step-up cumulative notes		Jun 2030	Jun 2040	892	892
					<b>892</b>	<b>892</b>
<b>Other securities issued by HSBC Holdings</b>						
<b>Amounts owed to third parties</b>						
\$1,500m	5.625% contingent convertible securities	4	Nov 2019	Jan 2020	—	1,503
					—	1,503
<b>At 31 Dec</b>					<b>23,956</b>	<b>23,977</b>

- 1 Amounts owed to third parties represent securities included in the capital base of HSBC as tier 2 securities in accordance with the grandfathering provisions under CRR II. Prior period figures are included on a CRD IV basis.
- 2 These securities are included in the capital base of HSBC as fully CRR II-compliant tier 2 securities on an end point basis.
- 3 These subordinated notes are measured at amortised cost in HSBC Holdings, where the interest rate risk is hedged using a fair value hedge, while they are measured at fair value in the Group.
- 4 This security was called by HSBC Holdings on 22 November 2019 and was redeemed and cancelled on 17 January 2020. Between the date of exercise of the call option and the redemption, this security was considered to be a subordinated liability. Refer to Note 31 for further details on additional tier 1 securities.

### Guaranteed by HSBC Holdings or HSBC Bank plc

Capital securities guaranteed by HSBC Holdings or HSBC Bank plc were issued by the Jersey limited partnerships. The proceeds of these were lent to the respective guarantors by the limited partnerships in the form of subordinated notes. They qualify as additional tier 1 capital for HSBC under CRR II by virtue of the application of grandfathering provisions. The capital security guaranteed by HSBC Bank plc also qualifies as additional tier 1 capital for HSBC Bank plc (on a solo and a consolidated basis) under CRR II by virtue of the same grandfathering process.

These preferred securities, together with the guarantee, are intended to provide investors with rights to income and capital distributions and distributions upon liquidation of the relevant issuer that are equivalent to the rights that they would have had if they had purchased non-cumulative perpetual preference shares of the relevant issuer. There are limitations on the payment of distributions if such payments are prohibited under UK banking regulations or other requirements, if a payment would cause a breach of HSBC's capital adequacy requirements, or if HSBC Holdings or HSBC Bank plc has insufficient distributable reserves (as defined).

## Notes on the financial statements

HSBC Holdings and HSBC Bank plc have individually covenanted that, if prevented under certain circumstances from paying distributions on the preferred securities in full, they will not pay dividends or other distributions in respect of their ordinary shares, or repurchase or redeem their ordinary shares, until the distribution on the preferred securities has been paid in full.

If the consolidated total capital ratio of HSBC Holdings falls below the regulatory minimum required or if the Directors expect it to do so in the near term, provided that proceedings have not been commenced for the liquidation, dissolution or winding up of HSBC Holdings, the holders' interests in the preferred securities guaranteed by HSBC Holdings will be exchanged for interests in preference shares issued by HSBC Holdings that have economic terms which are in all material respects equivalent to the preferred securities and their guarantee.

If the preferred securities guaranteed by HSBC Bank plc are outstanding in November 2048, or if the total capital ratio of HSBC Bank plc (on a solo or consolidated basis) falls below the regulatory minimum required, or if the Directors expect it to do so in the near term, provided that proceedings have not been commenced for the liquidation, dissolution or winding up of HSBC Bank plc, the holders' interests in the preferred security guaranteed by HSBC Bank plc will be exchanged for interests in preference shares issued by HSBC Bank plc that have economic terms which are in all material respects equivalent to the preferred security and its guarantee.

### Tier 2 securities

Tier 2 capital securities are either perpetual or dated subordinated securities on which there is an obligation to pay coupons. These capital securities are included within HSBC's regulatory capital base as tier 2 capital under CRR II, either as fully eligible capital or by virtue of the application of grandfathering provisions. In accordance with CRR II, the capital contribution of all tier 2 securities is amortised for regulatory purposes in their final five years before maturity.

## 29 Maturity analysis of assets, liabilities and off-balance sheet commitments

---

The table on page 383 provides an analysis of consolidated total assets, liabilities and off-balance sheet commitments by residual contractual maturity at the balance sheet date. These balances are included in the maturity analysis as follows:

- Trading assets and liabilities (including trading derivatives but excluding reverse repos, repos and debt securities in issue) are included in the 'Due not more than 1 month' time bucket, because trading balances are typically held for short periods of time.
- Financial assets and liabilities with no contractual maturity (such as equity securities) are included in the 'Due over 5 years' time bucket. Undated or perpetual instruments are classified based on the contractual notice period, which the counterparty of the instrument is entitled to give. Where there is no contractual notice period, undated or perpetual contracts are included in the 'Due over 5 years' time bucket.
- Non-financial assets and liabilities with no contractual maturity are included in the 'Due over 5 years' time bucket.
- Financial instruments included within assets and liabilities of disposal groups held for sale are classified on the basis of the contractual maturity of the underlying instruments and not on the basis of the disposal transaction.
- Liabilities under insurance contracts are included in the 'Due over 5 years' time bucket. Liabilities under investment contracts are classified in accordance with their contractual maturity. Undated investment contracts are included in the 'Due over 5 years' time bucket, although such contracts are subject to surrender and transfer options by the policyholders.
- Loan and other credit-related commitments are classified on the basis of the earliest date they can be drawn down.

Maturity analysis of assets, liabilities and off-balance sheet commitments

	Due not more than 1 month \$m	Due over 1 month but not more than 3 months \$m	Due over 3 months but not more than 6 months \$m	Due over 6 months but not more than 9 months \$m	Due over 9 months but not more than 1 year \$m	Due over 1 year but not more than 2 years \$m	Due over 2 years but not more than 5 years \$m	Due over 5 years \$m	Total \$m
<b>Financial assets</b>									
Cash and balances at central banks	304,481	–	–	–	–	–	–	–	304,481
Items in the course of collection from other banks	4,094	–	–	–	–	–	–	–	4,094
Hong Kong Government certificates of indebtedness	40,420	–	–	–	–	–	–	–	40,420
Trading assets	228,434	1,778	458	135	67	644	474	–	231,990
Financial assets designated or otherwise mandatorily measured at fair value	3,061	240	466	262	454	1,424	1,992	37,654	45,553
Derivatives	306,561	15	12	14	14	441	424	245	307,726
Loans and advances to banks	51,652	11,283	5,640	3,068	2,284	4,059	3,359	271	81,616
Loans and advances to customers	172,306	70,746	65,838	44,392	38,606	112,440	206,448	327,211	1,037,987
– personal	51,711	9,645	7,918	7,270	7,033	26,318	70,447	275,736	456,078
– corporate and commercial	101,684	55,009	51,755	31,529	28,553	76,225	125,393	47,446	517,594
– financial	18,911	6,092	6,165	5,593	3,020	9,897	10,608	4,029	64,315
Reverse repurchase agreements – non-trading	157,234	44,658	16,655	5,113	1,324	3,058	2,586	–	230,628
Financial investments	47,270	77,450	44,255	14,523	24,112	48,741	100,007	134,335	490,693
Accrued income and other financial assets	93,118	5,951	2,743	475	458	267	444	2,107	105,563
<b>Financial assets at 31 Dec 2020</b>	<b>1,408,631</b>	<b>212,121</b>	<b>136,067</b>	<b>67,982</b>	<b>67,319</b>	<b>171,074</b>	<b>315,734</b>	<b>501,823</b>	<b>2,880,751</b>
Non-financial assets	–	–	–	–	–	–	–	103,413	103,413
<b>Total assets at 31 Dec 2020</b>	<b>1,408,631</b>	<b>212,121</b>	<b>136,067</b>	<b>67,982</b>	<b>67,319</b>	<b>171,074</b>	<b>315,734</b>	<b>605,236</b>	<b>2,984,164</b>
<b>Off-balance sheet commitments received</b>									
Loan and other credit-related commitments	60,849	–	–	–	–	–	–	–	60,849
<b>Financial liabilities</b>									
Hong Kong currency notes in circulation	40,420	–	–	–	–	–	–	–	40,420
Deposits by banks	60,973	1,396	714	695	197	718	16,757	630	82,080
Customer accounts <sup>1</sup>	1,533,595	61,376	22,568	9,375	8,418	4,467	2,859	122	1,642,780
– personal	766,631	32,429	15,511	6,276	5,825	3,591	1,976	39	832,278
– corporate and commercial	588,887	22,856	5,963	2,966	2,058	627	777	37	624,171
– financial	178,077	6,091	1,094	133	535	249	106	46	186,331
Repurchase agreements – non-trading	102,633	3,979	2,165	386	675	16	1,035	1,012	111,901
Items in the course of transmission to other banks	4,343	–	–	–	–	–	–	–	4,343
Trading liabilities	70,799	3,377	400	143	185	289	72	1	75,266
Financial liabilities designated at fair value	18,434	7,333	6,973	6,775	6,593	14,182	40,510	56,639	157,439
– debt securities in issue: covered bonds	–	–	–	–	–	1,239	2,918	–	4,157
– debt securities in issue: unsecured	10,762	4,470	5,522	5,604	5,530	10,455	31,710	42,825	116,878
– subordinated liabilities and preferred securities	–	–	–	–	–	–	3,912	6,932	10,844
– other <sup>2</sup>	7,672	2,863	1,451	1,171	1,063	2,488	1,970	6,882	25,560
Derivatives	300,902	264	198	38	55	237	726	581	303,001
Debt securities in issue	6,552	12,329	14,964	9,764	3,878	9,215	16,618	22,172	95,492
– covered bonds	–	–	28	–	750	1,275	999	–	3,052
– otherwise secured	1,094	1,585	1,001	1,000	–	274	1,640	1,590	8,184
– unsecured	5,458	10,744	13,935	8,764	3,128	7,666	13,979	20,582	84,256
Accruals and other financial liabilities	96,821	9,794	3,886	692	1,174	1,742	3,179	3,053	120,341
Subordinated liabilities	619	–	237	–	12	12	2,658	18,413	21,951
<b>Total financial liabilities at 31 Dec 2020</b>	<b>2,236,091</b>	<b>99,848</b>	<b>52,105</b>	<b>27,868</b>	<b>21,187</b>	<b>30,878</b>	<b>84,414</b>	<b>102,623</b>	<b>2,655,014</b>
Non-financial liabilities	–	–	–	–	–	–	–	124,155	124,155
<b>Total liabilities at 31 Dec 2020</b>	<b>2,236,091</b>	<b>99,848</b>	<b>52,105</b>	<b>27,868</b>	<b>21,187</b>	<b>30,878</b>	<b>84,414</b>	<b>226,778</b>	<b>2,779,169</b>
<b>Off-balance sheet commitments given</b>									
Loan and other credit-related commitments	842,974	435	172	243	296	180	299	171	844,770
– personal	235,606	172	27	47	115	125	288	171	236,551
– corporate and commercial	471,410	250	138	194	178	37	11	–	472,218
– financial	135,958	13	7	2	3	18	–	–	136,001

## Notes on the financial statements

### Maturity analysis of assets, liabilities and off-balance sheet commitments (continued)

	Due not more than 1 month \$m	Due over 1 month but not more than 3 months \$m	Due over 3 months but not more than 6 months \$m	Due over 6 months but not more than 9 months \$m	Due over 9 months but not more than 1 year \$m	Due over 1 year but not more than 2 years \$m	Due over 2 years but not more than 5 years \$m	Due over 5 years \$m	Total \$m
<b>Financial assets</b>									
Cash and balances at central banks	154,099	—	—	—	—	—	—	—	154,099
Items in the course of collection from other banks	4,956	—	—	—	—	—	—	—	4,956
Hong Kong Government certificates of indebtedness	38,380	—	—	—	—	—	—	—	38,380
Trading assets	252,009	644	412	62	452	152	540	—	254,271
Financial assets designated at fair value	4,846	74	381	200	422	780	2,356	34,568	43,627
Derivatives	241,941	150	24	27	22	112	294	425	242,995
Loans and advances to banks	41,554	7,826	4,877	2,592	2,859	6,848	2,005	642	69,203
Loans and advances to customers	190,675	82,379	61,254	36,005	36,755	106,203	227,811	295,661	1,036,743
– personal	51,893	14,547	8,562	7,245	6,931	22,923	66,761	252,275	431,137
– corporate and commercial	118,585	61,629	45,924	25,006	25,069	71,751	147,139	39,958	535,061
– financial	20,197	6,203	6,768	3,754	4,755	11,529	13,911	3,428	70,545
Reverse repurchase agreements – non-trading	164,741	38,997	17,933	8,226	6,305	2,298	2,362	—	240,862
Financial investments	36,128	64,472	35,795	17,485	18,202	48,427	90,193	132,610	443,312
Accrued income and other financial assets	80,661	5,544	2,532	915	495	432	363	2,037	92,979
Financial assets at 31 Dec 2019	1,209,990	200,086	123,208	65,512	65,512	165,252	325,924	465,943	2,621,427
Non-financial assets	—	—	—	—	—	—	—	93,725	93,725
Total assets at 31 Dec 2019	1,209,990	200,086	123,208	65,512	65,512	165,252	325,924	559,668	2,715,152
<b>Off-balance sheet commitments received</b>									
Loan and other credit-related commitments	63,199	—	—	—	—	—	—	—	63,199
<b>Financial liabilities</b>									
Hong Kong currency notes in circulation	38,380	—	—	—	—	—	—	—	38,380
Deposits by banks	46,397	4,167	2,773	454	844	2,455	876	1,056	59,022
Customer accounts <sup>1</sup>	1,287,358	81,038	38,343	11,530	11,342	5,275	4,075	154	1,439,115
– personal	646,843	49,405	29,320	8,484	6,852	3,631	2,646	71	747,252
– corporate and commercial	479,763	24,214	7,162	2,621	3,009	1,119	1,388	41	519,317
– financial	160,752	7,419	1,861	425	1,481	525	41	42	172,546
Repurchase agreements – non-trading	132,042	3,402	1,579	1,882	59	354	2	1,024	140,344
Items in the course of transmission to other banks	4,817	—	—	—	—	—	—	—	4,817
Trading liabilities	82,130	209	265	148	102	287	29	—	83,170
Financial liabilities designated at fair value	12,844	4,667	4,236	4,552	5,196	26,081	43,534	63,356	164,466
– debt securities in issue: covered bonds	—	—	—	—	1,139	—	2,663	1,159	4,961
– debt securities in issue: unsecured	8,884	2,046	2,946	3,757	3,030	22,950	34,753	47,036	125,402
– subordinated liabilities and preferred securities	23	—	—	—	—	—	2,131	8,396	10,550
– other	3,937	2,621	1,290	795	1,027	3,131	3,987	6,765	23,553
Derivatives	237,901	105	73	10	18	68	540	782	239,497
Debt securities in issue	8,183	17,374	12,799	13,152	11,382	14,572	20,048	7,045	104,555
– covered bonds	—	—	—	—	—	749	998	—	1,747
– otherwise secured	2,015	2	248	161	—	219	958	1,663	5,266
– unsecured	6,168	17,372	12,551	12,991	11,382	13,604	18,092	5,382	97,542
Accruals and other financial liabilities	87,796	9,078	3,914	1,244	2,058	1,592	2,823	2,890	111,395
Subordinated liabilities	1,502	—	22	1,993	100	755	424	19,804	24,600
Total financial liabilities at 31 Dec 2019	1,939,350	120,040	64,004	34,965	31,101	51,439	72,351	96,111	2,409,361
Non-financial liabilities	—	—	—	—	—	—	—	113,123	113,123
Total liabilities at 31 Dec 2019	1,939,350	120,040	64,004	34,965	31,101	51,439	72,351	209,234	2,522,484
<b>Off-balance sheet commitments given</b>									
Loan and other credit-related commitments	794,336	600	590	313	551	442	458	318	797,608
– personal	221,952	40	39	56	167	208	392	299	223,153
– corporate and commercial	460,569	117	96	52	381	218	66	19	461,518
– financial	111,815	443	455	205	3	16	—	—	112,937

1 'Customer accounts' includes \$463,524m (2019: \$408,090m) insured by guarantee schemes.

2 In 2020, cash prime brokerage balances of \$3,889m have been presented as a single balance, resulting in a reclassification from customer accounts at amortised cost to provide more relevant information on the effect of these transactions on the Group's financial position. Comparatives have not been re-presented.



## HSBC Holdings

### Maturity analysis of assets, liabilities and off-balance sheet commitments (continued)

	Due not more than 1 month	Due over 1 month but not more than 3 months	Due over 3 months but not more than 6 months	Due over 6 months but not more than 9 months	Due over 9 months but not more than 1 year	Due over 1 year but not more than 2 years	Due over 2 years but not more than 5 years	Due over 5 years	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
<b>Financial assets</b>									
Cash at bank and in hand:									
– balances with HSBC undertakings	2,913	–	–	–	–	–	–	–	2,913
Derivatives	1,473	–	5	–	–	9	1,131	2,080	4,698
Loans and advances to HSBC undertakings	–	600	120	–	–	312	6,027	3,384	10,443
Financial assets with HSBC undertakings designated and otherwise mandatorily measured at fair value									
	–	451	–	–	–	4,320	23,203	37,279	65,253
Financial investments	3,701	3,769	2,924	799	3,528	2,764	–	–	17,485
Accrued income and other financial assets	1,015	275	100	33	22	–	–	–	1,445
<b>Total financial assets at 31 Dec 2020</b>	<b>9,102</b>	<b>5,095</b>	<b>3,149</b>	<b>832</b>	<b>3,550</b>	<b>7,405</b>	<b>30,361</b>	<b>42,743</b>	<b>102,237</b>
Non-financial assets	–	–	–	–	–	–	–	160,936	160,936
<b>Total assets at 31 Dec 2020</b>	<b>9,102</b>	<b>5,095</b>	<b>3,149</b>	<b>832</b>	<b>3,550</b>	<b>7,405</b>	<b>30,361</b>	<b>203,679</b>	<b>263,173</b>
<b>Financial liabilities</b>									
Amounts owed to HSBC undertakings									
	–	330	–	–	–	–	–	–	330
Financial liabilities designated at fair value									
– debt securities in issue	–	984	859	–	–	3,088	3,810	16,923	25,664
– subordinated liabilities and preferred securities	–	–	–	–	–	–	1,702	4,338	6,040
Derivatives	3,052	–	–	–	–	–	–	8	3,060
Debt securities in issue	–	503	1,621	563	–	2,186	24,489	34,667	64,029
Accruals and other financial liabilities	3,769	689	301	57	12	–	1	36	4,865
Subordinated liabilities	–	–	–	–	–	–	4,067	13,849	17,916
<b>31 Dec 2020</b>	<b>6,821</b>	<b>2,506</b>	<b>2,781</b>	<b>620</b>	<b>12</b>	<b>5,274</b>	<b>32,367</b>	<b>65,483</b>	<b>115,864</b>
Non-financial liabilities									
	–	–	–	–	–	–	–	509	509
<b>Total liabilities at 31 Dec 2020</b>	<b>6,821</b>	<b>2,506</b>	<b>2,781</b>	<b>620</b>	<b>12</b>	<b>5,274</b>	<b>32,367</b>	<b>65,992</b>	<b>116,373</b>
<b>Off-balance sheet commitments given</b>									
Undrawn formal standby facilities, credit lines and other commitments to lend									
	–	–	–	–	–	–	–	–	–

<b>Financial assets</b>									
Cash at bank and in hand:									
– balances with HSBC undertakings	2,382	–	–	–	–	–	–	–	2,382
Derivatives	596	–	–	–	–	–	230	1,176	2,002
Loans and advances to HSBC undertakings	102	672	120	25	–	600	1,909	6,790	10,218
Loans and advances to HSBC undertakings designated at fair value									
	–	–	–	–	–	458	24,845	36,661	61,964
Financial investments in HSBC undertakings	2,754	3,493	1,873	2,251	2,721	3,014	–	–	16,106
Accrued income and other financial assets	93	277	97	48	16	12	–	–	543
<b>Total financial assets at 31 Dec 2019</b>	<b>5,927</b>	<b>4,442</b>	<b>2,090</b>	<b>2,324</b>	<b>2,737</b>	<b>4,084</b>	<b>26,984</b>	<b>44,627</b>	<b>93,215</b>
Non-financial assets									
	–	–	–	–	–	–	–	162,025	162,025
<b>Total assets at 31 Dec 2019</b>	<b>5,927</b>	<b>4,442</b>	<b>2,090</b>	<b>2,324</b>	<b>2,737</b>	<b>4,084</b>	<b>26,984</b>	<b>206,652</b>	<b>255,240</b>
<b>Financial liabilities</b>									
Amounts owed to HSBC undertakings									
	–	464	–	–	–	–	–	–	464
Financial liabilities designated at fair value									
– debt securities in issue	–	–	–	–	–	5,651	6,710	17,942	30,303
– subordinated liabilities and preferred securities	–	–	–	–	–	–	–	5,616	5,616
Derivatives	1,838	–	–	–	–	20	85	78	2,021
Debt securities in issue	–	–	–	–	–	10,134	23,786	22,924	56,844
Accruals and other financial liabilities	900	574	303	55	10	–	–	35	1,877
Subordinated liabilities	1,503	–	–	–	–	–	2,076	14,782	18,361
<b>Total financial liabilities at 31 Dec 2019</b>	<b>4,241</b>	<b>1,038</b>	<b>303</b>	<b>55</b>	<b>10</b>	<b>15,805</b>	<b>32,657</b>	<b>55,761</b>	<b>109,870</b>
Non-financial liabilities									
	–	–	–	–	–	–	–	326	326
<b>Total liabilities at 31 Dec 2019</b>	<b>4,241</b>	<b>1,038</b>	<b>303</b>	<b>55</b>	<b>10</b>	<b>15,805</b>	<b>32,657</b>	<b>56,087</b>	<b>110,196</b>
<b>Off-balance sheet commitments given</b>									
Undrawn formal standby facilities, credit lines and other commitments to lend									
	–	–	–	–	–	–	–	–	–

### Contractual maturity of financial liabilities

The following table shows, on an undiscounted basis, all cash flows relating to principal and future coupon payments (except for trading liabilities and derivatives not treated as hedging derivatives). For this reason, balances in the following table do not agree directly with those in our consolidated balance sheet. Undiscounted cash flows payable in relation to hedging derivative liabilities are classified according to their contractual maturities. Trading liabilities and derivatives not treated as hedging derivatives are included in the 'Due not more than 1 month' time bucket and not by contractual maturity.

## Notes on the financial statements

In addition, loans and other credit-related commitments and financial guarantees are generally not recognised on our balance sheet. The undiscounted cash flows potentially payable under loan and other credit-related commitments and financial guarantees are classified on the basis of the earliest date they can be called.

### Cash flows payable by HSBC under financial liabilities by remaining contractual maturities

	Due not more than 1 month	Due over 1 month but not more than 3 months	Due over 3 months but not more than 1 year	Due over 1 year but not more than 5 years	Due over 5 years	Total
	\$m	\$m	\$m	\$m	\$m	\$m
Deposits by banks	61,001	1,442	1,639	17,352	632	82,066
Customer accounts	1,530,584	64,809	40,755	7,720	153	1,644,021
Repurchase agreements – non-trading	102,664	3,984	3,257	1,058	1,017	111,980
Trading liabilities	75,266	–	–	–	–	75,266
Financial liabilities designated at fair value <sup>1</sup>	18,815	7,556	19,243	59,835	55,475	160,924
Derivatives	300,158	356	579	1,830	2,128	305,051
Debt securities in issue	6,551	12,709	29,520	28,787	24,075	101,642
Subordinated liabilities	739	170	1,102	7,024	28,812	37,847
Other financial liabilities	140,094	9,120	5,113	5,030	2,887	162,244
	2,235,872	100,146	101,208	128,636	115,179	2,681,041
Loan and other credit-related commitments	842,945	434	740	480	171	844,770
Financial guarantees <sup>2</sup>	18,200	13	93	37	41	18,384
<b>At 31 Dec 2020</b>	<b>3,097,017</b>	<b>100,593</b>	<b>102,041</b>	<b>129,153</b>	<b>115,391</b>	<b>3,544,195</b>
Proportion of cash flows payable in period	87%	3%	3%	4%	3%	
Deposits by banks	46,471	4,167	4,227	3,371	1,084	59,320
Customer accounts	1,288,577	81,037	62,105	9,900	191	1,441,810
Repurchase agreements – non-trading	132,156	3,403	3,565	368	1,036	140,528
Trading liabilities	83,170	–	–	–	–	83,170
Financial liabilities designated at fair value	13,447	4,666	14,747	76,155	68,045	177,060
Derivatives	237,897	105	522	1,076	1,691	241,291
Debt securities in issue	8,757	17,374	38,423	36,584	8,177	109,315
Subordinated liabilities	1,847	–	2,908	5,197	27,892	37,844
Other financial liabilities	127,898	9,079	6,792	5,637	2,992	152,398
	1,940,220	119,831	133,289	138,288	111,108	2,442,736
Loan and other credit-related commitments	795,243	601	561	886	317	797,608
Financial guarantees <sup>2</sup>	20,007	37	102	68	–	20,214
<b>At 31 Dec 2019</b>	<b>2,755,470</b>	<b>120,469</b>	<b>133,952</b>	<b>139,242</b>	<b>111,425</b>	<b>3,260,558</b>
Proportion of cash flows payable in period	85%	4%	4%	4%	3%	

<sup>1</sup> In 2020, cash prime brokerage balances of \$3,889m have been presented as a single balance, resulting in a reclassification from customer accounts at amortised cost to provide more relevant information on the effect of these transactions on the Group's financial position. Comparatives have not been re-presented.

<sup>2</sup> Excludes performance guarantee contracts to which the impairment requirements in IFRS 9 are not applied.

## HSBC Holdings

HSBC Holdings' primary sources of liquidity are dividends received from subsidiaries, interest on and repayment of intra-Group loans and securities, and interest earned on its own liquid funds. HSBC Holdings also raises funds in the debt capital markets to meet the Group's minimum requirement for own funds and eligible liabilities. HSBC Holdings uses this liquidity to meet its obligations, including interest and principal repayments on external debt liabilities, operating expenses and collateral on derivative transactions.

HSBC Holdings is also subject to contingent liquidity risk by virtue of credit-related commitments and guarantees and similar contracts issued relating to its subsidiaries. Such commitments and guarantees are only issued after due consideration of HSBC Holdings' ability to finance the commitments and guarantees and the likelihood of the need arising.

HSBC Holdings actively manages the cash flows from its subsidiaries to optimise the amount of cash held at the holding company level. During 2020, consistent with the Group's capital plan, the Group's subsidiaries did not experience any significant restrictions on paying dividends or repaying loans and advances. Also, there are no foreseen restrictions envisaged with regard to planned dividends or payments. However, the ability of subsidiaries to pay dividends or advance monies to HSBC Holdings depends on, among other things, their respective local regulatory capital and banking requirements, exchange controls, statutory reserves, and financial and operating performance.

HSBC Holdings currently has sufficient liquidity to meet its present requirements.

Liquidity risk in HSBC Holdings is overseen by Holdings ALCO. This risk arises because of HSBC Holdings' obligation to make payments to debt holders as they fall due and to pay its operating expenses. The liquidity risk related to these cash flows is managed by matching external debt obligations with internal loan cash flows and by maintaining an appropriate liquidity buffer that is monitored by Holdings ALCO.

The balances in the following table are not directly comparable with those on the balance sheet of HSBC Holdings as the table incorporates, on an undiscounted basis, all cash flows relating to principal and future coupon payments (except for derivatives not treated as hedging derivatives). Undiscounted cash flows payable in relation to hedging derivative liabilities are classified according to their contractual maturities. Derivatives not treated as hedging derivatives are included in the 'On demand' time bucket.

In addition, loan commitments and financial guarantees and similar contracts are generally not recognised on our balance sheet. The undiscounted cash flows potentially payable under financial guarantees and similar contracts are classified on the basis of the earliest date on which they can be called.

### Cash flows payable by HSBC Holdings under financial liabilities by remaining contractual maturities

		Due not more than 1 month	Due over 1 month but not more than 3 months	Due over 3 months but not more than 1 year	Due over 1 year but not more than 5 years	Due over 5 years	Total
	Footnotes	\$m	\$m	\$m	\$m	\$m	\$m
Amounts owed to HSBC undertakings		–	330	–	–	–	330
Financial liabilities designated at fair value		70	1,109	1,412	9,110	16,104	27,805
Derivatives		3,085	–	2	–	–	3,087
Debt securities in issue		135	760	3,354	31,567	37,103	72,919
Subordinated liabilities		82	156	726	7,513	21,552	30,029
Other financial liabilities		3,769	690	370	–	36	4,865
		7,141	3,045	5,864	48,190	74,795	139,035
Loan commitments		–	–	–	–	–	–
Financial guarantees	1	13,787	–	–	–	–	13,787
<b>At 31 Dec 2020</b>		<b>20,928</b>	<b>3,045</b>	<b>5,864</b>	<b>48,190</b>	<b>74,795</b>	<b>152,822</b>
Amounts owed to HSBC undertakings		–	464	–	–	–	464
Financial liabilities designated at fair value		88	168	784	14,776	18,184	34,000
Derivatives		1,838	–	–	105	78	2,021
Debt securities in issue		128	244	1,137	38,690	25,310	65,509
Subordinated liabilities		1,588	154	718	5,743	21,533	29,736
Other financial liabilities		956	519	365	–	–	1,840
		4,598	1,549	3,004	59,314	65,105	133,570
Loan commitments		–	–	–	–	–	–
Financial guarantees	1	11,061	–	–	–	–	11,061
At 31 Dec 2019		15,659	1,549	3,004	59,314	65,105	144,631

1 Excludes performance guarantee contracts to which the impairment requirements in IFRS 9 are not applied.

### 30 Offsetting of financial assets and financial liabilities

In the following table, the 'Amounts not set off in the balance sheet' include transactions where:

- the counterparty has an offsetting exposure with HSBC and a master netting or similar arrangement is in place with a right to set off only in the event of default, insolvency or bankruptcy, or the offset criteria are otherwise not satisfied; and
- in the case of derivatives and reverse repurchase/repurchase, stock borrowing/lending and similar agreements, cash and non-cash collateral has been received/pledged.

For risk management purposes, the net amounts of loans and advances to customers are subject to limits, which are monitored and the relevant customer agreements are subject to review and updated, as necessary, to ensure the legal right to set off remains appropriate.

## Notes on the financial statements

### Offsetting of financial assets and financial liabilities

Footnotes	Amounts subject to enforceable netting arrangements									Total \$m
	Gross amounts \$m	Amounts offset \$m	Net amounts in the balance sheet \$m	Amounts not set off in the balance sheet			Net amount \$m	Amounts not subject to enforceable netting arrangements <sup>5</sup> \$m		
				Financial instruments \$m	Non-cash collateral \$m	Cash collateral \$m				
<b>Financial assets</b>										
Derivatives (Note 15)	1	368,057	(69,103)	298,954	(230,758)	(13,766)	(48,154)	6,276	8,772	307,226
Reverse repos, stock borrowing and similar agreements classified as:	2									
– trading assets		21,204	(461)	20,743	(709)	(20,030)	–	4	1,534	22,277
– non-trading assets		318,424	(115,678)	202,746	(13,936)	(188,646)	(73)	91	28,258	231,004
Loans and advances to customers	3	30,983	(10,882)	20,101	(17,031)	–	–	3,070	428	20,529
<b>At 31 Dec 2020</b>		<b>738,668</b>	<b>(196,124)</b>	<b>542,544</b>	<b>(262,434)</b>	<b>(222,442)</b>	<b>(48,227)</b>	<b>9,441</b>	<b>38,992</b>	<b>581,536</b>
Derivatives (Note 15)	1	277,261	(41,739)	235,522	(171,371)	(13,095)	(47,404)	3,652	7,473	242,995
Reverse repos, stock borrowing and similar agreements classified as:	2									
– trading assets		21,465	(280)	21,185	(1,553)	(19,630)	–	2	165	21,350
– non-trading assets		348,561	(134,772)	213,789	(28,826)	(184,495)	(189)	279	27,549	241,338
Loans and advances to customers	3	33,039	(10,128)	22,911	(18,893)	–	–	4,018	735	23,646
<b>At 31 Dec 2019</b>		<b>680,326</b>	<b>(186,919)</b>	<b>493,407</b>	<b>(220,643)</b>	<b>(217,220)</b>	<b>(47,593)</b>	<b>7,951</b>	<b>35,922</b>	<b>529,329</b>
<b>Financial liabilities</b>										
Derivatives (Note 15)	1	364,121	(69,103)	295,018	(230,758)	(21,387)	(37,343)	5,530	7,983	303,001
Repos, stock lending and similar agreements classified as:	2									
– trading liabilities		16,626	(461)	16,165	(709)	(15,456)	–	–	159	16,324
– non-trading liabilities		200,999	(115,678)	85,321	(13,936)	(71,142)	(215)	28	26,580	111,901
Customer accounts	4	41,177	(10,882)	30,295	(17,031)	–	–	13,264	13	30,308
<b>At 31 Dec 2020</b>		<b>622,923</b>	<b>(196,124)</b>	<b>426,799</b>	<b>(262,434)</b>	<b>(107,985)</b>	<b>(37,558)</b>	<b>18,822</b>	<b>34,735</b>	<b>461,534</b>
Derivatives (Note 15)	1	275,286	(41,739)	233,547	(171,371)	(20,137)	(37,844)	4,195	5,950	239,497
Repos, stock lending and similar agreements classified as:	2									
– trading liabilities		10,494	(280)	10,214	(1,553)	(8,656)	–	5	46	10,260
– non-trading liabilities		232,675	(134,772)	97,903	(28,826)	(68,638)	(357)	82	42,441	140,344
Customer accounts	4	36,750	(10,128)	26,622	(18,893)	–	–	7,729	31	26,653
<b>At 31 Dec 2019</b>		<b>555,205</b>	<b>(186,919)</b>	<b>368,286</b>	<b>(220,643)</b>	<b>(97,431)</b>	<b>(38,201)</b>	<b>12,011</b>	<b>48,468</b>	<b>416,754</b>

- At 31 December 2020, the amount of cash margin received that had been offset against the gross derivatives assets was \$7,899m (2019: \$2,350m). The amount of cash margin paid that had been offset against the gross derivatives liabilities was \$17,955m (2019: \$8,303m).
- For the amount of repos, reverse repos, stock lending, stock borrowing and similar agreements recognised on the balance sheet within 'Trading assets' \$22,277m (2019: \$21,350m) and 'Trading liabilities' \$16,324m (2019: \$10,260m), see the 'Funding sources and uses' table on page 220.
- At 31 December 2020, the total amount of 'Loans and advances to customers' was \$1,037,987m (2019: \$1,036,743m), of which \$20,101m (2019: \$22,911m) was subject to offsetting.
- At 31 December 2020, the total amount of 'Customer accounts' was \$1,642,780m (2019: \$1,439,115m), of which \$30,295m (2019: \$26,622m) was subject to offsetting.
- These exposures continue to be secured by financial collateral, but we may not have sought or been able to obtain a legal opinion evidencing enforceability of the right of offset.

## 31 Called up share capital and other equity instruments

### Called up share capital and share premium

#### HSBC Holdings ordinary shares of \$0.50 each, issued and fully paid

Footnotes	2020		2019	
	Number	\$m	Number	\$m
At 1 Jan	20,638,524,545	10,319	20,360,841,496	10,180
Shares issued under HSBC employee share plans	55,096,555	28	71,588,032	36
Shares issued in lieu of dividends	–	–	341,872,011	171
Less: Shares repurchased and cancelled	–	–	(135,776,994)	(68)
<b>At 31 Dec</b>	<b>20,693,621,100</b>	<b>10,347</b>	<b>20,638,524,545</b>	<b>10,319</b>

### HSBC Holdings 6.2% non-cumulative US dollar preference shares, Series A

	Footnotes	2020		2019	
		Number	\$m	Number	\$m
At 1 Jan and 31 Dec	2	1,450,000	–	1,450,000	–

### HSBC Holdings share premium

	2020	2019
	\$m	\$m
At 31 Dec	14,277	13,959

### Total called up share capital and share premium

	2020	2019
	\$m	\$m
At 31 Dec	24,624	24,278

- 1 All HSBC Holdings ordinary shares in issue, excluding 325,273,407 shares held in treasury, confer identical rights, including in respect of capital, dividends and voting.
- 2 In 2019 this security was included in the capital base of HSBC as additional tier 1 capital in accordance with the CRR II rules, by virtue of the application of grandfathering provisions. This security was called by HSBC Holdings on 10 December 2020 and was redeemed and cancelled on 13 January 2021. Between the date of exercise of the call option and the redemption, this security was considered as an other liability.

### HSBC Holdings 6.20% non-cumulative US dollar preference shares, Series A of \$0.01

The 6.20% non-cumulative US dollar preference shares, Series A of \$0.01 each were redeemed on 13 January 2021.

### HSBC Holdings non-cumulative preference share of £0.01

The one non-cumulative sterling preference share of £0.01 ('sterling preference share') has been in issue since 29 December 2010 and is held by a subsidiary of HSBC Holdings. Dividends are paid quarterly at the sole and absolute discretion of the Board. The sterling preference share carries no rights of conversion into ordinary shares of HSBC Holdings and no right to attend or vote at shareholder meetings of HSBC Holdings. These securities can be redeemed by HSBC Holdings at any time, subject to prior approval by the PRA.

### Other equity instruments

HSBC Holdings includes three types of additional tier 1 capital securities in its tier 1 capital. Two are presented in this Note and they are the HSBC Holdings non-cumulative preference shares outlined above and the contingent convertible securities described below. These are accounted for as equity because HSBC does not have an obligation to transfer cash or a variable number of its own ordinary shares to holders under any circumstances outside its control. See Note 28 for additional tier 1 securities accounted for as liabilities.

### Additional tier 1 capital – contingent convertible securities

HSBC Holdings continues to issue contingent convertible securities that are included in its capital base as fully CRR II-compliant additional tier 1 capital securities on an end point basis. These securities are marketed principally and subsequently allotted to corporate investors and fund managers. The net proceeds of the issuances are typically used for HSBC Holdings' general corporate purposes and to further strengthen its capital base to meet requirements under CRR II. These securities bear a fixed rate of interest until their initial call dates. After the initial call dates, if they are not redeemed, the securities will bear interest at rates fixed periodically in advance for five-year periods based on credit spreads, fixed at issuance, above prevailing market rates. Interest on the contingent convertible securities will be due and payable only at the sole discretion of HSBC Holdings, and HSBC Holdings has sole and absolute discretion at all times to cancel for any reason (in whole or part) any interest payment that would otherwise be payable on any payment date. Distributions will not be paid if they are prohibited under UK banking regulations or if the Group has insufficient reserves or fails to meet the solvency conditions defined in the securities' terms.

The contingent convertible securities are undated and are repayable at the option of HSBC Holdings in whole typically at the initial call date or on any fifth anniversary after this date. In addition, the securities are repayable at the option of HSBC in whole for certain regulatory or tax reasons. Any repayments require the prior consent of the PRA. These securities rank *pari passu* with HSBC Holdings' sterling preference shares and therefore rank ahead of ordinary shares. The contingent convertible securities will be converted into fully paid ordinary shares of HSBC Holdings at a predetermined price, should HSBC's consolidated non-transitional CET1 ratio fall below 7.0%. Therefore, in accordance with the terms of the securities, if the non-transitional CET1 ratio breaches the 7.0% trigger, the securities will convert into ordinary shares at fixed contractual conversion prices in the issuance currencies of the relevant securities, equivalent to £2.70 at the prevailing rate of exchange on the issuance date, subject to anti-dilution adjustments.

## Notes on the financial statements

### HSBC's additional tier 1 capital – contingent convertible securities in issue which are accounted for in equity

		Footnotes	First call date	2020 \$m	2019 \$m
\$1,500m	5.625% perpetual subordinated contingent convertible securities	1	Nov 2019	–	1,494
\$2,000m	6.875% perpetual subordinated contingent convertible securities		Jun 2021	2,000	1,998
\$2,250m	6.375% perpetual subordinated contingent convertible securities		Sep 2024	2,250	2,244
\$2,450m	6.375% perpetual subordinated contingent convertible securities		Mar 2025	2,450	2,460
\$3,000m	6.000% perpetual subordinated contingent convertible securities		May 2027	3,000	2,997
\$2,350m	6.250% perpetual subordinated contingent convertible securities		Mar 2023	2,350	2,347
\$1,800m	6.500% perpetual subordinated contingent convertible securities		Mar 2028	1,800	1,798
\$1,500m	4.600% perpetual subordinated contingent convertible securities	2	Jun 2031	1,500	–
€1,500m	5.250% perpetual subordinated contingent convertible securities		Sep 2022	1,945	1,943
€1,000m	6.000% perpetual subordinated contingent convertible securities		Sep 2023	1,123	1,120
€1,250m	4.750% perpetual subordinated contingent convertible securities		Jul 2029	1,422	1,420
£1,000m	5.875% perpetual subordinated contingent convertible securities		Sep 2026	1,301	1,299
SGD1,000m	4.700% perpetual subordinated contingent convertible securities		Jun 2022	723	723
SGD750m	5.000% perpetual subordinated contingent convertible securities		Sep 2023	550	549
<b>At 31 Dec</b>				<b>22,414</b>	<b>22,392</b>

1 This security was called by HSBC Holdings on 22 November 2019 and was redeemed and cancelled on 17 January 2020. Between the date of exercise of the call option and the redemption, this security was considered to be a subordinated liability. See Note 28.

2 This security was issued by HSBC Holdings on 17 December 2020. The first call date commences six calendar months prior to the reset date of 17 June 2031.

### Shares under option

For details of the options outstanding to subscribe for HSBC Holdings ordinary shares under the HSBC Holdings Savings-Related Share Option Plan (UK), see Note 5.

### Aggregate options outstanding under these plans

31 Dec 2020			31 Dec 2019		
Number of HSBC Holdings ordinary shares	Usual period of exercise	Exercise price	Number of HSBC Holdings ordinary shares	Usual period of exercise	Exercise price
130,952,539	2019 to 2026	£2.6270–£5.9640	65,060,681	2018 to 2025	£4.0472–£5.9640

### Maximum obligation to deliver HSBC Holdings ordinary shares

At 31 December 2020, the maximum obligation to deliver HSBC Holdings ordinary shares under all of the above option arrangements and the HSBC International Employee Share Purchase Plan, together with GPSP awards, long-term incentive awards and deferred share awards granted under the HSBC Share Plan 2011, was 238,278,952 (2019: 163,567,253). The total number of shares at 31 December 2020 held by employee benefit trusts that may be used to satisfy such obligations to deliver HSBC Holdings ordinary shares was 5,179,531 (2019: 5,397,395).

## 32 Contingent liabilities, contractual commitments and guarantees

	Footnotes	HSBC		HSBC Holdings <sup>1</sup>	
		2020 \$m	2019 \$m	2020 \$m	2019 \$m
Guarantees and other contingent liabilities:					
– financial guarantees		18,384	20,214	13,787	11,061
– performance and other guarantees		78,114	75,933	–	–
– other contingent liabilities		1,219	1,576	119	289
<b>At 31 Dec</b>		<b>97,717</b>	<b>97,723</b>	<b>13,906</b>	<b>11,350</b>
Commitments:	2				
– documentary credits and short-term trade-related transactions		7,178	6,316	–	–
– forward asset purchases and forward deposits placed		66,506	56,326	–	–
– standby facilities, credit lines and other commitments to lend		771,086	734,966	–	–
<b>At 31 Dec</b>		<b>844,770</b>	<b>797,608</b>	<b>–</b>	<b>–</b>

1 Guarantees by HSBC Holdings are all in favour of other Group entities.

2 Includes \$659,783m of commitments at 31 December 2020 (31 December 2019: \$600,029m), to which the impairment requirements in IFRS 9 are applied where HSBC has become party to an irrevocable commitment.

The preceding table discloses the nominal principal amounts of off-balance sheet liabilities and commitments for the Group, which represent the maximum amounts at risk should the contracts be fully drawn upon and the clients default. As a significant portion of guarantees and commitments are expected to expire without being drawn upon, the total of the nominal principal amounts is not indicative of future liquidity requirements. The expected credit loss provision relating to guarantees and commitments under IFRS 9 is disclosed in Note 27.

The majority of the guarantees have a term of less than one year, while guarantees with terms of more than one year are subject to HSBC's annual credit review process.

Contingent liabilities arising from legal proceedings, regulatory and other matters against Group companies are excluded from this note but are disclosed in Notes 27 and 34.

## Financial Services Compensation Scheme

The Financial Services Compensation Scheme ('FSCS') provides compensation, up to certain limits, to eligible customers of financial services firms that are unable, or likely to be unable, to pay claims against them. The FSCS may impose a further levy on the Group to the extent the industry levies imposed to date are not sufficient to cover the compensation due to customers in any future possible collapse. The ultimate FSCS levy to the industry as a result of a collapse cannot currently be estimated reliably. It is dependent on various uncertain factors including the potential recoveries of assets by the FSCS, changes in the level of protected products (including deposits and investments) and the population of FSCS members at the time.

## Associates

HSBC's share of associates' contingent liabilities, contractual commitments and guarantees amounted to \$53.1bn at 31 December 2020 (2019: \$46.7bn). No matters arose where HSBC was severally liable.

## 33 Finance lease receivables

HSBC leases a variety of assets to third parties under finance leases, including transport assets (such as aircraft), property and general plant and machinery. At the end of lease terms, assets may be sold to third parties or leased for further terms. Rentals are calculated to recover the cost of assets less their residual value, and earn finance income.

	2020			2019		
	Total future minimum payments \$m	Unearned finance income \$m	Present value \$m	Total future minimum payments \$m	Unearned finance income \$m	Present value \$m
<b>Lease receivables:</b>						
No later than one year	3,108	(257)	2,851	1,674	(157)	1,517
One to two years	2,476	(196)	2,280	1,634	(155)	1,479
Two to three years	2,055	(143)	1,912	1,889	(151)	1,738
Three to four years	1,380	(109)	1,271	1,704	(136)	1,568
Four to five years	787	(80)	707	1,558	(132)	1,426
<b>Later than one year and no later than five years</b>	<b>6,698</b>	<b>(528)</b>	<b>6,170</b>	<b>6,785</b>	<b>(574)</b>	<b>6,211</b>
Later than five years	4,221	(451)	3,770	6,136	(614)	5,522
<b>At 31 Dec</b>	<b>14,027</b>	<b>(1,236)</b>	<b>12,791</b>	<b>14,595</b>	<b>(1,345)</b>	<b>13,250</b>

## 34 Legal proceedings and regulatory matters

HSBC is party to legal proceedings and regulatory matters in a number of jurisdictions arising out of its normal business operations. Apart from the matters described below, HSBC considers that none of these matters are material. The recognition of provisions is determined in accordance with the accounting policies set out in Note 1. While the outcomes of legal proceedings and regulatory matters are inherently uncertain, management believes that, based on the information available to it, appropriate provisions have been made in respect of these matters as at 31 December 2020 (see Note 27). Where an individual provision is material, the fact that a provision has been made is stated and quantified, except to the extent that doing so would be seriously prejudicial. Any provision recognised does not constitute an admission of wrongdoing or legal liability. It is not practicable to provide an aggregate estimate of potential liability for our legal proceedings and regulatory matters as a class of contingent liabilities.

### Bernard L. Madoff Investment Securities LLC

Bernard L. Madoff ('Madoff') was arrested in December 2008 and later pleaded guilty to running a Ponzi scheme. His firm, Bernard L. Madoff Investment Securities LLC ('Madoff Securities'), is being liquidated in the US by a trustee (the 'Trustee').

Various non-US HSBC companies provided custodial, administration and similar services to a number of funds incorporated outside the US whose assets were invested with Madoff Securities. Based on information provided by Madoff Securities as at 30 November 2008, the purported aggregate value of these funds was \$8.4bn, including fictitious profits reported by Madoff.

Based on information available to HSBC, the funds' actual transfers to Madoff Securities minus their actual withdrawals from Madoff Securities during the time HSBC serviced the funds are estimated to have totalled approximately \$4bn. Various HSBC companies have been named as defendants in lawsuits arising out of Madoff Securities' fraud.

**US litigation:** The Trustee has brought lawsuits against various HSBC companies and others in the US Bankruptcy Court for the Southern District of New York (the 'US Bankruptcy Court'), seeking recovery of transfers from Madoff Securities to HSBC in an amount not yet pleaded or determined. HSBC and other parties to the actions have moved to dismiss the Trustee's claims. The US Bankruptcy Court granted HSBC's motion to dismiss with respect to certain of the Trustee's claims in November 2016. In February 2019, the US Court of Appeals for the Second Circuit (the 'Second Circuit Court of Appeals') reversed that dismissal. Following the US Supreme Court's denial of certiorari in June 2020, the cases were remanded to the US Bankruptcy Court, where they are now pending.

Fairfield Sentry Limited, Fairfield Sigma Limited and Fairfield Lambda Limited (together, 'Fairfield') (in liquidation since July 2009) have brought a lawsuit in the US against fund shareholders, including HSBC companies that acted as nominees for clients, seeking restitution of redemption payments. In December 2018, the US Bankruptcy Court issued an opinion, which ruled in favour of the defendants' motion to dismiss in respect of certain claims by the liquidators for Fairfield and granted a motion by the liquidators to file amended complaints. As a result of that opinion, all claims against one of the HSBC companies, and certain claims against the remaining HSBC defendants, were dismissed. In May 2019, the liquidators appealed certain issues from the US Bankruptcy Court to the US District Court for the Southern District of New York (the 'New York District Court') and, in January 2020, the liquidators filed amended complaints on the claims remaining in the US Bankruptcy Court. In March 2020, HSBC and other parties to the action moved to dismiss the amended complaints in the US Bankruptcy Court. In December 2020, the US Bankruptcy Court granted in part and denied in part the defendants' motion. This action remains pending in the US Bankruptcy Court and the New York District Court.

## Notes on the financial statements

**UK litigation:** The Trustee has filed a claim against various HSBC companies in the High Court of England and Wales, seeking recovery of transfers from Madoff Securities to HSBC in an amount not yet pleaded or determined. The deadline for service of the claim has been extended to September 2021 for UK-based defendants and November 2021 for all other defendants.

**Cayman Islands litigation:** In February 2013, Primeo Fund ('Primeo') (in liquidation since April 2009) brought an action against HSBC Securities Services Luxembourg ('HSSL') and Bank of Bermuda (Cayman) Limited (now known as HSBC Cayman Limited), alleging breach of contract and breach of fiduciary duty and claiming damages and equitable compensation. The trial concluded in February 2017 and, in August 2017, the court dismissed all claims against the defendants. In September 2017, Primeo appealed to the Court of Appeal of the Cayman Islands and, in June 2019, the Court of Appeal of the Cayman Islands dismissed Primeo's appeal. In August 2019, Primeo filed a notice of appeal to the UK Privy Council, which has listed the first of two possible hearings for April 2021.

**Luxembourg litigation:** In April 2009, Herald Fund SPC ('Herald') (in liquidation since July 2013) brought an action against HSSL before the Luxembourg District Court, seeking restitution of cash and securities that Herald purportedly lost because of Madoff Securities' fraud, or money damages. The Luxembourg District Court dismissed Herald's securities restitution claim, but reserved Herald's cash restitution claim and its claim for money damages. Herald has appealed this judgment to the Luxembourg Court of Appeal, where the matter is pending. In late 2018, Herald brought additional claims against HSSL and HSBC Bank plc before the Luxembourg District Court, seeking further restitution and damages.

In October 2009, Alpha Prime Fund Limited ('Alpha Prime') brought an action against HSSL before the Luxembourg District Court, seeking the restitution of securities, or the cash equivalent, or money damages. In December 2018, Alpha Prime brought additional claims before the Luxembourg District Court seeking damages against various HSBC companies. These matters are currently pending before the Luxembourg District Court.

In December 2014, Senator Fund SPC ('Senator') brought an action against HSSL before the Luxembourg District Court, seeking restitution of securities, or the cash equivalent, or money damages. In April 2015, Senator commenced a separate action against the Luxembourg branch of HSBC Bank plc asserting identical claims before the Luxembourg District Court. In December 2018, Senator brought additional claims against HSSL and HSBC Bank plc Luxembourg branch before the Luxembourg District Court, seeking restitution of Senator's securities or money damages. These matters are currently pending before the Luxembourg District Court.

**Ireland litigation:** In November 2013, Defender Limited brought an action against HSBC Institutional Trust Services (Ireland) Limited ('HTIE') and others, based on allegations of breach of contract and claiming damages and indemnification for fund losses. The trial commenced in October 2018. In December 2018, the Irish High Court issued a judgment in HTIE's favour on a preliminary issue, holding that Defender Limited had no effective claim against HTIE. This judgment concluded the trial without further issues in dispute being heard. In February 2019, Defender Limited appealed the decision. In July 2020, the Irish Supreme Court ruled in part in favour of Defender Limited and returned the case to the High Court for further proceedings, which will resume in April 2021.

There are many factors that may affect the range of possible outcomes, and any resulting financial impact, of the various Madoff-related proceedings described above, including but not limited to the multiple jurisdictions in which the proceedings have been brought. Based upon the information currently available, management's estimate of the possible aggregate damages that might arise as a result of all claims in the various Madoff-related proceedings is up to or exceeding \$500m, excluding costs and interest. Due to uncertainties and limitations of this estimate, any possible damages that might ultimately arise could differ significantly from this amount.

### Anti-money laundering and sanctions-related matters

In December 2012, HSBC Holdings entered into a number of agreements, including an undertaking with the UK Financial Services Authority (replaced with a Direction issued by the UK Financial Conduct Authority ('FCA') in 2013 and again in 2020) as well as a cease-and-desist order with the US Federal Reserve Board ('FRB'), both of which contained certain forward-looking anti-money laundering ('AML') and sanctions-related obligations. HSBC also agreed to retain an independent compliance monitor (who was, for FCA purposes, a 'Skilled Person' under section 166 of the Financial Services and Markets Act and, for FRB purposes, an 'Independent Consultant') to produce periodic assessments of the Group's AML and sanctions compliance programme. In 2020, HSBC's engagement with the independent compliance monitor, acting in his roles as both Skilled Person and Independent Consultant, concluded. The role of FCA Skilled Person was assigned to a new individual in the second quarter of 2020. Separately, a new FRB Independent Consultant will be appointed pursuant to the cease-and-desist order. The roles of each of the FCA Skilled Person and the FRB Independent Consultant are discussed on page 230.

The FCA is conducting an investigation into HSBC Bank plc's and HSBC UK Bank plc's compliance with UK money laundering regulations and financial crime systems and controls requirements. HSBC continues to cooperate with the FCA's investigation, which is at or nearing completion.

In May 2014, a shareholder derivative action was filed by a shareholder of HSBC Holdings purportedly on behalf of HSBC Holdings, HSBC Bank USA N.A. ('HSBC Bank USA'), HSBC North America Holdings Inc. and HSBC USA Inc. (the 'Nominal Corporate Defendants') in New York state court against certain current and former directors and officers of the Nominal Corporate Defendants (the 'Individual Defendants'). The complaint alleges that the Individual Defendants breached their fiduciary duties to the Nominal Corporate Defendants and caused a waste of corporate assets by allegedly permitting and/or causing the conduct underlying the five-year deferred prosecution agreement with the US Department of Justice ('DoJ'), entered into in December 2012. In November 2015, the New York state court granted the Nominal Corporate Defendants' motion to dismiss, but the appellate court reversed the decision in November 2018 and reinstated the action. In June 2020, the parties reached an agreement to resolve this derivative action, under which HSBC has received a payment from directors and officers liability insurance providers and will continue for a period of time certain corporate governance practices. In November 2020, the court issued an order granting final settlement approval and dismissing the action. This matter is now concluded.

Since November 2014, a number of lawsuits have been filed in federal courts in the US against various HSBC companies and others on behalf of plaintiffs who are, or are related to, victims of terrorist attacks in the Middle East or of cartel violence in Mexico. In each case, it is alleged that the defendants aided and abetted the unlawful conduct of various sanctioned parties in violation of the US Anti-Terrorism Act. Currently, 10 actions remain pending in federal courts in New York or the District of Columbia. In March, September and October 2019, the courts granted HSBC's motions to dismiss in three of these cases. In October 2020, the appellate court affirmed the dismissal of one of the actions on appeal. An appeal remains pending in another case, and plaintiffs are seeking certification to appeal in the third case. HSBC filed motions to dismiss in three further cases, with two of the motions granted in June 2020, and the third granted in November 2020. These dismissals are subject to appeal. The four remaining actions are at a very early stage.

There are many factors that may affect the range of outcomes, and the resulting financial impact, of these matters, which could be significant.



## London interbank offered rates, European interbank offered rates and other benchmark interest rate investigations and litigation

**Euro interest rate derivatives:** In December 2016, the European Commission (the 'EC') issued a decision finding that HSBC, among other banks, engaged in anti-competitive practices in connection with the pricing of euro interest rate derivatives in early 2007. The EC imposed a fine on HSBC based on a one-month infringement. HSBC appealed the decision and, in September 2019, the General Court of the European Union (the 'General Court') issued a decision largely upholding the EC's findings on liability but annulling the fine. HSBC and the EC have both appealed the General Court's decision to the European Court of Justice.

**US dollar Libor:** Beginning in 2011, HSBC and other panel banks have been named as defendants in a number of private lawsuits filed in the US with respect to the setting of US dollar Libor. The complaints assert claims under various US laws, including US antitrust and racketeering laws, the US Commodity Exchange Act ('US CEA') and state law. The lawsuits include individual and putative class actions, most of which have been transferred and/or consolidated for pre-trial purposes before the New York District Court.

In 2017 and 2018, HSBC reached agreements with plaintiffs to resolve putative class actions brought on behalf of the following five groups of plaintiffs: persons who purchased US dollar Libor-indexed bonds; persons who purchased US dollar Libor-indexed exchange-traded instruments; US-based lending institutions that made or purchased US dollar Libor-indexed loans; persons who purchased US dollar Libor-indexed interest rate swaps and other instruments directly from the defendant banks and their affiliates; and persons who purchased US dollar Libor-indexed interest rate swaps and other instruments from certain financial institutions that are not the defendant banks or their affiliates. The New York District Court has granted final approval of each of the five referenced settlements. Additionally, a number of other US dollar Libor-related actions remain pending against HSBC in the New York District Court and the Second Circuit Court of Appeals.

**Intercontinental Exchange ('ICE') Libor:** Between January and March 2019, HSBC and other panel banks were named as defendants in three putative class actions filed in the New York District Court on behalf of persons and entities who purchased instruments paying interest indexed to US dollar ICE Libor from a panel bank. The complaints allege, among other things, misconduct related to the suppression of this benchmark rate in violation of US antitrust and state law. In July 2019, the three putative class actions were consolidated, and the plaintiffs filed a consolidated amended complaint. In March 2020, the court granted the defendants' joint motion to dismiss in its entirety. This matter is on appeal.

**Singapore interbank offered rate ('Sibor'), Singapore swap offer rate ('SOR') and Australia bank bill swap rate ('BBSW'):** In July and August 2016, HSBC and other panel banks were named as defendants in two putative class actions filed in the New York District Court on behalf of persons who transacted in products related to the Sibor, SOR and BBSW benchmark rates. The complaints allege, among other things, misconduct related to these benchmark rates in violation of US antitrust, commodities and racketeering laws, and state law.

In the Sibor/SOR litigation, following a decision on the defendants' motion to dismiss in October 2018, the claims against a number of HSBC entities were dismissed, and The Hongkong and Shanghai Banking Corporation Limited ('HBAP') remained as the only HSBC defendant in this action. In October 2018, HBAP filed a motion for reconsideration of the decision based on the issue of personal jurisdiction. This motion was denied in April 2019. Also in October 2018, the plaintiffs filed a third amended complaint naming only the Sibor panel members, including HBAP, as defendants. The court dismissed the third amended complaint in its entirety in July 2019 against all defendants. In August 2019, the plaintiffs filed an appeal to the Second Circuit Court of Appeals, which remains pending.

In the BBSW litigation, in November 2018, the court dismissed all foreign defendants, including all the HSBC entities, on personal jurisdiction grounds. In April 2019, the plaintiffs filed an amended complaint, which the defendants moved to dismiss. In February 2020, the court again dismissed the plaintiffs' amended complaint against all the HSBC entities.

There are many factors that may affect the range of outcomes, and the resulting financial impact, of these matters, which could be significant.

## Foreign exchange-related investigations and litigation

Since at least 2014, the EC has been conducting an investigation into trading activities by a number of banks, including HSBC, in the foreign exchange spot market. HSBC is cooperating with this investigation.

In January 2021, HSBC Holdings exited its three-year deferred prosecution agreement with the Criminal Division of the DoJ (the 'FX DPA'), regarding fraudulent conduct in connection with two particular transactions in 2010 and 2011. HSBC Holdings entered into the FX DPA in January 2018, following the conclusion of the DoJ's investigation into HSBC's historical foreign exchange activities. Under the terms of the FX DPA, the DoJ is expected to file a motion to dismiss the charges deferred by the FX DPA in due course.

In December 2016, Brazil's Administrative Council of Economic Defense initiated an investigation into the onshore foreign exchange market and identified a number of banks, including HSBC, as subjects of its investigation.

In June 2020, the Competition Commission of South Africa, having initially referred a complaint for proceedings before the South African Competition Tribunal in February 2017, filed a revised complaint against 28 financial institutions, including HSBC Bank plc and HSBC Bank USA, for alleged anti-competitive behaviour in the South African foreign exchange market. In August 2020, HSBC Bank plc and HSBC Bank USA filed an application to dismiss the revised complaint, which remains pending.

In late 2013 and early 2014, various HSBC companies and other banks were named as defendants in various putative class actions consolidated in the New York District Court. The consolidated complaint alleged, among other things, that the defendants conspired to manipulate the WM/Reuters foreign exchange benchmark rates. In September 2015, HSBC reached an agreement with the plaintiffs to resolve the consolidated action, and the court granted final approval of the settlement in August 2018.

A putative class action complaint making similar allegations on behalf of retail customers of foreign exchange products was filed in the US District Court for the Northern District of California in 2015, and was subsequently transferred to the New York District Court where it remains pending. In 2017, putative class action complaints making similar allegations on behalf of purported indirect purchasers of foreign exchange products were filed in New York and were subsequently consolidated in the New York District Court. In April 2020, HSBC reached an agreement with the plaintiffs to resolve the indirect purchaser action. In November 2020, the New York District Court granted final approval of the settlement.

In September 2018, various HSBC companies and other banks were named as defendants in two motions for certification of class actions filed in Israel alleging foreign exchange-related misconduct. In July 2019, the Tel Aviv Court allowed the plaintiffs to consolidate their claims and, in September 2019, the plaintiffs filed a motion for certification of the consolidated class action. In August 2020, HSBC

## Notes on the financial statements

Bank plc filed a motion to dismiss and, in January 2021, HSBC Holdings filed a motion seeking to challenge the service of the motion for certification on defendants outside Israel. These motions remain pending.

In November and December 2018, complaints alleging foreign exchange-related misconduct were filed in the New York District Court and the High Court of England and Wales against HSBC and other defendants by certain plaintiffs that opted out of the US class action settlement. In May 2020, the New York District Court granted in part and denied in part the defendants' motion to dismiss the US opt-out actions. These matters remain at an early stage. It is possible that additional civil actions will be initiated against HSBC in relation to its historical foreign exchange activities.

There are many factors that may affect the range of outcomes, and the resulting financial impact, of these matters, which could be significant.

### Precious metals fix-related litigation

**Gold:** Beginning in March 2014, numerous putative class actions were filed in the New York District Court and the US District Courts for the District of New Jersey and the Northern District of California, naming HSBC and other members of The London Gold Market Fixing Limited as defendants. The complaints allege that, from January 2004 to June 2013, the defendants conspired to manipulate the price of gold and gold derivatives for their collective benefit in violation of US antitrust laws, the US CEA and New York state law. The actions were consolidated in the New York District Court. The defendants' motion to dismiss the consolidated action was granted in part and denied in part in October 2016. In June 2017, the court granted the plaintiffs leave to file a third amended complaint, naming a new defendant. In October 2020, HSBC reached a settlement in principle with the plaintiffs to resolve the consolidated action. The settlement remains subject to court approval.

Beginning in December 2015, numerous putative class actions under Canadian law were filed in the Ontario and Quebec Superior Courts of Justice against various HSBC companies and other financial institutions. The plaintiffs allege that, among other things, from January 2004 to March 2014, the defendants conspired to manipulate the price of gold and gold derivatives in violation of the Canadian Competition Act and common law. These actions are ongoing.

**Silver:** Beginning in July 2014, numerous putative class actions were filed in federal district courts in New York, naming HSBC and other members of The London Silver Market Fixing Limited as defendants. The complaints allege that, from January 2007 to December 2013, the defendants conspired to manipulate the price of silver and silver derivatives for their collective benefit in violation of US antitrust laws, the US CEA and New York state law. The actions were consolidated in the New York District Court. The defendants' motion to dismiss the consolidated action was granted in part and denied in part in October 2016. In June 2017, the court granted the plaintiffs leave to file a third amended complaint, which names several new defendants. The court has denied the pre-existing defendants' request for leave to file a joint motion to dismiss, and discovery is proceeding.

In April 2016, two putative class actions under Canadian law were filed in the Ontario and Quebec Superior Courts of Justice against various HSBC companies and other financial institutions. The plaintiffs in both actions allege that, from January 1999 to August 2014, the defendants conspired to manipulate the price of silver and silver derivatives in violation of the Canadian Competition Act and common law. These actions are ongoing.

**Platinum and palladium:** Between late 2014 and early 2015, numerous putative class actions were filed in the New York District Court, naming HSBC and other members of The London Platinum and Palladium Fixing Company Limited as defendants. The complaints allege that, from January 2008 to November 2014, the defendants conspired to manipulate the price of platinum group metals ('PGM') and PGM-based financial products for their collective benefit in violation of US antitrust laws and the US CEA. In March 2017, the defendants' motion to dismiss the second amended consolidated complaint was granted in part and denied in part. In June 2017, the plaintiffs filed a third amended complaint. In March 2020, the court granted the defendants' motion to dismiss the third amended complaint but granted the plaintiffs leave to re-plead certain claims. The plaintiffs have filed an appeal.

Based on the facts currently known, it is not practicable at this time for HSBC to predict the resolution of these matters, including the timing or any possible impact on HSBC, which could be significant.

### Film finance litigation

In July and November 2015, two actions were brought by individuals against HSBC Private Bank (UK) Limited ('PBGB') in the High Court of England and Wales seeking damages on various alleged grounds, including breach of duty to the claimants, in connection with their participation in certain Ingenious film finance schemes. These actions are ongoing.

In December 2018, a separate action was brought against PBGB in the High Court of England and Wales by multiple claimants seeking damages for alleged unlawful means conspiracy and dishonest assistance in connection with lending provided by PBGB to third parties in respect of certain Ingenious film finance schemes in which the claimants participated. In June 2019, a similar claim was issued against PBGB in the High Court of England and Wales by additional claimants. These actions are ongoing.

In June 2020, two separate claims were issued against HSBC UK Bank plc (as successor to PBGB's business) by two separate groups of investors in Eclipse film finance schemes in connection with PBGB's role in the development of such schemes. These matters are at an early stage.

In February 2020, a claim was issued against HSBC UK Bank plc (as successor to PBGB's business) by two individuals in relation to the Zeus film finance schemes. The claimants failed to serve the claim on time, and this claim has now lapsed. Separately, in June 2020, HSBC UK Bank plc received an application for disclosure of documents by a law firm acting on behalf of a number of investors in the Zeus film finance schemes. This application was dismissed by the court in November 2020.

It is possible that additional actions or investigations will be initiated against HSBC UK Bank plc as a result of PBGB's historical involvement in the provision of certain film finance-related services.

Based on the facts currently known, it is not practicable to predict the resolution of these matters, including the timing or any possible impact on HSBC, which could be significant.

## Other regulatory investigations, reviews and litigation

HSBC Holdings and/or certain of its affiliates are subject to a number of other investigations and reviews by various regulators and competition and law enforcement authorities, as well as litigation, in connection with various matters relating to the firm's businesses and operations, including:

- investigations by tax administration, regulatory and law enforcement authorities in Argentina, India and elsewhere in connection with allegations of tax evasion or tax fraud, money laundering and unlawful cross-border banking solicitation;
- an investigation by the US Commodity Futures Trading Commission regarding interest rate swap transactions related to bond issuances;
- an investigation by the FCA in connection with collections and recoveries operations in the UK;
- an information request from the UK Competition and Markets Authority concerning the financial services sector;
- a putative class action brought in the New York District Court relating to the Mexican government bond market;
- two group actions pending in the US courts and a claim issued in the High Court of England and Wales in connection with HSBC Bank plc's role as a correspondent bank to Stanford International Bank Ltd from 2003 to 2009; and
- litigation brought against various HSBC companies in the US courts relating to residential mortgage-backed securities, based primarily on (a) claims brought against HSBC Bank USA in connection with its role as trustee on behalf of various securitisation trusts; and (b) claims against several HSBC companies seeking that the defendants repurchase various mortgage loans.

There are many factors that may affect the range of outcomes, and the resulting financial impact, of these matters, which could be significant.

## 35 Related party transactions

Related parties of the Group and HSBC Holdings include subsidiaries, associates, joint ventures, post-employment benefit plans for HSBC employees, Key Management Personnel ('KMP') as defined by IAS 24, close family members of KMP and entities that are controlled or jointly controlled by KMP or their close family members. KMP are defined as those persons having authority and responsibility for planning, directing and controlling the activities of HSBC Holdings. These individuals also constitute 'senior management' for the purposes of the Hong Kong Listing Rules. In applying IAS 24, it was determined that for this financial reporting period all KMP included Directors, former Directors and senior management listed on pages 240 to 245 and that the roles of Chief Legal Officer, Group Head of Audit, Group Chief Human Resources Officer, Group Chief Compliance Officer, Group Company Secretary and Chief Governance Officer did not meet the criteria for KMP as provided for in the standard.

Particulars of transactions with related parties are tabulated below. The disclosure of the year-end balance and the highest amounts outstanding during the year is considered to be the most meaningful information to represent the amount of the transactions and outstanding balances during the year.

### Key Management Personnel

Details of Directors' remuneration and interest in shares are disclosed in the 'Directors' remuneration report' on pages 271 to 298. IAS 24 'Related party disclosures' requires the following additional information for key management compensation.

#### Compensation of Key Management Personnel

	2020	2019	2018
	\$m	\$m	\$m
Short-term employee benefits	39	64	52
Other long-term employee benefits	5	8	6
Share-based payments	20	27	34
<b>Year ended 31 Dec</b>	<b>64</b>	<b>99</b>	<b>92</b>

#### Shareholdings, options and other securities of Key Management Personnel

	2020	2019
	(000s)	(000s)
Number of options held over HSBC Holdings ordinary shares under employee share plans	27	18
Number of HSBC Holdings ordinary shares held beneficially and non-beneficially	11,916	15,546
<b>At 31 Dec</b>	<b>11,943</b>	<b>15,564</b>

#### Advances and credits, guarantees and deposit balances during the year with Key Management Personnel

	Footnotes	2020		2019	
		Balance at 31 Dec	Highest amounts outstanding during year	Balance at 31 Dec	Highest amounts outstanding during year
		\$m	\$m	\$m	\$m
<b>Key Management Personnel</b>					
Advances and credits	1	221	357	283	328
Guarantees		30	55	34	34
Deposits		281	874	268	659

1 Advances and credits entered into by subsidiaries of HSBC Holdings plc during 2020 with Directors and former Directors, disclosed pursuant to section 413 of the Companies Act 2006, totalled \$4.7m (2019: \$3m).

## Notes on the financial statements

Some of the transactions were connected transactions as defined by the Rules Governing The Listing of Securities on The Stock Exchange of Hong Kong Limited, but were exempt from any disclosure requirements under the provisions of those rules. The above transactions were made in the ordinary course of business and on substantially the same terms, including interest rates and security, as for comparable transactions with persons of a similar standing or, where applicable, with other employees. The transactions did not involve more than the normal risk of repayment or present other unfavourable features.

### Associates and joint ventures

The Group provides certain banking and financial services to associates and joint ventures including loans, overdrafts, interest and non-interest bearing deposits and current accounts. Details of the interests in associates and joint ventures are given in Note 18.

#### Transactions and balances during the year with associates and joint ventures

	2020		2019	
	Highest balance during the year	Balance at 31 Dec	Highest balance during the year	Balance at 31 Dec
	\$m	\$m	\$m	\$m
Unsubordinated amounts due from joint ventures	147	147	132	123
Unsubordinated amounts due from associates	4,330	2,942	4,554	2,054
Amounts due to associates	5,466	2,226	2,517	516
Amounts due to joint ventures	102	102	28	28
Guarantees and commitments	433	283	647	407

The above outstanding balances arose in the ordinary course of business and on substantially the same terms, including interest rates and security, as for comparable transactions with third-party counterparties.

### Post-employment benefit plans

At 31 December 2020, \$3.5bn (2019: \$3.9bn re-presented) of HSBC post-employment benefit plan assets were under management by HSBC companies, earning management fees of \$13m in 2020 (2019: \$8m). The 2019 plan assets under management by HSBC companies have been re-presented to exclude \$1.5bn of assets identified to be managed by third parties. At 31 December 2020, HSBC's post-employment benefit plans had placed deposits of \$452m (2019: \$530m) with its banking subsidiaries, earning interest payable to the schemes of nil (2019: \$0.3m). The above outstanding balances arose from the ordinary course of business and on substantially the same terms, including interest rates and security, as for comparable transactions with third-party counterparties.

The combined HSBC Bank (UK) Pension Scheme enters into swap transactions with HSBC to manage inflation and interest rate sensitivity of its liabilities and selected assets. At 31 December 2020, the gross notional value of the swaps was \$7.7bn (2019: \$9.9bn); these swaps had a positive fair value to the scheme of \$1.0bn (2019: \$1.2bn); and HSBC had delivered collateral of \$1.0bn (2019: \$1.2bn) to the scheme in respect of these arrangements. All swaps were executed at prevailing market rates and within standard market bid/offer spreads.

### HSBC Holdings

Details of HSBC Holdings' subsidiaries are shown in Note 37.

#### Transactions and balances during the year with subsidiaries

	2020		2019	
	Highest balance during the year	Balance at 31 Dec	Highest balance during the year	Balance at 31 Dec
	\$m	\$m	\$m	\$m
<b>Assets</b>				
Cash and balances with HSBC undertakings	5,476	2,913	5,029	2,382
Financial assets with HSBC undertakings designated and otherwise mandatorily measured at fair value	65,253	65,253	61,964	61,964
Derivatives	5,784	4,698	3,902	2,002
Loans and advances to HSBC undertakings	10,785	10,443	43,436	10,218
Prepayments, accrued income and other assets	1,838	1,363	655	480
Investments in subsidiaries	161,546	160,660	163,258	161,473
<b>Total related party assets at 31 Dec</b>	<b>250,682</b>	<b>245,330</b>	<b>278,244</b>	<b>238,519</b>
<b>Liabilities</b>				
Amounts owed to HSBC undertakings	581	330	1,553	464
Derivatives	3,376	3,060	2,183	2,021
Accruals, deferred income and other liabilities	2,737	1,936	—	—
Subordinated liabilities	892	892	892	892
<b>Total related party liabilities at 31 Dec</b>	<b>7,586</b>	<b>6,218</b>	<b>4,628</b>	<b>3,377</b>
Guarantees and commitments	15,661	13,787	11,541	11,061

The above outstanding balances arose in the ordinary course of business and on substantially the same terms, including interest rates and security, as for comparable transactions with third-party counterparties.

Some employees of HSBC Holdings are members of the HSBC Bank (UK) Pension Scheme, which is sponsored by a separate Group company. HSBC Holdings incurs a charge for these employees equal to the contributions paid into the scheme on their behalf. Disclosure in relation to the scheme is made in Note 5.

## **36 Events after the balance sheet date**

---

An interim dividend for 2020 of \$0.15 per ordinary share (a distribution of approximately \$3,055m) was declared by the Directors after 31 December 2020. HSBC Holdings called \$1,450m 6.20% non-cumulative US dollar preference shares on 10 December 2020. The security was redeemed and cancelled on 13 January 2021. These accounts were approved by the Board of Directors on 23 February 2021 and authorised for issue.

## **37 HSBC Holdings' subsidiaries, joint ventures and associates**

---

In accordance with section 409 of the Companies Act 2006 a list of HSBC Holdings plc subsidiaries, joint ventures and associates, the registered office addresses and the effective percentages of equity owned at 31 December 2020 are disclosed below.

Unless otherwise stated, the share capital comprises ordinary or common shares that are held by Group subsidiaries. The ownership percentage is provided for each undertaking. The undertakings below are consolidated by HSBC unless otherwise indicated.

## Notes on the financial statements

### Subsidiaries

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)	Footnotes
452 TALF Plus ABS Opportunities SPV LLC	100.00	13
452 TALF SPV LLC	100.00	13
Almacenadora Banpacifico S.A. (In Liquidation)	99.99	14
Assetfinance December (F) Limited	100.00	15
Assetfinance December (H) Limited	100.00	16
Assetfinance December (M) Limited (In Liquidation)	100.00	17
Assetfinance December (P) Limited	100.00	16
Assetfinance December (R) Limited	100.00	16
Assetfinance June (A) Limited	100.00	16
Assetfinance June (D) Limited	100.00	15
Assetfinance Limited	100.00	16
Assetfinance March (B) Limited	100.00	18
Assetfinance March (D) Limited	100.00	15
Assetfinance March (F) Limited	100.00	16
Assetfinance September (F) Limited	100.00	16
Assetfinance September (G) Limited	100.00	15
B&Q Financial Services Limited	100.00	16
Banco HSBC S.A.	100.00	19
Banco Nominees (Guernsey) Limited	100.00	20
Banco Nominees 2 (Guernsey) Limited	100.00	20
Banco Nominees Limited	100.00	21
Beau Soleil Limited Partnership	N/A	0, 22
Beijing Miyun HSBC Rural Bank Company Limited	100.00	10, 23
Billingsgate Nominees Limited (In Liquidation)	100.00	24
Canada Crescent Nominees (UK) Limited	100.00	16
Canada Square Nominees (UK) Limited	100.00	16
Capco/Cove, Inc.	100.00	25
Card-Flo #1, Inc.	100.00	13
Card-Flo #3, Inc.	100.00	13
CCBH Holdings LLC	100.00	26
CCF HOLDING (LIBAN) S.A.L. (In Liquidation)	74.99	27
Charterhouse Administrators ( D.T.) Limited	100.00 (99.99)	16
Charterhouse Management Services Limited	100.00 (99.99)	16
Charterhouse Pensions Limited	100.00	16
Chongqing Dazu HSBC Rural Bank Company Limited	100.00	10, 28
Chongqing Fengdu HSBC Rural Bank Company Limited	100.00	10, 29
Chongqing Rongchang HSBC Rural Bank Company Limited	100.00	10, 30
COIF Nominees Limited	N/A	0, 16
Cordico Management AG (In Liquidation)	100.00	31
Corsair IV Financial Services Capital Partners-B, LP	N/A	0, 185
Dalian Pulandian HSBC Rural Bank Company Limited	100.00	10, 32
Decision One Mortgage Company, LLC	N/A	0, 33
Dem 9	100.00 (99.99)	4, 34
Dempar 1	100.00 (99.99)	4, 34
Desarrollo Turistico, S.A. de C.V. (In Liquidation)	100.00 (99.99)	14
Electronic Data Process México, S.A. de C.V.	100.00	14
Equator Holdings Limited (In Liquidation)	100.00	17
Eton Corporate Services Limited	100.00	20
Far East Leasing SA (In Dissolution)	100.00	35
Flandres Contentieux S.A.	100.00 (99.99)	34
Foncière Elysées	100.00 (99.99)	34
Fujian Yongan HSBC Rural Bank Company Limited	100.00	10, 36
Fulcher Enterprises Company Limited	100.00 (62.14)	37
Fundacion HSBC, A.C.	100.00 (99.99)	9, 14
Giller Ltd.	100.00	25
GPIF Co-Investment, LLC	N/A	0, 13

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)	Footnotes
Griffin International Limited	100.00	16
Grundstuecksgesellschaft Trinkausstrasse Kommanditgesellschaft	N/A	0, 38
Grupo Financiero HSBC, S. A. de C. V.	99.99	14
Guangdong Enping HSBC Rural Bank Company Limited	100.00	10, 39
Guangzhou HSBC Real Estate Company Ltd	100.00	40
Hang Seng (Nominee) Limited	100.00 (62.14)	37
Hang Seng Bank (China) Limited	100.00 (62.14)	41
Hang Seng Bank (Trustee) Limited	100.00 (62.14)	37
Hang Seng Bank Limited	62.14	37
Hang Seng Bullion Company Limited	100.00 (62.14)	37
Hang Seng Credit Limited	100.00 (62.14)	37
Hang Seng Data Services Limited	100.00 (62.14)	37
Hang Seng Finance Limited	100.00 (62.14)	37
Hang Seng Financial Information Limited	100.00 (62.14)	37
Hang Seng Indexes (Netherlands) B.V.	100.00 (62.14)	42
Hang Seng Indexes Company Limited	100.00 (62.14)	37
Hang Seng Insurance Company Limited	100.00 (62.14)	37
Hang Seng Investment Management Limited	100.00 (62.14)	37
Hang Seng Investment Services Limited	100.00 (62.14)	37
Hang Seng Life Limited	100.00 (62.14)	37
Hang Seng Real Estate Management Limited	100.00 (62.14)	37
Hang Seng Securities Limited	100.00 (62.14)	37
Hang Seng Security Management Limited	100.00 (62.14)	37
Haseba Investment Company Limited	100.00 (62.14)	37
HFC Bank Limited (In Liquidation)	100.00	17
High Time Investments Limited	100.00 (62.14)	37
Honey Green Enterprises Ltd.	100.00	43
Honey Grey Enterprises Limited	100.00	44
Honey Silver Enterprises Limited	100.00	44
Household International Europe Limited (In Liquidation)	100.00	17
Household Pooling Corporation	100.00	45
Housing (USA) LLP	N/A	
HSBC (BGF) Investments Limited	100.00	16
HSBC (General Partner) Limited	100.00	2, 47
HSBC (Guernsey) GP PCC Limited	100.00	20
HSBC (Kuala Lumpur) Nominees Sdn Bhd	100.00	48
HSBC (Malaysia) Trustee Berhad	100.00	49
HSBC (Singapore) Nominees Pte Ltd	100.00	50
HSBC Agency (India) Private Limited	100.00	51
HSBC Alternative Credit Strategies General Partner S.a r.l.	N/A	0, 52
HSBC Alternative Investments Limited	100.00	16
HSBC Amanah Malaysia Berhad	100.00	48
HSBC Americas Corporation (Delaware)	100.00	13
HSBC Argentina Holdings S.A.	100.00	53
HSBC Asia Holdings B.V.	100.00	16
HSBC Asia Holdings Limited	100.00	2, 44
HSBC Asia Pacific Holdings (UK) Limited	100.00	16
HSBC Asset Finance (UK) Limited	100.00	16
HSBC Asset Finance M.O.G. Holdings (UK) Limited	100.00	16
HSBC Asset Management (India) Private Limited	100.00	54
HSBC Assurances Vie (France)	100.00 (99.99)	55
HSBC Australia Holdings Pty Limited	100.00	56
HSBC BANK (CHILE)	100.00	57
HSBC Bank (China) Company Limited	100.00	10, 58
HSBC Bank (General Partner) Limited	100.00	47
HSBC Bank (Mauritius) Limited	100.00	59
HSBC Bank (RR) (Limited Liability Company)	N/A	0, 11, 60
HSBC Bank (Singapore) Limited	100.00	50
HSBC Bank (Taiwan) Limited	100.00	61
HSBC Bank (Uruguay) S.A.	100.00	62
HSBC Bank (Vietnam) Ltd.	100.00	63
HSBC Bank A.S.	100.00	64

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
HSBC Bank Argentina S.A.	100.00		53
HSBC Bank Armenia cjsc	100.00		65
HSBC Bank Australia Limited	100.00		56
HSBC Bank Bermuda Limited	100.00		21
HSBC Bank Canada	100.00		66
HSBC Bank Capital Funding (Sterling 1) LP	N/A		0, 47
HSBC Bank Capital Funding (Sterling 2) LP	N/A		0, 47
HSBC Bank Egypt S.A.E	99.63	(94.54)	67
HSBC Bank Malaysia Berhad	100.00		48
HSBC Bank Malta p.l.c.	70.03		68
HSBC Bank Middle East Limited	100.00		5, 69
HSBC Bank Middle East Limited Representative Office Morocco SARL (In Liquidation)	100.00		70
HSBC Bank Oman S.A.O.G.	51.00		71
HSBC Bank Pension Trust (UK) Limited	100.00		16
HSBC Bank plc	100.00		16
HSBC Bank USA, National Association	100.00		3, 72
HSBC Branch Nominee (UK) Limited	100.00		15
HSBC Brasil Holding S.A.	100.00		19
HSBC Broking Forex (Asia) Limited	100.00		44
HSBC Broking Futures (Asia) Limited	100.00		44
HSBC Broking Futures (Hong Kong) Limited	100.00		44
HSBC Broking Securities (Asia) Limited	100.00		44
HSBC Broking Securities (Hong Kong) Limited	100.00		44
HSBC Broking Services (Asia) Limited	100.00		44
HSBC Canadian Covered Bond (Legislative) Guarantor Limited Partnership	N/A		0, 73
HSBC Capital (USA), Inc.	100.00		13
HSBC Capital Funding (Dollar 1) L.P.	N/A		0, 47
HSBC Capital Limited	100.00		44
HSBC Card Services Inc.	100.00		13
HSBC Casa de Bolsa, S.A. de C.V., Grupo Financiero HSBC	100.00	(99.99)	14
HSBC Cayman Limited	100.00		74
HSBC Cayman Services Limited	100.00		74
HSBC City Funding Holdings	100.00		16
HSBC Client Holdings Nominee (UK) Limited	100.00		16
HSBC Client Nominee (Jersey) Limited	100.00		75
HSBC Columbia Funding, LLC	N/A		0, 13
HSBC Continental Europe	99.99		34
HSBC Corporate Advisory (Malaysia) Sdn Bhd	100.00		48
HSBC Corporate Finance (Hong Kong) Limited	100.00		44
HSBC Corporate Trustee Company (UK) Limited	100.00		16
HSBC Custody Nominees (Australia) Limited	100.00		56
HSBC Custody Services (Guernsey) Limited	100.00		20
HSBC Daisy Investments (Mauritius) Limited	100.00		76
HSBC Diversified Loan Fund General Partner Sarl	100.00		77
HSBC Electronic Data Processing (Guangdong) Limited	100.00		10, 78
HSBC Electronic Data Processing (Malaysia) Sdn Bhd	100.00		79
HSBC Electronic Data Processing (Philippines), Inc.	99.99		80
HSBC Electronic Data Processing India Private Limited	100.00		81
HSBC Electronic Data Processing Lanka (Private) Limited	100.00		82
HSBC Electronic Data Service Delivery (Egypt) S.A.E.	100.00		83
HSBC Enterprise Investment Company (UK) Limited (In Liquidation)	100.00		17
HSBC Epargne Entreprise (France)	100.00	(99.99)	55
HSBC Equator (UK) Limited (In Liquidation)	100.00		17
HSBC Equipment Finance (UK) Limited	100.00		15
HSBC Equity (UK) Limited	100.00		16
HSBC Europe B.V.	100.00		16

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
HSBC Executor & Trustee Company (UK) Limited	100.00		15
HSBC Factoring (France)	100.00	(99.99)	34
HSBC Finance (Netherlands)	100.00		2, 16
HSBC Finance Corporation	100.00		13
HSBC Finance Limited	100.00		16
HSBC Finance Mortgages Inc.	100.00		84
HSBC Finance Transformation (UK) Limited	100.00		16
HSBC Financial Services (Lebanon) s.a.l.	99.65		85
HSBC Financial Services (Middle East) Limited (In Liquidation)	100.00		86
HSBC Financial Services (Uruguay) S.A. (In Liquidation)	100.00		87
HSBC FinTech Services (Shanghai) Company Limited	100.00		88
HSBC Germany Holdings GmbH	100.00		38
HSBC Global Asset Management (Bermuda) Limited	100.00		3, 21
HSBC Global Asset Management (Canada) Limited	100.00		66
HSBC Global Asset Management (Deutschland) GmbH	100.00	(99.33)	38
HSBC Global Asset Management (France)	100.00	(99.99)	55
HSBC Global Asset Management (Hong Kong) Limited	100.00		22
HSBC Global Asset Management (International) Limited (In Liquidation)	100.00		89
HSBC Global Asset Management (Japan) K. K.	100.00		90
HSBC Global Asset Management (Malta) Limited	100.00	(70.03)	91
HSBC Global Asset Management (México), S.A. de C.V., Sociedad Operadora de Fondos de Inversión, Grupo Financiero HSBC	100.00	(99.99)	14
HSBC Global Asset Management (Oesterreich) GmbH	100.00	(99.33)	6, 92
HSBC Global Asset Management (Singapore) Limited	100.00		50
HSBC Global Asset Management (Switzerland) AG	100.00	(99.66)	4, 93
HSBC Global Asset Management (Taiwan) Limited	100.00		94
HSBC Global Asset Management (UK) Limited	100.00		16
HSBC Global Asset Management (USA) Inc.	100.00		95
HSBC Global Asset Management Argentina S.A. Sociedad Gerente de Fondos Comunes de Inversión	100.00	(99.99)	96
HSBC Global Asset Management Holdings (Bahamas) Limited	100.00		97
HSBC Global Asset Management Limited	100.00		2, 16
HSBC Global Custody Nominee (UK) Limited	100.00		16
HSBC Global Custody Proprietary Nominee (UK) Limited	100.00		1, 16
HSBC Global Services (Canada) Limited	100.00		98
HSBC Global Services (China) Holdings Limited	100.00		16
HSBC Global Services (Hong Kong) Limited	100.00		44
HSBC Global Services (UK) Limited	100.00		16
HSBC Global Services Limited	100.00		2, 16
HSBC Global Shared Services (India) Private Limited (In Liquidation)	99.99		1, 51
HSBC Group Management Services Limited	100.00		16
HSBC Group Nominees UK Limited	100.00		2, 16
HSBC Holdings B.V.	100.00		16
HSBC IM Pension Trust Limited	100.00		16
HSBC Infrastructure Debt GP 1 S.à r.l.	N/A		0, 52
HSBC Infrastructure Debt GP 2 S.à r.l.	N/A		0, 52
HSBC Infrastructure Limited	100.00		16
HSBC INKA Investment-AG TGV	100.00	(99.33)	12, 99
HSBC Inmobiliaria (Mexico), S.A. de C.V.	100.00	(99.99)	14
HSBC Institutional Trust Services (Asia) Limited	100.00		44
HSBC Institutional Trust Services (Bermuda) Limited	100.00		21

## Notes on the financial statements

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
HSBC Institutional Trust Services (Mauritius) Limited	100.00		59
HSBC Institutional Trust Services (Singapore) Limited	100.00		50
HSBC Insurance (Asia) Limited	100.00		100
HSBC Insurance (Asia-Pacific) Holdings Limited	100.00		101
HSBC Insurance (Bermuda) Limited	100.00		21
HSBC Insurance (Singapore) Pte. Limited	100.00		50
HSBC Insurance Agency (USA) Inc.	100.00		95
HSBC Insurance Brokers (Philippines) Inc	99.99		102
HSBC Insurance Holdings Limited	100.00		2, 16
HSBC Insurance SAC 1 (Bermuda) Limited	100.00		21
HSBC Insurance SAC 2 (Bermuda) Limited	100.00		21
HSBC Insurance Services (Lebanon) S.A.L. (In Liquidation)	99.99		103
HSBC Insurance Services Holdings Limited	100.00		16
HSBC International Finance Corporation (Delaware)	100.00		104
HSBC International Trustee (BVI) Limited	100.00		8, 105
HSBC International Trustee (Holdings) Pte. Limited	100.00		50
HSBC International Trustee Limited	100.00		106
HSBC Inversiones S.A.	99.99		57
HSBC InvestDirect (India) Limited	100.00	(99.98)	107
HSBC InvestDirect Financial Services (India) Limited	99.99	(99.98)	107
HSBC InvestDirect Sales & Marketing (India) Limited	98.99	(98.98)	51
HSBC InvestDirect Securities (India) Private Limited	99.99		107
HSBC Investment Bank Holdings B.V.	100.00		16
HSBC Investment Bank Holdings Limited	100.00		16
HSBC Investment Company (Egypt) S.A.E (In Liquidation)	100.00	(97.81)	108
HSBC Investment Company Limited	100.00		2, 16
HSBC Investment Funds (Canada) Inc.	100.00		109
HSBC Investment Funds (Hong Kong) Limited	100.00		22
HSBC Investment Funds (Luxembourg) SA	100.00		52
HSBC Invoice Finance (UK) Limited	100.00		110
HSBC Issuer Services Common Depository Nominee (UK) Limited	100.00		16
HSBC Issuer Services Depository Nominee (UK) Limited	100.00		16
HSBC Latin America B.V.	100.00		16
HSBC Latin America Holdings (UK) Limited	100.00		2, 16
HSBC Leasing (Asia) Limited	100.00		44
HSBC Leasing (France)	100.00	(99.99)	34
HSBC Life (Cornell Centre) Limited	100.00		100
HSBC Life (Edwick Centre) Limited	100.00		100
HSBC Life (International) Limited	100.00		21
HSBC Life (Property Investment) Limited	100.00		100
HSBC Life (Property Light) Limited	100.00		100
HSBC Life (Property) Limited	100.00		100
HSBC Life (Tsing Yi Industrial) Limited	100.00		100
HSBC Life (UK) Limited	100.00		16
HSBC Life Assurance (Malta) Limited	100.00	(70.03)	91
HSBC LU Nominees Limited	100.00		16
HSBC Management (Guernsey) Limited	100.00		20
HSBC Markets (USA) Inc.	100.00		13
HSBC Marking Name Nominee (UK) Limited	100.00		16
HSBC Master Trust Trustee Limited	100.00		16
HSBC Mexico, S.A., Institucion de Banca Multiple, Grupo Financiero HSBC	99.99		14
HSBC Middle East Finance Company Limited	100.00	(80.00)	111
HSBC Middle East Holdings B.V.	100.00		2, 112
HSBC Middle East Leasing Partnership	N/A		0, 113
HSBC Middle East Securities L.L.C	N/A		0, 114
HSBC Mortgage Corporation (Canada)	100.00		115
HSBC Mortgage Corporation (USA)	100.00		13

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
HSBC Nominees (Asing) Sdn Bhd	100.00		48
HSBC Nominees (Hong Kong) Limited	100.00		44
HSBC Nominees (New Zealand) Limited	100.00		116
HSBC Nominees (Tempatan) Sdn Bhd	100.00		48
HSBC North America Holdings Inc.	100.00		3, 13
HSBC Operational Services GmbH	90.10	(89.49)	117
HSBC Overseas Holdings (UK) Limited	100.00		2, 16
HSBC Overseas Investments Corporation (New York)	100.00		118
HSBC Overseas Nominee (UK) Limited	100.00		16
HSBC Participaciones (Argentina) S.A.	100.00	(99.99)	53
HSBC PB Corporate Services 1 Limited	100.00		119
HSBC PB Services (Suisse) SA	100.00		120
HSBC Pension Trust (Ireland) DAC	100.00		121
HSBC Pensiones, S.A.	100.00		14
HSBC PI Holdings (Mauritius) Limited	100.00		59
HSBC Portfoy Yonetimi A.S.	100.00		122
HSBC Preferential LP (UK)	100.00		16
HSBC Private Bank (Luxembourg) S.A.	100.00		52
HSBC Private Bank (Suisse) SA	100.00		123
HSBC Private Bank (UK) Limited	100.00		16
HSBC Private Banking Holdings (Suisse) SA	100.00		120
HSBC Private Banking Nominee 3 (Jersey) Limited	100.00		124
HSBC Private Equity Investments (UK) Limited	100.00		16
HSBC Private Trustee (Hong Kong) Limited	100.00		44
HSBC Private Wealth Services (Canada) Inc.	100.00		109
HSBC Professional Services (India) Private Limited	100.00		125
HSBC Property (UK) Limited	100.00		16
HSBC Property Funds (Holding) Limited	100.00		16
HSBC Provident Fund Trustee (Hong Kong) Limited	100.00		44
HSBC Qianhai Securities Limited	100.00	(51.00)	10, 126
HSBC Real Estate Leasing (France)	100.00	(99.99)	34
HSBC Realty Credit Corporation (USA)	100.00		13
HSBC REGIO Fund General Partner S.à r.l.	100.00		52
HSBC REIM (France)	100.00	(99.99)	55
HSBC Retirement Benefits Trustee (UK) Limited	100.00		1, 2, 16
HSBC Retirement Services Limited	100.00		1, 16
HSBC Savings Bank (Philippines) Inc.	99.99		127
HSBC Securities (Asia) Limited (In Liquidation)	100.00		44
HSBC Securities (Canada) Inc.	100.00		98
HSBC Securities (Egypt) S.A.E.	100.00	(94.65)	67
HSBC Securities (Japan) Limited	100.00		16
HSBC Securities (Singapore) Pte Limited	100.00		50
HSBC Securities (South Africa) (Pty) Limited	100.00		128
HSBC Securities (Taiwan) Corporation Limited	100.00		129
HSBC Securities (USA) Inc.	100.00		13
HSBC Securities and Capital Markets (India) Private Limited	99.99		51
HSBC Securities Asia Nominees Limited (In Liquidation)	100.00		44
HSBC Securities Brokers (Asia) Limited	100.00		44
HSBC Securities Investments (Asia) Limited	100.00		44
HSBC Securities Services (Bermuda) Limited	100.00		21
HSBC Securities Services (Guernsey) Limited	100.00		20
HSBC Securities Services (Ireland) DAC	100.00		121
HSBC Securities Services (Luxembourg) S.A.	100.00		52
HSBC Securities Services Holdings (Ireland) DAC	100.00		121
HSBC Securities Services Nominees Limited	100.00		44
HSBC Seguros de Retiro (Argentina) S.A.	100.00	(99.99)	53
HSBC Seguros de Vida (Argentina) S.A.	100.00	(99.99)	53
HSBC Seguros, S.A de C.V., Grupo Financiero HSBC	100.00	(99.99)	3, 14
HSBC Service Company Germany GmbH	100.00	(99.33)	130
HSBC Service Delivery (Polska) Sp. z o.o.	100.00		131
HSBC Services (France)	100.00	(99.99)	34
HSBC Services Japan Limited	100.00		132



Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
HSBC Services USA Inc.	100.00		133
HSBC Servicios Financieros, S.A. de C.V.	100.00	(99.99)	14
HSBC Servicios, S.A. DE C.V., Grupo Financiero HSBC	100.00	(99.99)	14
HSBC SFH (France)	100.00	(99.99)	4, 55
HSBC SFT (C.I.) Limited	100.00		20
HSBC Software Development (Guangdong) Limited	100.00		134
HSBC Software Development (India) Private Limited	100.00		135
HSBC Software Development (Malaysia) Sdn Bhd	100.00		79
HSBC Specialist Investments Limited	100.00		16
HSBC Technology & Services (China) Limited	100.00		136
HSBC Technology & Services (USA) Inc.	100.00		13
HSBC Transaction Services GmbH	100.00	(99.33)	6, 137
HSBC Trinkaus & Burkhardt (International) S.A.	100.00	(99.33)	52
HSBC Trinkaus & Burkhardt AG	99.33		38
HSBC Trinkaus & Burkhardt Gesellschaft fur Bankbeteiligungen mbH	100.00	(99.33)	38
HSBC Trinkaus Europa Immobilien-Fonds Nr. 5 GmbH	100.00	(99.33)	38
HSBC Trinkaus Family Office GmbH	100.00	(99.33)	6, 38
HSBC Trinkaus Immobilien Beteiligungs KG	100.00	(99.33)	38
HSBC Trinkaus Real Estate GmbH	100.00	(99.33)	6, 38
HSBC Trust Company (Canada)	100.00		115
HSBC Trust Company (Delaware), National Association	100.00		104
HSBC Trust Company (UK) Limited	100.00		16
HSBC Trust Company AG (In Liquidation)	100.00		31
HSBC Trustee (C.I.) Limited	100.00		124
HSBC Trustee (Cayman) Limited	100.00		138
HSBC Trustee (Guernsey) Limited	100.00		20
HSBC Trustee (Hong Kong) Limited	100.00		44
HSBC Trustee (Singapore) Limited	100.00		50
HSBC UK Bank plc	100.00		15
HSBC UK Client Nominee Limited	100.00		15
HSBC UK Holdings Limited	100.00		2, 16
HSBC USA Inc.	100.00		118
HSBC Ventures USA Inc.	100.00		13
HSBC Violet Investments (Mauritius) Limited	100.00		76
HSBC Wealth Client Nominee Limited	100.00		1, 15
HSBC Yatirim Menkul Degerler A.S.	100.00		122
HSI Asset Securitization Corporation	100.00		13
HSI International Limited	100.00	(62.14)	37
HSIL Investments Limited	100.00		16
Hubei Macheng HSBC Rural Bank Company Limited	100.00		139
Hubei Suizhou Cengdu HSBC Rural Bank Company Limited	100.00		10, 140
Hubei Tianmen HSBC Rural Bank Company Limited	100.00		141
Hunan Pingjiang HSBC Rural Bank Company Limited	100.00		10, 142
Imenson Limited	100.00	(62.14)	37
Infrared NF China Real Estate Investments LP	N/A		0, 186
INKA Internationale Kapitalanlagegesellschaft mbH	100.00	(99.33)	137
Inmobiliaria Banci, S.A. de C.V.	100.00	(99.68)	14
Inmobiliaria Bisa, S.A. de C.V.	99.98		14
Inmobiliaria Grufin, S.A. de C.V.	100.00	(99.99)	14
Inmobiliaria Guatusi, S.A. de C.V.	100.00	(99.99)	14
James Capel & Co. Limited	100.00		16
James Capel (Nominees) Limited	100.00		16
James Capel (Taiwan) Nominees Limited	100.00		16
John Lewis Financial Services Limited	100.00		16
Keyser Ullmann Limited	100.00	(99.99)	16
Lion Corporate Services Limited	100.00		44
Lion International Corporate Services Limited	100.00		1, 106

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
Lion International Management Limited	100.00		106
Lion Management (Hong Kong) Limited	100.00		1, 44
Lyndholme Limited	100.00		44
Marks and Spencer Financial Services plc	100.00		143
Marks and Spencer Unit Trust Management Limited	100.00		143
Maxima S.A. AFJP (In Liquidation)	99.98		53
Mexicana de Fomento, S.A. de C.V.	100.00	(99.90)	14
Midcorp Limited	100.00		16
Midland Bank (Branch Nominees) Limited	100.00		15
Midland Nominees Limited	100.00		15
MIL (Cayman) Limited	100.00		74
MW Gestion SA	100.00		53
Promocion en Bienes Raices, S.A. de C.V.	100.00	(99.99)	14
Prudential Client HSBC GIS Nominee (UK)	100.00		16
PT Bank HSBC Indonesia	99.99	(98.93)	144
PT HSBC Sekuritas Indonesia	85.00		145
R/CLIP Corp.	100.00		13
Real Estate Collateral Management Company	100.00		13
Republic Nominees Limited	100.00		20
Republic Overseas Capital Corporation	100.00		95
RLUKREF Nominees (UK) One Limited	100.00		1, 16
RLUKREF Nominees (UK) Two Limited	100.00		1, 16
S.A.P.C. - Ufipro Recouvrement	99.99		34
Saf Baiyun	100.00	(99.99)	4, 34
Saf Guangzhou	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Ba	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Er	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Jiu	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Liu	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Qi	100.00	(99.99)	4, 34
Saf Zhu Jiang Shi Wu	100.00	(99.99)	4, 34
SCI HSBC Assurances Immo	100.00	(99.99)	55
Serai Limited	100.00		1, 44
Serai Technology Development (Shanghai) Limited	100.00		10, 147
SFM	100.00	(99.99)	34
SFSS Nominees (Pty) Limited	100.00		128
Shandong Rongcheng HSBC Rural Bank Company Limited	100.00		10, 148
Shenzhen HSBC Development Company Ltd	100.00		149
Sico Limited	100.00		150
SNC Dorique	99.99		1, 9, 151
SNC Les Mercuriales	100.00	(99.99)	1, 9, 34
SNC Les Oliviers D'Antibes	60.00		55
SNC Makala	100.00	(99.99)	1, 9, 34
SNCB/M6 - 2008 A	100.00	(99.99)	34
SNCB/M6-2007 A	100.00	(99.99)	4, 34
SNCB/M6-2007 B	100.00	(99.99)	4, 34
Société Française et Suisse	100.00	(99.99)	34
Somers Dublin DAC	100.00	(99.99)	121
Somers Nominees (Far East) Limited	100.00		21
Sopingest	100.00	(99.99)	34
South Yorkshire Light Rail Limited	100.00		16
St Cross Trustees Limited	100.00		15
Sun Hung Kai Development (Lujiazui III) Limited	100.00		10, 152
Swan National Limited	100.00		16
Tasfiye Halinde HSBC Odeme Sistemleri Bilgisayar Teknolojileri Basın Yayın Ve Musteri Hizmetleri (In Liquidation)	100.00		153
The Hongkong and Shanghai Banking Corporation Limited	100.00		44
The Venture Catalysts Limited	100.00		16
Tooley Street View Limited	100.00		2, 16
Tower Investment Management	100.00		154
Trinkaus Australien Immobilien Fonds Nr. 1 Brisbane GmbH & Co. KG	100.00	(99.33)	38
Trinkaus Australien Immobilien-Fonds Nr. 1 Treuhand-GmbH	100.00	(99.33)	6, 38

## Notes on the financial statements

Subsidiaries	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
Trinkaus Europa Immobilien-Fonds Nr.3 Objekt Utrecht Verwaltungs-GmbH	100.00	(99.33)	38
Trinkaus Immobilien-Fonds Geschaefstuehrungs-GmbH	100.00	(99.33)	6, 38
Trinkaus Immobilien-Fonds Verwaltungs-GmbH	100.00	(99.33)	6, 38
Trinkaus Private Equity Management GmbH	100.00	(99.33)	38
Trinkaus Private Equity Verwaltungs GmbH	100.00	(99.33)	6, 38
Tropical Nominees Limited	100.00		74
Turnsonic (Nominees) Limited	100.00		15
Valeurs Mobilières Elysées	100.00	(99.99)	34
Wardley Limited	100.00		44
Wayfoong Nominees Limited	100.00		44
Wayhong (Bahamas) Limited	100.00		97
Westminster House, LLC	N/A		0, 13
Woodex Limited	100.00		21
Yan Nin Development Company Limited	100.00	(62.14)	37

### Joint ventures

The undertakings below are joint ventures and equity accounted.

Joint ventures	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
CCF & Partners Asset Management Limited	100.00	(99.99)	16
Global Payments Technology Mexico S.A. De C.V.	50.00		14
House Network Sdn Bhd	25.00		155
HSBC Life Insurance Company Limited	50.00		156
HSBC Pollination Climate Asset Management Limited	40.00		157
ProServe Bermuda Limited	50.00		158
The London Silver Market Fixing Limited	N/A		0, 1, 159
Vaultex UK Limited	50.00		160

### Associates

The undertakings below are associates and equity accounted.

Associates	% of share class held by immediate parent company (or by the Group where this varies)		Footnotes
Bank of Communications Co., Ltd.	19.03		161
Barrowgate Limited	15.31		162
BGF Group PLC	24.56		163
Bud Financial Limited	10.82		1, 164
Canara HSBC Oriental Bank of Commerce Life Insurance Company Limited	26.00		165
CFAC Payment Scheme Limited	33.33		166
Chemi & Cotex (Rwanda) Limited	33.99		1, 167
Chemi & Cotex Kenya Limited	33.99		1, 168
Chemi and Cotex Industries Limited	33.99		169
Contour	10.80		191
Episode Six Limited	9.10		187
EPS Company (Hong Kong) Limited	38.66		44
EURO Secured Notes Issuer	16.66		170
GIE GNIFI	N/A		0, 1, 171
GZHS Research Co Ltd	20.50		172
Hang Seng Qianhai Fund Management Company Limited	43.49		1, 10, 173
HCM Holdings Limited (In Liquidation)	50.99		17
HSBC Canadian Covered Bond (Legislative) GP Inc.	100.00		73
HSBC Jintrust Fund Management Company Limited	49.00		174
HSBC Saudi Arabia, a Saudi closed Joint Stock Company	66.18		175
Icon Brickell LLC (In Liquidation)	N/A		0, 176
Jeppe Star Limited	33.99		177
Liquidity Match LLC	N/A		0, 188
London Precious Metals Clearing Limited	30.00		189
MENA Infrastructure Fund (GP) Ltd	33.33		178
Novo Star Limited	33.99		179
Quantexa Ltd	10.99		146
Services Epargne Entreprise	14.18		180
Simon Group LLC	N/A		0, 190
sino AG	24.77		181
The London Gold Market Fixing Limited	25.00		159
The Saudi British Bank	30.99		182
Trade Information Network	16.67		192
Trinkaus Europa Immobilien-Fonds Nr. 7 Frankfurt Mertonviertel KG	N/A		0, 38
Vizolution Limited	17.95		1, 183
We Trade Innovation Designated Activity Company	8.52		1, 184

## Footnotes for Note 37

### Description of Shares

0	Where an entity is governed by voting rights, HSBC consolidates when it holds – directly or indirectly – the necessary voting rights to pass resolutions by the governing body. In all other cases, the assessment of control is more complex and requires judgement of other factors, including having exposure to variability of returns, power to direct relevant activities, and whether power is held as an agent or principal. HSBC's consolidation policy is described in Note 1.2(a).
1	Management has determined that these undertakings are excluded from consolidation in the Group accounts as these entities do not meet the definition of subsidiaries in accordance with IFRS. HSBC's consolidation policy is described in Note 1.2(a).
2	Directly held by HSBC Holdings plc
3	Preference Shares
4	Actions
5	Redeemable Preference Shares
6	GmbH Anteil
7	Limited and Unlimited Liability Shares
8	Non-Participating Voting Shares
9	Parts
10	Registered Capital Shares
11	Russian Limited Liability Company Shares
12	Stückaktien

### Registered offices

13	c/o The Corporation Trust Company 1209 Orange Street, Wilmington, Delaware, United States of America, 19801
14	Paseo de la Reforma 347 Col. Cuauhtemoc, Mexico, 06500
15	1 Centenary Square, Birmingham, United Kingdom, B1 1HQ
16	8 Canada Square, London, United Kingdom, E14 5HQ
17	Hill House 1 Little New Street, London, United Kingdom, EC4A 3TR
18	5 Donegal Square South, Northern Ireland, Belfast, United Kingdom, BT1 5JP
19	1909 Avenida Presidente Juscelino Kubitschek, 19º andar, Torre Norte, São Paulo Corporate Towers, São Paulo, Brazil, 04551-903
20	Arnold House St Julians Avenue, St Peter Port, Guernsey, GY1 3NF
21	37 Front Street, Hamilton, Bermuda, HM 11
22	HSBC Main Building 1 Queen's Road Central, Hong Kong
23	First Floor, Xinhua Bookstore Xindong Road (SE of roundabout), Miyun District, Beijing, China
24	Deloitte LLP, 1 New Street Square, London, EC4A 3HQ, United Kingdom
25	95 Washington Street Buffalo, New York, United States of America, 14203
26	Corporation Service Company 251 Little Falls Drive, Wilmington, Delaware, United States of America, 19808
27	Solidere - Rue Saad Zaghloul Immeuble - 170 Marfaa, P.O. Box 17 5476 Mar Michael, Beyrouth, Lebanon, 11042040
28	No 1, Bei Huan East Road Dazu County, Chongqing, China
29	No 107 Ping Du Avenue (E), Sanhe Town, Fengdu County, Chongqing, China
30	No. 3, 5, 7, Haitang Erzhi Road Changyuan, Rongchang, Chongqing, China, 402460
31	Bederstrasse 49, Zurich, Switzerland, CH-8002
32	First & Second Floor, No.3 Nanshan Road, Pulandian, Dalian, Liaoning, China
33	CT Corporation System 225 Hillsborough Street, Raleigh, North Carolina, United States Of America, 27603
34	38 avenue Kléber, Paris, France, 75116
35	MMG Tower, 23 floor Ave. Paseo del Mar Urbanizacion Costa del Este, Panama
36	No. 1 1211 Yanjiang Zhong Road, Yongan, Fujian, China
37	83 Des Voeux Road Central, Hong Kong

### Registered offices

38	Königsallee 21/23, Düsseldorf, Germany, 40212
39	No.44 Xin Ping Road Central, Encheng, Enping, Guangdong, China, 529400
40	Room 1701-010 Heung Kong Building, 37 Jin Long Rd, Nansha District, Guangzhou, China
41	34/F and 36/F, Hang Seng Bank Tower 1000 Lujiazui Ring Road, Pilot Free Trade Zone, Shanghai, Shanghai, China, 200120
42	Claude Debussylaan 10 Office Suite 20, 1082MD, Amsterdam, Netherlands
43	Commerce House, Wickhams Cay 1, P.O. Box 3140, Road Town, Tortola, British Virgin Islands, VG1110
44	1 Queen's Road Central, Hong Kong
45	The Corporation Trust Company of Nevada 311 S. Division Street, Carson City, Nevada, United States of America, 89703
46	Corporation Service Company 2711 Centerville Road, Suite 400, Wilmington, Delaware, United States of America, 19808
47	HSBC House Esplanade, St. Helier, Jersey, JE4 8UB
48	10th Floor South Tower, Bangunan HSBC, No. 2, Leboh Ampang, Kuala Lumpur, Malaysia, 50100
49	13th Floor, South Tower 2 Leboh Ampang, Kuala Lumpur, Malaysia, 50100
50	10 Marina Boulevard #48-01 Marina Bay Financial Centre, Singapore, 018983
51	52/60 M G Road Fort, Mumbai, India, 400 001
52	16 Boulevard d'Avranches, Luxembourg, Luxembourg, L-1160
53	557 Bouchard Level 20, Ciudad de Buenos Aires, Capital federal, Argentina, C1106ABG
54	3rd Floor Merchantile Bank Chamber 16, Veer Nariman Road, Fort, Mumbai, India, 400001
55	Immeuble Cœur Défense 110 esplanade du Général de Gaulle, Courbevoie, France, 92400
56	Level 36 Tower 1 International Towers Sydney, 100 Barangaroo Avenue, Sydney, New South Wales, Australia, 2000
57	Isidora Goyenechea 2800 23rd floor, Las Condes, Santiago, Chile, 7550647
58	HSBC Building Shanghai ifc, 8 Century Avenue, Pudong, Shanghai, China, 200120
59	6th floor HSBC Centre 18, Cybercity, Ebene, Mauritius, 72201
60	2 Paveletskaya square building 2, Moscow, Russian Federation, 115054
61	13F-14F, 333 Keelung Road, Sec.1, Taipei, 110, Taiwan
62	25 de Mayo 471, Montevideo, Uruguay, 11000
63	The Metropolitan 235 Dong Khoi Street, District 1, Ho Chi Minh City, Viet Nam
64	Esentepe mah. Büyükdere Caddesi No.128, Istanbul, Turkey, 34394
65	66 Teryan street, Yerevan, Armenia, 0009
66	885 West Georgia Street 3rd Floor, Vancouver, British Columbia, Canada, V6C 3E9
67	306 Corniche El Nil, P.O. Box 124, Maadi, Egypt, 11728
68	116 Archbishop Street, Valletta, Malta
69	Level 1, Building No. 8, Gate Village Dubai International Financial Centre, United Arab Emirates, P.O. Box 30444
70	Majer Consulting, Office 54/44, Building A1, Residence Ryad Anfa, Boulevard Omar El Khayam, Casa Finance City (CFC), Casablanca, Morocco
71	Al Khuwair Office PO Box 1727 PC111 CPO Seeb, Muscat, Oman
72	1800 Tysons Boulevard Suite 50, Tysons, Virginia, United States of America, 22102
73	66 Wellington Street West, Suite 5300, Toronto, Ontario, Canada, M5K 1E6

## Notes on the financial statements

### Registered offices

74	<i>P.O. Box 1109, Strathvale House, Ground floor, 90 North Church Street, George Town, Grand Cayman, Cayman Islands, KY1-1102</i>
75	<i>HSBC House Esplanade, St. Helier, Jersey, JE1 1HS</i>
76	<i>c/o Rogers Capital St. Louis Business Centre, Cnr Desroches &amp; St Louis Streets, Port Louis, Mauritius</i>
77	<i>49 avenue J.F. Kennedy, Luxembourg, Luxembourg, 1855</i>
78	<i>4-17/F, Office Tower 2 TaiKoo Hui, No. 381 Tian He Road, Tian He District, Guangzhou, Guangdong, China</i>
79	<i>Suite 1005, 10th Floor, Wisma Hamzah Kwong, Hing No. 1, Leboh Ampang, Kuala Lumpur, Malaysia, 50100</i>
80	<i>HSBC, Filinvest One Bldg Northgate Cyberzone, Filinvest Corporate City, Alabang, Muntinlupa City, Philippines, 1781</i>
81	<i>HSBC House Plot No.8 Survey No.64 (Part), Hightec City Layout Madhapur, Hyderabad, India, 500081</i>
82	<i>439, Sri Jayawardenapura Mawatha Welikada, Rajagiriya, Colombo, Sri Lanka</i>
83	<i>Smart Village 28th Km Cairo- Alexandria Desert Road Building, Cairo, Egypt</i>
84	<i>Suite 300 3381 Steeles Avenue East, Toronto, Ontario, Canada, M2H 3S7</i>
85	<i>Centre Ville 1341 Building - 4th Floor Patriarce Howayek Street (facing Beirut Souks), PO Box Riad El Solh, Lebanon, 9597</i>
86	<i>3rd Floor, HSBC Bank Middle East Limited Building, Al Souq Road, P.O Box 4604, Dubai, United Arab Emirates</i>
87	<i>World Trade Center Montevideo Avenida Luis Alberto de Herrera 1248, Torre 1, Piso 15, Oficina 1502, Montevideo, Uruguay, CP 11300</i>
88	<i>Room 655, Building A, No. 888, Huan Hu West Two Road, Lin Gang New Area of Shanghai (Pilot) Free Trade Zone, China, Shanghai, Shanghai, China</i>
89	<i>HSBC House Esplanade, St. Helier, Jersey, JE4 8WP</i>
90	<i>HSBC Building 11-1, Nihonbashi 3-chome, Chuo-ku, Tokyo, Japan, 103-0027</i>
91	<i>80 Mill Street, Qormi, Malta, QRM 3101</i>
92	<i>Herrengasse 1-3, Wien, Austria, 1010</i>
93	<i>26 Gartenstrasse, Zurich, Switzerland, 8002</i>
94	<i>24th Fl. 97-99, Sec.2, Tunhwa S. Rd., Taipei, Taiwan, R.O.C., Taiwan</i>
95	<i>452 Fifth Avenue, New York, United States of America,</i>
96	<i>Bouchard 557, Piso 18°, Cdad. Autónoma de Buenos Aires, Argentina, 1106</i>
97	<i>Mareva House 4 George Street, Nassau, Bahamas</i>
98	<i>70 York Street, Toronto, Ontario, Canada, M5J 1S9</i>
99	<i>Breite Str. 29/31, Düsseldorf, Germany, 40213</i>
100	<i>18th Floor, Tower 1, HSBC Centre 1 Sham Mong Road, Kowloon, Hong Kong</i>
101	<i>Level 32, HSBC Main Building 1 Queen's Road Central, Hong Kong SAR, Hong Kong</i>
102	<i>7/F HSBC Centre 3058 Fifth Ave West, Bonifacio Global City, Taguig City, Philippines</i>
103	<i>HSBC Building Minet El Hosn, Riad el Solh, Beirut 1107-2080, Lebanon, P.O. Box 11-1380</i>
104	<i>300 Delaware Avenue Suite 1401, Wilmington, Delaware, United States Of America, 19801</i>
105	<i>Woodbourne Hall, Road Town, Tortola, British Virgin Islands, P.O. Box 916</i>
106	<i>Craigmuir Chambers, PO Box 71, Road Town, Tortola, British Virgin Islands</i>
107	<i>9-11 Floors, NESCO IT Park Building No. 3 Western Express Highway, Goregaon (East), Mumbai, India, 400063</i>
108	<i>3, Aboul Feda Street Zamalek, Cairo, Egypt</i>
109	<i>300-885 West Georgia Street, Vancouver, British Columbia, Canada, V6C 3E9</i>
110	<i>21 Farncombe Road Worthing, United Kingdom, BN11 2BW</i>

### Registered offices

111	<i>Plot No.312-878 Mezzanine Floor, Bldg. of Sheikh Hamdan Bin Rashid, Dubai Creek, Dubai, United Arab Emira</i>
112	<i>Level 1, Building No. 8, Gate Village Dubai International Financial Centre, PO Box 30444, United Arab Emirates</i>
113	<i>Unit 101 Level 1, Gate Village Building No. 8 Dubai International Financial Centre (DIFC), Dubai, United Arab Emirates, PO Box 506553</i>
114	<i>Office No.16 Owned by HSBC Bank Middle East Limited, Dubai Branch, Bur Dubai, Burj Khalifa, Dubai, United Arab Emirates</i>
115	<i>885 West Georgia Street Suite 300, Vancouver, British Columbia, Canada, V6C 3E9</i>
116	<i>HSBC Tower, Level 21, 188 Quay Street, Auckland, New Zealand, 1010</i>
117	<i>21-23 Yorckstraße, Düsseldorf, Nordrhein-Westfalen, Germany, 40476</i>
118	<i>The Corporation Trust Incorporated, 2405 York Road, Suite 201, Lutherville Timonium, Maryland, United Sta</i>
119	<i>HSBC House Esplanade, St. Helier, Jersey, JE1 1GT</i>
120	<i>Quai des Bergues 9-17, Geneva, Switzerland, 1201</i>
121	<i>1 Grand Canal Square, Grand Canal Harbour, Dublin 2, Ireland, D02 P820</i>
122	<i>Esentepe mah. Büyükdere Caddesi No.128, Istanbul, Turkey, 34394</i>
123	<i>Quai des Bergues 9-17, Geneva, Switzerland, 1201</i>
124	<i>HSBC House Esplanade, St Helier, Jersey, JE1 1GT</i>
125	<i>52/60 M G Road, Fort, Mumbai, India, 400 001</i>
126	<i>Block 27 A&amp;B, Qianhai Enterprise Dream Park No. 63 Qianwan Yi Road, Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China, 518052</i>
127	<i>Unit 1 GF The Commerical Complex Madrigal Avenue, Ayala Alabang Village, Muntinlupa City, Philippines, 17</i>
128	<i>1 Mutual Place 107 Rivonia Road, Sandton, Sandton, Gauteng, South Africa, 2196</i>
129	<i>13F 333 Keelung Road, Sec.1, Taipei, Taiwan, 110</i>
130	<i>Hansaallee 3, Düsseldorf, Germany, 40549</i>
131	<i>Kapelanka 42A, Krakow, Poland, 30-347</i>
132	<i>MB&amp;H Corporate Services Ltd Mareva House, 4 George Street, Nassau, Bahamas</i>
133	<i>C T Corporation System 820 Bear Tavern Road, West Trenton, New Jersey, United States Of America, 08628</i>
134	<i>L22, Office Tower 2, Taikoo Hui, 381 Tianhe Road, Tianhe District, Guangzhou, Guangdong, China</i>
135	<i>HSBC Centre River Side, West Avenue, 25B Raheja woods, Kalyaninagar, Pune, India, 411006</i>
136	<i>Level 19, HSBC Building, Shanghai ifc 8 Century Avenue Pudong, Shanghai, China</i>
137	<i>Yorckstraße 21 - 23, Duesseldorf, Germany, 40476</i>
138	<i>P.O. Box 309 Uglan House, Grand Cayman, Cayman Islands, KY1-1104</i>
139	<i>No. 56 Yu Rong Street, Macheng, China, 438300</i>
140	<i>No. 205 Lie Shan Road Suizhou, Hubei, China</i>
141	<i>Building 3, Yin Zuo Di Jing Wan Tianmen New City, Tianmen, Hubei Province, China</i>
142	<i>RM101, 102 &amp; 106 Sunshine Fairview, Sunshine Garden, Pedestrian Walkway, Pingjiang, China</i>
143	<i>Kings Meadow Chester Business Park, Chester, United Kingdom, CH99 9FB</i>
144	<i>World Trade Center 1, Floor 8-9 Jalan Jenderal Sudirman Kavling 29 - 31, Jakarta, Indonesia, 12920</i>
145	<i>5th Floor, World Trade Center 1, Jl. Jend. Sudirman Kav. 29-31, Jakarta, Indonesia, 12920</i>
146	<i>75 Park Lane, Croydon, Surrey, United Kingdom, CR9 1XS</i>
147	<i>Unit B02 20/F No. 168 Yin Cheng Zhong Road, Pilot Free Trade Zone, Shanghai, China, 200120</i>
148	<i>No.198-2 Chengshan Avenue (E), Rongcheng, China, 264300</i>

## Registered offices

149	Room 1303-13062 Marine Center Main Tower, 59 Linhai Rd, Nanshan District, Shenzhen, China
150	Woodbourne Hall, Road Town, Tortola, British Virgin Islands, P.O. Box 3162
151	43 rue de Paris, Saint Denis, France, 97400
152	RM 2112, HSBC Building, Shanghai ifc No. 8 Century Road, Pudong, Shanghai, China, 200120
153	Esentepe mah. Büyükdere Caddesi No.128, Istanbul, Turkey, 34394
154	11 Dr. Roy's Drive PO Box 694GT, Grand Cayman, Cayman Islands, KY1-1107
155	Lot 6.05, Level 6, KPMG Tower 8 First Avenue, Bandar Utama, Petaling Jaya, Selangor Darul Ehsan, Malaysia
156	18/F Unit 2101, 2113, 2113A, 2115 and 2116 of 21/F, HSBC Building, 8 Century Avenue, China (Shanghai) Pilot Free Trade Zone, Shanghai, China, 200120
157	3 More London Riverside, London, United Kingdom, SE1 2AQ
158	MUFG Fund Services (Bermuda) Limited The Belvedere Building, 69 Pitts Bay Road, Pembroke, Bermuda, HM
159	c/o Hackwood Secretaries Limited One Silk Street, London, United Kingdom, EC2Y 8HQ
160	All Saints Triangle Caledonian road, London, United Kingdom, N19UT
161	No.188, Yin Cheng Zhong Road China (Shanghai), Pilot Free Trade Zone, Shanghai, China
162	49/F The Lee Gardens, 33 Hysan Avenue, Hong Kong
163	13-15 York Buildings, London, United Kingdom, WC2N 6JU
164	First Floor The Bower, 207 Old Street, England, United Kingdom, EC1V 9NR
165	Unit No. 208, 2nd Floor, Kanchenjunga Building 18, Barakhamba Road, New Delhi, India, 110001
166	65 Gresham Street 6th Floor, London, United Kingdom, EC2V 7NQ
167	PO 4978, Kigali, Rwanda
168	Plot LR No. 487 Dagoretti / Ruthimitu, P.O. Box 14362, Nairobi, Kenya, 00800
169	Plot No. 89-90 Mbezi Industrial Area Box 347, Dar es Salaam City, Tanzania, United Republic of Tanzania
170	3 avenue de l'Opera, Paris, France, 75001

## Registered offices

171	37 avenue Henri Lafleur, Nouméa, New Caledonia, BP K3 98849
172	Room 1303, 106 Feng Ze Dong Road, Nansha District, Guangzhou, Guangdong, China
173	Flat 209, Hedge Fund Centre of Qianhai Shenzhen-Hong Kong Fund Town No. 128 Guiwan Five Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, China
174	17F, HSBC Building, Shanghai ifc 8 Century Avenue, Pudong, Shanghai, China
175	HSBC Building 7267 Olaya - Al Murrooj, Riyadh, Saudi Arabia, 12283 - 2255
176	C T Corporation System 1200 South Pine Island Road Plantation, Florida, United States of America, 33324
177	c/o Trident Trust Company Trident Chambers, PO Box 146, Tortola, British Virgin Islands
178	Office 705, Level 8, Tower 2, Al Fattan Currency House, DIFC, P.O.Box 506553, Dubai, UAE
179	Jayla Place Wickhams Cay I, PO Box 3190, Road Town, British Virgin Islands
180	32 rue du Champ de Tir, Nantes, France, 44300
181	Ernst-Schneider-Platz 1, Duesseldorf, Germany, 40212
182	Al Amir Abdulaziz Ibn Mossaad Ibn Jalawi Street, Riyadh, Saudi Arabia
183	Office Block A, Bay Studios Business Park, Fabian Way, Swansea, Wales, United Kingdom, SA1 8QB
184	10 Earlsfort Terrace, Dublin, Ireland, D02 T380
185	c/o Walkers Corporate Services Limited, Walker House, 87 Mary Street, George Town, Grand Cayman, KY1 - 90
186	Oak House Hirzel Street, St Peter Port, Guernsey, GY1 2NP
187	9/F Amtel Bldg, 148 des Voeux Rd Central, Central, Hong Kong
188	100 Town Square Place, Suite 201, Jersey City, NJ 07310, United States of America
189	1-2 Royal Exchange Buildings, Royal Exchange, London, United Kingdom, EC3V 3LF
190	25 W 25th St. New York, NY 10001, United States of America
191	50 Raffles Place, #32-01 Singapore Land Tower, 048623, Singapore
192	3 More London Riverside, London, United Kingdom, SE1 2AQ

## 38 Non-statutory accounts

The information set out in these accounts does not constitute the Company's statutory accounts for the years ended 31 December 2020 or 2019. Those accounts have been reported on by the Company's auditors: their reports were unqualified and did not contain a statement under Section 498(2) or (3) of the Companies Act 2006. The accounts for 2019 have been delivered to the Registrar of Companies and those for 2020 will be delivered in due course.

## Additional information

## Shareholder information

	Page		Page
Interim dividend for 2020	406	Exchange controls and other limitations affecting equity security holders	410
Interim dividends for 2021	406	Dividends on the ordinary shares of HSBC Holdings	411
Other equity instruments	406	American Depository Shares	411
2020 Annual General Meeting	406	Nature of trading market	411
Earnings releases and interim results	407	Memorandum and Articles of Association	412
Shareholder enquiries and communications	407	Differences in HSBC Holdings/New York Stock Exchange corporate governance practices	412
Stock symbols	408	Glossary of accounting terms and US equivalents	413
Investor relations	408	Reconciliations	414
Where more information about HSBC is available	408	Abbreviations	416
Taxation of shares and dividends	409		
Information made about the enforceability of judgments made in the US	410		

A glossary of terms used in the Annual Report and Accounts can be found in the Investors section of [www.hsbc.com](http://www.hsbc.com).

### Interim dividend for 2020

The Directors have approved an interim dividend for 2020 of \$0.15 per ordinary share. Information on the currencies in which shareholders may elect to have the cash dividend paid will be sent to shareholders on or about 24 March 2021. The interim dividend will be paid in cash with no scrip alternative, as it is dilutive. The timetable for the interim dividend is:

	Footnotes	
Announcement		23 February 2021
Shares quoted ex-dividend in London, Hong Kong and Bermuda and American Depository Shares ('ADS') quoted ex-dividend in New York		11 March 2021
Record date – London, Hong Kong, New York, Bermuda	1	12 March 2021
Mailing of <i>Annual Report and Accounts 2020</i> and/or <i>Strategic Report 2020</i> and dividend documentation		24 March 2021
Final date for receipt by registrars of forms of election, Investor Centre electronic instructions and revocations of standing instructions for dividend elections		15 April 2021
Exchange rate determined for payment of dividends in sterling and Hong Kong dollars		19 April 2021
Payment date		29 April 2021

1 Removals to and from the Overseas Branch register of shareholders in Hong Kong will not be permitted on this date.

### Interim dividends for 2021

In December 2020, the PRA announced that it intends to transition back to its standard approach to capital setting and shareholder distributions through 2021. In the meantime, for 2021 dividends the PRA is content for appropriately prudent dividends to be accrued but not paid out and the PRA aims to provide a further update ahead of the 2021 half-year results of large UK banks. As a result, the Group will not be paying quarterly dividends during 2021 but will consider whether to announce an interim dividend at the 2021 half-year results in August.

The Group will review whether to revert to paying quarterly dividends at or ahead of its 2021 results announcement in February 2022.

The Board has adopted a policy designed to provide sustainable dividends going forward. We intend to transition towards a target payout ratio of between 40% and 55% of reported earnings per ordinary share ('EPS') for 2022 onwards, with the flexibility to adjust EPS for non-cash significant items such as goodwill or intangibles impairments. The dividend policy could be supplemented by buy-backs or special dividends, over time and not in the near term, should the Group find itself in an excess capital position absent compelling investment opportunities to deploy that excess.

Dividends are declared in US dollars and, at the election of the shareholder, paid in cash in one of, or in a combination of, US dollars, pounds sterling and Hong Kong dollars. The Group has decided to discontinue the scrip dividend option as it is dilutive, including to dividend per share progression over time.

### Other equity instruments

#### Additional tier 1 capital – contingent convertible securities

HSBC continues to issue contingent convertible securities that are included in its capital base as fully CRR II-compliant additional tier 1 capital securities. For further details on these securities, please refer to Note 31 on the financial statements.

In 2020, HSBC issued \$1,500m 4.600% Perpetual Contingent Convertible Securities on 17 December 2020.

### 2020 Annual General Meeting

All resolutions considered at the 2020 Annual General Meeting held at 11:00 am on 24 April 2020 at 8 Canada Square, London E14 5HQ, UK were passed on a poll.

---

## Earnings releases and interim results

First and third quarter results for 2021 will be released on 27 April 2021 and 25 October 2021 respectively. The interim results for the six months to 30 June 2021 will be issued on 2 August 2021.

---

## Shareholder enquiries and communications

### Enquiries

Any enquiries relating to shareholdings on the share register (for example, transfers of shares, changes of name or address, lost share certificates or dividend cheques) should be sent to the Registrars at the address given below. The Registrars offer an online facility, Investor Centre, which enables shareholders to manage their shareholding electronically.

#### Principal Register:

Computershare Investor Services PLC  
The Pavilions  
Bridgwater Road  
Bristol BS99 6ZZ  
United Kingdom  
Telephone: +44 (0) 370 702 0137  
Email via website:  
[www.investorcentre.co.uk/contactus](http://www.investorcentre.co.uk/contactus)

Investor Centre:  
[www.investorcentre.co.uk](http://www.investorcentre.co.uk)

#### Hong Kong Overseas Branch Register:

Computershare Hong Kong Investor  
Services Limited  
Rooms 1712-1716, 17th Floor  
Hopewell Centre  
183 Queen's Road East  
Hong Kong  
Telephone: +852 2862 8555  
Email: [hsbc.ecom@computershare.com.hk](mailto:hsbc.ecom@computershare.com.hk)

Investor Centre:  
[www.investorcentre.com/hk](http://www.investorcentre.com/hk)

#### Bermuda Overseas Branch Register:

Investor Relations Team  
HSBC Bank Bermuda Limited  
37 Front Street  
Hamilton HM 11  
Bermuda  
Telephone: +1 441 299 6737  
Email: [hbbm.shareholder.services@hsbc.bm](mailto:hbbm.shareholder.services@hsbc.bm)

Investor Centre:  
[www.investorcentre.com/bm](http://www.investorcentre.com/bm)

Any enquiries relating to ADSs should be sent to the depositary:

The Bank of New York Mellon  
Shareowner Services  
PO Box 505000  
Louisville, KY 40233-5000  
USA  
Telephone (US): +1 877 283 5786  
Telephone (International): +1 201 680 6825  
Email: [shrrelations@cpushareownerservices.com](mailto:shrrelations@cpushareownerservices.com)  
Website: [www.mybnymdr.com](http://www.mybnymdr.com)

If you have elected to receive general shareholder communications directly from HSBC Holdings, it is important to remember that your main contact for all matters relating to your investment remains the registered shareholder, or custodian or broker, who administers the investment on your behalf. Therefore, any changes or queries relating to your personal details and holding (including any administration of it) must continue to be directed to your existing contact at your investment manager or custodian or broker. HSBC Holdings cannot guarantee dealing with matters directed to it in error.

Shareholders who wish to receive a hard copy of the *Annual Report and Accounts 2020* should contact HSBC's Registrars. Please visit [www.hsbc.com/investors/investor-contacts](http://www.hsbc.com/investors/investor-contacts) for further information. You can also download an online version of the report from [www.hsbc.com](http://www.hsbc.com).

### Electronic communications

Shareholders may at any time choose to receive corporate communications in printed form or to receive notifications of their availability on HSBC's website. To receive notifications of the availability of a corporate communication on HSBC's website by email, or revoke or amend an instruction to receive such notifications by email, go to [www.hsbc.com/investors/shareholder-information/manage-your-shareholding](http://www.hsbc.com/investors/shareholder-information/manage-your-shareholding). If you provide an email address to receive electronic communications from HSBC, we will also send notifications of your dividend entitlements by email. If you received a notification of the availability of this document on HSBC's website and would like to receive a printed copy, or if you would like to receive future corporate communications in printed form, please write or send an email (quoting your shareholder reference number) to the appropriate Registrars at the address given above. Printed copies will be provided without charge.

## Additional information

### Chinese translation

A Chinese translation of the *Annual Report and Accounts 2020* will be available upon request after 24 March 2021 from the Registrars:

Computershare Hong Kong Investor Services Limited  
Rooms 1712-1716, 17th Floor  
Hopewell Centre  
183 Queen's Road East  
Hong Kong

Computershare Investor Services PLC  
The Pavilions  
Bridgwater Road  
Bristol BS99 6ZZ  
United Kingdom

Please also contact the Registrars if you wish to receive Chinese translations of future documents, or if you have received a Chinese translation of this document and do not wish to receive them in future.

《2020年報及賬目》備有中譯本，各界人士可於2021年3月24日之後，向上列股份登記處索閱。

閣下如欲於日後收取相關文件的中譯本，或已收到本文件的中譯本但不希望繼續收取有關譯本，均請聯絡股份登記處。

---

### Stock symbols

HSBC Holdings ordinary shares trade under the following stock symbols:

London Stock Exchange	HSBA*	New York Stock Exchange (ADS)	HSBC
Hong Kong Stock Exchange	5	Bermuda Stock Exchange	HSBC.BH

\*HSBC's Primary market

HSBC delisted from Euronext Paris on 22 December 2020

---

### Investor relations

Enquiries relating to HSBC's strategy or operations may be directed to:

Richard O'Connor, Global Head of Investor Relations  
HSBC Holdings plc  
8 Canada Square  
London E14 5HQ  
United Kingdom  
Telephone: +44 (0) 20 7991 6590  
Email: investorrelations@hsbc.com

Mark Phin, Head of Investor Relations, Asia-Pacific  
The Hongkong and Shanghai Banking  
Corporation Limited  
1 Queen's Road Central  
Hong Kong  
Telephone: 852 2822 4908  
Email: investorrelations@hsbc.com.hk

---

### Where more information about HSBC is available

This *Annual Report and Accounts 2020* and other information on HSBC may be downloaded from HSBC's website: [www.hsbc.com](http://www.hsbc.com). Reports, statements and information that HSBC Holdings files with the Securities and Exchange Commission are available at [www.sec.gov](http://www.sec.gov). Investors can also request hard copies of these documents upon payment of a duplicating fee by writing to the SEC at the Office of Investor Education and Advocacy, 100 F Street N.E., Washington, DC 20549-0213 or by emailing [PublicInfo@sec.gov](mailto:PublicInfo@sec.gov). Investors should call the Commission at (1) 202 551 8090 if they require further assistance. Investors may also obtain the reports and other information that HSBC Holdings files at [www.nyse.com](http://www.nyse.com) (telephone number (1) 212 656 3000).

HM Treasury has transposed the requirements set out under CRD IV and issued the Capital Requirements Country-by-Country Reporting Regulations 2013. The legislation requires HSBC Holdings to publish additional information in respect of the year ended 31 December 2020 by 31 December 2021. This information will be available on HSBC's website: [www.hsbc.com/tax](http://www.hsbc.com/tax).



---

## Taxation of shares and dividends

### Taxation – UK residents

The following is a summary, under current law and the current published practice of HM Revenue and Customs ('HMRC'), of certain UK tax considerations that are likely to be material to the ownership and disposition of HSBC Holdings ordinary shares. The summary does not purport to be a comprehensive description of all the tax considerations that may be relevant to a holder of shares. In particular, the summary deals with shareholders who are resident solely in the UK for UK tax purposes and only with holders who hold the shares as investments and who are the beneficial owners of the shares, and does not address the tax treatment of certain classes of holders such as dealers in securities. Holders and prospective purchasers should consult their own advisers regarding the tax consequences of an investment in shares in light of their particular circumstances, including the effect of any national, state or local laws.

#### Taxation of dividends

Currently, no tax is withheld from dividends paid by HSBC Holdings.

#### UK resident individuals

UK resident individuals are generally entitled to a tax-free annual allowance in respect of dividends received. The amount of the allowance for the tax year beginning 6 April 2020 is £2,000. To the extent that dividend income received by an individual in the relevant tax year does not exceed the allowance, a nil tax rate will apply. Dividend income in excess of this allowance will be taxed at 7.5% for basic rate taxpayers, 32.5% for higher rate taxpayers and 38.1% for additional rate taxpayers.

#### UK resident companies

Shareholders that are within the charge to UK corporation tax should generally be entitled to an exemption from UK corporation tax on any dividends received from HSBC Holdings. However, the exemptions are not comprehensive and are subject to anti-avoidance rules.

If the conditions for exemption are not met or cease to be satisfied, or a shareholder within the charge to UK corporation tax elects for an otherwise exempt dividend to be taxable, the shareholder will be subject to UK corporation tax on dividends received from HSBC Holdings at the rate of corporation tax applicable to that shareholder.

#### Scrip dividends

HSBC Holdings plc did not pay any ordinary share dividends during 2020.

#### Taxation of capital gains

The computation of the capital gains tax liability arising on disposals of shares in HSBC Holdings by shareholders subject to UK tax on capital gains can be complex, partly depending on whether, for example, the shares were purchased since April 1991, acquired in 1991 in exchange for shares in The Hongkong and Shanghai Banking Corporation Limited, or acquired subsequent to 1991 in exchange for shares in other companies.

For capital gains tax purposes, the acquisition cost for ordinary shares is adjusted to take account of subsequent rights and capitalisation issues. Any capital gain arising on a disposal of shares in HSBC Holdings by a UK company may also be adjusted to take account of indexation allowance if the shares were acquired before 1 January 2018, although the level of indexation allowance that is given in calculating the gain would be frozen at the value that would apply to the disposal of assets acquired on or after 1 January 2018. If in doubt, shareholders are recommended to consult their professional advisers.

#### Stamp duty and stamp duty reserve tax

Transfers of shares by a written instrument of transfer generally will be subject to UK stamp duty at the rate of 0.5% of the consideration paid for the transfer (rounded up to the next £5), and such stamp duty is generally payable by the transferee. An agreement to transfer shares, or any interest therein, normally will

give rise to a charge to stamp duty reserve tax at the rate of 0.5% of the consideration. However, provided an instrument of transfer of the shares is executed pursuant to the agreement and duly stamped before the date on which the stamp duty reserve tax becomes payable, under the current published practice of HMRC it will not be necessary to pay the stamp duty reserve tax, nor to apply for such tax to be cancelled. Stamp duty reserve tax is generally payable by the transferee.

Paperless transfers of shares within CREST, the UK's paperless share transfer system, are liable to stamp duty reserve tax at the rate of 0.5% of the consideration. In CREST transactions, the tax is calculated and payment made automatically. Deposits of shares into CREST generally will not be subject to stamp duty reserve tax, unless the transfer into CREST is itself for consideration. Following the case HSBC pursued before the European Court of Justice (Case C-569/07 HSBC Holdings plc and Vidacos Nominees Ltd v The Commissioners for HM Revenue and Customs) and a subsequent case in relation to depositary receipts, HMRC accepted that the charge to stamp duty reserve tax at 1.5% on the issue of shares (and transfers integral to capital raising) to a depositary receipt issuer or a clearance service was incompatible with European Union law, and would not be imposed.

Following the UK's departure from the European Union and the expiry of the transition period, the 1.5% stamp duty reserve tax charge on issues of shares to overseas clearance services and depositary receipt issuers is still disapplied, but no assurance can be given that legislation will not be amended in the future to reintroduce the charge.

### Taxation – US residents

The following is a summary, under current law, of the principal UK tax and US federal income tax considerations that are likely to be material to the ownership and disposition of shares or American Depositary Shares ('ADSs') by a holder that is a US holder, as defined below, and who is not resident in the UK for UK tax purposes.

The summary does not purport to be a comprehensive description of all of the tax considerations that may be relevant to a holder of shares or ADSs. In particular, the summary deals only with US holders that hold shares or ADSs as capital assets, and does not address the tax treatment of holders that are subject to special tax rules. These include banks, tax-exempt entities, insurance companies, dealers in securities or currencies, persons that hold shares or ADSs as part of an integrated investment (including a 'straddle' or 'hedge') comprised of a share or ADS and one or more other positions, and persons that own directly or indirectly 10% or more (by vote or value) of the stock of HSBC Holdings. This discussion is based on laws, treaties, judicial decisions and regulatory interpretations in effect on the date hereof, all of which are subject to change.

For the purposes of this discussion, a 'US holder' is a beneficial holder that is a citizen or resident of the United States, a US domestic corporation or otherwise is subject to US federal income taxes on a net income basis in respect thereof.

Holders and prospective purchasers should consult their own advisers regarding the tax consequences of an investment in shares or ADSs in light of their particular circumstances, including the effect of any national, state or local laws.

Any US federal tax advice included in the *Annual Report and Accounts 2020* is for informational purposes only. It was not intended or written to be used, and cannot be used, for the purpose of avoiding US federal tax penalties.

#### Taxation of dividends

Currently, no tax is withheld from dividends paid by HSBC Holdings. For US tax purposes, a US holder must include cash dividends paid on the shares or ADSs in ordinary income on the date that such holder or the ADS depositary receives them, translating dividends paid in UK pounds sterling into US dollars using the exchange rate in effect on the date of receipt. A US holder that elects to receive shares in lieu of a cash dividend must include in ordinary income the fair market value of such shares on the dividend payment date, and the tax basis of those shares will equal such fair market value.

## Additional information

Subject to certain exceptions for positions that are held for less than 61 days, and subject to a foreign corporation being considered a 'qualified foreign corporation' (which includes not being classified for US federal income tax purposes as a passive foreign investment company), certain dividends ('qualified dividends') received by an individual US holder generally will be subject to US taxation at preferential rates. Based on the company's audited financial statements and relevant market and shareholder data, HSBC Holdings was not and does not anticipate being classified as a passive foreign investment company. Accordingly, dividends paid on the shares or ADSs generally should be treated as qualified dividends.

### Taxation of capital gains

Gains realised by a US holder on the sale or other disposition of shares or ADSs normally will not be subject to UK taxation unless at the time of the sale or other disposition the holder carries on a trade, profession or vocation in the UK through a branch or agency or permanent establishment and the shares or ADSs are or have been used, held or acquired for the purposes of such trade, profession, vocation, branch or agency or permanent establishment. Such gains will be included in income for US tax purposes, and will be long-term capital gains if the shares or ADSs were held for more than one year. A long-term capital gain realised by an individual US holder generally will be subject to US tax at preferential rates.

### Inheritance tax

Shares or ADSs held by an individual whose domicile is determined to be the US for the purposes of the United States – United Kingdom Double Taxation Convention relating to estate and gift taxes (the 'Estate Tax Treaty') and who is not for such purposes a national of the UK will not, provided any US federal estate or gift tax chargeable has been paid, be subject to UK inheritance tax on the individual's death or on a lifetime transfer of shares or ADSs except in certain cases where the shares or ADSs (i) are comprised in a settlement (unless, at the time of the settlement, the settlor was domiciled in the US and was not a national of the UK), (ii) are part of the business property of a UK permanent establishment of an enterprise, or (iii) pertain to a UK fixed base of an individual used for the performance of independent personal services. In such cases, the Estate Tax Treaty generally provides a credit against US federal tax liability for the amount of any tax paid in the UK in a case where the shares or ADSs are subject to both UK inheritance tax and to US federal estate or gift tax.

### Stamp duty and stamp duty reserve tax – ADSs

If shares are transferred to a clearance service or American Depositary Receipt ('ADR') issuer (which will include a transfer of shares to the depositary) under the current published HMRC practice, UK stamp duty and/or stamp duty reserve tax will be payable. The stamp duty or stamp duty reserve tax is generally payable on the consideration for the transfer and is payable at the aggregate rate of 1.5%.

The amount of stamp duty reserve tax payable on such a transfer will be reduced by any stamp duty paid in connection with the same transfer.

No stamp duty will be payable on the transfer of, or agreement to transfer, an ADS, provided that the ADR and any separate instrument of transfer or written agreement to transfer remain at all times outside the UK, and provided further that any such transfer or written agreement to transfer is not executed in the UK. No stamp duty reserve tax will be payable on a transfer of, or agreement to transfer, an ADS effected by the transfer of an ADR.

### US backup withholding tax and information reporting

Distributions made on shares or ADSs and proceeds from the sale of shares or ADSs that are paid within the US, or through certain financial intermediaries to US holders, are subject to information reporting and may be subject to a US 'backup' withholding tax. General exceptions to this rule happen when the US holder: establishes that it is a corporation (other than an S corporation) or other exempt holder; or provides a correct taxpayer identification

number, certifies that no loss of exemption from backup withholding has occurred and otherwise complies with the applicable requirements of the backup withholding rules. Holders that are not US taxpayers generally are not subject to information reporting or backup withholding tax, but may be required to comply with applicable certification procedures to establish that they are not US taxpayers in order to avoid the application of such information reporting requirements or backup withholding tax to payments received within the US or through certain financial intermediaries.

---

### Information about the enforceability of judgments made in the US

HSBC Holdings is a public limited company incorporated in England and Wales. Most of the Directors and executive officers live outside the US. As a result, it may not be possible to serve process on such persons or HSBC Holdings in the US or to enforce judgments obtained in US courts against them or HSBC Holdings based on civil liability provisions of the securities laws of the US. There is doubt as to whether English courts would enforce:

- civil liabilities under US securities laws in original actions; or
- judgments of US courts based upon these civil liability provisions.

In addition, awards of punitive damages in actions brought in the US or elsewhere may be unenforceable in the UK. The enforceability of any judgment in the UK will depend on the particular facts of the case as well as the laws and treaties in effect at the time.

---

### Exchange controls and other limitations affecting equity security holders

Other than certain economic sanctions that may be in force from time to time, there are currently no UK laws, decrees or regulations that would prevent the import or export of capital or remittance of distributable profits by way of dividends and other payments to holders of HSBC Holdings' equity securities who are not residents of the UK. There are also no restrictions under the laws of the UK or the terms of the Memorandum and Articles of Association concerning the right of non-resident or foreign owners to hold HSBC Holdings' equity securities or, when entitled to vote, to do so.

## Dividends on the ordinary shares of HSBC Holdings

On 31 March 2020, HSBC announced that, in response to a request from the BoE through the UK's Prudential Regulation Authority ('PRA'), the Board had cancelled the fourth interim

dividend for 2019. We also announced that until the end of 2020 we would make no quarterly or interim dividend payments or accruals in respect of ordinary shares. The dividends approved, per ordinary share, in respect of each of the last five years were:

		First interim	Second interim	Third interim	Fourth interim <sup>1</sup>	Total <sup>2</sup>
2020	\$	-	-	-	0.150	0.150
	£	-	-	-	0.110	0.110
	HK\$	-	-	-	1.163	1.163
2019	\$	0.100	0.100	0.100	-	0.300
	£	0.078	0.080	0.078	-	0.236
	HK\$	0.781	0.782	0.783	-	2.346
2018	\$	0.100	0.100	0.100	0.210	0.510
	£	0.076	0.076	0.078	0.159	0.389
	HK\$	0.785	0.785	0.783	1.648	4.000
2017	\$	0.100	0.100	0.100	0.210	0.510
	£	0.079	0.076	0.076	0.148	0.379
	HK\$	0.780	0.781	0.780	1.647	3.988
2016	\$	0.100	0.100	0.100	0.210	0.510
	£	0.075	0.077	0.080	0.167	0.399
	HK\$	0.776	0.776	0.776	1.631	3.959

1 The interim dividend for 2020 of \$0.15 per ordinary share will be paid on 29 April 2021. The 2020 interim dividend has been translated into pounds sterling and Hong Kong dollars at the closing rate on 31 December 2020.

2 The above dividends approved are accounted for as disclosed in Note 8 on the Financial Statements.

## American Depositary Shares

A holder of HSBC Holdings' American Depositary Shares ('ADSs') may have to pay, either directly or indirectly (via the intermediary through whom their ADSs are held) fees to the Bank of New York

Mellon as depositary. Fees may be paid or recovered in several ways: by deduction from amounts distributed; by selling a portion of distributable property; by deduction from dividend distributions; by directly invoicing the holder; or by charging the intermediaries who act for them. Fees for the holders of the HSBC ADSs include:

For:	HSBC ADS holders must pay:
Each issuance of HSBC ADSs, including as a result of a distribution of shares (including through a stock dividend, stock split or distribution of rights or other property)	\$5.00 (or less) per 100 HSBC ADSs or portion thereof
Each cancellation of HSBC ADSs, including if the deposit agreement terminates	\$5.00 (or less) per 100 HSBC ADSs or portion thereof
Transfer and registration of shares on our share register to/from the holder's name to/from the name of The Bank of New York Mellon or its agent when the holder deposits or withdraws shares	Registration or transfer fees (of which there currently are none)
Conversion of non-US currency to US dollars	Charges and expenses incurred by The Bank of New York Mellon with respect to the conversion
Each cash distribution to HSBC ADS holders	\$0.02 or less per ADS
Transfers of HSBC ordinary shares to the depositary in exchange for HSBC ADSs	Any applicable taxes and/or other governmental charges
Distribution of securities by the depositary to HSBC ADS holders	A fee equivalent to the fee that would be payable if securities distributed to you had been shares and those shares had been deposited for issuance of ADSs
Any other charges incurred by the depositary or its agents for servicing shares or other securities deposited	As applicable

The depositary may generally refuse to provide fee-attracting services until its fees for those services are paid.

The depositary has agreed to reimburse us for expenses we incur, and to pay certain out-of-pocket expenses and waive certain fees, in connection with the administration, servicing and maintenance of our ADS programme. There are limits on the amount of expenses for which the depositary will reimburse us. During the year ended 31 December 2020, the depositary reimbursed, paid and/or waived fees and expenses totalling \$1,171,176 in connection with the administration, servicing and maintenance of the programme.

## Nature of trading market

HSBC Holdings ordinary shares are listed or admitted to trading on the London Stock Exchange ('LSE'), the Hong Kong Stock Exchange ('HKSE'), the Bermuda Stock Exchange and on the New York Stock Exchange ('NYSE') in the form of ADSs. HSBC Holdings maintains its principal share register in England and overseas branch share registers in Hong Kong and Bermuda (collectively, the 'share register'). HSBC Holdings delisted from Euronext Paris on 22 December 2020.

As at 31 December 2020, there were a total of 193,801 holders of record of HSBC Holdings ordinary shares on the share register.

As at 31 December 2020, a total of 19,971,087 of the HSBC Holdings ordinary shares were registered in the HSBC Holdings' share register in the name of 14,330 holders of record with addresses in the US. These shares represented 0.10% of the total HSBC Holdings ordinary shares in issue.

As at 31 December 2020, there were 5,353 holders of record of ADSs holding approximately 102.6m ADSs, representing approximately 513m HSBC Holdings ordinary shares, 5,330 of these holders had addresses in the US, holding approximately 102.5m ADSs, representing 513m HSBC Holdings ordinary shares. At 31 December 2020, approximately 2.48% of the HSBC Holdings ordinary shares were represented by ADSs held by holders of record with addresses in the US.

---

### Memorandum and Articles of Association

The disclosure under the caption 'Memorandum and Articles of Association' contained in Form 20-F for the years ended 31 December 2000, 2001, 2014 and 2018 is incorporated by reference herein.

---

### Differences in HSBC Holdings/New York Stock Exchange corporate governance practices

Under the NYSE's corporate governance rules for listed companies and the applicable rules of the SEC, as a NYSE-listed foreign private issuer, HSBC Holdings must disclose any significant ways in which its corporate governance practices differ from those followed by US companies subject to NYSE listing standards. HSBC Holdings believes the following to be the significant differences between its corporate governance practices and NYSE corporate governance rules applicable to US companies.

US companies listed on the NYSE are required to adopt and disclose corporate governance guidelines. The Listing Rules of the FCA require each listed company incorporated in the UK to include in its annual report and accounts a statement of how it has applied the principles of The UK Corporate Governance Code issued by the Financial Reporting Council and a statement as to whether or not it has complied with the code provisions of The UK Corporate Governance Code throughout the accounting period covered by the annual report and accounts. A company that has not complied with the code provisions, or complied with only some of the code provisions or (in the case of provisions whose requirements are of a continuing nature) complied for only part of an accounting period covered by the report, must specify the code provisions with which it has not complied, and (where relevant) for which part of the reporting period such non-compliance continued, and give reasons for any non-compliance. As stated above, HSBC Holdings complied throughout 2020 with the applicable code provisions of The UK Corporate Governance Code. The UK Corporate Governance Code does not require HSBC Holdings to disclose the full range of corporate governance guidelines with which it complies.

Under NYSE standards, companies are required to have a nominating/corporate governance committee composed entirely of directors determined to be independent in accordance with the NYSE's corporate governance rules. All of the members of the Nomination Committee during 2020 were independent non-executive Directors, as determined in accordance with the UK Corporate Governance Code. The terms of reference of our Nomination Committee, which comply with the UK Corporate Governance Code, require a majority of members to be independent non-executive Directors. In addition to identifying individuals qualified to become Board members, a nominating/corporate governance committee must develop and recommend to the Board a set of corporate governance principles. The Nomination Committee's terms of reference do not require it to develop and recommend corporate governance principles for HSBC Holdings, as HSBC Holdings is subject to the corporate governance principles of The UK Corporate Governance Code. The Board of Directors is responsible under its terms of reference for the development and review of Group policies and practices on corporate governance.

Under the NYSE standards, companies are required to have a compensation committee composed entirely of directors determined to be independent in accordance with the NYSE's corporate governance rules. All of the members of the Group Remuneration Committee during 2020 were independent non-executive Directors, as determined in accordance with the UK Corporate Governance Code. The terms of reference of our Group Remuneration Committee, which comply with the UK Corporate Governance Code, require at least three members to be independent non-executive Directors. A compensation committee must review and approve corporate goals and

objectives relevant to chief executive officer compensation and evaluate a chief executive officer's performance in light of these goals and objectives. The Group Remuneration Committee's terms of reference require it to review and approve performance-based remuneration of the executive Directors by reference to corporate goals and objectives that are set by the Board of Directors.

Pursuant to NYSE listing standards, non-management directors must meet on a regular basis without management present and independent directors must meet separately at least once per year.

The Group Chairman meets with the independent non-executive Directors without the executive Directors in attendance after each Board meeting and otherwise, as necessary. HSBC Holdings' practice, in this regard, complies with The UK Corporate Governance Code.

In accordance with the requirements of The UK Corporate Governance Code, HSBC Holdings discloses in its Annual Report and Accounts how the Board, its committees and the Directors are evaluated (on page 308) and provides extensive information regarding Directors' compensation in the Directors' remuneration report (on page 271). The terms of reference of HSBC Holdings' Group Audit, Group Nomination, Group Remuneration and Group Risk Committees are available at [www.hsbc.com/who-we-are/leadership-and-governance/board-committees](http://www.hsbc.com/who-we-are/leadership-and-governance/board-committees).

NYSE listing standards require US companies to adopt a code of business conduct and ethics for directors, officers and employees, and promptly disclose any waivers of the code for directors or executive officers.

In 2020, the Board endorsed the Statement of Business Principles and Code of Conduct, which, pursuant to the requirements of the Sarbanes-Oxley Act, incorporates the Sarbanes-Oxley code of ethics (the "Sarbanes-Oxley Principles") applicable to the Group Chief Executive, as the principal executive officer, and to the Group Chief Financial Officer and Group Chief Accounting Officer. The Statement of Business Principles and Code of Conduct applies to the employees of all our companies. The Statement of Business Principles and Code of Conduct is available on [www.hsbc.com/who-we-are/esg-and-responsible-business/our-conduct](http://www.hsbc.com/who-we-are/esg-and-responsible-business/our-conduct) or from the Group Company Secretary and Chief Governance Officer at 8 Canada Square, London E14 5HQ. During 2020, HSBC Holdings granted no waivers from its code of ethics.

Under NYSE listing rules applicable to US companies, independent directors must comprise a majority of the board of directors. Currently, more than three-quarters of HSBC Holdings' Directors are independent.

Under The UK Corporate Governance Code, the HSBC Holdings Board determines whether a Director is independent in character and judgement and whether there are relationships or circumstances that are likely to affect, or could appear to affect, the Director's judgement. Under the NYSE rules, a director cannot qualify as independent unless the board affirmatively determines that the director has no material relationship with the listed company; in addition, the NYSE rules prescribe a list of circumstances in which a director cannot be independent. The UK Corporate Governance Code requires a company's board to assess director independence by affirmatively concluding that the director is independent of management and free from any business or other relationship that could materially interfere with the exercise of independent judgement. Lastly, a chief executive officer of a US company listed on the NYSE must annually certify that he or she is not aware of any violation by the company of NYSE corporate governance standards. In accordance with NYSE listing rules applicable to foreign private issuers, HSBC Holdings' Group Chief Executive is not required to provide the NYSE with this annual compliance certification. However, in accordance with rules applicable to both US companies and foreign private issuers, the Group Chief Executive is required promptly to notify the NYSE in writing after any executive officer becomes aware

of any material non-compliance with the NYSE corporate governance standards applicable to HSBC Holdings.

governance standards, similar to the affirmations required of NYSE-listed US companies.

HSBC Holdings is required to submit annual and interim written affirmations of compliance with applicable NYSE corporate

---

## Glossary of accounting terms and US equivalents

<b>Accounting term</b>	<b>US equivalent or brief description</b>
Accounts	Financial Statements
Articles of Association	Articles of incorporation
Called up share capital	Shares issued and fully paid
Creditors	Payables
Debtors	Receivables
Deferred tax	Deferred income tax
Finance lease	Capital lease
Freehold	Ownership with absolute rights in perpetuity
Interests in associates and joint ventures	Interests in entities over which we have significant influence or joint control, which are accounted for using the equity method
Loans and advances	Loans
Loan capital	Long-term debt
Nominal value	Par value
One-off	Non-recurring
Ordinary shares	Common stock
Overdraft	A line of credit, contractually repayable on demand unless a fixed-term has been agreed, established through a customer's current account
Preference shares	Preferred stock
Premises	Property
Provisions	Liabilities of uncertain timing or amount
Share premium account	Additional paid-in capital
Shares in issue	Shares outstanding
Write-offs	Charge-offs

## Additional information

### Reconciliations

Form 20-F Item Number and Caption	Location	Page
PART1		
1. Identity of Directors, Senior Management and Advisers	Not required for Annual Report	—
2. Offer statistics and Expected Timetable	Not required for Annual Report	—
3. Key information		
A. Selected Financial Data	Financial review: Consolidated income statement, Consolidated balance sheet	78,84
	Shareholder Information	406
	Note 8 on the Financial Statements - Dividends	345,346
	Note 9 on the Financial Statements - Earnings per share	346
B. Capitalisation and Indebtedness	Not required for Annual Report	—
C. Reasons for the Offer and use of Proceeds	Not required for Annual Report	—
D. Risk Factors	Risk Review	146-157
4. Information on the Company		
A. History and Development of the Company	Shareholder information	408,418
	Strategic Report	2-41
	ESG Review	42-75
	Financial Review	76-130
	Risk Review	131-236
	Report of the Directors: Corporate Governance Report	237-309
B. Business review	Strategic Report	2-41
	Financial Review	76-130
	Note 10 on the Financial Statements - Segmental analysis	347-349
C. Organisational Structure	Strategic Report	2-41
	Report of the Directors: Corporate Governance Report - Principal subsidiaries	250
	Note 19 on the Financial Statements - Investments in subsidiaries	371
	Note 19 on the Financial Statements - HSBC Holdings' subsidiaries, joint ventures and associates	371
D. Property, Plants and Equipment	Not Applicable	—
4 A..Unresolved Staff Comments	Not Applicable	—
5. Operating and Financial Review and Prospects		
A. Operating Results	Strategic Report	2-41
	Financial Review	76-130
	Risk Review	131-236
	Note 15 on the Financial Statements - Derivatives	359-363
B. Liquidity and Capital Resources	Financial Review - Loan maturity and interest rate sensitivity analysis	95
	Risk Review - Capital and Liquidity Risk	211-224
	Risk Review - Insurance Manufacturing Operations Risk	232-236
	Note 29 on the Financial Statements - Maturity analysis of assets, liabilities and off-balance sheet commitments	382-387
	Note 32 on the Financial Statements - Contingent liabilities, contractual commitments and guarantees	390-391
C. Research and Development, Patents and Licences, etc.	Not Applicable	—
D. Trend Information	Strategic Report	2-41
	Financial Review	76-130
	Risk Review	131-236
E. Off-Balance Sheet Arrangements	Note 29 on the Financial Statements - Maturity analysis of assets, liabilities and off-balance sheet commitments	382-387
	Note 30 on the Financial Statements - Offsetting of financial assets and financial liabilities	387-388
	Note 32 on the Financial Statements - Contingent liabilities, contractual commitments and guarantees	390-391
F. Tabular disclosure of Contractual Obligations	Financial Review - Contractual obligations	95
6. Directors, Senior Management and Employees		
A. Directors and Senior Management	Report of the Directors: Corporate Governance Report	237-309
B. Compensation	Report of the Directors: Corporate Governance Report - Directors' Remuneration Report	271-298
	Note 5 on the Financial Statements - Employee compensation and benefits	337-343
	Note 35 on the Financial Statements - Related party transactions	395-396
C. Board Practices	Report of the Directors: Corporate Governance Report	237-309
	Report of the Directors: Corporate Governance Report - Directors' Remuneration Report	271-298
D. Employees	Report of the Directors: Corporate Governance Report	237-309
	Strategic Report	2-41
	ESG Review - Employees	62-69
	Note 5 on the Financial Statements - Employee compensation and benefits	337-343
	Note 35 on the Financial Statements - Related party transactions	395-396
E. Share Ownership	Report of the Directors: Corporate Governance Report	237-309
	Report of the Directors: Corporate Governance Report - Directors' Remuneration Report	271-298
	Note 5 on the Financial Statements - Employee compensation and benefits	337-343
	Note 31 on the Financial Statements - Called up share capital and other equity instruments	388-390

Form 20-F Item Number and Caption	Location	Page
7. Major Shareholders and Related Party Transactions		
A. Major Shareholders	Report of the Directors: Corporate Governance Report	237-309
B. Related Party Transactions	Note 35 on the Financial Statements - Related party transactions	395-396
C. Interests of Experts and Counsel	Not required for Annual Report	—
8. Financial Information		
A. Consolidated Statements and Other Financial Information	Financial Statements	314-405
	Report of the Independent Registered Public Accounting Firm to the Board of Directors and Shareholders of HSBC Holdings plc	311-313
	Shareholder Information	406
B. Significant Changes	Note 36 on the Financial Statements - Events after the Balance Sheet date	397
9. The Offer and Listing		
A. Offer and Listing Details	Shareholder Information	407-408,411
B. Plan of Distribution	Not required for Annual Report	—
C. Markets	Shareholder Information	411
D. Exchange Controls	Not required for Annual Report	—
E. Taxation	Not required for Annual Report	—
F. Dividends and Paying Agents	Not required for Annual Report	—
10. Additional Information		
A. Share Capital	Not required for Annual Report	—
B. Memorandum and Articles of Association	Shareholder Information	412
C. Material Contracts	Report of the Directors: Corporate Governance Report - Directors' Remuneration Report	281
	Note 34 on the Financial Statements - Legal proceedings and regulatory matters	391-395
D. Exchange Controls	Shareholder Information	410
E. Taxation	Shareholder Information	409-410
F. Dividends and Paying Agents	Not required for Annual Report	—
G. Statements by Experts	Not required for Annual Report	—
H. Documents on Display	Shareholder Information	407-408
I. Subsidiary Information	Not applicable	—
11. Quantitative and Qualitative Disclosures About Market Risk	Risk Review - Market risk	224-228
	Note 15 on the Financial Statements - Derivatives	359-363
	Note 16 on the Financial Statements - Financial investments	364-366
12. Description of Securities Other than Equity Securities		
A. Debt Securities	Not required for Annual Report	—
B. Warrants and Rights	Not required for Annual Report	—
C. Other Securities	Not required for Annual Report	—
D. American Depository Shares	Taxation of shares and dividends	409-410
	Shareholder information	407-408
PART II		
13. Defaults, Dividends Arrearages and Delinquencies	Not applicable	—
14. Material Modifications to the Rights of Securities Holders and Use of Proceeds	Not applicable	—
15. Controls and Procedures	Report of Independent Registered Public Accounting Firm to the Board of Directors and Shareholders of HSBC Holdings plc	311-313
	Financial Review: Other Information	121-130
16A. Audit Committee Financial Expert	Report of the Directors: Corporate Governance	258-262
16B. Code of Ethics	Shareholder Information	411-413
16C. Principal Accountant Fees and Services	Report of the Directors: Corporate Governance	258-262
16D. Exemptions from the Listing Standards for Audit Committees	Not applicable	—
16E. Purchases of Equity Securities by the Issuer and Affiliated Purchasers	Report of the Directors: Corporate Governance	299-301
16F. Change in Registrant's Certifying Accountant	Not applicable	—
16G. Corporate Governance	Shareholder Information	411-413
PART III		
17. Financial Statements	Not applicable	—
18. Financial Statements	Financial Statements	314-405
19. Exhibits (including Certifications)		*

## Additional information

### Abbreviations

#### Currencies

£	British pound sterling
CA\$	Canadian dollar
€	Euro
HK\$	Hong Kong dollar
MXN	Mexican peso
RMB	Chinese renminbi
SGD	Singapore dollar
\$	United States dollar

#### A

ABS <sup>1</sup>	Asset-backed security
ADR	American Depositary Receipt
ADS	American Depositary Share
AGM	Annual General Meeting
AI	Artificial intelligence
AIEA	Average interest-earning assets
ALCM	Asset, Liability and Capital Management
ALCO	Asset and Liability Management Committee
AML	Anti-money laundering
AML DPA	Five-year deferred prosecution agreement with the US Department of Justice, entered into in December 2012
ARCC	Audit and Risk Committee Chairs' Forum
AT1	Additional tier 1

#### B

Basel Committee	Basel Committee on Banking Supervision
Basel II <sup>1</sup>	2006 Basel Capital Accord
Basel III <sup>1</sup>	Basel Committee's reforms to strengthen global capital and liquidity rules
BoCom	Bank of Communications Co., Limited, one of China's largest banks
BoE	Bank of England
Bps <sup>1</sup>	Basis points. One basis point is equal to one-hundredth of a percentage point
BVI	British Virgin Islands

#### C

CAPM	Capital asset pricing model
CDS <sup>1</sup>	Credit default swap
CEA	Commodity Exchange Act (US)
CET1 <sup>1</sup>	Common equity tier 1
CGUs	Cash-generating units
CMB	Commercial Banking, a global business
CMC	Capital maintenance charge
CODM	Chief Operating Decision Maker
COSO	2013 Committee of the Sponsors of the Treadway Commission (US)
CP <sup>1</sup>	Commercial paper
CRD IV <sup>1</sup>	Capital Requirements Regulation and Directive
CRR <sup>1</sup>	Customer risk rating
CRR II <sup>1</sup>	Revised Capital Requirements Regulation and Directive, as implemented
CSA	Credit support annex
CVA <sup>1</sup>	Credit valuation adjustment

#### D

Deferred Shares	Awards of deferred shares define the number of HSBC Holdings ordinary shares to which the employee will become entitled, generally between one and seven years from the date of the award, and normally subject to the individual remaining in employment
Dodd-Frank	Dodd-Frank Wall Street Reform and Consumer Protection Act (US)
DoJ	US Department of Justice
DPD	Days past due
DPF	Discretionary participation feature of insurance and investment contracts
DVA <sup>1</sup>	Debt valuation adjustment

#### E

EAD <sup>1</sup>	Exposure at default
EBA	European Banking Authority
EC	European Commission

ECB	European Central Bank
ECL	Expected credit losses. In the income statement, ECL is recorded as a change in expected credit losses and other credit impairment charges. In the balance sheet, ECL is recorded as an allowance for financial instruments to which only the impairment requirements in IFRS 9 are applied

EEA	European Economic Area
Eonia	Euro Overnight Index Average
EPS	Earnings per ordinary share
ESG	Environmental, social and governance
€STR	Euro short-term rate
EU	European Union
Euribor	Euro interbank offered rate
EVE	Economic value of equity

#### F

FAST-Infra	Finance to Accelerate the Sustainable Transition-Infrastructure
FCA	Financial Conduct Authority (UK)
FFVA	Funding fair value adjustment estimation methodology on derivative contracts
FPA	Fixed pay allowance
FRB	Federal Reserve Board (US)
FRC	Financial Reporting Council
FSB	Financial Stability Board
FSCS	Financial Services Compensation Scheme
FTE	Full-time equivalent staff
FTSE	Financial Times Stock Exchange index
FVOCI <sup>1</sup>	Fair value through other comprehensive income
FVPL <sup>1</sup>	Fair value through profit or loss
FX DPA	Three-year deferred prosecution agreement with the US Department of Justice, entered into in January 2018

#### G

GAAP	Generally accepted accounting principles
GAC	Group Audit Committee
GBM	Global Banking and Markets, a global business
GDP	Gross domestic product
GDPR	General Data Protection Regulation
GEC	Group Executive Committee
GLCM	Global Liquidity and Cash Management
Global Markets	HSBC's capital markets services in Global Banking and Markets
GMP	Guaranteed minimum pension
GPSP	Group Performance Share Plan
GRC	Group Risk Committee
Group	HSBC Holdings together with its subsidiary undertakings
GTRF	Global Trade and Receivables Finance

#### H

Hang Seng Bank	Hang Seng Bank Limited, one of Hong Kong's largest banks
HKEx	The Stock Exchange of Hong Kong Limited
HKMA	Hong Kong Monetary Authority
HMRC	HM Revenue and Customs
HNAH	HSBC North America Holdings Inc.
Holdings ALCO	HSBC Holdings Asset and Liability Management Committee
Hong Kong	Hong Kong Special Administrative Region of the People's Republic of China
HQLA	High-quality liquid assets
HSBC	HSBC Holdings together with its subsidiary undertakings
HSBC Bank	HSBC Bank plc, also known as the non-ring-fenced bank
HSBC Bank Middle East	HSBC Bank Middle East Limited
HSBC Bank USA	HSBC Bank USA, N.A., HSBC's retail bank in the US
HSBC Canada	The sub-group, HSBC Bank Canada, HSBC Trust Company Canada, HSBC Mortgage Corporation Canada and HSBC Securities Canada, consolidated for liquidity purposes
HSBC Continental Europe	HSBC Continental Europe
HSBC Finance	HSBC Finance Corporation, the US consumer finance company (formerly Household International, Inc.)
HSBC Holdings	HSBC Holdings plc, the parent company of HSBC



HSBC Private Bank (Suisse)	HSBC Private Bank (Suisse) SA, HSBC's private bank in Switzerland
HSBC UK	HSBC UK Bank plc, also known as the ring-fenced bank
HSBC USA	The sub-group, HSBC USA Inc (the holding company of HSBC Bank USA) and HSBC Bank USA, consolidated for liquidity purposes
HSI	HSBC Securities (USA) Inc.
HSSL	HSBC Securities Services (Luxembourg)
HTIE	HSBC International Trust Services (Ireland) Limited
<b>I</b>	
IAS	International Accounting Standards
IASB	International Accounting Standards Board
IBA	ICE Benchmark Administration
Ibor	Interbank offered rate
ICAAP	Internal capital adequacy assessment process
IFRSs	International Financial Reporting Standards
ILAAP	Internal liquidity adequacy assessment process
IRB <sup>1</sup>	Internal ratings-based
ISDA	International Swaps and Derivatives Association
<b>K</b>	
KMP	Key Management Personnel
<b>L</b>	
LCR	Liquidity coverage ratio
LFRR	Liquidity and funding risk management framework
LGBT+	Lesbian, gay, bisexual and transgender. The plus sign denotes other non-mainstream groups on the spectrums of sexual orientation and gender identity
LGD <sup>1</sup>	Loss given default
Libor	London interbank offered rate
LTI	Long-term incentive
LTV <sup>1</sup>	Loan-to-value ratio
<b>M</b>	
Mainland China	People's Republic of China excluding Hong Kong and Macau
MENA	Middle East and North Africa
MREL	Minimum requirement for own funds and eligible liabilities
MRT <sup>1</sup>	Material Risk Taker
<b>N</b>	
Net operating income	Net operating income before change in expected credit losses and other credit impairment charges/Loan impairment charges and other credit provisions, also referred to as revenue
NII	Net interest income
NIM	Net interest margin
NSFR	Net stable funding ratio
NYSE	New York Stock Exchange
<b>O</b>	
OCI	Other comprehensive income
OECD	Organisation of Economic Co-operation and Development
OFAC	Office of Foreign Assets Control
OTC <sup>1</sup>	Over-the-counter
<b>P</b>	
PACTA	Paris Agreement Capital Transition Assessment
PBT	Profit before tax
PD <sup>1</sup>	Probability of default
Performance shares <sup>1</sup>	Awards of HSBC Holdings ordinary shares under employee share plans that are subject to corporate performance conditions
Ping An	Ping An Insurance (Group) Company of China, Ltd, the second-largest life insurer in the PRC
POCI	Purchased or originated credit-impaired financial assets
PPI	Payment protection insurance
PRA	Prudential Regulation Authority (UK)
PRC	People's Republic of China
Principal plan	HSBC Bank (UK) Pension Scheme
PVIF	Present value of in-force long-term insurance business and long-term investment contracts with DPF
PwC	The member firms of the PwC network, including PricewaterhouseCoopers LLP
<b>R</b>	
RAS	Risk appetite statement

Repo <sup>1</sup>	Sale and repurchase transaction
Reverse repo	Security purchased under commitments to sell
RFB	Ring-fenced bank
RFR	Risk-free rate
RMBS	Residential mortgage backed security
RMM	Group Risk Management Meeting
RNIV	Risk not in VaR
RoE	Return on average ordinary shareholders' equity
RoTE	Return on average tangible equity
RWA <sup>1</sup>	Risk-weighted asset
<b>S</b>	
SABB	The Saudi British Bank
SAPS	Self-administered pension scheme
SDG	United Nation's Sustainable Development Goals
SE <sup>1</sup>	Structured entity
SEC	Securities and Exchange Commission (US)
ServCo group	Separately incorporated group of service companies planned in response to UK ring-fencing proposals
Sibor	Singapore interbank offered rate
SIC	Securities investment conduit
SID	Senior Independent Director
SME	Small and medium-sized enterprise
SOFR	Secured Overnight Financing Rate
Solitaire	Solitaire Funding Limited, a special purpose entity managed by HSBC
Sonia	Sterling Overnight Index Average
SPE <sup>1</sup>	Special purpose entity
<b>T</b>	
T1	Tier 1
T2	Tier 2
TCFD <sup>1</sup>	Task Force on Climate-related Financial Disclosures
TLAC <sup>1</sup>	Total loss-absorbing capacity
TRLibor	Turkish Lira interbank offered rate
TSR <sup>1</sup>	Total shareholder return
<b>U</b>	
UAE	United Arab Emirates
UK	United Kingdom
UN	United Nations
US	United States of America
<b>V</b>	
VaR <sup>1</sup>	Value at risk
VIU	Value in use
<b>W</b>	
WPB	Wealth and Personal Banking, a global business

<sup>1</sup> A full definition is included in the glossary to the Annual Report and Accounts 2020 which is available at [www.hsbc.com/investors](http://www.hsbc.com/investors).

## Additional information

### HSBC Holdings plc

Incorporated in England on 1 January 1959 with limited liability under the UK Companies Act  
Registered in England: number 617987

### Registered Office and Group Head Office

8 Canada Square  
London E14 5HQ  
United Kingdom  
Telephone: 44 020 7991 8888  
Facsimile: 44 020 7992 4880  
Web: [www.hsbc.com](http://www.hsbc.com)

### Registrars

#### *Principal Register*

Computershare Investor Services PLC  
The Pavilions  
Bridgwater Road  
Bristol BS99 6ZZ  
United Kingdom  
Telephone: 44 0370 702 0137  
Email: [via website](http://www.investorcentre.co.uk/contactus)  
Web: [www.investorcentre.co.uk/contactus](http://www.investorcentre.co.uk/contactus)

#### *Hong Kong Overseas Branch Register*

Computershare Hong Kong Investor Services Limited  
Rooms 1712-1716, 17th floor  
Hopewell Centre  
183 Queen's Road East  
Hong Kong  
Telephone: 852 2862 8555  
Email: [hsbc.ecom@computershare.com.hk](mailto:hsbc.ecom@computershare.com.hk)  
Web: [www.investorcentre.com/hk](http://www.investorcentre.com/hk)

#### *Bermuda Overseas Branch Register*

Investor Relations Team  
HSBC Bank Bermuda Limited  
37 Front Street  
Hamilton HM11  
Bermuda  
Telephone: 1 441 299 6737  
Email: [hbbm.shareholder.services@hsbc.bm](mailto:hbbm.shareholder.services@hsbc.bm)  
Web: [www.investorcentre.com/bm](http://www.investorcentre.com/bm)

#### *ADR Depositary*

The Bank of New York Mellon  
Shareowner Services  
PO Box 505000  
Louisville, KY 40233-5000  
USA  
Telephone (US): 1 877 283 5786  
Telephone (International): 1 201 680 6825  
Email: [shrrelations@cpushareownerservices.com](mailto:shrrelations@cpushareownerservices.com)  
Web: [www.mybnymdr.com](http://www.mybnymdr.com)

### Corporate Brokers

Morgan Stanley & Co. International plc  
25 Cabot Square  
London E14 4QA  
United Kingdom

Bank of America Securities  
2 King Edward Street  
London EC1A 1HQ  
United Kingdom

HSBC Bank plc  
8 Canada Square  
London E14 5HQ  
United Kingdom

© Copyright HSBC Holdings plc 2021

All rights reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of HSBC Holdings plc

Published by Global Finance, HSBC Holdings plc, London

Designed by Superunion, London (Strategic Report and ESG review) and by Global Finance with Superunion (rest of Annual Report and Accounts)

Item 19. Exhibits

Documents filed as exhibits to this Form 20-F:

Exhibit Number	Description
1.1	Memorandum and Articles of Association of HSBC Holdings plc (incorporated by reference to Exhibit 1.1 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on February 20, 2019).
2.1	Description of rights of each class of securities registered under Section 12 of the Securities Exchange Act of 1934.
4.1	Undertaking by HSBC Holdings plc to the Financial Services Authority (incorporated by reference to Exhibit 99.3 to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on December 12, 2012), as replaced by the Direction by the Financial Conduct Authority to HSBC Holdings plc (incorporated by reference to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on April 12, 2013), as further replaced by the Direction by the Financial Conduct Authority to HSBC Holdings plc dated July 7, 2020.
4.2	Cease and Desist Order issued by the Board of Governors of the United States Federal Reserve System in the Matter of HSBC Holdings plc (incorporated by reference to Exhibit 99.5 to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on December 12, 2012).
4.3	Settlement Agreement between HSBC Holdings plc, and the United States Department of the Treasury's Office of Foreign Assets Control (incorporated by reference to Exhibit 99.7 to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on December 12, 2012).
4.4	Consent Order dated December 11, 2012, of the Comptroller of the Currency of the United States in the Matter of HSBC Bank USA, N.A. (incorporated by reference to Exhibit 99.8 to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on December 12, 2012).
4.5	Agreement by and between HSBC Bank USA, N.A. McLean, Virginia and the Office of the Comptroller of the Currency dated December 11, 2012 (incorporated by reference to Exhibit 99.10 to HSBC Holdings plc's Form 6-K filed with the Securities and Exchange Commission on December 12, 2012).
4.6	Deferred Prosecution Agreement dated January 17, 2018, between HSBC Holdings plc and the United States Department of Justice (incorporated by reference to Exhibit 4.7 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on February 20, 2018).
4.7	Service Agreement dated June 25, 2018 between HSBC Holdings plc and Ewen Stevenson (incorporated by reference to Exhibit 4.8 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on February 20, 2019).
4.8	Engagement Letter dated March 12, 2017, between HSBC Holdings plc and Mark Tucker (incorporated by reference to Exhibit 4.11 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on February 20, 2018).
4.9	Service agreement dated March 18, 2020 between HSBC Holdings plc and Noel Quinn.
8.1	Subsidiaries of HSBC Holdings plc (set forth in Note 37 to the consolidated financial statements included in this Form 20-F).
12.1	Certificate of HSBC Holdings plc's Group Chief Executive pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
12.2	Certificate of HSBC Holdings plc's Group Finance Director pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
13.1	Annual Certification of HSBC Holdings plc's Group Chief Executive and Group Finance Director pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
15.1	Consent of PricewaterhouseCoopers LLP
15.2	Pages of HSBC Holdings plc's 2000 Form 20-F/A dated February 26, 2001 relating to the Memorandum and Articles of Association of HSBC Holdings plc (incorporated by reference to Exhibit 14.2 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on March 20, 2006).
15.3	Page of HSBC Holdings plc's 2001 Form 20-F dated March 13, 2002 relating to the Memorandum and Articles of Association of HSBC Holdings plc (incorporated by reference to Exhibit 14.3 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on March 20, 2006).
15.4	Page of HSBC Holdings plc's 2018 Form 20-F dated February 20, 2019 relating to the Memorandum and Articles of Association of HSBC Holdings plc (incorporated by reference to Exhibit 15.4 to HSBC Holdings plc's Form 20-F filed with the Securities and Exchange Commission on February 19, 2020).
15.5	Consent of C G Singer.

SIGNATURES

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

HSBC Holdings plc

By: /s/ E J Stevenson

---

Name: E J Stevenson

Title: Group Chief Financial Officer

Date: 24 February 2021



