

Annual Report and Accounts 2016

Headlines

- Profit before income tax expense was \$715m for the year ended 31 December 2016, an increase of \$98m or 15.9%, compared with 2015.
- Profit attributable to the common shareholder was \$486m for the year ended 31 December 2016, an increase of \$72m or 17.4%, compared with 2015.
- Return on average common equity was 10.6% for the year ended 31 December 2016 compared with 9.6% for 2015.
- The cost efficiency ratio was 60.4% for the year ended 31 December 2016 compared with 58.2% for 2015.
- Total assets were \$94.7bn at 31 December 2016 compared with \$94.0bn at 31 December 2015.
- Common equity tier 1 capital ratio was 10.5%, the tier 1 ratio was 12.5% and the total capital ratio was 13.5% at 31 December 2016.

Basis of preparation of financial information

HSBC Bank Canada ('the bank', 'we', 'our') is an indirectly wholly-owned subsidiary of HSBC Holdings plc ('HSBC Holdings'). Throughout Management's Discussion and Analysis ('MD&A'), the HSBC Holdings Group is defined as the 'HSBC Group' or the 'Group'. The MD&A is dated 16 February 2017, the date that our consolidated financial statements and MD&A for the year ended 31 December 2016 were approved by our Board of Directors ('the Board').

The bank has prepared its consolidated financial statements in accordance with International Financial Reporting Standards ('IFRS') and accounting guidelines as issued by the Office of the Superintendent of Financial Institutions Canada ('OSFI'), as required under Section 308(4) of the *Bank Act*. The information in this MD&A

is derived from our consolidated financial statements or from the information used to prepare them. The abbreviations '\$m' and '\$bn' represent millions and billions of Canadian dollars, respectively. All tabular amounts are in millions of dollars except where otherwise stated.

The references to 'notes' throughout this MD&A refer to notes on the consolidated financial statements for the year ended 31 December 2016.

Outstanding securities data. Note 26 contains details of the number of preferred and common shares issued and outstanding at 31 December 2016. Subsequent to that date and up to the date of this MD&A, there have been no issues of any form of equity securities.

Table of contents

2	Message from the President and Chief Executive Officer	28	Changes in accounting policy during 2016
3	Management's Discussion and Analysis	28	Future accounting developments
3	Who we are	30	Off-balance sheet arrangements
3	Our strategic priorities	30	Disclosure controls and procedures and internal control over financial reporting
6	Financial summary	31	Related party transactions
7	Use of non-IFRS financial measures	31	Risk management
8	Financial performance 2016	54	Factors that may affect future results
13	Movement in financial position	56	Capital
14	Global businesses	58	Dividends
20	Fourth quarter 2016 financial performance	59	Statement of Management's Responsibility for Financial Information
24	Summary quarterly performance	60	Independent Auditor's Report
25	Economic outlook for 2017	61	Consolidated Financial Statements
26	Critical accounting estimates and judgments	67	Notes on the Consolidated Financial Statements

Message from the President and Chief Executive Officer

Events of 2016 have challenged our assumptions about the future. Globally, there are more signs of protectionism and economic growth remained muted in both developed and emerging markets. Oil and gas prices saw some recovery from the lows of 2015, but global supply and demand imbalances continued to pressure producers and exporters. Going into 2017, a cyclical recovery and faith in a shift in fiscal policy in the United States are driving market optimism, but long term geopolitical and policy risks are high and the rise in global inflation is likely to prove short-lived.

This was my first full year as CEO. After a difficult end to 2015, HSBC Bank Canada demonstrated that its fundamental strengths remain unchanged and our performance improved throughout the year. As a result, 2016 profit before tax was \$715 million, an increase of close to 16% over the previous year. Loan impairment charges were down significantly, both as a result of the recovery in the oil and gas sector and our team's actions to proactively manage the portfolio.

This, along with rigorous cost control and efficiency initiatives, helped our largest business, Commercial Banking, generate a 29% year over year increase in PBT. In Global Banking and Markets, our rates business and increased equity capital market fees drove a 63% increase in PBT. And in our Retail Banking and Wealth Management business, revenue was up as a result of sustainable and balanced growth in residential mortgages and deposits, and higher wealth balances in the first half of the year. To adapt this, our smallest business, to the changing demands of our customers especially for more digital access, we are making significant long term investments in products and services and profit was reduced this year as a result.

Along with our strong financial performance, we are proud of other achievements this year: HSBC InvestDirect was recognized for service excellence for the 5th year in a row by DALBAR, and we were named by Corporate Knights as one of the Best Corporate Citizens in Canada – also for the 5th consecutive year. Finally, as an organization with 150 years of history connecting markets around the world, diversity is part of our DNA so I was particularly pleased that we were recognized by the Government of Canada's Employment Equity Achievement Awards for our outstanding commitment in this area.

Amidst continuing economic and political uncertainty, it might be tempting for some businesses to hunker down to wait for better days. We aren't doing that. Canada is a priority growth market for the HSBC Group, and so we are investing on virtually every front to better serve our Canadian customers. Over the past several years, we have worked to reduce our risk weighted assets, manage our costs and safeguard our customers, our business and the financial services industry against financial crime. This work will continue. We also made, and continue to make, significant investments to build our business in ways that will make banking faster, easier and safer in response to changing customer preferences and to capture greater value from HSBC's international network.

Some of this work can be seen in our new online banking platform, in our new Jade by HSBC Premier, and our corporate credit card – all launched late in 2016. After more than 35 years with HSBC, I am excited about all that's to come so stay tuned for more in 2017.

We believe international trade is a force for good that has long been, and will remain, key to human progress. Expanding trade and investment beyond our traditional trade partners is essential for the Canadian economy to grow and Canadians to prosper. So, at a time when global trade policy changes threaten to increase the cost of trade, we will continue to look for ways of making trade finance cheaper, faster, simpler and more secure for Canadian businesses – building on opportunities in the North American and Canada/China trade corridors, and from renminbi internationalization, green finance and project and export finance.

And, as we have been for the last 150 years, through both stable and turbulent times, we will be here to help our customers to navigate both at home and as they move beyond our borders in realizing their ambitions.

With appreciation from all of us at HSBC Bank Canada,



Sandra Stuart
President and Chief Executive Officer
 HSBC Bank Canada

Vancouver, Canada
 16 February 2017

Management's Discussion and Analysis

Who we are

HSBC Bank Canada, a subsidiary of HSBC Holdings plc, is the leading international bank in the country. We help companies and individuals across Canada to do business and manage their finances internationally through our Commercial Banking, Global Banking and Markets, and Retail Banking and Wealth Management businesses. No international bank has our Canadian presence and no domestic bank has our international reach.

Canada is a priority market for the HSBC Group and a key player in HSBC's work to support customers and drive growth, leveraging its footprint across all key trade corridors including in North America alongside the United States and Mexico, and with China.

The HSBC Group is one of the world's largest banking and financial services groups with assets of US\$2,375bn at 31 December 2016. HSBC serves customers worldwide through an unparalleled international network of around 4,000 offices in 70 countries and territories in Europe, Asia, North and Latin America, and the Middle East and North Africa.

Our strategic priorities

HSBC Connecting Customers to Opportunities
HSBC Bank Canada is an integral part of one of the most international banking and financial services organizations in the world.

The value of our international network comes from our connections to the people and companies that drive economic activity. We provide products and services to meet diverse financial needs – from purchasing a music download to financing the construction of an international airport. Our relationships reflect the geographic reach of our network and the range of customers we support.

Our network of customers provides us with significant insight into trade and capital flows across supply chains. When we bank customers on both sides of a transaction, we can help them overcome obstacles and manage risk more effectively. We are uniquely positioned to be the bridge between customers, both large and small, around the world.

Throughout HSBC's history we have been where the growth is, connecting customers to opportunities, enabling businesses to thrive and economies to prosper, helping people fulfil their hopes and dreams and realize their ambitions.

Shares in HSBC Holdings are listed on the London, Hong Kong, New York, Paris and Bermuda stock exchanges. The shares are traded in New York in the form of American Depositary Receipts. Certain of HSBC Bank Canada preferred shares are traded on the Toronto Stock Exchange.

Our continuous disclosure materials, including interim and annual filings, are available through a link on the bank's website at www.hsbc.ca and on the Canadian Securities Administrators' website at www.sedar.com.

Complete financial, operational and investor information for HSBC Holdings and the HSBC Group, including HSBC Bank Canada, can be obtained from its website, www.hsbc.com, including copies of HSBC Holdings 2016 Annual Report and Accounts.

HSBC's global businesses set globally consistent business strategies and operating models and manage the products and services offered to our customers.

The three HSBC global businesses that operate in Canada are:

Commercial Banking ('CMB') which supports business customers with banking products and services to help them operate and grow. Our customers range from small enterprises, through to large companies operating globally.

Global Banking and Markets ('GB&M') which provides financial services and products to corporates, governments and institutions. Our comprehensive range of products and solutions can be combined and customized to meet our customers' specific objectives – from primary equity and debt capital, global trade and receivables finance.

Retail Banking and Wealth Management ('RBWM') which helps customers manage their finances, buy their home, save and invest for the future.

Management's Discussion and Analysis (continued)

HSBC values

Values define who we are as an organization and what makes us distinctive.

- We are open to different ideas and cultures and value diverse perspectives.
- We are connected to our customers, communities, regulators and each other, caring about individuals and their progress.
- We are dependable, standing firm for what is right and delivering on commitments.

These values reflect the best aspects of the HSBC Group's 150-year heritage. They are critical to fulfilling our purpose to help businesses to thrive, economies to prosper and people to realize their ambitions.

Our role in society

HSBC's ambition is to be recognized as the world's leading and most respected international bank. How we do business is as important as what we do. We seek to build trusting and lasting relationships with our many stakeholders to generate value in society and deliver long-term shareholder returns.

We are part of a group that serves millions of customers around the world, ranging from individuals to the largest companies. We are committed to conduct our business in a way that delivers fair value to customers, strengthens our communities and helps ensure a properly functioning financial system.

We employ thousands of people, providing them livelihoods and opportunities for professional development and personal growth. We value diversity in all its forms as essential to who we are and our ability to fulfill our purpose. In Canada, our Board of Directors reached gender parity several years ago and our Executive Committee has done the same – a first in the Canadian industry. Our focus continues to be on achieving better diversity across all dimensions.

We also recognize the significant role that the financial system has in tackling challenges such as financial crime and climate change. We are strengthening our ability to safeguard customers and ourselves against financial crime, and believe this will be a source of long-term advantage for our business. We are also committed to helping enable a transition to a low carbon economy through our business activities and own operations.

Strategy

As communicated to Investors in June 2015, HSBC is focusing on a series of 10 actions to drive HSBC Group strategy and capture value from its global network. Of those actions, the following are applicable to Canada:

- Realize the value of the Group's international network
- Rebuild North American profitability focusing on opportunities offered in the North American Trade corridor
- Renminbi ('RMB') internationalization
- Reduce risk-weighted assets ('RWA')
- Deliver cost savings
- Global Standards – safeguarding against financial crime

In 2016, HSBC Bank Canada developed a 5-year Strategic Plan directing its efforts and actions to implement the Group's strategy in the Canadian business. Canada is designated as one of HSBC's priority markets and significant investments have been made in the Canadian business during 2016, which will continue over the plan period.

Capturing value from HSBC's international network

HSBC has an unparalleled international network that provides access to more than 90% of global GDP, trade and capital flows. We use it to offer products that facilitate trade and investment, and help customers participate in global growth opportunities. Our global presence helps us build deeper and more enduring relationships with businesses and individuals with international needs. Our strategic plan is built around long-term trends and reflects our distinctive advantages and strengths in key international trade corridors.

Focus on opportunities in the North American trade corridor

We continue to realize value from the network across North America as our business works closely with our affiliates in the US and Mexico. We work together in fulfilling our customers' cross-border banking needs including cross-border product and sales initiatives and improvements in systems and processes to provide efficient cross-border service.

Focus on Greater China and RMB internationalization

We are identifying new opportunities where the Group's presence in Greater China and its ability to undertake transactions in the RMB currency can add value for our customers. We work closely with our colleagues in Greater China to assist our clients in conducting business in this key trade corridor.

Leverage our universal banking model

Our three global businesses that operate in Canada serve the full range of banking customers, from individual savers to large multinational companies. This universal banking model enables us to effectively meet customers' diverse financial needs. Our balanced mix of businesses supports a strong capital and funding base, provides competitive rewards to employees, and generates stable shareholder returns. The Strategic Plan will include investments to improve synergies in servicing clients with needs spanning across our global businesses.

Invest in wealth management and select retail businesses

HSBC aims to capture opportunities arising from social mobility and wealth creation in our priority markets, including Canada. HSBC's global network and our extensive expertise in international markets provide a competitive advantage in serving Canadian retail and wealth management customers. We are also making significant investments in digital technologies to better serve our customers and achieve operational efficiencies.

In 2016, we launched a premium global offering, Jade by Premier, to our top high net worth segment that provides a dedicated, personal and exclusive banking experience, designed to meet clients' complex needs and high expectations.

Reduce risk-weighted assets

We are implementing initiatives to optimize systems and processes to improve data collection and reposition portfolios to ensure returns on risk-weighted assets are commensurate with the risks in the current environment. We implemented initiatives to improve return on risk-weighted assets through improvements in data quality and modeling as well as portfolio optimization.

Deliver cost savings

We continue to take actions to better manage our costs. We are growing our digital capabilities and realizing efficiency gains through automating or re-engineering processes. We are also simplifying our technology and reshaping our global functions.

Implement Global Standards – safeguard against financial crime

Our aim is to safeguard customers, ourselves and the financial services industry from financial crime. We have made significant investments in Global Standards and have made good progress on our implementation plans, including our continued efforts to strengthen our Know Your Customer policies and processes across our business.

Management's Discussion and Analysis (continued)

Financial summary

(\$ millions, except where otherwise stated)

	2016	2015
Financial performance for the year ended 31 December		
Total operating income.....	2,079	2,037
Profit before income tax expense.....	715	617
Profit attributable to the common shareholder.....	486	414
Basic earnings per common share (\$)	0.97	0.83
Financial position at 31 December		
Loans and advances to customers	46,907	48,378
Customer accounts	56,674	55,089
Ratio of customer advances to customer accounts (%) ¹	82.8	87.8
Shareholders' equity.....	5,415	5,376
Average total shareholders' equity to average total assets (%) ¹	5.7	5.7
Capital measures²		
Common equity tier 1 capital ratio (%)	10.5	10.1
Tier 1 ratio (%).....	12.5	12.1
Total capital ratio (%)	13.5	13.5
Leverage ratio (%)	4.7	4.7
Risk-weighted assets (\$m)	42,005	42,846
Performance ratios (%)¹		
Return ratios (%)¹		
Return on average common shareholder's equity	10.6	9.6
Post-tax return on average total assets	0.51	0.45
Pre-tax return on average risk-weighted assets.....	1.7	1.4
Credit coverage ratios (%)¹		
Loan impairment charges to total operating income.....	5.1	11.5
Loan impairment charges to average gross customer advances and acceptances.....	0.2	0.6
Total impairment allowances to impaired loans and acceptances at year end	56.7	83.4
Efficiency and revenue mix ratios (%)¹		
Cost efficiency ratio	60.4	58.2
Adjusted cost efficiency ratio	60.2	58.3
As a percentage of total operating income:		
– net interest income	54.2	56.1
– net fee income	32.1	33.5
– net trading income.....	9.1	4.0

¹ Refer to the 'Use of non-IFRS financial measures' section of this document for a discussion of non-IFRS financial measures.

² The bank assesses capital adequacy against standards established in guidelines issued by OFSI in accordance with the Basel III capital adequacy frameworks.

Use of non-IFRS financial measures

In measuring our performance, the financial measures that we use include those which have been derived from our reported results. However, these are not presented within the Financial Statements and are not defined under IFRS. These are considered non-IFRS financial measures and are unlikely to be comparable to similar measures presented by other companies. The following non-IFRS financial measures are used throughout this document and their purposes and definitions are discussed below.

Financial position ratios

These measures are indicators of the stability of the bank's balance sheet and the degree to which funds are deployed to fund assets.

Ratio of customer advances to customer accounts is calculated by dividing loans and advances to customers by customer accounts using year-end balances.

Average total shareholders' equity to average total assets is calculated by dividing average total shareholders' equity for the year (determined using month-end balances) with average total assets (determined using month-end balances) for the year.

Return ratios

Return ratios are useful for management to evaluate profitability on equity, assets and risk-weighted assets.

Return on average common shareholder's equity is calculated as annual profit attributable to the common shareholder divided by average common equity (determined using month-end balances).

Post-tax return on average total assets is calculated as annual profit attributable to common shareholders divided by average assets (determined using average month-end balances).

Pre-tax return on average risk-weighted assets is calculated as the profit before income tax expense divided by the average monthly balances of risk-weighted assets for the year. Risk-weighted assets are calculated using guidelines issued by OSFI in accordance with the Basel III capital adequacy framework.

Credit coverage ratios

Credit coverage ratios are useful to management as a measure of the extent of incurred loan impairment charges relative to the bank's performance and size of its customer loan portfolio during the period.

Loan impairment charges to total operating income is calculated as loan impairment charges and other credit provisions, as a percentage of total operating income for the year.

Loan impairment charges to average gross customer advances is calculated as annual loan impairment charges and other credit provisions for the year, as a percentage of average gross customer advances (determined using month-end balances during the year).

Total impairment allowances to impaired loans at period-end is calculated as total impairment allowances as a percentage of impaired loans using year-end balances.

Efficiency and revenue mix ratios

Efficiency and revenue mix ratios are measures of the bank's efficiency in managing its operating expense to generate revenue and demonstrates the contribution of each of the primary revenue streams to total income.

Cost efficiency ratio is calculated as annual total operating expenses as a percentage of annual total operating income.

Adjusted cost efficiency ratio is calculated similar to the cost efficiency ratio; however, annual total operating income excludes annual gains and losses from financial instruments designated at fair value, as the movement in value of the bank's own subordinated debt issues are primarily driven by changes in market rates and are not under the control of management.

Net interest income, net fee income and net trading income as a percentage of total operating income is calculated as annual net interest income, annual net fee income and annual net trading income divided by annual total operating income.

Management's Discussion and Analysis (continued)

Financial performance 2016

Summary consolidated income statement	2016 \$m	2015 \$m
Net interest income	1,127	1,143
Net fee income	667	683
Net trading income.....	190	81
Net (expense)/income from financial instruments designated at fair value.....	(4)	3
Gains less losses from financial investments.....	24	63
Other operating income.....	75	64
Net operating income before loan impairment charges and other credit risk provisions ...	2,079	2,037
Loan impairment charges and other credit risk provisions	(107)	(234)
Net operating income	1,972	1,803
Total operating expenses	(1,255)	(1,186)
Operating profit.....	717	617
Share of loss in associates.....	(2)	–
Profit before income tax expense.....	715	617
Income tax expense.....	(191)	(170)
Profit for the year	524	447

Overview

HSBC Bank Canada reported a profit before income tax expense for 2016 of \$715m, an increase of \$98m, or 15.9%, compared with 2015.

The increase from 2015 was primarily due to:

- favourable trading performance in the rates business and favourable changes to the Credit Valuation Adjustment ('CVA') on derivative contracts due to the tightening of customer credit spreads; and

- lower loan impairment charges, primarily in the oil and gas sector, as improving economic conditions (including higher oil prices) resulted in higher collateral values and improvements in credit quality.

This was partially offset by continued investment supporting the implementation of risk and compliance initiatives and strategic spending by the global businesses to enable future growth and reduce costs.

Performance by income and expense item

Net interest income

	2016			2015		
	<i>Average balance</i>	<i>Interest income</i>	<i>Yield</i>	<i>Average balance</i>	<i>Interest income</i>	<i>Yield</i>
	\$m	\$m	%	\$m	\$m	%
<i>Interest income</i>						
Short-term funds and loans and advances to banks	988	3	0.34	982	3	0.31
Loans and advances to customers ¹	47,573	1,416	2.98	42,568	1,385	3.25
Reverse repurchase agreements – non-trading	7,998	40	0.50	7,436	50	0.67
Financial investments...	23,551	277	1.18	22,366	255	1.14
Other interest-earning assets	402	8	1.97	115	7	6.09
Total interest-earning assets	80,512	1,744	2.17	73,467	1,700	2.31

¹ During the year ended 31 December 2016, certain amounts charged and earned on other interest-earning liabilities were prospectively reclassified from interest income and fee income to interest expense.

Management's Discussion and Analysis (continued)

Summary of interest expense by type of liabilities

	2016			2015		
	Average balance \$m	Interest expense \$m	Cost %	Average balance \$m	Interest expense \$m	Cost %
Interest expense						
Deposits by banks ¹	474	1	0.30	409	1	0.24
Financial liabilities designated at fair value – own debt issued ²	408	5	1.11	421	5	1.19
Customer accounts ³	49,205	257	0.52	46,045	251	0.55
Repurchase agreements – non-trading	6,331	19	0.30	3,241	22	0.68
Debt securities in issue	10,638	254	2.39	11,152	269	2.41
Other interest-earning liabilities ⁴	2,539	81	3.24	764	9	1.18
Total interest- earning liabilities....	69,595	617	0.89	62,032	557	0.90
Net interest income – year ended 31 December		1,127			1,143	

1 Includes interest-bearing bank deposits only.

2 Interest expense on financial assets designated at fair value is reported as 'Net income from financial instruments designated at fair value' in the consolidated income statement, other than interest on own debt which is reported in 'Interest expense'.

3 Includes interest-bearing customer accounts only.

4 During the year ended 31 December 2016, certain amounts charged and earned on other interest-earning liabilities were prospectively reclassified from interest income and fee income to interest expense.

Net interest income 2016 was \$1,127m, a decrease of \$16m, or 1.4%, compared with 2015. The decrease was mainly as a result of the continued run-off of the consumer finance portfolio and increased interest

expense from long term borrowing entered into with HSBC Group in 2016. This was partially offset by residential mortgage growth and higher yield on financial investments.

Net fee income

	2016 \$m	2015 \$m
Credit facilities.....	297	304
Funds under management.....	175	172
Account services.....	68	72
Credit cards.....	56	59
Corporate finance.....	51	50
Remittances.....	33	31
Immigrant Investor Program.....	4	14
Brokerage commissions.....	5	7
Insurance.....	8	9
Trade finance import/export.....	9	10
Trustee fees.....	5	5
Other.....	24	25
Fee income.....	<u>735</u>	<u>758</u>
Less: fee expense.....	<u>(68)</u>	<u>(75)</u>
Net fee income.....	<u>667</u>	<u>683</u>

Net fee income for 2016 was \$667m, a decrease of \$16m, or 2.3%, compared with 2015. The decrease in

net fee income was primarily due to lower volumes in credit facilities and account service fees.

Net trading income

	2016 \$m	2015 \$m
Trading activities.....	175	56
Net interest from trading activities.....	17	39
Hedge ineffectiveness.....	(2)	(14)
Net trading income.....	<u>190</u>	<u>81</u>

Net trading income for 2016 was \$190m, an increase of \$109m, or 134.6%, compared with 2015. The increase was mainly due to favourable trading performance in the rates business and favourable changes to the CVA on derivative contracts due to the tightening of counterparty credit spreads. The comparative period for

2015 includes the impact of negative mark-to-market on economic hedges not qualifying for hedge accounting recycled to the income statement and unfavourable changes to CVA on derivative contracts due to the widening of counterparty credit spreads.

Other items of income

	2016 \$m	2015 \$m
Net (expense)/income from financial instruments designated at fair value.....	(4)	3
Gains less losses from financial investments.....	24	63
Other operating income.....	75	64
Other items of income.....	<u>95</u>	<u>130</u>

Management's Discussion and Analysis (continued)

Net expense from financial instruments designated at fair value for 2016 was \$4m compared with net income of \$3m in 2015. The net expense from financial instruments designated at fair value was from marginal narrowing of the bank's own credit spread which increased the fair value of these subordinated debentures. This compares with income recorded in 2015 which arose from the widening of the bank's own credit spread.

Gains less losses from financial investments for 2016 were \$24m, a decrease of \$39m, or 61.9%, compared

with 2015. Balance sheet management (BSM) recognized lower gains on sale of available-for-sale debt securities arising from the continued re-balancing of the Balance Sheet Management portfolio.

Other operating income for 2016 was \$75m, an increase of \$11m, or 17.2%, compared with 2015. The increase was mainly due to higher inter-company activities, partially offset by losses on the sale of specific commercial loans and non-recurring recoveries recognized in 2015.

Loan impairment charges and other credit risk provisions

	2016 \$m	2015 \$m
Individually assessed provisions.....	184	129
Collectively assessed (release)/allowances.....	(61)	48
Loan impairment charges.....	<u>123</u>	<u>177</u>
Other credit risk (reversal of provisions)/provisions.....	(16)	57
Loan impairment charges and other credit risk provisions.....	<u>107</u>	<u>234</u>

Loan impairment charges and other credit risk provisions for 2016 were \$107m, a decrease of \$127m, or 54.3%, compared with 2015. The decrease in impairment charges was driven by improved market conditions, primarily due to recovering oil prices. Collectively assessed allowances and other credit provisions

decreased in the year, as exposures moved to impaired status in the year, resulting in increases to specifically assessed allowances. Improved customer credit quality and higher collateral values were the main factors that resulted in the net reduction in loan impairment charges.

Operating expenses

	2016 \$m	2015 \$m
Employee compensation and benefits.....	662	673
General and administrative expenses.....	550	470
Depreciation of property, plant and equipment.....	33	30
Amortization and impairment of intangible assets.....	10	13
Total operating expenses.....	<u>1,255</u>	<u>1,186</u>

Total operating expenses for 2016 were \$1,255m, an increase of \$69m, or 5.8%, compared with 2015. This is due to continued investments in the implementation of risk and compliance initiatives; as well as strategic spending within the global businesses to drive future growth and reduce costs. Additionally, the lower Canadian dollar had an adverse impact on expenses denominated in foreign currencies.

Share of profit/loss in associates

Share of profit/loss in associates for 2016 was a \$2m loss, a decrease of \$2m, compared with 2015. The share of profits represents changes in the value of the bank's investments in private equity funds.

Income tax expense

The effective tax rate for 2016 was 26.7%, compared to 27.8% in 2015.

Movement in financial position

Summary consolidated balance sheet

	2016 \$m	2015 \$m
ASSETS		
Trading assets.....	6,288	3,893
Derivatives.....	3,850	4,909
Loans and advances to banks.....	1,071	1,400
Loans and advances to customers.....	46,907	48,378
Reverse repurchase agreements – non-trading.....	5,938	6,807
Financial investments.....	25,231	23,935
Customers' liability under acceptances.....	4,322	3,834
Other assets.....	1,050	868
Total assets.....	94,657	94,024
LIABILITIES AND EQUITY		
Liabilities		
Deposits by banks.....	946	2,049
Customer accounts.....	56,674	55,089
Repurchase agreements – non-trading.....	4,345	6,606
Trading liabilities.....	3,784	1,713
Derivatives.....	3,838	5,005
Debt securities in issue.....	10,256	10,896
Acceptances.....	4,322	3,834
Other liabilities.....	5,077	3,456
Total liabilities.....	89,242	88,648
Equity		
Share capital and other reserves.....	2,102	2,167
Retained earnings.....	3,313	3,209
Total equity.....	5,415	5,376
Total equity and liabilities.....	94,657	94,024

Assets

Total assets at 31 December 2016 were \$94.7bn, an increase of \$0.6bn from 31 December 2015. Trading assets increased by \$2.4bn due to increased trading in debt securities, largely in government bonds. The increased liquidity of the bank is reflected in the increased financial investments of \$1.3bn. Customers' liabilities under acceptances increased by \$0.5bn due to higher demand. These increases were balanced by a decrease of \$1.5bn to loans and advances to customers, largely driven by the contraction in investment activities in the energy sector and lower credit facility utilization. Derivatives decreased \$1.1bn due to lower foreign exchange and commodity contracts.

Liabilities

Total liabilities at 31 December 2016 were \$89.2bn, an increase of \$0.6bn from 31 December 2015. Trading liabilities increased by \$2.1bn largely due to an increase in short positions, which is consistent with the increase in trading assets. Customer accounts increased by \$1.6bn mainly due to the business focus on growing deposits through multiple initiatives in different markets. Acceptances increased by \$0.5bn due to higher demand and other liabilities increased by \$1.6bn largely due to increases in loans payable and subordinated liabilities. Balance Sheet Management activities and funding requirement of the trading book decreased deposits by banks and repurchase agreements by \$1.1bn and \$2.3bn respectively. Derivatives decreased \$1.2bn due to lower foreign exchange and commodity contracts. In addition, debt securities in issue decreased by \$0.6bn.

Management's Discussion and Analysis (continued)

Equity

Total equity at 31 December 2016 was \$5.4bn, remaining relatively flat from 31 December 2015. Profits generated

during the year were used to distribute increased dividends on common shares and preferred shares.

Global businesses

We manage and report our operations around the following global businesses: Commercial Banking, Global Banking and Markets, and Retail Banking and Wealth Management. The latter segment also includes the run-off Consumer Finance portfolio following a previous decision to wind down this business in Canada.

During 2016, changes in internal reporting used by management to allocate resources and assess performance resulted in realignments of our operating segments. The most significant change was the elimination of the Other segment and creation of a Corporate Centre. Following is a description of the changes. Comparative data have been re-presented accordingly:

- Customer realignment: HSBC conducted a number of internal reviews aligning customer requirements to those global businesses best suited to service their respective needs, resulting in the transfer of a portfolio of customers from CMB to GB&M during the year.
- Creation of a Corporate Centre: During 2016 management made the decision to realign certain functions to a Corporate Centre. These include balance sheet management and interests in associates and joint ventures which were previously included in GB&M and CMB respectively. Corporate Centre also includes items previously in the Other segment.
- Allocation of costs: HSBC has reviewed certain functional costs previously reported in Other and allocated these costs to the global businesses.

Commercial Banking ('CMB')

CMB provides a broad range of banking and financial services to enable customers to manage and grow their businesses domestically and internationally. HSBC serves close to 2 million CMB customers globally in 55 countries and territories. CMB Canada is the fourth largest country by revenue and profit. We aim to be recognized as the leading international trade and business bank by connecting customers to markets and by enhancing collaboration within the Group, including within the North American and Canada-China trade corridors. Implementing HSBC's global operating model in Canada increases transparency, enables consistency, improves efficiency and ensures the right outcomes for our customers.

Products and services

- *Credit and Lending*: we offer a broad range of domestic and cross-border financing including overdrafts, corporate cards, term loans and syndicated, leveraged, acquisition and project finance.
- *Global Trade and Receivables Finance*: we support customers' access to the world's trade flows and provide unrivaled experience in addressing today's most complex trade challenges. Our comprehensive suite of products and services, letters of credit, collections, guarantees, receivables finance, supply chain solutions, commodity and structured finance and risk distribution, can be combined into global solutions that make it easier for businesses to manage risk, process transactions and fund activities throughout the trade cycle.
- *Global Liquidity and Cash Management*: we are part of a global network strategically located where most of the world's payments and capital flows originate. We provide local, regional and global transaction banking services including payments, collections, account services, e-commerce and liquidity management via electronic platforms such as HSBCNet and HSBC Connect. We maintain our leadership position in international RMB services and are well positioned to leverage opportunities in Canada.
- *Collaboration*: Our CMB franchise represents a key customer base for products and services provided by GB&M and RBWM, including foreign exchange, interest rate, capital markets and advisory services, personal accounts services, wealth management and wealth transition services.

Strategic direction

We support our customers with tailored relationship management and financial solutions to allow them to operate efficiently and to grow. This includes providing them with working capital, term loans, payment services, international trade facilitation, project finance and the expertise for acquisitions and access to the financial markets. We are focused on creating value from our network which covers 90% of the global GDP, trade and capital flows. We are therefore investing heavily in digital and technology aspects of our core Global

Liquidity and Cash Management and Global Trade and Receivables Finance propositions.

Our customers are segmented based on their needs and degree of complexity: Business Banking for small enterprises with standard banking needs; and Corporate Banking for companies with complex banking needs and a global footprint.

In 2016, we transitioned from a segment management structure to a regional management structure. While relationship managers are still dedicated to either Business Banking or Corporate Banking, CMB Canada is now represented in four regions led by four region heads: British Columbia, Prairies, Ontario and Atlantic, and Quebec regions. This transition helped to simplify

and streamline management structure and bring senior managers closer to our customers, who remain at the heart of our business.

We continue to place the utmost value on customer feedback and customer engagement. We are now in the 7th year of our Client Engagement Program, designed to deepen our understanding of our customers and reinforce our relationship with them. This initiative, combined with other insight programs, helps us to identify customers' critical business issues so that we can tailor solutions and services offered to better meet their needs. Building long-term relationships with reputable customers is core to our growth strategy and organizational values.

Review of financial performance

	Year ended	
	31 December 2016 \$m	31 December 2015 \$m
Net interest income	525	585
Net fee income	293	295
Net trading income.....	31	31
Gains less losses from financial investments.....	2	–
Other operating income.....	18	25
Net operating income before loan impairment charges and other credit risk provisions ...	869	936
Loan impairment charges and other credit risk provisions	(90)	(211)
Net operating income.....	779	725
Total operating expenses.....	(392)	(426)
Profit before income tax expense.....	387	299

Overview

CMB remains focused on enhancing and simplifying its delivery model, improving productivity for the benefit of its customers and employees, despite headwinds from sustained low energy and commodity prices. We continue to focus on international subsidiary banking as a driver of growth through North American and China trade corridors and leverage our global trade and cash management product platform to generate new-to-bank clients, fee income and liquidity.

Profit before income tax expense for 2016 was \$387m, an increase of \$88m, or 29%, compared with 2015. The increase was driven primarily by lower loan impairment charges reflecting improved credit quality in the energy sector and lower operating expenses driven by business streamlining and prudent cost management, offset partially by lower revenue from lower outstanding loans and advances and higher funding costs.

Financial performance by income and expense item

Net interest income for 2016 was \$525m, a decrease of \$60m, or 10%, compared to 2015, driven primarily by higher funding costs and lower outstanding loans and advances due to lower utilization of authorized credit facilities and managed client exposures to reduce risk and optimize return.

Net fee income for 2016 was \$293m, a decrease of \$2m or 1%, compared with 2015, driven mainly by lower account service fees.

Net trading income for 2016 was \$31m, a decrease of \$0.5m, or 2%, compared with 2015, due to lower foreign exchange revenue.

Gains less losses from financial investments for 2016 were \$2m, a \$2m increase compared with 2015, driven by the disposal of certain available-for-sale securities in 2016.

Management's Discussion and Analysis (continued)

Other operating income for 2016 was \$18m, a decrease of \$7m, or 28%, compared with 2015 mainly due to non-recurring amounts received in 2015.

Loan impairment charges and other credit risk provisions for 2016 were \$90m, a decrease of \$121m or 57%, compared with 2015. The decrease in impairment charges was driven by improved market conditions, primarily due to recovering oil prices, improved customer credit quality and higher collateral values.

Total operating expenses for 2016 was \$392m, a decrease of \$34m, or 8%, compared with 2015 driven by business streamlining and prudent cost management.

Global Banking and Markets ('GB&M')

GB&M provides tailored financial solutions to major government, corporate and institutional customers worldwide.

Strategic direction

GB&M continues to pursue its well-established strategy to provide tailored financial solutions, aiming to be a top tier bank to our priority customers. This strategy has evolved to include a greater emphasis on connectivity between HSBC's global businesses across regions leveraging the HSBC Group's extensive distribution network.

We focus on four strategic initiatives:

- leveraging our distinctive geographical network which connects developed and faster-growing regions;
- connecting customers to global growth opportunities;
- continuing to be well positioned in products that will benefit from global trends; and
- enhancing collaboration with other global businesses to serve the needs of our international customers.

GB&M's strategy uses a disciplined application of hurdle rates to new and existing customer relationships in order to manage RWAs efficiently. Implementing Global Standards, enhancing risk management controls and simplifying processes also remain top priorities for GB&M.

Products and services

GB&M takes a long-term relationship management approach to build a full understanding of customers' financial requirements and strategic goals. Customer coverage is centralized in Global Banking, under relationship managers organized by sector, region and country who work to understand customer needs and provide holistic solutions by bringing together our broad array of products and extensive global network.

Our customer coverage and product teams are supported by a unique customer relationship management platform and a comprehensive customer planning process. Our teams use these platforms to better serve global customers and help connect them to international growth opportunities.

GB&M provides wholesale capital markets and transaction banking services organized across six businesses.

Sales and trading services in the secondary market are provided through three businesses organized by asset class:

- *Credit and Rates* sell, trade and distribute fixed income securities to customers including corporates, financial institutions, sovereigns, agencies and public sector issuers. They assist customers in managing risk via interest rate derivatives and facilitate customer-facing financing via repurchase.
- *Foreign Exchange* provides spot and derivative products to meet the investment demands of institutional investors, the hedging needs of businesses of all sizes as well as the needs of retail customers in our branches.
- *Capital Financing* offers strategic financing and advisory services focusing on a customer's capital structure. Products include debt and equity capital raising in the primary market, transformative merger and acquisition advisory and execution, and corporate lending and specialized structured financing solutions such as leveraged and acquisition finance, asset and structured finance and infrastructure and project finance.
- *Global Liquidity and Cash Management* helps customers move, control, access and invest their cash. Products include non-retail deposit taking and international, regional and domestic payments and cash management services.
- *Global Trade and Receivables Finance* provides trade services on behalf of customers to support them throughout their trade cycle.

Review of financial performance

	Year ended	
	31 December 2016 \$m	31 December 2015 \$m
Net interest income	75	61
Net fee income	158	162
Net trading income.....	124	48
Gains less losses from financial investments.....	(1)	–
Other operating income.....	(6)	–
Net operating income before loan impairment charges and other credit risk provisions..	350	271
Loan impairment charges and other credit risk provisions.....	(10)	(12)
Net operating income.....	340	259
Total operating expenses.....	(134)	(133)
Profit before income tax expense.....	206	126

Overview

GB&M increased trading revenues in their rates and credit business. Client led financing increased with a strong year in capital markets resulting in increased fees from our global clients. The business continued to leverage our global network to deliver cross border financing solutions.

Profit before income tax expense was \$206m for 2016, an increase of \$80m, or 63%, compared with 2015. This resulted from the favourable trading performance of the rates business, the positive impact of CVA on derivative contracts resulting from the tightening in counterparty risk and an increase in equity capital market fees.

Financial performance by income and expense item

Net interest income for 2016 was \$75m, an increase of \$14m, or 23%, compared with in 2015 primarily due to the impact from the classification of Bankers Acceptances as customer loans.

Net fee income for 2016 was \$158m, a decrease of \$4m, or 2%, compared with 2015 primarily due to lower leveraged and acquisition finance fees, partially offset by higher standby and equity capital market fees.

Net trading income for 2016 was \$124m, an increase of \$76m, or 158%, compared with 2015. The increase in net trading income was mainly due to favourable trading performance in the rates business and the positive impact of CVA on derivative contracts resulting from the tightening in counterparty risk.

Other operating income for 2016 was a loss of \$6m, due to losses on the sale of specific commercial loans.

Loan impairment charges and other credit risk provisions for 2016 was \$10m, a decrease of \$2m or 17% compared with 2015 primarily due to the changes to provisions taken on the oil and gas sectors.

Total operating expenses for 2016 was \$134m, an increase of \$1m, or 1%, compared with 2015 primarily due to increased investments in Global Standards, risk and compliance activities.

Retail Banking and Wealth Management ('RBWM')

RBWM helps individual customers manage their finances and protect and build for their financial future.

The HSBC Premier and Advance propositions are aimed at mass affluent and emerging affluent customers who value international connectivity and benefit from our global reach and scale. RBWM also offers a full range of banking products and services for customers who have simpler everyday banking needs.

These services are offered by a skilled and dedicated team through our national network of branches and ATMs, and via telephone, online and mobile banking.

Products and services

We take deposits and provide transactional banking services to enable customers to manage their day-to-day finances and save. We selectively offer credit facilities to assist customers with their borrowing requirements, and we provide wealth advisory and investment services to help them to manage their finances.

Management's Discussion and Analysis (continued)

Strategic direction

In delivering a full range of banking and wealth products and services through our branches and direct channels to individuals we focus on strategic initiatives:

- building a consistent, high standard wealth management service for retail customers drawing on our wealth advisory and asset management businesses putting the customer at the heart of what we do;
- leveraging global expertise to efficiently provide a high standard of banking solutions and service to our customers;
- simplifying the RBWM portfolio of products and services, directing resources towards the

development and delivery of products through a relationship led approach; and

- investment in transformation activities to improve processes within secured lending and wealth management back office to improve service to customers and reduce cost, uplift distribution capability (primarily digital) and product offering across wealth and retail.

To support these initiatives, we are making deepening customer relationships and enhancing our distribution capabilities a priority. Implementing Global Standards, enhancing risk management control models and simplifying processes also remain top priorities for RBWM.

Review of financial performance

	Year ended	
	31 December 2016 \$m	31 December 2015 \$m
Net interest income	402	393
Net fee income	216	226
Net trading income.....	22	22
Gains less losses from financial investments.....	1	–
Other operating income.....	13	12
Net operating income before loan impairment charges and other credit risk provisions ...	654	653
Loan impairment charges and other credit risk provisions	(7)	(11)
Net operating income.....	647	642
Total operating expenses.....	(587)	(568)
Profit before income tax expense.....	60	74

Profit before income tax expense

	Year ended	
	31 December 2016 \$m	31 December 2015 \$m
Ongoing Retail Banking and Wealth Management business	33	38
Run-off consumer finance portfolio.....	27	36
Profit before income tax expense.....	60	74

Overview

During 2016, RBWM continued to achieve sustainable and balanced growth in residential mortgages and deposits and benefited from increases in wealth balances during the first half of the year. The business continues to deliver a resilient performance given that spread compression in the highly competitive low interest rate environment is impacting margins.

Profit before income tax expense was \$60m for 2016, a decrease of \$14m, or 19%, compared with 2015. Profit before income tax expense relating to ongoing business (excluding the run-off consumer finance portfolio) was \$33m for 2016, a decrease of \$5m, or 13%, compared with 2015. Profit before income tax expense relating to ongoing business declined from last year primarily due to increased expenses from the investment in strategic initiatives to streamline processes and enhance the

customer experience and implementation of Global Standards and risk and compliance activities, partially offset by increased revenues.

Profit before income tax expense relating to the consumer finance portfolio was \$27m, compared with \$36m for 2015. This was a result of lower interest income on declining balances of the run-off portfolio, partially offset by a reduction of loan loss provisions and lower operating expenses.

Financial performance of the ongoing business by income and expense item

Net interest income of the ongoing business for 2016 was \$377m, an increase of \$24m, or 7%, compared with 2015 primarily due to growth in residential mortgages and deposits, partly offset by tighter spreads in a competitive low interest rate environment.

Net fee income of the ongoing business for 2016 was \$212m, a decrease of \$12m, or 5%, compared with 2015, mainly as a result of lower account servicing and credit card fees.

Net trading income relating to the ongoing business for 2016 remained flat from 2015 at \$22m.

Loan impairment charges and other credit risk provisions relating to the ongoing business for 2016 were \$15m, flat compared with 2015.

Total operating expenses of the ongoing business for 2016 were \$578m, an increase of \$24m, or 4%, compared with 2015. This was primarily due to increased investment supporting strategic initiatives to streamline processes and improve the customer experience. Higher costs also resulted from investment in Global Standards and risk and compliance activities, and the impact of weakening Canadian dollar on costs.

Corporate Centre

‘Corporate Centre’ contains Balance Sheet Management, interests in associates and joint ventures, the results of movements in fair value of own debt, income related to information technology services provided to HSBC

Group companies on an arm’s length basis with associated recoveries and other transactions which do not directly relate to our global businesses.

Review of financial performance

	Year ended	
	31 December 2016 \$m	31 December 2015 \$m
Net interest income	125	104
Net trading income.....	13	(20)
Net (expense)/income from financial instruments designated at fair value.....	(4)	3
Gains less losses from financial instruments	22	63
Other operating income	50	27
Net operating income	206	177
Total operating expenses.....	(142)	(59)
Operating profit.....	64	118
Share of loss in associates.....	(2)	–
Profit before income tax expense.....	62	118

Management's Discussion and Analysis (continued)

Profit before income tax expense was \$62m for the year ended 31 December 2016, compared with \$118m for 2015. The decrease was mainly due to higher investments in strategic initiatives to reduce run rate costs. This was partially offset by an increase to interest income from higher net yields from financial investments. Additionally, the trading income in 2015

includes the impact of negative mark-to-market on economic hedges not qualifying for hedge accounting, recycled to the income statement. Gains less losses from financial instruments decreased due to lower sales of available-for-sale investments as part of Balance Sheet Management activities.

Fourth quarter 2016 financial performance

Summary consolidated income statement

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Net interest income	282	282
Net fee income	169	165
Net trading income.....	45	(23)
Net expense from financial instruments designated at fair value	(1)	(1)
(Loss)/gains from financial investments	(6)	7
Other operating income.....	23	18
Net operating income before loan impairment charges and other credit risk provisions	512	448
Loan impairment charges and other credit risk provisions	61	(164)
Net operating income	573	284
Total operating expenses	(325)	(311)
Operating profit.....	248	(27)
Share of profit/(loss) in associates	3	(1)
Profit before income tax expense.....	251	(28)
Income tax expense.....	(63)	-
Profit/(loss) for the quarter.....	188	(28)

Overview

HSBC Bank Canada reported a profit before income tax expense of \$251m for the fourth quarter of 2016, an increase of \$279m compared with the fourth quarter of 2015.

Profit before income tax expense increased compared with the same quarter last year primarily due to improved net trading income and reductions in loan impairment provisions. This was partially offset by increased operating expenses.

Net interest income

Summary of interest income by type of assets

	Quarter ended					
	December 31, 2016			December 31, 2015		
	Average balance	Interest income	Yield	Average balance	Interest income	Yield
	\$m	\$m	%	\$m	\$m	%
<i>Interest income</i>						
Short-term funds and loans and advances to banks	900	–	0.16	1,297	1	0.11
Loans and advances to customers ¹	47,045	354	3.01	42,431	337	3.17
Reverse repurchase agreements – non-trading	6,455	11	0.65	7,372	9	0.49
Financial investments...	24,937	76	1.22	25,625	69	1.08
Other interest-earning assets	497	4	2.87	196	1	3.18
Total interest- earning assets	79,833	445	2.22	76,921	417	2.17

1 During the year ended 31 December 2016, certain amounts charged and earned on other interest-earning liabilities were prospectively reclassified from interest income and fee income to interest expense.

Summary of interest expense by types of liabilities and equity

	Quarter ended					
	December 31, 2016			December 31, 2015		
	Average balance	Interest expense	Yield	Average balance	Interest expense	Yield
	\$m	\$m	%	\$m	\$m	%
<i>Interest expense</i>						
Deposits by banks ¹	323	–	0.18	522	–	0.10
Financial liabilities designated at fair value – own debt issued ²	404	–	–	415	–	–
Customer accounts ³	50,673	72	0.56	47,348	56	0.47
Repurchase agreements – non-trading	4,597	8	0.70	6,546	6	0.36
Debt securities in issue ..	10,593	63	2.36	11,520	67	2.31
Other interest-earning liabilities ⁴	2,644	20	3.08	2,835	6	0.85
Total interest- bearing liabilities....	69,235	163	0.93	69,186	135	0.78
Net interest income		282			282	

1 Includes interest-bearing bank deposits only.

2 Interest expense on financial assets designated at fair value is reported as 'Net income from financial instruments designated at fair value' in the consolidated income statement, other than interest on own debt which is reported in 'Interest expense'.

3 Includes interest-bearing customer accounts only.

4 During the year ended 31 December 2016, certain amounts charged and earned on other interest-earning liabilities were prospectively reclassified from interest income and fee income to interest expense.

Management's Discussion and Analysis (continued)

Net interest income for the fourth quarter of 2016 was \$282m, which was in line with the fourth quarter of 2015. Interest income increased compared to the same period in 2015 primarily due to increased loans and

advances balances, offset by a corresponding increase in interest expense on customer accounts and long-term borrowing entered into with HSBC Group in 2016.

Net fee income

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Credit facilities.....	71	72
Funds under management.....	45	44
Account services.....	17	18
Credit cards.....	15	15
Corporate finance.....	17	8
Remittances.....	10	8
Immigrant Investor Program.....	–	3
Brokerage commissions.....	1	3
Insurance.....	2	2
Trade finance import/export.....	3	3
Trustee fees.....	1	1
Other.....	4	6
Fee income.....	186	183
Less: fee expense.....	(17)	(18)
Net fee income.....	169	165

Net fee income for the fourth quarter of 2016 was \$169m, an increase of \$4m, or 2.4% compared with the fourth quarter of 2015. The increase was primarily due

to increases in fees from corporate finance, remittances, and funds under management.

Net trading income (loss)

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Trading activities.....	41	(17)
Net interest from trading activities.....	3	12
Hedge ineffectiveness.....	1	(18)
Net trading income.....	45	(23)

Net trading income for the fourth quarter of 2016 was \$45m, an increase of \$68m compared with the fourth quarter of 2015. The increase in trading income was mainly due to favourable trading performance in the

rates business and the negative impact of CVA on derivative contracts due to the widening of customer credit spreads in the fourth quarter of 2015.

Other items of income

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Net expense from financial instruments designated at fair value	(1)	(1)
Gains less losses from financial investments.....	(6)	7
Other operating income.....	23	18
Other items of income.....	16	24

Net expense from financial instruments designated at fair value for the fourth quarter of 2016 was \$1m, same as compared with the fourth quarter of 2015.

Losses from financial investments for the fourth quarter of 2016 were \$6m, a decline of \$13m compared with the fourth quarter of 2015. Balance Sheet Management recognized lower gains on sale

of available-for-sale debt securities arising from the continued re-balancing of the Balance Sheet Management portfolio.

Other operating income for the fourth quarter of 2016 was \$23m, an increase of \$5m compared with the fourth quarter of 2015, mainly due to higher recoveries from HSBC Group for activities performed by the bank.

Loan impairment charges and other credit risk provisions

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Individually assessed (releases)/allowances	(33)	65
Collectively assessed (releases)/allowances	(28)	48
Loan impairment charges.....	(61)	113
Other credit risk provisions.....	–	51
Loan impairment charges and other credit risk provisions	(61)	164

Loan impairment charges and other credit risk provisions for the fourth quarter of 2016 ended in a \$61m recovery position, an improvement of \$225m compared with the fourth quarter of 2015.

Improved customer credit quality and higher collateral values were the main factors that resulted in a strong level of recoveries and lower specific impairment charges, particularly in the last quarter of the year. We were also able to reduce collectively assessed allowances relating to the energy sector, primarily in oil and gas.

Operating expenses

	Quarter ended	
	31 December 2016 \$m	31 December 2015 \$m
Employee compensation and benefits.....	166	170
General and administrative expenses.....	146	130
Depreciation of property, plant and equipment.....	10	8
Amortization and impairment of intangible assets	3	3
Total operating expenses.....	325	311

Total operating expenses for the fourth quarter of 2016 were \$325m, an increase of \$14m, or 4.5%, compared with the fourth quarter of 2015. This was largely due

to continued investments in the implementation of risk and compliance initiatives as well as strategic spending within the global businesses to ensure they have the tools

Management's Discussion and Analysis (continued)

to drive future growth and reduce costs. Additionally, the lower Canadian dollar had an adverse impact on expenses denominated in foreign currencies.

Share of profit/loss in associates

Share of profit in associates for the fourth quarter of 2016 was \$3m, an increase of \$4m compared with the \$1m loss in the fourth quarter of 2015. This is due to the increase in the fair values of the underlying investments in private equity funds.

Income tax expense

The effective tax rate in the fourth quarter of 2016 was 25.1%, compared with 0.2% in the fourth quarter of 2015. The effective tax rate in the fourth quarter of 2016 was near to the statutory rate. The rate in the fourth quarter of 2015 reflects a loss in that period which was offset by an increase in taxes due to a provincial tax liability.

Summary quarterly performance

Summary consolidated income statement

	2016				2015			
	Quarter ended				Quarter ended			
	Dec 31	Sep 30	Jun 30	Mar 31	Dec 31	Sep 30	Jun 30	Mar 31
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Net interest income	282	284	280	281	282	285	289	287
Net fee income	169	166	171	161	165	165	181	172
Net trading income.....	45	29	49	67	(23)	48	41	15
Other operating income	16	19	25	35	24	20	30	56
Net operating income before loan impairment charges and other credit risk provisions.....	512	498	525	544	448	518	541	530
Loan impairment charges and other credit risk provisions ...	61	(29)	(54)	(85)	(164)	(31)	(23)	(16)
Net operating income ..	573	469	471	459	284	487	518	514
Operating expenses	(325)	(328)	(301)	(301)	(311)	(298)	(291)	(286)
Operating profit.....	248	141	170	158	(27)	189	227	228
Share of profit/(loss) in associates.....	3	(3)	(2)	–	(1)	(2)	–	3
Profit/(loss) before income tax expense ..	251	138	168	158	(28)	187	227	231
Income tax expense.....	(63)	(38)	(47)	(43)	–	(50)	(59)	(61)
Profit/(loss) for the period.....	188	100	121	115	(28)	137	168	170
Profit/(loss) attributable to:								
common shareholder	178	91	111	106	(38)	128	161	163
preferred shareholders.....	10	9	10	9	10	9	5	4
non-controlling interests.....	–	–	–	–	–	–	2	3
Basic earnings per common share (\$).....	0.36	0.18	0.22	0.21	(0.08)	0.26	0.32	0.33

Comments on trends over the past eight quarters

Seasonal factors did not have a significant impact on our results.

Net interest income declined from 2015 primarily as a result of lower interest margins in a low interest rate environment, the planned run-off of the consumer finance portfolio, and the run-off of the mezzanine financing portfolio.

Net fee income has been relatively stable with no significant trends developing over the past eight quarters.

Net trading income increased in 2016. This is due to favourable trading performance in the rates business and favourable changes to the CVA on derivative contracts due to the tightening of customer credit spreads in

2016. 2015 was negatively impacted by unfavourable changes to the CVA due to the widening of customer credit spreads.

Loan impairment charges have trended downward in each quarter of 2016. This is largely due to increases in oil prices that have had a positive impact on the credit quality and collateral values in the oil and gas sector.

Operating expenses from 2015 onwards have been increasing as a result of investments in risk and compliance initiatives; as well as strategic spending by the global businesses to drive future growth and reduce costs. Additionally, the lower Canadian dollar had an adverse impact on expenses denominated in foreign currencies.

Economic outlook for 2017

The Canadian economy expanded by 3.5% in the third quarter. While there were some encouraging signs regarding the hand-off to Q4 there is also evidence that the spillover effect on the bank's results was modest. For example, data show that the economy might expand by between 1% and 1.5% in Q4, down sharply from Q3 and consistent with an economy with weak underlying momentum. Some of the headwinds that have restrained growth have faded, but tailwinds remain weak.

Much of the strength in Q3 reflected a rebound in activity in the oil sector following a 1.6% contraction in the economy in Q2 from the disruption of wildfires in Alberta in May. Those wildfires led to oil output temporarily falling by 1 million barrels of oil per day in the month. Production subsequently rebounded and oil output is expected to increase in 2017. However, this profile has more to do with investment decisions made before the price of oil fell in mid-2014 rather than the recent rise in oil prices with West Texas Intermediate back above USD50/bbl. Overall, the outlook for the oil sector remains patchy with investment expected to remain subdued through 2017 and much of 2018.

We anticipate positive but moderate growth of 1.7% in 2017, with a significant boost coming from federal government fiscal stimulus. That said, with the economy undergoing two complex adjustments the outlook faces uncertainty. One adjustment is the rebalancing from consumption and residential investment – that have supported growth since the 2008/09 financial crisis – toward exports and business investment. The other, is the shift from commodity-led economic growth toward other sectors such as exports and manufacturing

supported by a weaker Canadian dollar. In 2017, we expect some progress with consumption and residential investment to play lesser roles in boosting GDP growth, and a smaller commodity sector. However, we are more cautious on the potential for success in the rebalancing toward exports and business investment, in part owing to increased political uncertainty in the US.

Despite a solid increase in November 2016, Canadian real exports remain locked in the weakest cyclical recovery in 50 years. The Bank of Canada recently indicated that exports face greater structural headwinds than they had anticipated, including, ongoing competitiveness challenges. The capacity to export has also declined in recent years with a fall in the capital stock in the manufacturing sector constraining the ability to expand production. As a result, exports have only shown a limited response to a weaker Canadian dollar and continue to under perform indicators of underlying demand.

The results of the US Presidential election present another source of export uncertainty. While US trade policy under a new administration is still unclear, there are already signs that trade frictions between Canada and the US might increase over the next couple of years. While Canada has not been a particular focus of the new US administration's trade rhetoric, softwood lumber and country of origin labeling have arisen as potential cross-border irritants in the aftermath of the election. As a result, we see downside risks to Canada from increased US economic policy uncertainty, with the potential for greater trade restrictions rather than trade liberalization, outweighing upside opportunities to lower US taxes and increased spending.

Management's Discussion and Analysis (continued)

Amid possible fallout from US trade actions, there is limited scope for Canadian exports to other destinations to make up for any US losses. This is because of a lack of global diversification given that more than 75% of Canada's exports go to the US. Though the Canada-EU Comprehensive Economic and Trade Agreement (CETA) looks set to come into force on a provisional basis in early 2017, we expect it to take a few years before it has a significant impact on Canadian export diversification. Nonetheless, with the economic outlook in the EU improving, CETA does present an important opportunity for export growth.

Business investment had declined sharply in response to the decline in oil prices. That adjustment is largely complete as oil prices have stabilized and firms are slowly starting to spend once again. However, we see only limited prospects for a recovery in business investment in 2017. Weak corporate profits, which remain near three decade lows as a share of GDP, are one factor likely to weigh on investment intentions in 2017. The lack of clarity on US trade policies is another source of uncertainty that might reinforce a cautious corporate backdrop.

Domestically, full-time job growth remains weak despite a strong gain in December 2016, and wage

growth has recently slowed. Given that much of the employment growth in 2016 was in the part-time category, disposable income is expected to advance at only a modest pace in 2017. On top of a debt overhang with a household debt-to-GDP ratio highest in the G7, and the windfall from lower energy prices is now fading as energy prices have increased, we expect consumer spending to make its smallest contribution to GDP growth in several years.

On debt, households are not the only source of concern. The Bank for International Settlements (BIS) has expressed concern about the rate of growth of private sector (households and non-financial firms) debt. The ratio of private sector debt-to-GDP is far above its long-term trend, which is considered an early warning sign of financial system distress by the BIS. The Bank of Canada also considers elevated household debt a risk to financial stability. In our view, the household sector is vulnerable to income and interest rate shocks.

Fiscal stimulus is seen as a reliable source of growth in 2017. The federal government's infrastructure spending program has been slow to start, but we expect the flow of funds to accelerate in 2017. In fact, we see scope for more stimulus, so long as it is targeted at spurring business investment and overcoming corporate caution.

Critical accounting estimates and judgments

The preparation of financial information requires the use of estimates and judgments about future conditions.

In view of the inherent uncertainties and the high level of subjectivity involved in the recognition or measurement of items discussed below, it is possible that the outcomes in the next financial year could differ from those on which management's estimates are based, resulting in materially different conclusions from those reached by management for the purposes of the 2016 consolidated financial statements. Management's selection of the bank's accounting policies which contain critical estimates and judgments are discussed below; it reflects the materiality of the items to which the policies are applied and the high degree of judgment and estimation uncertainty involved.

Impairment of loans and advances

The bank's accounting policy for losses arising from the impairment of customer loans and advances is described in note 2(d). Loan impairment allowances represent management's best estimate of losses incurred in the loan portfolios at the balance sheet date. Management is required to exercise judgment in making assumptions

and estimates when calculating loan impairment allowances on both individually and collectively assessed loans and advances.

Collective impairment allowances are subject to estimation uncertainty, in part because it is not practicable to identify losses on an individual loan basis due to the large number of individually insignificant loans in the portfolio. The estimation methods include the use of statistical analyses of historical information, supplemented with significant management judgment, to assess whether current economic and credit conditions are such that the actual level of incurred losses is likely to be greater or less than historical experience.

Where changes in economic, regulatory or behavioral conditions result in the most recent trends in portfolio risk factors being not fully reflected in the statistical models, risk factors are taken into account by adjusting the impairment allowances derived solely from historical loss experience.

Risk factors include loan portfolio growth, product mix, unemployment rates, bankruptcy trends, geographical concentrations, loan product features,

economic conditions such as national and local trends in housing markets, the level of interest rates, portfolio seasoning, account management policies and practices, changes in laws and regulations, and other influences on customer payment patterns.

The methodology and the assumptions used in calculating impairment losses are reviewed regularly in the light of differences between loss estimates and actual loss experience.

For individually assessed loans, judgment is required in determining whether there is objective evidence that a loss event has occurred and, if so, the measurement of the impairment allowance. In determining whether there is objective evidence that a loss event has occurred, judgment is exercised in evaluating all relevant information on indicators of impairment, including the consideration of whether payments are contractually past-due and the consideration of other factors indicating deterioration in the financial condition and outlook of borrowers affecting their ability to pay.

A higher level of judgment is required for loans to borrowers showing signs of financial difficulty in market sectors experiencing economic stress, particularly where the likelihood of repayment is affected by the prospects for refinancing or the sale of a specified asset. For those loans where objective evidence of impairment exists, management determine the size of the allowance required based on a range of factors such as the realizable value of security, the likely dividend available on liquidation or bankruptcy, the viability of the customer's business model and the capacity to trade successfully out of financial difficulties and generate sufficient cash flow to service debt obligations.

The bank might provide loan forbearance to borrowers experiencing financial difficulties by agreeing to modify the contractual payment terms of loans in order to improve the management of customer relationships, maximize collection opportunities or avoid default or repossession. Where forbearance activities are significant, higher levels of judgment and estimation uncertainty are involved in determining their effects on loan impairment allowances. Judgments are involved in differentiating the credit risk characteristics of forbearance cases, including those which return to performing status following renegotiation. Where collectively assessed loan portfolios include significant levels of loan forbearance, portfolios are segmented to reflect the different credit risk characteristics of forbearance cases, and estimates are made of the incurred losses inherent within each forbearance portfolio segments.

The exercise of judgment requires the use of assumptions which are highly subjective and very sensitive to the risk factors, in particular to changes in economic and credit conditions across a large number of geographical areas. Many of the factors have a high degree of interdependency and there is no single factor to which our loan impairment allowances as a whole are sensitive.

Valuation of financial instruments

The bank's accounting policy for determining the fair value of financial instruments is described in note 2(c). The best evidence of fair value is a quoted price in an actively traded principal market. The fair values of financial instruments that are quoted in active markets are based on bid prices for assets held and offer prices for liabilities issued. When a financial instrument has a quoted price in an active market, the fair value of the total holding of the financial instrument is calculated as the product of the number of units and the quoted price. The judgment as to whether a market is active may include, but is not restricted to, consideration of factors such as the magnitude and frequency of trading activity, the availability of prices and the size of bid/offer spreads. The bid/offer spread represents the difference in prices at which a market participant would be willing to buy compared with the price at which they would be willing to sell. Valuation techniques may incorporate assumptions about factors that other market participants would use in their valuations, including:

- the likelihood and expected timing of future cash flows on the instrument. Judgment may be required to assess the counterparty's ability to service the instrument in accordance with its contractual terms. Future cash flows may be sensitive to changes in market rates;
- selecting an appropriate discount rate for the instrument. Judgment is required to assess what a market participant would regard as the appropriate spread of the rate for an instrument over the appropriate risk-free rate; and
- judgment to determine what model to use to calculate fair value in areas where the choice of valuation model is particularly subjective, for example, when valuing complex derivative products.

A range of valuation techniques is employed, dependent on the instrument type and available market data. Most valuation techniques are based upon discounted cash flow analyses, in which expected future cash flows are calculated and discounted to present value using a discounting curve. Prior to considering

Management's Discussion and Analysis (continued)

credit risk, the expected future cash flows may be known, as would be the case for the fixed leg of an interest rate swap, or may be uncertain and require projection, as would be the case for the floating leg of an interest rate swap. 'Projection' utilizes market forward curves, if available. In option models, the probability of different potential future outcomes must be considered. In addition, the value of some products is dependent on more than one market factor, and in these cases it will typically be necessary to consider how movements in one market factor may affect the other market factors. The model inputs necessary to perform such calculations include interest rate yield curves, exchange rates, volatilities, correlations and prepayment and default rates. For interest rate derivatives with collateralized counterparties and in significant currencies, the bank uses a discounting curve that reflects the overnight interest rate.

The majority of valuation techniques employ only observable market data. However, certain financial instruments are valued on the basis of valuation techniques that feature one or more significant market inputs that are unobservable, where the measurement of fair value is more judgmental. 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. '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).

Deferred tax assets

The bank's accounting policy for the recognition of deferred tax assets is described in note 2(f). The recognition of a deferred tax asset relies on an assessment of the probability and sufficiency of future taxable profits, future reversals of existing taxable temporary differences and ongoing tax planning strategies. The most significant judgments relate to expected future profitability and to the applicability of tax planning strategies, including corporate reorganizations.

Defined benefit obligations

The bank's accounting policy for the recognition of defined benefit obligations is described in note 2(g). As part of employee compensation, the bank provides certain employees with pension and other post-retirement benefits under defined benefit plans which are closed to new entrants. In consultation with its actuaries, the bank makes certain assumptions in measuring its obligations under these defined benefit plans as presented in note 4.

The principal actuarial financial assumptions used in calculation of the bank's obligations under its defined plans are in respect of discount rate and rate of pay increase that form the basis for measuring future costs under the plans. The discount rates to be applied to its obligations are determined on the basis of the current average yield of high quality Canadian corporate bonds, with maturities consistent with those of the defined benefit obligations. Assumptions regarding future mortality are based on published mortality tables.

Changes in accounting policy during 2016

There were no new standards applied during the year ended 31 December 2016. During 2016, the bank adopted a number of interpretations and amendments

to standards which had an insignificant effect on these consolidated financial statements.

Future accounting developments

The International Accounting and Standards Board ('IASB') has issued standards on revenue, leases and financial instrument accounting in 2016 and previous years discussed below which may represent significant changes to accounting requirements in the future.

Revenue

In May 2014, the IASB issued IFRS 15 'Revenue from Contracts with Customers'. The original effective date of IFRS 15 has been delayed by one year and the standard

is now effective for annual periods beginning on or after 1 January 2018 with early application permitted. IFRS 15 provides a principles-based approach for revenue recognition, and introduces the concept of recognizing revenue for performance obligations as they are satisfied. The standard should be applied retrospectively, with certain practical expedients available. The bank has assessed the impact of IFRS 15 and it expects that the standard will have no significant effect, when applied, on the bank's consolidated financial statements.

Financial instruments

In July 2014, the IASB issued IFRS 9 'Financial Instruments', which is the comprehensive standard to replace IAS 39 'Financial Instruments: Recognition and Measurement', and includes requirements for classification and measurement of financial assets and liabilities, impairment of financial assets and hedge accounting.

Classification and measurement

The classification and measurement of financial assets will depend on how these are managed (the entity's business model) and their contractual cash flow characteristics. These factors determine whether the financial assets are measured at amortized cost, fair value through other comprehensive income ('FVOCI') or fair value through profit or loss ('FVPL'). The combined effect of the application of the business model and the contractual cash flow characteristics tests may result in some differences in the population of financial assets measured at amortized cost or fair value compared with IAS 39.

For financial liabilities designated to be measured at fair value, gains or losses relating to changes in the entity's own credit risk are to be included in other comprehensive income.

Impairment

The impairment requirements apply to financial assets measured at amortized cost and FVOCI, and lease receivables and certain loan commitments and financial guarantee contracts. At initial recognition, an impairment allowance (or provision in the case of commitments and guarantees) is required for expected credit losses ('ECL') resulting from default events that are possible within the next 12 months ('12-month ECL'). In the event of a significant increase in credit risk, an 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 recognized are considered to be 'stage 1'; financial assets which 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 are considered to be in default or otherwise credit impaired are in 'stage 3'.

The assessment of credit risk and the estimation of ECL are required to be unbiased and probability-weighted, and should incorporate all available information which is relevant to the assessment including information about past events, current conditions and reasonable and supportable forecasts of economic conditions at the reporting date. In addition, the estimation of ECL should

take into account the time value of money. As a result, the recognition and measurement of impairment is intended to be more forward-looking than under IAS 39 and the resulting impairment charge will tend to be more volatile. It will also tend to result in an increase in the total level of impairment allowances, since all financial assets will be assessed for at least 12-month ECL and the population of financial assets to which lifetime ECL applies is likely to be larger than the population for which there is objective evidence of impairment in accordance with IAS 39.

Hedge Accounting

The general hedge accounting requirements aim to simplify hedge accounting, creating a stronger link with risk management strategy and permitting hedge accounting to be applied to a greater variety of hedging instruments and risks, but do not explicitly address macro hedge accounting strategies, which are particularly important for banks. As a result, IFRS 9 includes an accounting policy choice to remain with IAS 39 hedge accounting.

Based on the analysis performed to date, the bank expects to exercise the accounting policy choice to continue IAS 39 hedge accounting and therefore is not currently planning to change hedge accounting, although it will implement the revised hedge accounting disclosures required by the related amendments to IFRS 7 'Financial Instruments: Disclosures'.

Transition

The classification and measurement and impairment requirements are applied retrospectively by adjusting the opening balance sheet at the date of initial application, with no requirement to restate comparative periods. The bank does not intend to restate comparatives. The mandatory application date for the standard as a whole is 1 January 2018, but it is possible to apply the revised presentation for certain liabilities measured at fair value from an earlier date. The bank intends to revise the presentation of fair value gains and losses relating to the entity's own credit risk on certain liabilities in the consolidated financial statements from 1 January 2017. If this presentation was applied at 31 December 2016, the effect would be to increase profit before tax by \$2.7 million with the opposite effect on other comprehensive income based on the change in fair value attributable to changes in bank's credit risk for the year, with no effect on net assets. Further information on the change in fair value attributable to changes in credit risk, including bank's credit risk, is disclosed in note 21. The bank is assessing the impact that the impairment requirements will have on the financial statements.

Management's Discussion and Analysis (continued)

The bank intends to quantify the potential impact of IFRS 9 once it is practicable to provide reliable estimates, which will be no later than in the Annual Report and Accounts 2017. Until reliable estimates of the impact are available, particularly on the interaction with the regulatory capital requirements, further information on the expected impact on the financial position and on capital planning cannot be provided.

IFRS 16 Leases

In January 2016, the IASB issued IFRS 16 'Leases' with an effective date of annual periods beginning on or after 1 January 2019. IFRS 16 results in lessees accounting

for most leases within the scope of the standard in a manner similar to the way in which finance leases are currently accounted for under IAS 17 'Leases'. Lessees will recognize a 'right of use' asset and a corresponding financial liability on the balance sheet. The asset will be amortized over the length of the lease and the financial liability measured at amortized cost. Lessor accounting remains substantially the same as in IAS 17. The bank is currently assessing the impact of IFRS 16 and it is not practicable to quantify the effect as at the date of the publication of these financial statements. Existing operating lease commitments are set out in note 30.

Off-balance sheet arrangements

As part of our banking operations, we enter into a number of off-balance sheet financial transactions that have a financial impact, but may not be recognized in our financial statements. These types of arrangements are contingent and may not necessarily, but in certain circumstances could, involve us incurring a liability in excess of amounts recorded in our consolidated balance sheet. These arrangements include: guarantees and letters of credit.

Guarantees and letters of credit

We routinely issue financial and performance guarantees and documentary and commercial letters of credit on behalf of our customers to meet their banking needs. Guarantees are often provided on behalf of customers' contractual obligations, particularly providing credit facilities for customers' overseas trading transactions and in construction financings. Letters of credit are often used as part of the payment and documentation process in international trade arrangements.

Although guarantees and letters of credit are financial instruments, they are considered contingent obligations and the notional amounts are not included in our financial statements, as there are no actual advances of funds. Any payments actually made under these obligations are recorded as loans and advances to our customers. In accordance with accounting standards for financial instruments, we record the fair value of guarantees made on behalf of customers.

For credit risk management purposes, we consider guarantees and letters of credit to be part of our customers' credit facilities, which are subject to appropriate risk management procedures. Guarantees and letters of credit are considered to be part of our overall credit exposure, as set out in the analysis of our loan portfolio of the MD&A.

Disclosure controls and procedures and internal control over financial reporting

Disclosure controls and procedures are designed to provide reasonable assurance that all relevant information required to be disclosed in reports filed or submitted under Canadian securities laws is recorded, processed, summarized and reported within the time periods specified under those laws. These include controls and procedures that are designed to ensure that information is accumulated and communicated to management, including the Chief Executive Officer ('CEO') and the Chief Financial Officer ('CFO'), to allow timely decisions regarding required disclosure.

Internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and preparation of the

consolidated financial statements in accordance with IFRS. Management is responsible for establishing and maintaining adequate internal control over financial reporting. These controls include those policies and procedures that:

- pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the bank;
- provide reasonable assurance that transactions are recorded as necessary to permit preparation of the consolidated financial statements in accordance with IFRS and that receipts and expenditures of the bank are being made only in accordance with authorizations of management; and

- provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the bank’s assets that could have a material effect on the consolidated financial statements.

Because of the inherent limitations, internal control over financial reporting may not prevent or detect misstatements on a timely basis. Furthermore, projections of any evaluation of the effectiveness of internal control over financial reporting to future periods are subject to the risk that the controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

During 2016, management has evaluated, under the supervision of and with the participation of the CEO and the CFO, the effectiveness of our disclosure controls and procedures and the design and effectiveness of the

internal control over financial reporting as required by the Canadian securities regulatory authorities under National Instrument 52-109. The evaluation of internal control over financial reporting was performed using the framework and criteria established in the *Internal Control – Integrated Framework* issued by the Committee of Sponsoring Organizations of the Treadway Commission in May 2013. Based on these evaluations, management has concluded that the design and operation of these disclosure controls and procedures and internal control over financial reporting was effective as at 31 December 2016.

Changes in internal control over financial reporting

There were no changes in our internal control over financial reporting during the year ended 31 December 2016 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Related party transactions

We enter into transactions with other HSBC affiliates, as part of the normal course of business, such as banking and operational services. In particular, as a member of one of the world’s largest financial services organizations, we share in the expertise and economies of scale provided by the HSBC Group. We provide and receive services or enter into transactions with a number of HSBC Group companies, including sharing in the cost of development for technology platforms used

around the world and benefit from worldwide contracts for advertising, marketing research, training and other operational areas. These related party transactions are on terms similar to those offered to non-related parties and are subject to formal approval procedures that have been approved by the bank’s Conduct Review Committee. Further details can be found in note 31.

All our common shares are indirectly held by HSBC Holdings as a wholly-owned subsidiary.

Risk management

(Certain information within this section, where indicated, forms an integral part of the audited consolidated financial statements)

Risk Overview

All our activities involve, to varying degrees, the measurement, evaluation, acceptance and management of risk or combinations of risks.

As a provider of banking and financial services, we actively manage risk as a core part of our day-to-day activities. We use an enterprise-wide risk management framework at all levels of the organization and across all risk types. It is underpinned by our risk culture and reinforced by the HSBC Values and our Global Standards programme.

Economic growth remained muted during 2016 in both developed and emerging markets and geopolitical tensions rose or remained high in many parts of the world. Oil and gas prices saw some recovery from the lows of 2015 but remained a focus throughout 2016 due to the continued pressure on producers and exporters

caused by the global supply and demand imbalances.

We continued to maintain a conservative risk profile based on our core philosophy of maintaining balance sheet, liquidity and capital strength by reducing exposure to the most likely areas of stress:

- We regularly assessed our exposures to sovereign debt, bank counter-parties, higher risk countries and sectors and adjusted our risk appetite, limits and exposures accordingly to ensure that overall quality of the portfolio remained strong.
- We use stress testing, both internal and regulatory programs, to assess vulnerabilities and proactively adjust our portfolios, where required.
- We carried out detailed reviews on our wholesale and retail portfolios, particularly across those sectors impacted by continued low oil prices.

Management's Discussion and Analysis (continued)

Risks incurred in our business activities

Our principal banking risks are credit, liquidity and funding, market, operational (including fiduciary, regulatory compliance and financial crime compliance risk), reputational, pension and sustainability risks.

How we manage risk

Managing risk effectively is fundamental to the delivery of our strategic priorities.

Our enterprise-wide risk management framework fosters the continuous monitoring of the risk environment and an integrated evaluation of risks and their interactions. It also ensures that we have a robust and consistent approach to monitoring, managing and mitigating the risks we accept and incur in our activities.

Risk management framework

Key elements of our risk management framework include governance and structure, risk management tools and our risk culture, which together help align employee behaviour with our risk appetite.

Governance and Structure

Robust risk governance and accountability are embedded through an established framework that ensures appropriate oversight of and accountability for the effective management of risk at all levels of the organization and across all risk types.

The Board through its Audit and Risk Committee ('ARC') has ultimate responsibility for effective risk management and approves the bank's risk appetite. Executive accountability for the monitoring, assessment and management of risk resides with the Chief Risk Officer. He is supported by the Risk Management Meeting ('RMM') of the senior executives of the bank.

Day-to-day responsibility for risk management is delegated to senior executives with individual accountability for decision making. These individuals are supported by global functions as described under 'Three Lines of Defence' below. We use a defined executive risk governance structure to ensure appropriate oversight and accountability of risk, which facilitates the reporting and escalation to the RMM.

Three lines of defence

We use an activity-based three lines of defence model to delineate management accountabilities and responsibilities for risk management and the control environment. This creates a robust control environment in which to manage inherent risks.

Enterprise-wide risk management tools

The bank uses a range of tools to identify, monitor and manage risk risks. The key enterprise-wide risk tools are summarized below.

Risk appetite

The Risk Appetite defines the desired forward-looking risk profile and informs the strategic and financial planning process. It is integrated with other risk management tools such as stress testing and our top and emerging risks report to ensure consistency in risk management practices.

The Risk Appetite Statement sets out the aggregated level and risk types that HSBC is willing to accept in order to achieve its business objectives. It is a key component in the management of risk and is reviewed on an ongoing basis, and formally approved by ARC every six months.

The bank's actual performance against the Risk Appetite Statement is reported monthly to the RMM, enabling senior management to monitor the risk profile and guide business activity to balance risk and return. This reporting allows risks to be promptly identified and mitigated and informs risk-adjusted remuneration to drive a strong risk culture.

Risk appetite is dynamically linked with the Strategic and Financial Planning process, defining the desired forward-looking risk profile.

Risk map

The risk map provides a point-in-time view of the risk profile across a suite of risk categories assessing the potential for these risks to have a material impact on the bank's financial results, reputation or sustainability of HSBC's business. Risk stewards assign 'current' and 'projected' risk ratings supported by commentary.

The risks presented on the risk map are regularly assessed against risk appetite, are stress tested and, where thematic issues arise, are considered for classification as top or emerging risks.

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 define a 'top risk' as a thematic issue that form in six months to one year, and that has the potential to materially affect the financial results, reputation or business model. It may arise across any combination of risk types or businesses. The impact may be well

understood by senior management and some mitigating actions may be in place.

An ‘emerging risk’ is a thematic issue with large unknown components that may form beyond a one-year time horizon and, if it were to materialize, could have a material effect on the long-term strategy, profitability or reputation. Existing mitigation plans are likely to be minimal given the uncertain nature of these risks.

Stress testing

Our stress testing and scenario analysis program examines the sensitivities of our capital plans and unplanned demand for regulatory capital under a number of scenarios and ensures that top and emerging risks are appropriately considered. These scenarios include, but are not limited to, adverse macroeconomic events, failures at country, sector and counterparty levels, geopolitical occurrences and a variety of projected major operational risk events. We take part in regulators’ stress tests and conduct our own internal stress tests.

Risk Culture

HSBC has long recognized the importance of a strong risk culture, the fostering of which is a key responsibility of senior executives. Our risk culture is reinforced by HSBC Values and our Global Standards Program and underpins our risk management framework. It is instrumental in aligning the behaviours of individuals with our attitude to assuming and managing risk, which helps to ensure that our risk profile remains in line with our risk appetite.

We use clear and consistent employee communication on risk to convey strategic messages and set the tone from senior leadership. We deploy a suite of mandatory training on critical risk and compliance topics to embed skills and understanding in order to strengthen our risk culture and reinforce the attitude to risk in the behaviour expected of employees as described in our risk policies. Training materials are updated regularly, describing technical aspects of the various risks assumed and how they should be managed effectively. A confidential disclosure line enables staff to raise concerns.

Our risk culture is reinforced by our approach to remuneration. Individual awards, including those for executives, are based on compliance with HSBC Values and the achievement of financial and non-financial objectives which are aligned to our risk appetite and global strategy.

Credit risk

Credit risk is the risk of financial loss if a customer or counterparty fails to meet an obligation under contract. It arises principally from direct lending, trade finance and the leasing business, but also from other products such as guarantees and credit derivatives and from holding assets in the form of debt securities.

Credit risk management

The bank’s principal objectives of credit risk management are:

- to maintain a strong culture of responsible lending, supported by a robust risk policy and control framework;
- to both partner with and challenge businesses in defining and 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.

Credit risk is managed in accordance with the bank’s credit policy, which is established in consultation with HSBC Group and approved by the ARC. Risk limits and credit authorities are delegated to senior credit management staff. Credit exposures in excess of certain levels or other specific risk attributes are referred for concurrence to HSBC Group to ensure they remain within HSBC Group’s global risk limits.

Credit risk rating framework

Under the Basel framework, two principal approaches are available for measuring credit risk: advanced internal ratings based (“AIRB”) and Standardized. Most of the bank’s credit risk exposure is measured using the AIRB approach.

Under the AIRB approach, the bank’s credit risk rating framework incorporates the Probability of Default (‘PD’) of an obligor and loss severity expressed in terms of Exposure at Default (‘EAD’) and Loss Given Default (‘LGD’). These measures are used to calculate expected loss and minimum capital requirements. They are also used in conjunction with other inputs to inform rating assessments and other risk management decisions such as:

- Credit approval and monitoring: internal IRB models are used in the assessment of customer and portfolio risk in lending decisions;
- Risk appetite: IRB measures are an important element in identifying risk exposure at customer, sector, and portfolio level;

Management's Discussion and Analysis (continued)

- Pricing: IRB parameters are used in wholesale pricing tools for new transactions and reviews; and
- Economic capital and portfolio management: IRB parameters are used in the economic capital model that has been implemented across HSBC.

For wholesale customer segments (central governments and central banks, financial institutions and corporate customers, and for certain individually assessed personal customers), obligor PD is estimated using a 23-grade Customer Risk Rating ('CRR') scale, of which 21 are non-default ratings representing varying degrees of strength of financial condition, and two are default ratings. The score generated by a credit risk rating model for the obligor is mapped to a corresponding PD and master-scale CRR. The CRR is then reviewed by a credit approver who, taking into account all relevant information, such as most recent events and market data, where available, makes the final decision on the rating. The rating assigned therefore reflects the approver's overall view of the obligor's credit standing and propensity to default.

EAD is estimated to a 12-month forward time horizon and represents the current exposure plus an estimate for future increases in exposure taking into account such factors as available but undrawn facilities, and the realization of contingent exposures post-default.

LGD is based on the effects of facility and collateral structure on outcomes post-default. This includes such factors as the type of customer, the facility seniority, the type and value of collateral, past recovery experience and priority under law. It is expressed as a percentage of EAD. For all retail business, excluding credit cards and the run-off consumer finance portfolio, exposures are segmented into homogeneous pools of accounts with similar risk characteristics. PD, LGD and EAD parameters are estimated for each pool based on observed historical loss data. The segmentation of exposures into different pools is carried out every month based on the characteristics associated with the exposures at the time of monthly review while the risk measures applied to the exposures are based on the measures associated with the pools that have been derived using data over an entire economic cycle.

For credit cards and the run-off consumer finance portfolio, the simplified Standardized approach is applied within the Basel framework to calculate the risk weighting of credit exposures.

Credit portfolio management

The bank places the highest importance on the integrity and quality of its credit portfolio and has stringent policies to avoid undue concentration of risk. Our RMM and ARC meet regularly to review portfolio credit quality, geographic, product and industry distributions, large customer concentrations, adequacy of loan impairment allowances and rating system performance. Policies relating to large customer limits and industry, product and geographic concentration are approved by the ARC, in line with HSBC Group policy.

All new major authorized facilities, 'watch-list' exposures and impaired facilities are also reported quarterly to the ARC. The appetite for credit risk is expressed through portfolio level limits on specific segments, e.g. commercial real estate and energy, as well as through Commercial and Personal Lending Guidelines that conform with HSBC Group guidelines. These are disseminated throughout our business along with various credit manuals. The ARC is advised of any material changes in guidelines through the quarterly monitoring process.

We have a disciplined approach to managing credit risk through ongoing monitoring of all credit exposures at branches, with weaker quality credits being reviewed at more frequent intervals. Problem and impaired loans are identified at an early stage and are actively managed by a separate dedicated Loan Management unit which possesses the relevant expertise and experience.

Exposure to banks and financial institutions involves consultation with a dedicated unit within the HSBC Group that controls and manages these exposures on a global basis. Similarly, cross-border risk is also controlled globally by this unit through the imposition of country limits.

A review of all credit matters undertaken by our branch and head office credit managers is completed regularly to ensure all our policies, guidelines, practices, conditions and terms are followed.

We manage real estate lending within well-defined parameters, with an emphasis on relationship and project sponsorship for all new transactions. We are actively managing the exposure level and composition of this portfolio given its concentration in our credit portfolio.

Where we are dependent upon third parties for establishing asset values, consistent and transparent valuations are ensured through maintaining a list of approved professionals that meet our standards.

Top and emerging risks

Due to the prolonged downturn in oil prices resulting in downward migration in the credit quality of our Energy portfolio, a hindsight review was conducted and review findings presented to the ARC. The findings included confirmation that the timing, frequency and execution of the bank's energy stress tests were appropriate and the bank was proactive in reviewing and downgrading higher risk accounts in response to declining oil prices. Management continues to review and reduce exposure while remaining selective to new opportunities.

The portfolio and our customers are being closely monitored and managed. In view of the current geopolitical and macroeconomic instability direct and indirect exposures are continuously monitored by country. We have limited exposure to the Eurozone

peripheral countries (Greece, Italy, Ireland, Portugal and Spain), Russia and China.

Maximum exposure to credit risk

The following table presents the maximum exposure to credit risk of balance sheet and off-balance sheet financial instruments, before taking into account any collateral held or other credit enhancements. For on-balance sheet financial assets, the exposure to credit risk equals their carrying amount. For financial guarantees, the maximum exposure to credit risk is the maximum amount that we would have to pay if the guarantees were called upon. For loan commitments and other credit-related commitments that are not unconditionally cancellable, the maximum exposure to credit risk is the full amount of the committed facilities.

Maximum exposure to credit risk (Audited)

	2016 \$m	2015 \$m
On-balance sheet		
Balances at central bank.....	7	6
Items in the course of collection from other banks.....	58	73
Trading assets.....	6,288	3,893
Treasury and other eligible bills.....	421	642
Debt securities.....	5,492	3,025
Other	74	–
Customer trading assets	301	226
Derivatives	3,850	4,909
Reverse repurchase agreements – non-trading	5,938	6,807
Loans and advances held at amortized cost	47,978	49,778
Loans and advances to banks	1,071	1,400
Loans and advances to customers	46,907	48,378
Financial investments – available-for-sale.....	25,214	23,921
Treasury and other similar bills.....	295	279
Debt securities.....	24,877	23,620
Equity securities.....	59	36
Less: Securities not exposed to credit risk	(17)	(14)
Other assets		
Customers' liability under acceptances.....	4,322	3,834
Accrued income and other	259	258
Total on-balance sheet	93,914	93,479
Off-balance sheet		
Financial guarantees.....	5,780	5,585
Loan and other credit-related commitments	38,976	40,508
Total maximum exposure to credit risk	138,670	139,572

Management's Discussion and Analysis (continued)

Loan portfolio diversity

Concentration of credit risk may arise when the ability of a number of borrowers or counterparties to meet their contractual obligations are similarly affected by external factors. Diversification of credit risk is a key concept by which we are guided.

In assessing and monitoring for credit risk concentration, we aggregate exposures by product type, industry and geographic area as presented in the tables below. Exposures are measured at EAD which reflects drawn balances as well as a factor for undrawn amounts of commitments and contingent exposures, and therefore would not agree to the financial statements.

Credit risk portfolio by product type

	EAD at 31 December 2016					
	Drawn \$m	Undrawn \$m	Repurchase type transactions \$m	Derivatives \$m	Other off-balance sheet \$m	Total \$m
Wholesale portfolio						
Sovereign	22,652	240	1	162	73	23,128
Banks.....	3,788	11	67	1,133	819	5,818
Corporate.....	27,549	12,373	27	1,176	3,324	44,449
Total	53,989	12,624	95	2,471	4,216	73,395
Retail portfolio						
Residential mortgages....	19,835	3	–	–	–	19,838
Home equity lines of credit	1,807	1,029	–	–	–	2,836
Personal unsecured revolving loan facilities.....	237	213	–	–	–	450
Other personal loan facilities.....	1,406	168	–	–	1	1,575
Other small to medium enterprises loan facilities.....	188	219	–	–	16	423
Run-off consumer loan portfolio.....	151	–	–	–	–	151
Retail Master Card	353	–	–	–	–	353
Total Retail.....	23,977	1,632	–	–	17	25,626
Total	77,966	14,256	95	2,471	4,233	99,021

EAD at 31 December 2015

	<i>Drawn</i>	<i>Undrawn</i>	<i>Repurchase type transactions</i>	<i>Derivatives</i>	<i>Other off-balance sheet</i>	<i>Total</i>
	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>
Wholesale portfolio						
Sovereign	24,807	195	–	406	70	25,478
Banks.....	3,549	–	75	1,276	482	5,382
Corporate.....	29,568	12,995	15	1,917	3,511	48,006
Total	57,924	13,190	90	3,599	4,063	78,866
Retail portfolio						
Residential mortgages....	19,239	4	–	–	–	19,243
Home equity lines of credit	1,862	1,040	–	–	–	2,902
Personal unsecured revolving loan facilities.....	267	224	–	–	–	491
Other personal loan facilities.....	1,677	186	–	–	5	1,868
Other small to medium enterprises loan facilities.....	228	262	–	–	18	508
Run-off consumer loan portfolio.....	254	–	–	–	–	254
Retail Master Card	383	–	–	–	–	383
Total Retail.....	23,910	1,716	–	–	23	25,649
Total	81,834	14,906	90	3,599	4,086	104,515

Wholesale loan portfolio by geographic area (Audited)

	EAD 2016	EAD 2015
	\$m	\$m
Sovereign		
Canada.....	18,709	20,215
United States of America	2,096	2,949
Other	2,323	2,314
	23,128	25,478
Banks		
Canada.....	3,270	2,525
United States of America	855	1,348
Other	1,693	1,509
	5,818	5,382
Corporate		
Canada		
British Columbia	12,094	11,856
Ontario	11,559	12,504
Alberta.....	10,098	11,869
Quebec	6,143	6,330
Saskatchewan and Manitoba.....	1,765	1,744
Atlantic provinces	894	816
United States of America	1,362	1,973
Other	534	914
	44,449	48,006
Total wholesale loan portfolio exposure	73,395	78,866

Management's Discussion and Analysis (continued)

Wholesale loan portfolio by industry sector (Audited)

EAD at 31 December 2016						
	Drawn	Undrawn	Repurchase	Derivatives	Other	Total
	\$m	\$m	transactions	\$m	off-balance	\$m
			\$m		sheet	
					\$m	\$m
Corporate						
Real Estate	6,993	1,998	–	76	432	9,499
Energy	3,004	2,437	–	610	735	6,786
Manufacturing	3,960	1,710	–	66	350	6,086
Wholesale trade	2,112	1,235	–	19	171	3,537
Services	2,115	519	–	23	132	2,789
Transport and storage	1,764	561	–	14	142	2,481
Construction services	1,182	818	–	2	717	2,719
Finance and insurance	809	638	27	242	82	1,798
Mining, logging and forestry	745	692	–	11	353	1,801
Retail Trade	1,023	412	–	84	80	1,599
Business services	1,231	345	–	11	62	1,649
Automotive	1,027	322	–	4	40	1,393
Hotels and accommodation	707	59	–	2	8	776
Agriculture	502	197	–	12	19	730
Sole proprietors	375	60	–	–	1	436
Government Services	–	370	–	–	–	370
Total Corporate	27,549	12,373	27	1,176	3,324	44,449
EAD at 31 December 2015						
	Drawn	Undrawn	Repurchase	Derivatives	Other	Total
	\$m	\$m	transactions	\$m	off-balance	\$m
			\$m		sheet	
					\$m	\$m
Corporate						
Real Estate	6,226	1,706	–	212	471	8,615
Energy	3,886	2,894	–	721	900	8,401
Manufacturing	3,898	1,811	–	110	345	6,164
Wholesale trade	2,769	1,301	–	35	170	4,275
Services	2,318	594	–	36	138	3,086
Finance and insurance	1,382	948	15	554	161	3,060
Transport and storage	1,808	631	–	38	158	2,635
Business services	1,299	620	–	9	507	2,435
Mining, logging and forestry	959	714	–	33	353	2,059
Construction services	1,025	622	–	17	195	1,859
Retail Trade	977	406	–	94	35	1,512
Automotive	1,064	344	–	6	39	1,453
Agriculture	433	305	–	46	29	813
Hotels and accommodation	711	48	–	5	6	770
Sole proprietors	403	51	–	1	4	459
Government Services	410	–	–	–	–	410
Total Corporate	29,568	12,995	15	1,917	3,511	48,006

Energy Exposures

The following table provides a breakdown of our exposure to energy industries under the AIRB approach. Of these exposures, 54% at 31 December 2016 are investment grade based on our internal risk rating

(equivalent to S&P/Moody's rating of BBB-/Baa3 and higher). In light of sustained low oil prices the bank remains selective in this sector and continues to review and reduce exposure while remaining selective to new opportunities.

EAD at 31 December 2016

	<i>Drawn</i>	<i>Undrawn</i>	<i>Derivatives</i>	<i>Other off-balance sheet</i>	<i>Total</i>
	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>
Exploration, development and production	807	873	78	421	2,179
Pipelines	693	614	509	20	1,836
Energy services	960	554	1	50	1,565
Power and utilities.....	333	191	5	201	730
Transportation, refining and marketing....	211	205	17	43	476
Total	3,004	2,437	610	735	6,786

EAD at 31 December 2015

	<i>Drawn</i>	<i>Undrawn</i>	<i>Derivatives</i>	<i>Other off-balance sheet exposures</i>	<i>Total</i>
	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>
Exploration, development and production	1,300	1,138	46	512	2,996
Energy services	1,322	750	1	85	2,158
Pipelines	610	501	630	27	1,768
Power and utilities.....	380	278	6	230	894
Transportation, refining and marketing....	275	227	37	46	585
Total	3,887	2,894	720	900	8,401

Large customer concentrations

We monitor and manage credit risk from large customer concentrations, which we define as borrowing groups where approved facilities exceed 25% of our regulatory capital base, or \$569m at 31 December 2016 (2015: \$575m). At 31 December 2016, the aggregate approved facilities from large customers was \$30,406m (2015: \$27,361m), an average of \$1,216m (2015: \$1,052m) per customer. The increase in total approved facilities from large customers is primarily comprised of increased facilities to Canadian provinces and to Canadian chartered banks.

Collateral and other credit enhancements

Although collateral can be an important mitigant of credit risk, it is the bank's practice to lend on the basis of the customer's ability to meet their obligations out of cash flow resources rather than rely on the value

of security offered. Depending on the customer's standing and the type of product, some facilities may be unsecured. However, for other lending a charge over collateral is obtained and considered in determining the credit decision and pricing. In the event of default, the bank may utilize the collateral as a source of repayment.

The principal collateral types are as follows:

- in the personal sector, mortgages over residential properties or charges over other personal assets being financed;
- in the commercial and industrial sector, charges over business assets such as land, buildings and equipment, inventory and receivables;
- in the commercial real estate sector, charges over the properties being financed; and

Management's Discussion and Analysis (continued)

- in the financial sector, charges over financial instruments such as debt and equity securities in support of trading facilities.

Our credit risk management policies include appropriate guidelines on the acceptability of specific classes of collateral or credit risk mitigation. Valuation parameters are updated periodically depending on the nature of the collateral. Full covering corporate guarantees as well as bank and sovereign guarantees are recognized as credit mitigants for capital purposes.

The bank does not disclose the fair value of collateral held as security or other credit enhancements on loans

past due but not impaired or individually assessed impaired loans, as it is not practical to do so.

Collateral held as security for financial assets other than loans is determined by the nature of the instrument. Government and other debt securities, including money market instruments, are generally unsecured, with the exception of asset-backed securities and similar instruments, which are secured by pools of financial assets.

The bank has policies in place to monitor the existence of undesirable concentration of the collateral supporting our credit exposures.

Credit quality

The bank uses the classification as outlined in the table below to measure the quality of its loans and advances.

Credit quality classification

Quality classification	Wholesale and retail lending		
	External credit rating	Internal credit rating	12 month probability of default %
Strong	A– and above	CRR1 to CRR2	0–0.169
Good	BBB+ to BBB–	CRR3	0.170–0.740
Satisfactory	BB+ to B+	CRR4 to CRR5	0.741–4.914
Sub-standard	B to C	CRR6 to CRR8	4.915–99.999
Impaired	Default	CRR9 to CRR10	100

Credit quality of wholesale portfolio (Audited)

	2016			2015		
	EAD Drawn \$m	EAD Undrawn \$m	EAD Total \$m	EAD Drawn \$m	EAD Undrawn \$m	EAD Total \$m
Strong	31,526	2,647	34,173	34,860	3,295	38,155
Good	15,200	5,913	21,113	16,054	5,658	21,712
Satisfactory	11,732	3,431	15,163	12,165	3,660	15,825
Sub-standard	1,643	585	2,228	2,066	499	2,565
Impaired	670	48	718	531	78	609
	60,771	12,624	73,395	65,676	13,190	78,866

The proportion of exposures categorized as Strong or Good decreased from 75.9% at 2015 to 75.3% at 31 December 2016. Whilst impaired loans peaked earlier in the year, they subsequently improved to finish

the year at \$718m, \$109m higher than 2015. This was mainly due to deterioration in the quality of the portfolio related to the transportation and storage, construction services and manufacturing industry sectors.

Credit quality of retail portfolio (Audited)

	2016			2015		
	<i>EAD</i>	<i>EAD</i>	<i>EAD</i>	<i>EAD</i>	<i>EAD</i>	<i>EAD</i>
	<i>Drawn</i>	<i>Undrawn</i>	<i>Total</i>	<i>Drawn</i>	<i>Undrawn</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m
Strong	10,448	1	10,449	10,010	2	10,012
Good	10,655	1,141	11,796	10,989	1,231	12,220
Satisfactory	2,257	453	2,710	2,211	434	2,645
Sub-standard	577	36	613	638	49	687
Impaired	57	–	57	85	–	85
	23,994	1,631	25,625	23,933	1,716	25,649

The portfolio was generally stable with the proportion of exposures categorized as Strong or Good increasing from 86.7% at 31 December 2015 to 86.8% at 31 December 2016, while impaired loans declined from \$85m to \$57m.

portfolios are considered to be low-risk since the majority are secured by a first charge against the underlying real estate. The tables below detail how the bank mitigates risk further by diversifying the geographical markets in which it operates as well as benefiting from borrower default insurance. In addition the bank maintains strong underwriting and portfolio monitoring standards to ensure the quality of its portfolio is maintained.

Mortgages and home equity lines of credit

The bank's mortgage and home equity lines of credit

31 December 2016

Insurance and geographic distribution ¹	<i>Residential mortgages</i>					<i>HELOC²</i>	
	<i>Insured³</i>		<i>Uninsured³</i>		<i>Total</i>	<i>Uninsured</i>	
	\$m	%	\$m	%	\$m	\$m	%
British Columbia...	843	7	11,589	93	12,432	871	100
Western Canada ⁴	225	19	985	81	1,210	228	100
Ontario	665	11	5,150	89	5,815	602	100
Quebec and Atlantic provinces	155	14	946	86	1,101	106	100
Total at 31 December 2016	1,888	9	18,670	91	20,558	1,807	100

31 December 2015

Insurance and geographic distribution ¹	<i>Residential mortgages</i>					<i>HELOC²</i>	
	<i>Insured³</i>		<i>Uninsured³</i>		<i>Total</i>	<i>Uninsured</i>	
	\$m	%	\$m	%	\$m	\$m	%
British Columbia...	972	8	10,940	92	11,912	898	100
Western Canada ⁴	235	18	1,103	82	1,338	248	100
Ontario	657	12	5,010	88	5,667	606	100
Quebec and Atlantic provinces	166	15	950	85	1,116	110	100
Total at 31 December 2015	2,030	10	18,003	90	20,033	1,862	100

Management's Discussion and Analysis (continued)

Amortization period ⁵	Residential mortgages				
	Less than 20 years	20–24 years	25–29 years	30–34 years	35 years and greater
Total at 31 December 2016	24%	33%	42%	1%	0%
Total at 31 December 2015	26%	36%	37%	1%	0%

Average loan-to-value ratios of new originations (three months ended) ⁶	Uninsured % LTV ⁷	
	Residential mortgages %	HELOC %
British Columbia	55	48
Western Canada ⁴	63	53
Ontario	59	50
Quebec and Atlantic provinces	61	60
Total at 31 December 2016	58	50
Total at 31 December 2015	62	55

1 Geographic location is determined by the address of the originating branch.

2 HELOC is an abbreviation for Home Equity Lines of Credit, which are lines of credit secured by equity in real estate.

3 Insured mortgages are protected from potential losses caused by borrower default through the purchase of insurance coverage, either from the Canadian Housing and Mortgage Corporation or other accredited private insurers.

4 Western Canada excludes British Columbia.

5 Amortization period is based on the remaining term of residential mortgages.

6 All new loans and home equity lines of credit were originated by the bank; there were no acquisitions during the period.

7 Loan-to-value ratios are simple averages, based on property values at the date of mortgage origination.

Potential impact of an economic downturn on residential mortgage loans and home equity lines of credit

The bank performs stress testing on its Retail portfolio to assess the impact of increased levels of unemployment, rising interest rates, reduction in property values and changes in other relevant macro-economic variables. Potential increase in losses in the mortgage portfolio under downturn economic scenarios are considered manageable given the diversified composition of the portfolio, the low Loan-to-Value in the portfolio and risk mitigation strategies in place.

Loans past due but not impaired

Examples of exposures considered past due but not impaired include loans that have missed the most recent payment date but on which there is no evidence of impairment; loans fully secured by cash collateral; residential mortgages in arrears more than 90 days, but where the value of collateral is 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 is no concern over the creditworthiness of the counterparty.

The aging analysis below includes past due loans on which collective impairment allowances have been assessed, though at their early stage of arrears, there is normally no identifiable impairment.

Days past due but not impaired loans and advances (Audited)

	2016	2015
	\$m	\$m
Up to 29 days	675	920
30–59 days	61	200
60–89 days	56	113
90–179 days	5	30
Over 180 days	–	7
	797	1,270

Impaired loans and allowance for credit losses

When impairment losses occur, we reduce the carrying amount of loans through the use of an allowance account with a charge to income. The allowance for credit losses consists of both individually assessed and collectively assessed allowances, each of which is reviewed on a regular basis. The allowance for credit losses reduces the gross value of an asset to its net carrying value.

An allowance is maintained for credit losses which, in management’s opinion, is considered adequate to absorb all incurred credit-related losses in our portfolio, of both on and off-balance sheet items, including deposits with other regulated financial institutions, loans, acceptances, derivative instruments and other credit-related contingent liabilities, such as letters of credit and guarantees.

Assessing the adequacy of the allowance for credit losses is inherently subjective as it requires making estimates that may be susceptible to significant change. This includes the amount and timing of expected future cash flows and incurred losses for loans that are not individually identified as being impaired.

Individually significant accounts are treated as impaired as soon as there is objective evidence that an impairment loss has been incurred. The criteria used to determine that there is objective evidence include:

- known cash flow difficulties experienced by the borrower;
- past-due contractual payments of either principal or interest;
- breach of loan covenants or conditions;
- the probability that the borrower will enter bankruptcy or other financial realization; and
- a significant downgrading in credit rating by an external credit rating agency.

Individually assessed impairment allowances are recorded on these individual accounts on an account-by-account basis to reduce their carrying value to estimated realizable amount.

The collectively assessed impairment allowance is our best estimate of incurred losses in the portfolio for those individually significant accounts for which no evidence of impairment has been individually identified or for high-volume groups of homogeneous loans that are not considered individually significant. In determining an appropriate level of collectively assessed impairment, we apply the following methodologies:

- *Business and government* – For these loans, the underlying credit metrics including PD, LGD and EAD, for each customer are derived from the bank’s internal rating system as a basis for the collectively assessed impairment allowance. In order to reflect the likelihood of a loss event not being identified and assessed an emergence period assumption is applied which reflects the period between a loss occurring and its identification. The emergence period is estimated by management for each identified portfolio. The factors that may influence this estimation include economic and market conditions, customer behaviour, portfolio management information, credit management techniques and collection and recovery experiences in the market. The emergence period is assessed empirically on a periodic basis and may vary over time as these factors change. The bank also incorporates a quantitative management judgment framework which includes internal and external indicators, to establish an overall collective impairment allowance consistent with recent loss experience and uncertainties in the environment.
- *Residential mortgages* – Historic average loss rates are used to determine the general provision for these portfolios. Management may consider other current information should they believe that these historic loss rates do not fully reflect incurred losses in these portfolios.
- *Consumer Finance and other consumer loans* – Analysis of historical delinquency movements by product type is used as the basis for the collectively assessed impairment allowance for these loan portfolios. By tracking delinquency movement

Management's Discussion and Analysis (continued)

among pools of homogeneous loans, an estimate of incurred losses in each pool is determined. These estimates can be amended should management believe they do not fully reflect incurred losses. This judgmental adjustment employs an established framework and references both internal and external indicators of credit quality.

In addition to the methodologies outlined above, the balance of the collectively assessed impairment allowance is also analyzed as a function of risk-weighted assets and referenced to the allowances held by our peer group.

Impaired financial assets (Audited)

	<i>EAD</i> 2016 \$m	<i>EAD</i> 2015 \$m
Impaired wholesale portfolio ¹		
Real estate	68	62
Energy	270	254
Construction services	65	18
Manufacturing	104	56
Wholesale trade	26	48
Agriculture	2	5
Automotive	1	12
Hotels and accommodation	6	7
Mining, logging and forestry	3	19
Business services	24	81
Sole proprietors	4	5
Transportation and storage	136	6
Services	6	21
Finance and insurance	1	1
Retail trade	3	14
Total impaired wholesale portfolio	719	609
Impaired retail portfolio		
Residential mortgages	42	45
Other retail loans	25	29
Run off consumer finance portfolio	28	44
Total impaired retail portfolio	95	118
Total impaired financial assets	814	727

¹ Includes \$148m (2015: \$193m) of impaired acceptances, letters of credit and guarantees.

Impairment allowances (Audited)

	2016	2015
	\$m	\$m
Gross loans and advances to customers		
Individually assessed impaired loans and advances ¹ (A).....	648	502
Collectively assessed loans and advances (B)	46,698	48,387
– impaired loans and advances ¹	36	48
– non-impaired loans and advances	46,662	48,339
Total gross loans and advances to customers (C)	47,346	48,889
Less: impairment allowances (c)	439	511
– individually assessed (a)	252	253
– collectively assessed (b).....	187	258
Net loans and advances to customers.....	46,907	48,378
Individually assessed impaired loans and advances coverage		
– (a) as a percentage of (A).....	38.9%	50.3%
Collectively assessed loans and advances coverage		
– (b) as a percentage of (B).....	0.4%	0.5%
Total loans and advances coverage		
– (c) as a percentage of (C).....	0.9%	1.0%

¹ Includes restructured loans with a higher credit quality than 'impaired' and for which there is insufficient evidence to demonstrate: a significant reduction in the risk of non-payment of future cash flows, or the absence of other indicators of impairment.

Movement in impairment allowances and provision for credit losses (Audited)

	2016			Total
	<i>Customers individually assessed</i>	<i>Customers collectively assessed</i>	<i>Other credit risk provisions</i>	
	\$m	\$m	\$m	\$m
Opening balance at the beginning of the year.....	253	258	105	616
Movement				
Loans and advances written off net of recoveries of previously written off amounts ¹	(160)	(15)	–	(175)
Charge/(release) to income statement.....	184	(60)	(17)	107
Interest recognized on impaired loans and advances	(20)	–	–	(20)
Other movements	(5)	4	1	–
Closing balance at the end of the year	252	187	89	528

¹ Recovered \$17m (2015: \$27m) of loans and advances written off in prior periods.

Management's Discussion and Analysis (continued)

	2015			Total \$m
	<i>Customers individually assessed</i>	<i>Customers collectively assessed</i>	<i>Other credit risk provisions</i>	
	\$m	\$m	\$m	
Opening balance at the beginning of the year.....	170	192	76	438
Movement				
Loans and advances written off net of recoveries of previously written off amounts ¹	(43)	(10)	–	(53)
Charge/(release) to income statement.....	129	48	57	234
Interest recognized on impaired loans and advances.....	(9)	–	–	(9)
Other movements.....	6	28	(28)	6
Closing balance at the end of the year.....	<u>253</u>	<u>258</u>	<u>105</u>	<u>616</u>

¹ Recovered \$17m (2015: \$27m) of loans and advances written off in prior periods.

Derivative portfolio

The credit equivalent amount of derivative exposure comprises the current replacement cost of positions plus an allowance for potential future fluctuation of interest rate or foreign exchange rate derivative

contracts. We enter into derivatives primarily to support our customers' requirements and to assist us in the management of assets and liabilities, particularly relating to interest and foreign exchange rate risks as noted above.

Credit equivalent amount of our derivative portfolio (Audited)

	2016 \$m	2015 \$m
Interest rate contracts.....	723	557
Foreign exchange contracts.....	1,722	3,017
Commodity contracts.....	27	23
Net credit equivalent amount.....	<u>2,472</u>	<u>3,597</u>

A more detailed analysis of our derivative portfolio is presented in note 11.

Liquidity and funding risk management framework

The objective of our liquidity and funding risk management framework is to ensure that all foreseeable funding commitments, including deposit withdrawals, can be met when due, and that access to the wholesale markets is coordinated and cost-effective. It is designed to allow us to withstand very severe liquidity stresses and be adaptable to changing business models, markets and regulations.

The ARC is responsible for defining the bank's liquidity risk tolerances within the HSBC Group's liquidity risk framework, which mandates that each site manages its liquidity and funding on a self-sustaining basis. The ARC also reviews and approves the bank's liquidity and funding policy and is responsible for its oversight.

The bank's Asset and Liability Committee ('ALCO') is responsible for the development of policies and practices to manage liquidity and funding risk. Its

mandate terms of reference is established by HSBC Group policy, the ARC, and the bank's RMC EXCO.

ALCO is responsible for the oversight of liquidity and funding risk management, establishing liquidity risk parameters, and monitoring metrics against risk appetite, funding costs, and early warning indicators of a liquidity stress. ALCO is also responsible for ensuring the operational effectiveness of the bank's contingency funding plan.

The management of liquidity and funding is carried out by our Balance Sheet Management ('BSM') department in accordance with practices and limits approved by ALCO, the ARC and HSBC Group. Compliance with policies is monitored by ALCO.

On 1 January 2016 the bank, in line with HSBC Group, implemented a new internal liquidity and funding risk management framework ('LFRF'). It uses the external liquidity coverage ratio ('LCR') and net

stable funding ratio ('NSFR') regulatory framework as a foundation, but adds extra metrics, limits and overlays to address the risks we consider are not adequately reflected by the regulatory framework. We continue to monitor liquidity and funding risk within our stated risk appetite and management framework.

Our liquidity and funding risk management framework is delivered using the following key aspects:

- liquidity to be managed on a stand-alone basis with no implicit reliance on HSBC Group or central banks;
- minimum LCR requirement;
- minimum NSFR requirement;
- 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;
- annual individual liquidity adequacy assessment ('ILAA')
- minimum LCR requirement by currency;
- intra-day liquidity; and
- forward-looking funding assessments.

The new internal LFRF and the risk tolerance limits were approved by ARC.

Our ILAA process aims to:

- identify risks that are not reflected in the LFRF, and, where required, to assess additional limits required locally; and
- validate the risk tolerance by demonstrating that reverse stress testing scenarios are acceptably remote and ensuring vulnerabilities have been assessed through the use of severe stress scenarios.

Liquidity regulation

In accordance with OSFI's Liquidity Adequacy Requirements ('LAR') guideline, which incorporates Basel liquidity standards effective 1 January 2015, the bank is required to maintain a LCR above 100% as well as monitor the Net Cumulative Cash Flow ('NCCF'). The LCR estimates the adequacy of liquidity over a 30 day stress period while the NCCF calculates a horizon for net positive cash flows in order to capture the risk posed by funding mismatches between assets and liabilities. As at 31 December 2016, the bank was compliant with both.

The bank's OSFI LCR is summarized in the following table. For the quarter ended 31 December 2016, the bank's average LCR of 160% is calculated as the ratio of the stock of High-Quality Liquid Assets (HQLA) to the total net stressed cash outflows over the next 30 calendar days. The increase in the bank's average LCR for the quarter ended 31 December 2016 versus the average for the quarter ended 31 December 2015 is as a result of higher HQLA due to lower loan balances and higher funding through customer deposits and subordinated liabilities. As well, net cash outflows on non-operational deposits and unsecured debt decreased.

OSFI liquidity coverage ratio¹

	Average for the three months ended December 31, 2016
	\$m¹
Total HQLA ²	27,310
Total net cash outflows ²	17,110
Liquidity coverage ratio (%).....	160

1 The data in this table has been calculated using averages of the three month-end figures in the quarter. Consequently, the LCR is an average ratio for the three months of the quarter and might not equal the LCR ratios calculated dividing total weighted HQLA by total weighted net cash outflows.

2 These are weighted values and are calculated after the application of the weights prescribed under the OSFI LAR Guideline for HQLA and cash inflows and outflows.

In October 2014, the Basel Committee on Banking Supervision ('BCBS') published its final NSFR guideline, which will become effective 1 January 2018. Currently we calculate NSFR according to BCBS's publication number 295, pending its implementation

in Europe and Canada in 2018. The NSFR requires institutions to maintain sufficient stable funding relative to required stable funding, and reflects a bank's long-term funding profile (funding with a term of more than a year). It is designed to complement the LCR.

Management's Discussion and Analysis (continued)

Liquid Assets

Liquid assets are held and managed on a stand-alone operating entity basis. Most are held directly by the BSM department, primarily for the purpose of managing liquidity risk in line with the LFRF. The liquid asset buffer may also include securities in held-to-maturity portfolios. To qualify as part of the liquid asset buffer, held-to-maturity portfolios must have a deep and liquid repo market in the underlying security. Liquid assets also include any unencumbered liquid assets held outside BSM departments for any other purpose. The

LFRF gives ultimate control of all unencumbered assets and sources of liquidity to BSM.

The table below shows the estimated liquidity value unweighted (before assumed haircuts) of assets categorized as liquid and used for the purpose of calculating the OSFI LCR metric. The level of liquid assets reported reflects the stock of unencumbered liquid assets at the reporting date, using the regulatory definition of liquid assets. The increase in liquid assets was primarily due to lower loan balances and higher funding through customer deposits and subordinated liabilities.

Liquid assets¹

	2016 \$m	2015 \$m
Level 1	24,320	20,670
Level 2a.....	3,964	5,238
Level 2b	35	–
	28,319	25,908

¹ The liquid asset balances stated here are as at the above dates (spot rate) and are unweighted and therefore do not match the liquid asset balances stated in the LCR ratio calculations which are the average for the quarter and are weighted.

Sources of funding

Current accounts and savings deposits, payable on demand or on short notice, form a significant part of our funding. We place considerable importance on maintaining the stability and growth of these deposits, which provide a diversified pool of funds.

We also access professional markets to maintain a presence in local money markets and to optimize the funding of asset maturities not naturally matched by core deposit funding. As part of our wholesale funding arrangements, we have a number of fund raising

programs, so that undue reliance is not placed on any one source of funding

No reliance is placed on unsecured money market wholesale funding as a source of core funding. Only wholesale funding with a residual term to maturity of one year or greater is counted towards the core funding base. In addition, our stress testing assumptions require an equivalent amount of liquid assets to be held against wholesale funding maturing within the relevant stress testing horizon.

Cash flows payable by the bank under financial liabilities by remaining contractual maturities (Audited)

	<i>On demand and due within 3 months \$m</i>	<i>Due between 3 and 12 months \$m</i>	<i>Due between 1 and 5 years \$m</i>	<i>Due after 5 years \$m</i>	<i>Total \$m</i>
At 31 December 2016					
Deposits by banks	946	–	–	–	946
Customer accounts	48,992	5,872	1,902	–	56,766
Repurchase agreements.....	4,345	–	–	–	4,345
Trading liabilities	3,784	–	–	–	3,784
Financial liabilities designated at fair value	5	6	30	402	443
Derivatives	3,686	–	144	8	3,838
Debt securities in issue.....	1,321	1,783	7,454	296	10,854
Subordinated liabilities ¹	–	–	2	1,045	1,047
Other financial liabilities.....	4,881	337	2,012	–	7,230
	67,960	7,998	11,544	1,751	89,253
Loan commitments.....	38,695	79	–	3	38,777
Financial guarantee contracts.....	346	1,471	412	10	2,239
	107,001	9,548	11,956	1,764	130,269

¹ Excludes interest payable exceeding 15 years.

Certain balances in the above table will not agree directly to the balances in the consolidated balance sheet as the table incorporates cash flows for both principal and interest, on an undiscounted basis, except for derivatives and trading liabilities.

Cash flows payable in respect of deposits are primarily contractually repayable on demand or on short notice. However, in practice, short-term deposit balances remain stable as cash inflows and outflows broadly match.

Trading derivatives and trading liabilities have been included in the 'On demand and due within 3 months' time bucket, and not by contractual maturity, because trading liabilities are typically held for short periods of time. The undiscounted cash flows on hedging derivative liabilities are classified according to their contractual maturity.

Furthermore, loan commitments and financial guarantee contracts are not recognized on the balance sheet. The undiscounted cash flows potentially payable under financial guarantee contracts are classified on the basis of the earliest date they can be drawn down.

Encumbered assets

In the normal course of business, the bank will pledge or otherwise encumber assets. The pledging of assets will occur to meet the bank's payments and settlement system obligations, as security in a repurchase transaction, to support secured debt instruments or as margining requirements. Limits are in place to control such pledging.

The bank actively monitors its pledging positions. Encumbered assets are not counted towards the bank's liquid assets used for internal stress testing scenarios. We further estimate the impact of credit rating downgrade triggers, and exclude the estimated impact from liquid assets within the bank's liquidity stress testing scenarios.

Contractual obligations

As part of our normal business operations we have contractual obligations liability payments. Amounts included in unsecured long-term funding in the table below are wholesale term deposits with an original term to maturity of more than one year, based on contractual repayment dates. Also included are obligations related to commitments not recorded in the consolidated balance sheet, such as those relating to operating leases.

Management's Discussion and Analysis (continued)

Summary of future contractual payments (Unaudited)

	<i>Less than</i> 1 year \$m	1 to 5 years \$m	After 5 years \$m	Total \$m
At 31 December 2016				
Subordinated debentures	–	–	1,439	1,439
Operating leases	48	123	29	200
Committed purchase obligations.....	86	152	–	238
Unsecured long-term funding	2,899	6,283	98	9,280
Total contractual obligations.....	3,033	6,558	1,566	11,157

Committed purchase obligations include long-term arrangements for the provision of technology and data processing services by HSBC Group companies. Not included in the table are any commitments relating to customers utilizing undrawn portions of their loan facilities. As a result of our ongoing funding and liquidity management process which we monitor regularly, we expect to be able to meet all of our funding and other commitments in the normal course of our operations.

Market risk

Market risk is the risk that movements in market risk factors, including foreign exchange rates and commodity prices, interest rates, credit spreads and equity prices, will reduce our income or the value of our portfolios.

Market risk management

The objective of market risk management is to identify, measure and control market risk exposures in order to optimize return on risk within the bank's risk appetite.

We separate exposures to market risk into trading and non-trading portfolios. Trading portfolios include those positions arising from market-making and other positions designated as held-for-trading.

Market risk is managed in accordance with policies and risk limits set out by RMM and approved by the Board as well as centrally by HSBC Group Risk Management. We set risk limits for each of our trading operations dependent upon the size, financial and capital resources of the operations, market liquidity of the instruments traded, business plan, experience and track record of management and dealers, internal audit ratings, support function resources and support systems. Risk limits are reviewed and set by RMM on an annual basis at a minimum.

We use a range of tools to monitor and limit market risk exposures. These include: present value of a basis point, Value at Risk ('VaR'), foreign exchange exposure limits, maximum loss limits, credit spread limits, and issuer limits.

Value at Risk

VaR is a technique that estimates the potential losses that could occur 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 VaR models used are predominantly based on historical simulation. These models derive plausible future scenarios from past series of recorded market rates and prices, taking account of inter-relationships between different markets and rates such as interest rates and foreign exchange rates. The models also incorporate the effect of option features on the underlying exposures.

The historical simulation models used incorporate the following features:

- potential market movements are calculated with reference to data from the past two years;
- historical market rates and prices are calculated with reference to foreign exchange rates, credit spreads, interest rates, equity prices and the associated volatilities;
- VaR is calculated to a 99% confidence level; and
- VaR is calculated for a one-day holding period.

Statistically, we would expect to see losses in excess of VaR only one percent of the time over a one-year period. Although a valuable guide to risk, VaR should always be viewed in the context of its limitations:

- the use of historical data as a proxy for estimating future events may not encompass all potential events, particularly those which are extreme in nature;
- the use of a one-day holding period assumes that all positions can be liquidated or hedged in one day, which may not fully reflect the market risk arising at times of severe illiquidity, when a one day holding period may be insufficient to liquidate or hedge all positions fully;
- 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 necessarily reflect intra-day exposures; and
- VaR is unlikely to reflect loss potential on exposures that only arise under significant market moves.

VaR disclosed in the tables and graph below is the bank's total VaR for both trading and non-trading books and remained within the bank's limits.

Total VaR increased from 2015 to 2016 due to inclusion of more granular risks into the VaR calculation and an increase in both trading and non-trading activities. The VaR model has been enhanced to capture interest rate basis risks. Over the same period, the average trading VaR increased by \$0.4m due to an increase in interest rate risk, but the range (difference between max and min) has decreased. Over the same period, the average non-trading VaR increased by \$16m due to an increase in interest rate and credit risk from an increase in non-trading activities.

Non-trading VaR (Unaudited)

	2016	2015
	\$m	\$m
Year-end	41	17
Average	32	16
Minimum.....	15	8
Maximum.....	46	36

VaR by risk type for trading activities¹ (Unaudited)

	<i>Foreign exchange and commodity</i>	<i>Interest rate</i>	<i>Equity</i>	<i>Credit Spread</i>	<i>Portfolio diversifi- cation²</i>	<i>Total³</i>
	\$m	\$m	\$m	\$m	\$m	\$m
January–December 2016						
At year end.....	–	1.1	–	0.4	(0.4)	–
Average	–	1.4	–	0.8	(0.6)	1.3
Minimum.....	–	0.5	–	0.2	–	0.7
Maximum.....	0.5	2.4	–	1.3	–	2.8
January–December 2015						
At year end.....	0.1	1.2	–	1.1	(0.8)	1.5
Average	0.2	0.6	–	1.1	(0.7)	1.3
Minimum.....	–	0.2	–	0.7	–	0.7
Maximum.....	1.1	1.9	0.4	2.8	–	2.8

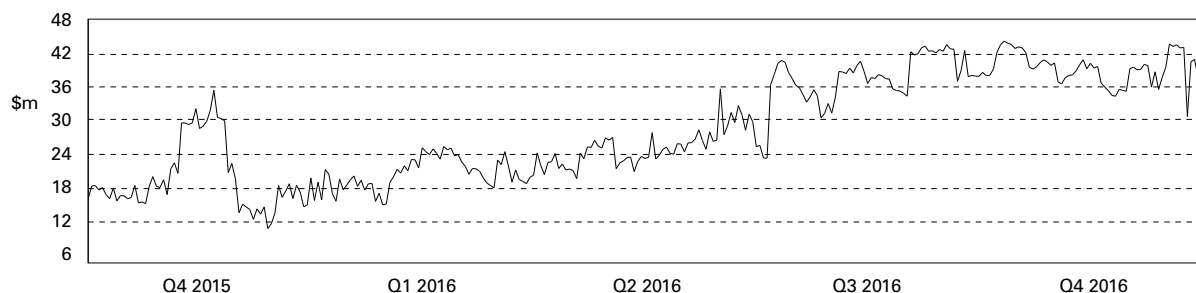
1 Trading portfolios comprise positions arising from the market-making and warehousing of customer derived positions.

2 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, for example, 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 occur on different days for different risk types, it is not meaningful to calculate a portfolio diversification benefit for these measures. Some small differences in figures presented are due to rounding.

3 The total VaR is non-additive across risk types due to diversification effects.

Management’s Discussion and Analysis (continued)

Daily total VaR



Structural interest rate risk

Structural interest rate risk arises primarily out of differences in the term to maturity or repricing of our assets and liabilities, both on- and off-balance sheet.

Structural interest rate risk is managed in accordance with policies and risk limits set out by ALCO.

We use a variety of cash and derivative instruments to manage our interest rate risk within prescribed limits. We use derivatives to modify the interest rate characteristics of related balance sheet instruments and to hedge anticipated exposures when market conditions are considered beneficial.

The risk is measured based on contractual re-pricing, as well as incorporating embedded optionality of early redemption, prepayment or re-pricing (such as redeemable

deposit products, mortgages with prepayment options and fixed rate mortgage commitments). Non-maturity products are laddered out over an assumed maturity profile, based on historical behaviour. These behavioural and optionality assumptions are approved by ALCO.

We use two primary interest rate risk metrics to measure and monitor the risk:

- Economic value of equity sensitivity – the change in the notional equity value of the non-trading portfolio resulting from an immediate parallel shift in all relevant yield curves.
- Earnings at risk sensitivity – the change in projected net interest income over a 12 month horizon, resulting from an immediate parallel shift in all relevant yield curves.

Sensitivity of structural interest rate risk in the non-trading portfolio

At 31 December

	2016		2015	
	<i>Economic value of equity</i> \$m	<i>Earnings at risk</i> \$m	<i>Economic value of equity</i> \$m	<i>Earnings at risk</i> \$m
Impact as a result of 100 basis point change in interest rate:				
Increase	(303)	87	(267)	98
Decrease	313	(89)	310	(90)

Reputational risk

Reputational risk relates to stakeholders’ perceptions, whether based on fact or otherwise. Stakeholders’ expectations are constantly changing and thus reputational risk is dynamic. As a global bank, HSBC has an unwavering commitment to operating to the high standards we have set for ourselves in every jurisdiction. Any lapse in standards of integrity, compliance, customer service or operating efficiency represents a potential reputational risk.

Each line of business is required to have a ‘Reputational Risk and Client Selection’ committee for the purpose of addressing reputational risk issues and escalating where appropriate.

Reputational risks are considered and assessed by the ARC and the RMM during the formulation of policy and the establishment of our standards. Our policies set out our risk appetite and operational procedures for all areas of reputational risk, including financial crime prevention, regulatory compliance, conduct-related concerns, customer impact, environmental impacts and employee relations.

Operational risk

Operational risk is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events.

Operational risk is relevant to every aspect of our business, and covers a wide spectrum of issues, in particular legal, regulatory compliance, financial crime, security and fraud. Losses arising from breaches of regulation and law, unauthorized activities, error, omission, inefficiency, fraud, systems failure or external events all fall within the definition of operational risk.

All staff are required to manage operational risks of the business and operational activities for which they are responsible.

Operational risk management framework

HSBC's Operational Risk Management Framework ('ORMF') is the overarching approach for managing operational risk, the purpose of which is to:

- Identify and manage our non-financial operational risks in an effective manner.
- Remain within the operational risk appetite, which helps the organization understand the level of risk it is willing to accept.
- Drive forward-looking risk awareness and assist management focus during 2016.

Activity to strengthen our risk culture and better embed the use of the ORMF was further implemented in 2016. In particular the use of the activity-based 'three lines of defence' model, which sets out roles and responsibilities for managing operational risks on a daily basis.

We use the 'three lines of defence' model to delineate management accountabilities and responsibilities for risk management and the control environment. This creates a robust control environment in which to manage inherent risks. The model underpins our approach to risk management by driving responsibility, encouraging collaboration, and enabling efficient coordination of risk and control activities. The three lines are summarized below:

- The first line of defence owns the risks and is responsible for identifying, recording, reporting and managing them, and ensuring that the right controls and assessments are in place to mitigate them.
- The second line of defence sets the policy and guidelines for managing the risks and provides advice, guidance and challenge to the first line of defence on effective risk management.

- The third line of defence is our Internal Audit function, which Audit provides independent and objective assurance on the adequacy of the design and operational effectiveness of the Risk Management Framework control governance process.

Business managers are responsible for maintaining an acceptable level of internal control commensurate with the scale and nature of operations, and for identifying and assessing risks, designing controls and monitoring the effectiveness of these controls. The ORMF helps managers to fulfill these responsibilities by defining a standard risk assessment methodology and providing a tool for the systematic reporting of operational loss data.

The Operational Risk Management function, reporting to the Chief Risk Officer, provides end-to-end oversight, challenge and review of the ORMF.

Compliance risk

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, and incur fines or penalties and suffer damage to our business as a consequence. We have committed to adopt and enforce industry leading compliance standards and have put in place a robust compliance risk management infrastructure to help us achieve this.

Regulatory Compliance

Regulatory Compliance is the Risk steward for regulatory risk which captures those risks associated with breaching our duty to clients and other counterparties, inappropriate market conduct and breaching other regulatory standards. It provides independent, objective oversight and challenge and promotes a compliance-oriented culture, supporting the business in delivering fair outcomes for customers, maintaining the integrity of financial markets and achieving HSBC's strategic objectives.

Financial crime risk

Financial Crime Risk is a global function that brings together all areas of financial crime risk management at HSBC and is dedicated to implementing the most effective global standards to combat financial crime. The function has been set up to enable us to build on our achievements in managing financial crime risk effectively across the bank and continue to strengthen financial crime detection, anti-money laundering, sanctions and anti-bribery and corruption compliance. We continue to embed policies and procedures, introduce new technology solutions and support the cultural change needed to effectively manage financial crime risk.

Management's Discussion and Analysis (continued)

Security and fraud risk

Security and fraud risk includes: Fraud Risk, Information Security Risk, and Contingency Risk.

The Security and Fraud Risk function is responsible for ensuring that effective protection measures are in place against all forms of fraudulent activity, whether initiated internally or externally, and is available to support any part of the business. To achieve that and to attain the level of integration needed to face the threat, the management of all types of fraud (e.g. card fraud, non-card fraud and internal fraud, including investigations), is established within one management structure and is part of the overall Risk function. We have increased monitoring, root cause analysis and review of internal controls to enhance our defences against external attacks and reduce the level of loss in these areas. Security and Fraud Risk is working closely with the businesses to continually assess fraud threats as they evolve and adapt our controls to mitigate these risks. We have developed a holistic and effective anti-fraud strategy comprising fraud prevention policies and practices, the implementation of strong internal controls, and investigations response team and liaison with law enforcement where appropriate.

Information Security Risk protects bank information assets against the risk of loss, operational discontinuity, misuse, unauthorized disclosure, inaccessibility and damage. It also protects against the ever-increasing potential for civil or legal liability that the bank could face as a result of information inaccuracy and loss, or the absence of due care in its protection. Information Security Risk covers all information processes, regardless of whether they involve people and technology or relationships with trading partners, customers and third parties. Information Security Risk addresses information protection, confidentiality, availability and integrity throughout the life cycle of information and its use within the bank. The security of our information and technology infrastructure is crucial for maintaining our banking applications and processes while protecting our customers and the HSBC brand.

Factors that may affect future results

The risk management section in the MD&A describes the most significant risks to which the bank is exposed and if not managed appropriately could have a material impact on our future financial results. This section outlines additional factors which may affect future financial results. Please be aware that the risks discussed below, many of which are out of our control, are not exhaustive and there may be other factors that could also affect our results.

The Contingency Risk Management function is responsible for ensuring that our businesses and functions have the resilience to maintain continuity in the face of major disruptive events. Within this wider risk, Contingency Risk Management pre-plans and considers strategies to minimize the adverse effects of major business disruption against a range of actual or emerging risks. The pre-planning concentrates on the protection of customer services, our staff, reputation, revenue generation and the integrity of data and documents. Each business and function has its own recovery plan, which is developed following the completion of a Business Impact Analysis. This determines how much time the business could sustain an outage before the level of losses becomes unacceptable, i.e. its criticality. These plans are reviewed and tested every year. The planning is undertaken against Group policy and standards and each business confirms in an annual compliance certificate that all have been met. Should there be exceptions, these are raised and their short-term resolution is overseen by Group and regional contingency risk teams.

Fiduciary risk

Fiduciary risk is the risk associated with failing to offer services honestly and properly to clients where we act in a fiduciary capacity. We define a fiduciary duty as any duty where we hold, manage, oversee or have responsibilities for assets of a third party that involves a legal and/or regulatory duty to act with the highest standard of care and with utmost good faith. A fiduciary must make decisions and act in the best interests of the third parties and must place the wants and needs of the client first, above the needs of the organization.

Fiduciary risk is managed within the designated businesses via a policy framework and monitoring of key indicators. The bank's principal fiduciary businesses are HSBC Global Asset Management (Canada) Limited and HSBC Private Wealth Services (Canada) Inc. which are exposed to fiduciary risks via investment management activities on behalf of clients.

General economic and market conditions

Factors such as the general health of capital and/or credit markets, including liquidity, level of activity, volatility and stability, could have a material impact on our business. As well, interest rates, foreign exchange rates, consumer saving and spending, housing prices, consumer borrowing and repayment, business investment, government spending and the rate of

inflation affect the business and economic environment in which we operate.

In addition, the financial services industry is characterized by interrelations among financial services companies. As a result, defaults by other financial services companies could adversely affect our earnings. Given the interconnectedness of global financial markets and the importance of trade flows, changes in the global economic and political environment, such as Brexit and the recent US election, could affect the pace of economic growth in Canada.

Fiscal, monetary and interest rate policies

Our earnings are affected by fiscal, monetary, interest rate and economic policies that are adopted by Canadian regulatory authorities. Such policies can have the effect of increasing or reducing competition and uncertainty in the markets. Such policies may also adversely affect our customers and counterparties, causing a greater risk of default by these customers and counterparties. As well, expectations in the bond and money markets about inflation and central bank monetary policy have an impact on the level of interest rates. Changes in market expectations and monetary policy are difficult to anticipate and predict. Fluctuations in interest rates that result from these changes can have an impact on our earnings. The current prolonged low interest rate policies have had a negative impact on results and a continuation of such policies would likely continue to pressure earnings.

Changes in laws, regulations and approach to supervision

Regulators in Canada are very active on a number of fronts, including consumer protection, capital markets activities, anti-money laundering, and the oversight and strengthening of risk management. Regulations are in place to protect our customers and the public interest. Considerable changes have been made to laws and regulations that relate to the financial services industry, including changes related to capital and liquidity requirements. Changes in laws and regulations, including their interpretation and application, and changes in approaches to supervision could adversely affect our earnings. For example, such changes could limit the products or services we can provide and the manner in which we provide them and, potentially, lower our ability to compete, while also increasing the costs of compliance.

In addition, our failure to comply with laws and regulations could result in sanctions and financial penalties that could adversely affect our strategic flexibility, reputation and earnings.

Level of competition

The level of competition among financial services companies is high. Furthermore, non-financial companies have increasingly been offering services traditionally provided by banks. Customer loyalty and retention can be influenced by a number of factors, including service levels, prices for products or services, our reputation and the actions of our competitors. Changes in these factors or any subsequent loss of market share could adversely affect our earnings.

Changes to our credit rating

Credit ratings are important to our ability to raise both capital and funding to support our business operations. Maintaining strong credit ratings allows us to access the capital markets at competitive pricing. Should our credit ratings experience a material downgrade, our costs of funding would likely increase significantly and our access to funding and capital through capital markets could be reduced.

Operational and infrastructure risks

We are exposed to many operational risks including: the risk of fraud by employees or others, unauthorized transactions by employees, and operational or human error. We face the risk of loss due to cyber-attack and also face the risk that computer or telecommunications systems could fail, despite our efforts to maintain these systems in good working order. Some of our services or operations may face the risk of interruption or other security risks arising from the use of the internet in these services or operations, which may impact our customers and infrastructure. Given the high volume of transactions we process on a daily basis, certain errors may be repeated or compounded before they are discovered and rectified. Shortcomings or failures of our internal processes, employees or systems, or those provided by third parties, including any of our financial, accounting or other data processing systems, could lead to financial loss and damage to our reputation. In addition, despite the contingency plans we have in place, our ability to conduct business may be adversely affected by a disruption in the infrastructure that supports both our operations and the communities in which we do business, including but not limited to disruption caused by public health emergencies or terrorist acts.

Management's Discussion and Analysis (continued)

Capital

Our objective in the management of capital is to maintain appropriate levels of capital to support our business strategy and meet our regulatory requirements.

Capital management

The bank manages its capital in accordance with the principles contained within its capital management policy and its annual capital plan, which includes the results of its internal capital adequacy assessment process ('ICAAP'). The bank determines an optimal amount and composition of regulatory and working capital required to support planned business growth, taking into consideration economic capital and the costs of capital, accepted market practices and the volatility of capital and business levels in its annual operating plan.

The bank maintains a capital position commensurate with its overall risk profile and control environment as determined by the ICAAP. The ICAAP supports capital management and ensures that the bank carries sufficient capital to meet regulatory requirements and internal targets to cover current and future risks; and, survive periods of severe economic downturn (stressed scenarios). The key elements of the bank's ICAAP include: a risk appetite framework; the identification and assessment of the risks the bank is exposed to; and, an assessment of capital adequacy against regulatory requirements as well as under stressed scenarios.

Management has established appropriate governance structures and internal control to ensure the ICAAP remains effective in supporting the bank's capital management objectives.

The bank met its regulatory requirements throughout 2016.

Basel III capital and leverage rules

The bank assesses capital adequacy against standards established in guidelines issued by OSFI in accordance with the Basel III capital adequacy framework.

The Basel III capital adequacy framework significantly revised the definitions of regulatory capital and introduced the requirement that all regulatory capital must be able to absorb losses in a failed financial institution. Capital instruments issued prior to the adoption of the existing requirements in 2013 that do not meet these requirements are being phased out as regulatory capital over a ten year period from 2013 to 2022.

The framework emphasizes common equity as the predominant component of tier 1 capital by adding a minimum common equity tier 1 ('CET1') capital ratio. In addition, for the purposes of calculating CET1 capital, certain other regulatory adjustments including those relating to goodwill, intangible assets, pension assets and deferred tax assets are being phased in over a five year period from 2014 to 2018. The Basel III rules also require institutions to hold capital buffers designed to avoid breaches of minimum regulatory requirements during periods of stress.

OSFI has established "all-in" capital targets (including capital conservation buffer) that all institutions are expected to attain or exceed, as follows: CET1 capital ratio of 7.0%, tier 1 capital ratio of 8.5% and total capital ratio of 10.5%.

Regulatory capital ratios

Actual regulatory capital ratios and capital requirements

	2016	2015
Actual regulatory capital ratios ¹		
Common equity tier 1 capital ratio	10.5%	10.1%
Tier 1 capital ratio	12.5%	12.1%
Total capital ratio	13.5%	13.5%
Leverage ratio ²	4.7%	4.7%
Regulatory capital requirements ³		
Minimum common equity tier 1 capital ratio	7.0%	7.0%
Minimum Tier 1 capital ratio	8.5%	8.5%
Minimum Total capital ratio	10.5%	10.5%

1 Presented under a Basel III 'all-in' basis per OSFI guidelines which applies Basel III regulatory adjustments from 1 January 2014, however phases out of non-qualifying capital instruments over 10 years starting 1 January 2013.

2 Presented under a Basel III on a 'transitional' basis per OSFI guidelines which phases in Basel III regulatory adjustments over 4 years starting 1 January 2015 and phases out of non-qualifying capital instruments over 10 years starting 1 January 2013.

3 On an 'all-in' basis including mandated capital conservation buffer.

Regulatory capital

Regulatory capital and risk-weighted assets

Presented under a Basel III "all-in" basis which applied Basel III regulatory adjustments from 1 January 2013,

and the phase out of non-qualifying capital instruments over 10 years starting from the same date.

	2016 \$m	2015 \$m
Tier 1 capital	5,241	5,178
Common equity tier 1 capital	4,391	4,328
Gross common equity ¹	4,564	4,526
Regulatory adjustments	(173)	(198)
Additional tier 1 eligible capital ²	850	850
Tier 2 capital ³	445	585
Total capital available for regulatory purposes	5,686	5,763
Total risk-weighted assets	42,005	42,846

1 Includes common share capital, retained earnings and accumulated other comprehensive income.

2 Includes capital instruments subject to phase out.

3 Includes directly issued capital instruments subject to phase out and collective allowances.

Management's Discussion and Analysis (continued)

Dividends

Dividends on our shares declared and paid, and distributions per unit on our HSBC HaTS™ in each of the last two years were as follows:

	2016	2015
Common shares (\$m).....	341	332
Class 1 preferred shares (\$ per share)		
Series C.....	1.275	1.275
Series D.....	1.250	1.250
Series G ¹	1.000	0.500
HSBC HaTS™ – Series 2015 (\$ per unit) ²	n/a	25.75

¹ Class 1 preferred shares, Series G were issued on 30 June 2015.

² HSBC HaTS™ Series 2015 were redeemed on 30 June 2015.

During the year, the bank declared and paid \$341m in dividends on HSBC Bank Canada common shares, an increase of \$9m compared with the prior year, and \$38m in dividends on all series of HSBC Bank Canada Class 1 preferred shares, an increase of \$10m compared with the prior year.

Common share dividends of \$47m have been declared on HSBC Bank Canada common shares and will be paid on or before 30 March 2017 to the holder of record on 16 February 2017.

Regular quarterly dividends have been declared on all series of HSBC Bank Canada Class 1 preferred shares and will be paid on 31 March 2017 for shareholders of record on 15 March 2017.

Statement of Management's Responsibility for Financial Information

The presentation and preparation of the annual consolidated financial statements, Management's Discussion and Analysis ('MD&A') and all other information in the Annual Report is the responsibility of the management of HSBC Bank Canada ('the bank'). The consolidated financial statements have been prepared in accordance with International Financial Reporting Standards. The consolidated financial statements and information in the MD&A include amounts based on informed judgments and estimates of the expected effects of current events and transactions with appropriate consideration to materiality.

In meeting its responsibility for the reliability of financial information, management relies on comprehensive internal accounting, operating and system controls. The bank's overall controls include: an organizational structure providing for effective segregation of responsibilities; delegation of authority and personal accountability; written communication of policies and procedures of corporate conduct throughout the bank; careful selection and training of personnel; regular updating and application of written accounting and administrative policies and procedures necessary to ensure adequate internal control over transactions, assets and records; and a continuing program of extensive internal audit covering all aspects of the bank's operations. These controls are designed to provide reasonable assurance that financial records are reliable for preparing the consolidated financial statements and maintaining accountability for assets that assets are safeguarded against unauthorized use or disposition and that the bank is in compliance with all regulatory requirements. Management has a process in place to evaluate internal control over financial reporting based on the criteria established in the Internal Control – Integrated Framework (2013), issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

At least once a year, the Office of the Superintendent of Financial Institutions Canada ('OSFI'), makes such examination and enquiry into the affairs of the bank as deemed necessary to ensure that the provisions of the *Bank Act*, having reference to the rights and interests of the depositors and the creditors of the bank, are being complied with and that the bank is in a sound financial condition.

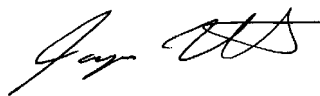
The bank's Board of Directors oversees management's responsibilities for financial reporting through the Audit and Risk Committee, which is composed of directors who are not officers or employees of the bank. The Audit and Risk Committee reviews the bank's interim and annual consolidated financial statements and MD&A. The committee approves the interim statements and recommends the Annual statements for approval by the Board of Directors. Other key responsibilities of the Audit and Risk Committee include monitoring the bank's system of internal control, monitoring its compliance with legal and regulatory requirements, considering the appointment of the Shareholders' auditors and reviewing the qualifications, independence and performance of Shareholders' auditors and internal auditors.

As at 31 December 2016, we, the bank's Chief Executive Officer and Chief Financial Officer, have certified the design and effectiveness of our internal control over financial reporting as defined by the Canadian Securities Administrators under National Instrument 52-109 (Certification of Disclosure in Issuer's Annual and Interim Filings).

The Shareholders' auditors, the bank's Chief Auditor and OSFI have full and free access to the Board of Directors and its committees to discuss audit, financial reporting and related matters.



Sandra Stuart
President and Chief Executive Officer
HSBC Bank Canada



Jacques Fleurant
Chief Financial Officer
HSBC Bank Canada

Vancouver, Canada
16 February 2017

Independent Auditor's Report

To the Shareholders of HSBC Bank Canada

We have audited the accompanying consolidated financial statements of HSBC Bank Canada and its subsidiaries, which comprise the consolidated balance sheets as at December 31, 2016 and 2015 and the consolidated income statements and consolidated statements of comprehensive income, cash flows and changes in equity for the years then ended, and the related notes, which comprise a summary of significant accounting policies and other explanatory information.

Management's responsibility for the consolidated financial statements

Management is responsible for the preparation and fair presentation of these consolidated financial statements in accordance with International Financial Reporting Standards, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express an opinion on these consolidated financial statements based on our audits. We conducted our audits in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the consolidated financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the consolidated financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the consolidated financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements.

We believe that the audit evidence we have obtained in our audits is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of HSBC Bank Canada and its subsidiaries as at December 31, 2016 and 2015 and its financial performance and its cash flows for the years then ended in accordance with International Financial Reporting Standards.

PricewaterhouseCoopers LLP

Chartered Professional Accountants

Vancouver, British Columbia

17 February 2017

Consolidated Financial Statements

Consolidated Financial Statements and Notes on the Consolidated Financial Statements

	Page		Page
Financial Statements			
Consolidated income statement	62	15 Property, plant and equipment	103
Consolidated statement of comprehensive income.....	63	16 Investments in subsidiaries and other entities	104
Consolidated balance sheet	64	17 Other assets	105
Consolidated statement of cash flows.....	65	18 Goodwill and intangible assets	105
Consolidated statement of changes in equity.....	66	19 Trading liabilities	106
		20 Debt securities in issue	106
		21 Financial liabilities designated at fair value.....	106
Notes on the Financial Statements			
1 Basis of presentation	67	22 Other liabilities	106
2 Summary of significant accounting policies ...	71	23 Subordinated liabilities	107
3 Net operating income.....	83	24 Fair values of financial instruments.....	107
4 Employee compensation and benefits.....	83	25 Assets charged as security for liabilities and collateral accepted as security for assets ...	114
5 Share-based payments.....	86	26 Share capital.....	115
6 Tax expense.....	87	27 Notes on the statement of cash flows.....	116
7 Dividends	88	28 Contingent liabilities, contractual commitments and guarantees.....	117
8 Segment analysis.....	88	29 Lease commitments	118
9 Analysis of financial assets and liabilities by measurement basis	92	30 Related party transactions	119
10 Trading assets.....	94	31 Offsetting of financial assets and financial liabilities.....	121
11 Derivatives	94	32 Legal proceedings and regulatory matters ...	123
12 Financial investments	100	33 Events after the reporting period	123
13 Interest rate sensitivity	101		
14 Transfer of financial assets not qualifying for derecognition	103		

Consolidated income statement

For the year ended 31 December (in millions of dollars except per share amounts)

	Notes	2016 \$m	2015 \$m
Interest income		1,744	1,700
Interest expense		(617)	(557)
Net interest income		1,127	1,143
Fee income		735	758
Fee expense		(68)	(75)
Net fee income		667	683
Trading income excluding net interest income		173	41
Net interest income on trading activities		17	40
Net trading income		190	81
Net (expense)/income from financial instruments designated at fair value ..		(4)	3
Gains less losses from financial investments		24	63
Other operating income		75	64
Total operating income		2,079	2,037
Loan impairment charges and other credit risk provisions		(107)	(234)
Net operating income	3	1,972	1,803
Employee compensation and benefits	4, 5	(662)	(673)
General and administrative expenses		(550)	(470)
Depreciation of property, plant and equipment		(33)	(30)
Amortization and impairment of intangible assets		(10)	(13)
Total operating expenses		(1,255)	(1,186)
Operating profit		717	617
Share of profit in associates		(2)	–
Profit before income tax expense		715	617
Income tax expense	6	(191)	(170)
Profit for the year		524	447
Profit attributable to the common shareholder		486	414
Profit attributable to preferred shareholders		38	28
Profit attributable to shareholders		524	442
Profit attributable to non-controlling interests		–	5
Average number of common shares outstanding (000's)		498,668	498,668
Basic earnings per common share		\$ 0.97	\$ 0.83

The accompanying notes and the audited sections of 'Risk management' and 'Capital' and 'Movement in impairment allowances and provision for credit losses' within the Management's Discussion and Analysis form an integral part of these consolidated financial statements.

Consolidated statement of comprehensive income

For the year ended 31 December (in millions of dollars)

	Notes	2016 \$m	2015 \$m
Profit for the year		524	447
Other comprehensive income			
Available-for-sale investments ¹		3	(89)
– fair value gain/(loss)		28	(57)
– fair value loss transferred to income statement on disposal		(24)	(63)
– income (recovery)/taxes		(1)	31
Cash flow hedges ¹		(68)	64
– fair value gain/(loss)		106	(123)
– fair value (loss)/gain transferred to income statement		(198)	210
– income taxes/(recovery)		24	(23)
Remeasurement of defined benefit plans ²		(41)	14
– before income taxes	4	(55)	19
– income taxes	6	14	(5)
Other comprehensive loss for the year, net of tax		(106)	(11)
Total comprehensive income for the year		418	436
Total comprehensive income for the year attributable to:			
– shareholders		418	431
– non-controlling interests		–	5
		418	436

1 Other comprehensive income/(loss) items that can be reclassified into income.

2 Other comprehensive income/(loss) items that cannot be reclassified into income.

The accompanying notes and the audited sections of 'Risk management' and 'Capital' and 'Movement in impairment allowances and provision for credit losses' within the Management's Discussion and Analysis form an integral part of these consolidated financial statements.

Consolidated balance sheet

At 31 December (in millions of dollars)

	Notes	2016 \$m	2015 \$m
ASSETS			
Cash and balances at central banks.....		66	65
Items in the course of collection from other banks.....		58	73
Trading assets.....	10	6,288	3,893
Derivatives.....	11	3,850	4,909
Loans and advances to banks.....		1,071	1,400
Loans and advances to customers.....		46,907	48,378
Reverse repurchase agreements – non-trading.....		5,938	6,807
Financial investments.....	12	25,231	23,935
Other assets.....	17	447	256
Prepayments and accrued income.....		186	194
Customers' liability under acceptances.....		4,322	3,834
Property, plant and equipment.....	15	104	110
Goodwill and intangible assets.....	18	70	61
Deferred taxes.....		119	109
Total assets.....		94,657	94,024
LIABILITIES AND EQUITY			
Liabilities			
Deposits by banks.....		946	2,049
Customer accounts.....		56,674	55,089
Repurchase agreements – non-trading.....		4,345	6,606
Items in the course of transmission to other banks.....		82	219
Trading liabilities.....	19	3,784	1,713
Financial liabilities designated at fair value.....	21	403	414
Derivatives.....	11	3,838	5,005
Debt securities in issue.....	20	10,256	10,896
Other liabilities.....	22	2,610	1,705
Acceptances.....		4,322	3,834
Accruals and deferred income.....		475	474
Retirement benefit liabilities.....	4	342	288
Subordinated liabilities.....	23	1,039	239
Provisions.....		116	110
Current taxes.....		10	7
Total liabilities.....		89,242	88,648
Equity			
Common shares.....	26	1,225	1,225
Preferred shares.....	26	850	850
Other reserves.....		27	92
Retained earnings.....		3,313	3,209
Total shareholders' equity.....		5,415	5,376
Total equity and liabilities.....		94,657	94,024

The accompanying notes and the audited sections of 'Risk management' and 'Capital' and 'Movement in impairment allowances and provision for credit losses' within the Management's Discussion and Analysis form an integral part of these consolidated financial statements.

Approved on behalf of the Board of Directors:



Samuel Minzberg
Chair
HSBC Bank Canada



Sandra Stuart
President and Chief Executive Officer
HSBC Bank Canada

Consolidated statement of cash flows

For the year ended 31 December (in millions of dollars)

	Notes	2016 \$m	2015 \$m
Cash flows from operating activities			
Profit before tax.....		715	617
Adjustments for:			
– non-cash items included in profit before tax.....	27	176	305
– change in operating assets.....	27	878	(3,826)
– change in operating liabilities.....	27	(1,722)	6,774
– tax paid.....		(134)	(220)
Net cash (used in)/from operating activities.....		<u>(87)</u>	<u>3,650</u>
Cash flows from investing activities			
Purchase of financial investments.....		(18,322)	(20,521)
Proceeds from the sale and maturity of financial investments.....		17,029	16,619
Purchase of property, plant and equipment.....		(45)	(34)
Purchase of intangibles.....		–	(3)
Net cash used in investing activities.....		<u>(1,338)</u>	<u>(3,939)</u>
Cash flows from financing activities			
Redemption of subordinated liabilities.....		(200)	–
Issuance of subordinated liabilities.....		1,000	–
Issuance of loans payable.....		671	–
Redemption of preferred shares.....		–	(200)
Distributions to non-controlling interests.....		–	(5)
Dividends paid to shareholders.....		(379)	(360)
Issuance of preferred shares.....		–	500
Net cash from/(used in) financing activities.....		<u>1,092</u>	<u>(65)</u>
Decrease in cash and cash equivalents.....		(333)	(354)
Cash and cash equivalents at the beginning of the year.....		<u>1,983</u>	<u>2,337</u>
Cash and cash equivalents at the end of the year.....	27	<u>1,650</u>	<u>1,983</u>
Interest			
Interest paid.....		(612)	(634)
Interest received.....		1,754	1,700

The accompanying notes and the audited sections of 'Risk management' and 'Capital' and 'Movement in impairment allowances and provision for credit losses' within the Management's Discussion and Analysis form an integral part of these consolidated financial statements.

Consolidated statement of changes in equity

For the year ended 31 December (in millions of dollars)

	Other reserves						Total equity \$m	
	Share capital ¹ \$m	Retained earnings \$m	Available-for-sale fair value reserve \$m	Cash flow hedging reserve \$m	Total other reserves \$m	Total shareholders' equity \$m		Non-controlling interests \$m
At 1 January 2016	2,075	3,209	(33)	125	92	5,376	5,376	
Profit for the year	—	524	—	—	—	524	524	
Other comprehensive income/(loss), net of tax	—	(41)	3	(68)	(65)	(106)	(106)	
Available-for-sale investments	—	—	3	—	3	3	3	
Cash flow hedges	—	(41)	—	(68)	(68)	(68)	(68)	
Remeasurement of defined liability/asset	—	—	—	—	—	(41)	(41)	
Total comprehensive income for the year	—	483	3	(68)	(65)	418	418	
Dividends paid on common shares	—	(341)	—	—	—	(341)	(341)	
Dividends paid on preferred shares	—	(38)	—	—	—	(38)	(38)	
At 31 December 2016	2,075	3,313	(30)	57	27	5,415	5,415	
Other reserves								
	Share capital ¹ \$m	Retained earnings \$m	Available-for-sale fair value reserve \$m	Cash flow hedging reserve \$m	Total other reserves \$m	Total shareholders' equity \$m	Non-controlling interests \$m	Total equity \$m
At 1 January 2015	1,575	3,108	56	61	117	4,800	200	5,000
Profit for the year	—	442	—	—	—	442	5	447
Other comprehensive income/(loss), net of tax	—	14	(89)	64	(25)	(11)	—	(11)
Available-for-sale investments	—	—	(89)	—	(89)	(89)	—	(89)
Cash flow hedges	—	—	—	64	64	64	—	64
Remeasurement of defined liability/asset	—	14	—	—	—	14	—	14
Total comprehensive income for the year	—	456	(89)	64	(25)	431	5	436
Dividends paid on common shares	—	(332)	—	—	—	(332)	—	(332)
Dividends paid on preferred shares	—	(28)	—	—	—	(28)	—	(28)
Distributions to unit holders	—	—	—	—	—	—	(5)	(5)
Issuance of preferred shares	500	—	—	—	—	500	—	500
Redemption of HaTS™	—	—	—	—	—	—	(200)	(200)
Shares issued under employee plan	—	5	—	—	—	5	—	5
At 31 December 2015	2,075	3,209	(33)	125	92	5,376	—	5,376

1 Share capital is comprised of common shares \$1,225m and preferred shares \$850m (2015: \$350m).

The accompanying notes and the audited sections of 'Risk management' and 'Capital' and 'Movement in impairment allowances and provision for credit losses' within the Management's Discussion and Analysis form an integral part of these consolidated financial statements.

Notes on the Consolidated Financial Statements

31 December 2016 and 2015 (*all tabular amounts are in millions of dollars unless stated otherwise*)

1 Basis of presentation

a *Compliance with International Financial Reporting Standards*

International Financial Reporting Standards ('IFRSs') comprise accounting standards as issued or adopted by the International Accounting Standards Board ('IASB') as well as interpretations issued or adopted by the IFRS Interpretations Committee.

HSBC Bank Canada ('the bank', 'we', 'our', 'HSBC') is an indirectly wholly-owned subsidiary of HSBC Holdings plc ('the Parent', 'HSBC Holdings'). In these consolidated financial statements, HSBC Group means the Parent and its subsidiary companies.

The consolidated financial statements of the bank have been prepared in accordance with IFRSs and in consideration of the accounting guidelines as issued by the Office of the Superintendent of Financial Institutions Canada ('OSFI'), as required under Section 308(4) of the *Bank Act*. At 31 December 2016, there were no unendorsed standards effective for the year ended 31 December 2016 affecting these consolidated financial statements and the bank's application of IFRSs results in no differences between IFRSs as issued by the IASB.

b *Standards adopted during the year ended 31 December 2016*

There were no new standards applied during the year ended 31 December 2016. During 2016, the bank adopted a number of interpretations and amendments to standards which had an insignificant effect on these consolidated financial statements.

c *Future accounting developments*

Minor amendments to IFRSs

The IASB has published a number of minor amendments to IFRSs through the Annual Improvements to IFRSs 2012-2014 cycle and in a series of stand-alone amendments. The bank has not early applied any of the amendments effective after 31 December 2016 and it expects they will have an insignificant effect, when applied, on our consolidated financial statements.

Major new IFRSs

The IASB has published IFRS 9 'Financial Instruments', IFRS 15 'Revenue from Contracts with Customers' and IFRS 16 'Leases'.

IFRS 9 'Financial Instruments'

In July 2014, the IASB issued IFRS 9 'Financial Instruments', which is the comprehensive standard to replace IAS 39 'Financial Instruments: Recognition and Measurement', and includes requirements for classification and measurement of financial assets and liabilities, impairment of financial assets and hedge accounting.

Classification and measurement

The classification and measurement of financial assets will depend on how these are managed (the entity's business model) and their contractual cash flow characteristics. These factors determine whether the financial assets are measured at amortized cost, fair value through other comprehensive income ('FVOCI') or fair value through profit or loss ('FVPL'). The combined effect of the application of the business model and the contractual cash flow characteristics tests may result in some differences in the population of financial assets measured at amortized cost or fair value compared with IAS 39.

For financial liabilities designated to be measured at fair value, gains or losses relating to changes in the entity's own credit risk are to be included in other comprehensive income.

Notes on the Consolidated Financial Statements (continued)

1 Basis of presentation (continued)

c Future accounting developments (continued)

Impairment

The impairment requirements apply to financial assets measured at amortized cost and FVOCI, and lease receivables and certain loan commitments and financial guarantee contracts. At initial recognition, an impairment allowance (or provision in the case of commitments and guarantees) is required for expected credit losses ('ECL') resulting from default events that are possible within the next 12 months ('12-month ECL'). In the event of a significant increase in credit risk, an 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 recognized are considered to be 'stage 1'; financial assets which 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 are considered to be in default or otherwise credit impaired are in 'stage 3'.

The assessment of credit risk and the estimation of ECL are required to be unbiased and probability-weighted, and should incorporate all available information which is relevant to the assessment including information about past events, current conditions and reasonable and supportable forecasts of economic conditions at the reporting date. In addition, the estimation of ECL should take into account the time value of money. As a result, the recognition and measurement of impairment is intended to be more forward-looking than under IAS 39 and the resulting impairment charge will tend to be more volatile. It will also tend to result in an increase in the total level of impairment allowances, since all financial assets will be assessed for at least 12-month ECL and the population of financial assets to which lifetime ECL applies is likely to be larger than the population for which there is objective evidence of impairment in accordance with IAS 39.

Hedge accounting

The general hedge accounting requirements aim to simplify hedge accounting, creating a stronger link with risk management strategy and permitting hedge accounting to be applied to a greater variety of hedging instruments and risks, but do not explicitly address macro hedge accounting strategies, which are particularly important for banks. As a result, IFRS 9 includes an accounting policy choice to remain with IAS 39 hedge accounting.

Based on the analysis performed to date, the bank expects to exercise the accounting policy choice to continue IAS 39 hedge accounting and therefore is not currently planning to change hedge accounting, although it will implement the revised hedge accounting disclosures required by the related amendments to IFRS 7 'Financial Instruments: Disclosures'.

Transition

The classification and measurement and impairment requirements are applied retrospectively by adjusting the opening balance sheet at the date of initial application, with no requirement to restate comparative periods. The bank does not intend to restate comparatives. The mandatory application date for the standard as a whole is 1 January 2018, but it is possible to apply the revised presentation for certain liabilities measured at fair value from an earlier date. The bank intends to revise the presentation of fair value gains and losses relating to the entity's own credit risk on certain liabilities in the consolidated financial statements from 1 January 2017. If this presentation was applied at 31 December 2016, the effect would be to increase profit before tax by \$2.7 million with the opposite effect on other comprehensive income based on the change in fair value attributable to changes in bank's credit risk for the year, with no effect on net assets. Further information on the change in fair value attributable to changes in credit risk, including bank's credit risk, is disclosed in note 21. The bank is assessing the impact that the impairment requirements will have on the financial statements.

The bank intends to quantify the potential impact of IFRS 9 once it is practicable to provide reliable estimates, which will be no later than in the Annual Report and Accounts 2017. Until reliable estimates of the impact are available, particularly on the interaction with the regulatory capital requirements, further information on the expected impact on the financial position and on capital planning cannot be provided.

1 Basis of presentation (continued)

c Future accounting developments (continued)

IFRS 15 'Revenue from Contracts with Customers'

In May 2014, the IASB issued IFRS 15 'Revenue from Contracts with Customers'. The original effective date of IFRS 15 has been delayed by one year and the standard is now effective for annual periods beginning on or after 1 January 2018 with early application permitted. IFRS 15 provides a principles-based approach for revenue recognition, and introduces the concept of recognizing revenue for performance obligations as they are satisfied. The standard should be applied retrospectively, with certain practical expedients available. The bank has assessed the impact of IFRS 15 and it expects that the standard will have no significant effect, when applied, on the bank's consolidated financial statements.

IFRS 16 'Leases'

In January 2016, the IASB issued IFRS 16 'Leases' with an effective date of annual periods beginning on or after 1 January 2019. IFRS 16 results in lessees accounting for most leases within the scope of the standard in a manner similar to the way in which finance leases are currently accounted for under IAS 17 'Leases'. Lessees will recognize a 'right of use' asset and a corresponding financial liability on the balance sheet. The asset will be amortized over the length of the lease and the financial liability measured at amortized cost. Lessor accounting remains substantially the same as in IAS 17. The bank is currently assessing the impact of IFRS 16 and it is not practicable to quantify the effect as at the date of the publication of these financial statements. Existing operating lease commitments are set out in note 29.

d Foreign currencies

The bank's consolidated financial statements are presented in Canadian dollars which is also its functional currency. The abbreviation '\$m' represents millions of dollars. All tabular amounts are in millions of dollars except where otherwise noted.

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 that 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 recognized.

e Presentation of information

Certain disclosures required by IFRSs have been included in the audited sections of the Annual Report and Accounts as follows:

- Disclosures required under IFRS 7 'Financial Instruments: Disclosures' concerning the nature and extent of risks relating to financial instruments and reconciliation of allowance accounts for credit losses are included in the audited information within the 'Risk Management' section within Management's Discussion and Analysis;
 - Capital disclosures under IAS 1 'Presentation of financial statements' have been included in the audited information in the 'Capital' section within Management's Discussion and Analysis.
-

f Changes to the presentation of the Financial Statements and Notes on the Financial Statements

During 2016, changes in internal reporting used by management to allocate resources and assess performance resulted in realignments of our operating segments. The most significant change was the elimination of the Other segment and creation of a Corporate Centre. Following is a description of the changes, comparative data have been re-presented accordingly:

- Customer realignment: HSBC conducted a number of internal reviews aligning customer requirements to those global businesses best suited to service their respective needs, resulting in the transfer of a portfolio of customers from CMB to GB&M during the year.
- Creation of a Corporate Centre: During 2016 management made the decision to realign certain functions to a Corporate Centre. These include balance sheet management and interests in associates and joint ventures which were previously included in GB&M and CMB respectively. Corporate Centre also includes items previously in the Other segment.

Notes on the Consolidated Financial Statements (continued)

1 Basis of presentation (continued)

f *Changes to the presentation of the Financial Statements and Notes on the Financial Statement (continued)*

- Allocation of costs: HSBC has reviewed certain functional costs previously reported in Other and allocated these costs to the global businesses.

Deferred tax has been removed from Other assets note 17 and is included on the balance sheet as a separate line item.

Current tax and Provisions have been removed, and Loans payable have been added to Other liabilities note 22. Current tax and Provisions are now presented in Note 9 Analysis of financial assets and liabilities by measurement basis.

g *Critical accounting estimates and assumptions*

The preparation of financial information requires the use of estimates and judgments about future conditions. In view of the inherent uncertainties and the high level of subjectivity involved in the recognition or measurement of items listed below, it is possible that the outcomes in the next financial year could differ from those on which management's estimates are based, resulting in materially different conclusions from those reached by management for the purposes of the 2016 Financial Statements. Management's selection of the bank's accounting policies which contain critical estimates and judgments listed below and discussed in the 'Critical accounting estimates and judgments' section of Management's Discussion and Analysis. It reflects the materiality of the items to which the policies are applied and the high degree of judgment and estimation uncertainty involved.

- Impairment of loans and advances;
- Valuation of financial instruments;
- Deferred tax assets;
- Defined benefit obligations.

h *Segmental analysis*

The bank's operations are managed according to the following global businesses: Commercial Banking, Global Banking and Markets, Retail Banking and Wealth Management as well as Corporate Centre.

Measurement of segmental assets, liabilities, income and expenses is in accordance with the bank'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.

i *Going concern*

The financial statements are prepared on a going concern basis, as the Directors are satisfied that the bank has 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 and capital resources.

2 Summary of significant accounting policies

a Consolidation and related policies

Investments in subsidiaries

The bank controls and consequently 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. Control is initially assessed based on consideration of all facts and circumstances, including the purpose and design of the entity, the facts and circumstances relating to decision making rights and the rights to returns and/or the ability of the bank to vary the returns. Control is subsequently reassessed when there are significant changes to the initial setup, taking into account any changes in these facts and circumstances, significant changes in the rights to returns and/or the ability of the bank to vary the returns.

Where an entity is governed by voting rights, the bank would consolidate 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 judgment of other factors, including having exposure to variability of returns, power over the relevant activities or holding the power as agent or principal.

Business combinations are accounted for using the acquisition method. The cost of an acquisition is measured at the fair value of the consideration, including contingent consideration, given at the date of exchange. Acquisition-related costs are recognized as an expense in the income statement in the period in which they are incurred. The acquired identifiable assets, liabilities and contingent liabilities are generally measured at their fair values at the date of acquisition. 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.

All intra-bank transactions are eliminated on consolidation.

Goodwill

Goodwill is measured as the excess of the aggregate of the consideration transferred, the amount of non-controlling interest and the fair value of the bank's previously held equity interest, if any, over the net of the amounts of the identifiable assets acquired and the liabilities assumed.

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. Impairment testing is performed at least annually, or whenever there is an indication of impairment, by comparing the recoverable amount of a CGU with its carrying amount.

Structured entities

The bank 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 the relevant counterparties to a structured transaction. The bank is not considered to be a sponsor if the only involvement with the entity is to provide services at arm's length and it ceases to be a sponsor once it has no ongoing involvement with the structured entity.

A structured entity is an entity that has been designed so that voting or similar rights are not the dominant factor in deciding who controls the entity, for example when any voting rights relate to administrative tasks only, and key activities are directed by contractual arrangements. Structured entities often have restricted activities and a narrow and well defined objective.

Structured entities are assessed for consolidation in accordance with the accounting policy as set out above.

Interests in associates

The bank classifies investments in entities over which it has significant influence, and that are not subsidiaries (note 16), as associates.

Investments in associates are recognized using the equity method. Under this method, such investments are initially stated at cost, including attributable goodwill, and are adjusted thereafter for the post-acquisition change in the bank's share of net assets.

Profits on transactions between the bank and its associates are eliminated to the extent of the bank's interest in the respective associates. Losses are also eliminated to the extent of the bank's interest in the associates unless the transaction provides evidence of an impairment of the asset transferred.

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

b Operating income

Interest income and expense

Interest income and expense for all financial instruments not carried at fair value: Interest income and expense for all financial instruments except for those classified as held for trading or designated at fair value (except for debt securities issued by the bank and derivatives managed in conjunction with those debt securities) are recognized in 'Interest income' and 'Interest expense' in the income statement using the effective interest method. The effective interest rate is the rate that exactly discounts estimated future cash receipts or payments through the expected life of the financial instrument or, where appropriate, a shorter period, to the net carrying amount of the financial asset or financial liability.

Interest on impaired financial assets is recognized 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

Fee income is earned from a diverse range of services provided by the bank to its customers. Fee income is accounted for as follows:

- income earned on the execution of a significant act is recognized as revenue when the act is completed (for example, fees arising from negotiating, or participating in the negotiation of, a transaction for a third party, such as an arrangement for the acquisition of shares or other securities);
- income earned from the provision of services is recognized as revenue as the services are provided (for example, asset management, portfolio and other management advisory and service fees); and
- income which forms an integral part of the effective interest rate of a financial instrument is recognized as an adjustment to the effective interest rate (for example, certain loan commitment fees) and recorded in 'Interest income'.

Net trading income comprises all changes in the fair value of financial assets and financial liabilities held for trading, together with related interest income, expense and dividends.

Net gain/(losses) from financial instruments designated at fair value includes:

- all gains and losses from changes in the fair value of financial assets and liabilities designated at fair value;
- all gains and losses from changes in the fair value of derivatives that are managed in conjunction with financial assets and liabilities designated at fair value; and
- interest income and expense in respect of financial assets and liabilities designated at fair value as well as derivatives managed in conjunction with the above. However, interest arising from debt securities issued by the bank, and derivatives managed in conjunction with those debt securities is recognized in 'Interest expense'.

Dividend income is recognized 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.

c Valuation of financial instruments

All financial instruments are initially recognized 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, sometimes the fair value will be based on other observable current market transactions in the same instrument, without modification or repackaging, or on a valuation technique whose variables include only data from observable markets, such as interest rate yield curves, option volatilities and currency rates.

The fair value of financial instruments is generally measured on an individual basis. However, in cases where the bank 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 IFRSs' offsetting criteria.

2 Summary of significant accounting policies (continued)

d *Financial instruments measured at amortized cost*

Loans and advances to banks and customers, held-to-maturity investments and most financial liabilities are measured at amortized cost. 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 for some leveraged finance and syndicated lending activities, the difference is deferred and recognized over the life of the loan through the recognition of interest income, unless the loan becomes impaired.

Loans and advances to banks and customers include those originated by the bank, not classified as held for trading or designated at fair value. They are recognized when cash is advanced to a borrower and are derecognized when either the borrower repays its obligations, or the loans are sold or written off, or substantially all the risks and rewards of ownership are transferred. They are initially recorded at fair value plus any directly attributable transaction costs and are subsequently measured at amortized cost using the effective interest method, less impairment allowance.

On inception of the loan, the loan to be held is recorded at its fair value and subsequently measured at amortized cost. For certain transactions, such as leveraged finance and syndicated lending activities, the cash advanced may not be the best evidence of the fair value of the loan. For these loans, where the initial fair value is lower than the cash amount advanced, the difference is charged to the income statement in other operating income. The write-down will be recovered over the life of the loan, through the recognition of interest income, unless the loan becomes impaired. Loans and advances are reclassified to 'Assets held for sale' when they meet the criteria; however, their measurement continues to be in accordance with this policy.

The bank may commit to underwrite loans on fixed contractual terms for specified periods of time. Where the loan arising from the lending commitment is expected to be held for trading, the commitment to lend is recorded as a derivative. On drawdown, the loan is classified as held for trading. Where the bank intends to hold the loan, a provision on the loan commitment is only recorded where it is probable that the bank will incur a loss.

Impairment of loans and advances

Losses for impaired loans are recognized promptly when there is objective evidence that impairment of a loan or portfolio of loans has occurred. Impairment allowances that are calculated on individual loans or on groups of loans assessed collectively, are recorded as charges to the income statement and are recorded against the carrying amount of impaired loans on the balance sheet. Losses which may arise from future events are not recognized.

Individually assessed loans and advances

The factors considered in determining whether a loan is individually significant for the purposes of assessing impairment include the size of the loan, the number of loans in the portfolio, and the importance of the individual loan relationship, and how this is managed.

Loans that meet the above criteria will be individually assessed for impairment, except when volumes of defaults and losses are sufficient to justify collective assessment.

Loans considered as individually significant are typically to corporate and commercial customers, are for larger amounts and are managed on an individual basis. These loans are assessed individually at each balance sheet date whether objective evidence of impairment exists based on the following criteria:

- known cash flow difficulties experienced by the borrower;
- contractual payments of either principal or interest being past due;
- the probability that the borrower will enter bankruptcy or other financial realization;
- a concession granted to the borrower for economic or legal reasons relating to the borrower's financial difficulty that results in forgiveness or postponement of principal, interest or fees, where the concession is not insignificant; and
- there has been deterioration in the financial condition or outlook of the borrower such that its ability to repay is considered doubtful.

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

d Financial instruments measured at amortized cost (continued)

For those loans where objective evidence of impairment exists, impairment losses are determined considering the following factors:

- the bank's aggregate exposure to the customer;
- the viability of the customer's business model and their capacity to trade successfully out of financial difficulties and generate sufficient cash flow to service debt obligations;
- the amount and timing of expected receipts and recoveries;
- the likely dividend available on liquidation or bankruptcy;
- the extent of other creditors' commitments ranking ahead of, or equally with, the bank, and the likelihood of other creditors continuing to support the company;
- the complexity of determining the aggregate amount and ranking of all creditor claims and the extent to which legal and insurance uncertainties are evident;
- the realizable value of security (or other credit mitigants) and likelihood of successful repossession;
- the likely deduction of any costs involved in recovery of amounts outstanding;
- the ability of the borrower to obtain, and make payments in, the currency of the loan if not denominated in local currency; and
- when available, the secondary market price of the debt.

The realizable value of security is determined based on the current market value when the impairment assessment is performed. The value is not adjusted for expected future changes in market prices; however, adjustments are made to reflect local conditions such as forced sale discounts.

Impairment losses are calculated by discounting the expected future cash flows of a loan, which includes expected future receipts of contractual interest, at the loan's original effective interest rate, or an approximation thereof, and comparing the resultant present value with the loan's current carrying amount. The impairment allowances on individually significant accounts are reviewed at least quarterly and more regularly when circumstances require. Individually assessed impairment allowances are only released when there is reasonable and objective evidence of a reduction in the established loss estimate.

Collectively assessed loans and advances

Impairment is assessed collectively to cover losses which have been incurred but have not yet been identified on loans subject to individual assessment or for homogeneous groups of loans that are not considered individually significant. Retail lending portfolios are generally assessed for impairment collectively as the portfolios generally are large homogeneous loans pools.

Incurred but not yet identified impairment

Individually assessed loans for which no evidence of impairment has been specifically identified on an individual basis are grouped together according to their credit risk characteristics for a collective impairment assessment. These credit risk characteristics may include type of business involved, type of products offered, security obtained or other relevant factors. This assessment captures impairment losses that the bank has incurred as a result of events occurring before the balance sheet date, which the bank is not able to identify on an individual loan basis, and that can be reliably estimated. When information becomes available which identifies losses on individual loans within the group, those loans are removed from the group and assessed individually.

The collective impairment allowance is determined after taking into account:

- historical loss experience in portfolios of similar credit risk characteristics (for example, by industry sector, loan grade or product);
- the estimated period between impairment occurring and the loss being identified and evidenced by the establishment of an appropriate allowance against the individual loan; and

2 Summary of significant accounting policies (continued)

d *Financial instruments measured at amortized cost (continued)*

- management's experienced judgment as to whether current economic and credit conditions are such that the actual level of inherent losses at the balance sheet date is likely to be greater or less than that suggested by historical experience.

The period between a loss occurring and its identification is estimated by local management for each identified portfolio based on economic and market conditions, customer behaviour, portfolio management information, credit management techniques and collection and recovery experiences in the market. The estimated period may vary over time as these factors change.

Homogeneous groups of loans and advances

Statistical methods are used to determine collective impairment losses for homogeneous groups of loans not considered individually significant. Losses in these groups of loans are recorded individually when individual loans are removed from the group and written off. The methods that are used to calculate collective allowances are:

- When appropriate empirical information is available, the bank utilizes roll-rate methodology, which employs statistical analysis of historical data and experience of delinquency and default to reliably estimate the amount of loans that will eventually be written off as a result of the events occurring before the balance sheet date and which the bank is not able to identify individually. Individual loans are grouped using ranges of past due days; statistical analysis is then used to estimate the likelihood that loans in each range will progress through the various stages of delinquency and become irrecoverable. Additionally, individual loans are segmented based on their credit characteristics. In applying this methodology, adjustments are made to estimate the periods of time between a loss event occurring and its discovery, for example, through a missed payment (known as the Loss Identification Period). Current economic conditions are also evaluated when calculating the appropriate level of allowance required to cover inherent loss. The estimated loss is the difference between the present value of expected future cash flows, discounted at the original effective interest rate of the portfolio, and the carrying amount of the portfolio.
- When the portfolio size is small or when information is insufficient or not reliable enough to adopt a roll-rate methodology, the bank adopts a basic formulaic approach based on historical loss rate experience, or a discounted cash flow model. Where a basic formulaic approach is undertaken, management estimates that typically it takes between six and twelve months between loss occurring and its identification.

The inherent loss within each portfolio is assessed on the basis of statistical models using historical data observations, which are updated periodically to reflect recent portfolio and economic trends. When the most recent trends arising from changes in economic, regulatory or behavioural conditions are not fully reflected in the statistical models, they are taken into account by adjusting the impairment allowances derived from the statistical models to reflect these changes as at the balance sheet date. Roll rates, loss rates and the expected timing of future recoveries are regularly benchmarked against actual outcomes to ensure they remain appropriate.

Write-off of loans and advances

Loans (and the related impairment allowance accounts) 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 realization of security. In circumstances where the net realizable value of any collateral has been determined and there is no reasonable expectation of further recovery, write-off may be earlier.

Reversals of impairment

If the amount of an impairment loss decreases in a subsequent period, and the decrease can be related objectively to an event occurring after the impairment was recognized, the excess is written back by reducing the loan impairment allowance account accordingly. The write-back is recognized in the income statement.

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

d *Financial instruments measured at amortized cost (continued)*

Assets acquired in exchange for loans

Non-financial assets acquired in exchange for loans as part of an orderly realization are recorded as assets held for sale and reported in 'Other assets' if those assets are classified held for sale. The asset acquired is recorded at the lower of its fair value less costs to sell and the carrying amount of the loan (net of impairment allowance) at the date of exchange. No depreciation is charged in respect of assets held for sale. Impairment and reversals of previous impairments are recognized in the income statement in 'Other operating income' together with any realized gains or losses on disposal.

Renegotiated loans

Loans subject to collective impairment assessment whose terms have been renegotiated are no longer considered past due, but are treated as up to date loans for measurement purposes once a minimum number of payments required have been received. They are segregated from other parts of the loan portfolio for the purposes of collective impairment assessment, to reflect their risk profile. Loans subject to individual impairment assessment, whose terms have been renegotiated, are subject to ongoing review to determine whether they remain impaired. The carrying amounts of loans that have been classified as renegotiated retain this classification until maturity or derecognition, including write-off.

A loan that is renegotiated is derecognized if the existing agreement is canceled and a new agreement made on substantially different terms, or if the terms of an existing agreement are modified, such that the renegotiated loan is substantially a different financial instrument. Any new agreements arising due to a derecognition event will continue to be disclosed as renegotiated loans.

Non-trading reverse repurchase and repurchase agreements

When 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 recognized 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 amortized cost. The difference between the sale and repurchase price or between the purchase and resale price is treated as interest and recognized in net interest income over the life of the agreement.

e *Financial instruments measured at fair value*

Available-for-sale financial assets

Available-for-sale financial assets are recognized on the trade date when the bank enters into contractual arrangements to purchase those instruments, and are normally derecognized when either the securities are sold or redeemed. They are subsequently remeasured at fair value, and changes therein are recognized in other comprehensive income until the assets are either sold or become impaired. Upon disposal, the cumulative gains or losses in other comprehensive income are recognized in the income statement as 'Gains less losses from financial investments'.

Impairment of available-for-sale financial assets

Available-for sale financial assets are assessed at each balance sheet date for objective evidence of impairment. If such evidence exists as a result of one or more events that occurred after the initial recognition of the financial asset (a 'loss event') and that loss event has an impact, which can be reliably measured, on the estimated future cash flows of the financial asset an impairment loss is recognized.

If the available-for-sale financial asset is impaired, the difference between its acquisition cost (net of any principal repayments and amortization) and its current fair value, less any previous impairment loss recognized in the income statement, is recognized in the income statement.

Impairment losses are recognized in the income statement within 'Loan impairment charges and other credit risk provisions' for debt instruments and within 'Gains less losses from financial investments' for available-for-sale securities. The impairment methodologies for available-for-sale financial assets are set out in more detail below:

2 Summary of significant accounting policies (continued)

e *Financial instruments measured at fair value (continued)*

Available-for-sale debt securities

In assessing objective evidence of impairment at the reporting date, the bank considers all available evidence, including observable data or information about events specifically relating to the securities which may result in a shortfall in recovery of future cash flows. Financial difficulties of the issuer, as well as other factors such as information about the issuers' liquidity, business and financial risk exposures, levels of and trends in default for similar financial assets, national and local economic trends and conditions, and the fair value of collateral and guarantees may be considered individually, or in combination, to determine if there is objective evidence of impairment.

In addition, the performance of underlying collateral and the extent and depth of market price declines is relevant when assessing objective evidence of impairment of available-for-sale asset-backed securities ('ABSs'). The primary indicators of potential impairment are considered to be adverse fair value movements and the disappearance of an active market for a security, while changes in credit ratings are of secondary importance.

Available-for-sale equity securities

Objective evidence of impairment may include specific information about the issuer as detailed above, but may also include information about significant changes in technology, markets, economics or the law that provides evidence that the cost of the equity securities may not be recovered.

A significant or prolonged decline in the fair value of the equity below its cost is objective evidence of impairment. In assessing whether it is significant, the decline in fair value is evaluated against the original cost of the asset at initial recognition. In assessing whether it is prolonged, the decline is evaluated against the continuous period in which the fair value of the asset has been below its original cost at initial recognition.

Once an impairment loss has been recognized, the subsequent accounting treatment for changes in the fair value of that asset differs depending on the type of asset:

- for an available-for-sale debt security, a subsequent decline in the fair value of the instrument is recognized in the income statement when there is further objective evidence of impairment as a result of further decreases in the estimated future cash flows of the financial asset. Where there is no further objective evidence of impairment, the decline in the fair value of the financial asset is recognized in other comprehensive income. If the fair value of a debt security increases in a subsequent period, and the increase can be objectively related to an event occurring after the impairment loss was recognized in the income statement, or the instrument is no longer impaired, the impairment loss is reversed through the income statement; and
- for an available-for-sale equity security, all subsequent increases in the fair value of the instrument are treated as a revaluation and are recognized in other comprehensive income. Impairment losses recognized on the equity security are not reversed through the income statement. Subsequent decreases in the fair value of the available-for-sale equity security are recognized in the income statement, to the extent that further cumulative impairment losses have been incurred.

f *Financial instruments designated at fair value*

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:

- eliminates or significantly reduces measurement or recognition inconsistencies that would otherwise arise from measuring financial instruments, or recognizing gains and losses on different bases from related positions. Under this criterion, the main classes of financial liabilities designated by the bank are issued subordinated debt. The interest payable on certain fixed rate long-term debt instruments issued has been matched with certain interest rate swaps as part of a documented interest rate risk management strategy. An accounting mismatch would arise if the debt instruments issued were accounted for at amortized cost, and this mismatch is eliminated through the fair value designation;

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

f Financial instruments designated at fair value (continued)

- applies to groups of financial instruments that are managed, and their performance evaluated, on a fair value basis in accordance with a documented risk management or investment strategy, and where information about the groups of financial instruments is reported to management on that basis;
- relates to financial instruments containing one or more non-closely related embedded derivatives.

The fair value designation, once made, is irrevocable. Designated financial assets are recognized when HSBC enters into contracts with counterparties, which is generally on trade date, and are normally derecognized when sold. Designated financial liabilities are recognized when the bank enters into the contracts with counterparties, which is generally on settlement date, and are normally derecognized when extinguished. Subsequent changes in fair values are recognized in the income statement in 'Net income from financial instruments designated at fair value'.

Derivatives

Derivatives are initially recognized, and are subsequently re-measured, at fair value. Fair values of derivatives are obtained either from quoted market prices or by using valuation techniques. Derivatives are only offset for accounting purposes if the offsetting criteria are met.

Embedded derivatives are treated as separate derivatives ('bifurcated') when their economic characteristics and risks are not clearly and closely related to those of the host non-derivative contract, their contractual terms would otherwise meet the definition of a stand-alone derivative and the combined contract is not held for trading or designated at fair value. The bifurcated embedded derivatives are measured at fair value with changes therein recognized in the income statement.

Derivatives are classified as assets when their fair value is positive or as liabilities when their fair value is negative. Derivative assets and liabilities arising from different transactions are only offset if the transactions are with the same counterparty, a legal right of offset exists, and the parties intend to settle the cash flows on a net basis.

Gains and losses from changes in the fair value of derivatives, including the contractual interest, that do not qualify for hedge accounting are reported in 'Net trading income' except for derivatives managed in conjunction with financial instruments designated at fair value, where gains and losses are reported in 'Net income from financial instruments designated at fair value' together with the gains and losses on the economically hedged items. Where the derivatives are managed with debt securities in issue, the contractual interest is shown in 'Interest expense' together with the interest payable on the issued debt.

When derivatives are designated as hedges, the bank classifies them as either: (i) hedges of the change in fair value of recognized assets or liabilities or firm commitments ('fair value hedges'); or (ii) hedges of the variability in highly probable future cash flows attributable to a recognized asset or liability, or a forecast transaction ('cash flow hedges').

Hedge accounting

At the inception of a hedging relationship, the bank documents the relationship between the hedging instruments and the hedged items, its risk management objective and its strategy for undertaking the hedge. The bank requires a documented assessment, both at hedge inception and on an ongoing basis, of whether or not the hedging instruments are highly effective in offsetting the changes attributable to the hedged risks in the fair values or cash flows of the hedged items.

Fair value hedge:

Changes in the fair value of derivatives that are designated and qualify as fair value hedging instruments are recorded in the income statement, along with changes in the fair value of the hedged assets, liabilities or group thereof in relation to the risk being hedged. If a hedging relationship no longer meets the criteria for hedge accounting, the hedge accounting is discontinued: the cumulative adjustment to the carrying amount of the hedged item is amortized to the income statement on a recalculated effective interest rate over the residual period to maturity, unless the hedged item has been derecognized.

2 Summary of significant accounting policies (continued)

f Financial instruments designated at fair value (continued)

Cash flow hedge:

The effective portion of changes in the fair value of derivatives that are designated and qualify as cash flow hedges is recognized in other comprehensive income; the residual change in fair value is recognized immediately in the income statement.

The accumulated gains and losses recognized in other comprehensive income are reclassified to the income statement in the periods in which the hedged item affects profit or loss. In hedges of forecasted transactions that result in recognition of a non-financial asset or liability, previous gains and losses recognized in other comprehensive income are included in the initial measurement of the asset or liability.

When a hedge relationship is discontinued, any cumulative gain or loss recognized in other comprehensive income remains in equity until the forecast transaction is recognized in the income statement. When a forecast transaction is no longer expected to occur, the cumulative gain or loss previously recognized in other comprehensive income is immediately reclassified to the income statement.

Hedge effectiveness testing

To qualify for hedge accounting, the bank requires that, at the inception of the hedge and throughout its life, each hedge must be expected to be highly effective both prospectively and retrospectively, on an ongoing basis.

The documentation of each hedging relationship sets out how the effectiveness of the hedge is assessed and the method adopted by an entity to assess hedge effectiveness will depend on its risk management strategy. For prospective effectiveness, the hedging instrument must be expected to be highly effective in offsetting changes in fair value or cash flows attributable to the hedged risk during the period for which the hedge is designated, with the effectiveness range being defined as 0.8 to 1.25. Hedge ineffectiveness is recognized in the income statement in 'Net trading income'.

Derivatives that do not qualify for hedge accounting

Non-qualifying hedges are economic hedges entered into as part of documented interest rate management strategies for which hedge accounting was not applied. Changes in fair value of non-qualifying hedges do not alter the cash flows expected as part of the documented management strategies for both the non-qualifying hedge instruments and the related assets and liabilities.

Trading assets and trading liabilities

Financial assets and liabilities are classified as held for trading if they have been acquired principally for the purpose of selling or repurchasing in the near term, or they form part of a portfolio of identified financial instruments that are managed together and for which there is evidence of a recent pattern of short-term profit-taking. They are recognized on trade date, when the bank enters into contractual arrangements with counterparties, and are normally derecognized when these assets are sold or when these liabilities are extinguished. They are initially measured at fair value, with transaction costs taken to the income statement. Subsequent changes in their fair values and interest earned or paid are recognized in the income statement in 'Net trading income'.

Derecognition of financial assets

Financial assets are derecognized when the contractual right to receive cash flows from the assets has expired; or when the bank has transferred its contractual right to receive the cash flows of the financial assets, and either:

- substantially all the risks and rewards of ownership have been transferred; or
- the bank has neither retained nor transferred substantially all the risks and rewards, but has not retained control.

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

g Employee compensation and benefits

Post-employment benefits

The bank operates a number of pension and other post-employment benefit plans. These plans include both defined benefit and defined contribution plans and various other post-employment benefits such as post-employment healthcare. The pension plans are funded by contributions from the bank and its employees, while the supplemental pension arrangements are not funded.

Payments to defined contribution plans are charged as an expense as the employees render service.

The defined benefit pension costs and the present value of defined benefit obligations are calculated at the reporting date by the schemes' actuaries 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 liability and is presented in operating expenses.

The past service cost which is charged immediately to the income statement, is the change in the present value of the defined benefit obligation for employee service in prior periods, resulting from a plan amendment (the introduction or withdrawal of, or changes to, a defined benefit plan) or curtailment (a significant reduction by the entity in the number of employees covered by a plan). A settlement is a transaction that eliminates all further legal and constructive obligations for part or all of the benefits provided under a defined benefit plan, other than a payment of benefits to, or on behalf of, employees that is set out in the terms of the plan and included in the actuarial assumptions.

Re-measurements of the net defined benefit 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 recognized immediately in other comprehensive income.

Actuarial gains and losses comprise experience adjustments (the effects of differences between the previous actuarial assumptions and what has actually occurred), as well as the effects of changes in actuarial assumptions.

The net defined benefit asset or liability represents the present value of defined benefit obligations reduced by the fair value of plan assets 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 defined benefit plans, such as defined benefit health-care plans, are accounted for on the same basis as defined benefit pension plans.

Share-based payments

HSBC enters into both equity-settled and cash-settled share-based payment arrangements with its employees as compensation for services provided by employees.

The vesting period for these schemes may commence before the grant date if the employees have started to render services in respect of the award before the grant date. Expenses are recognized when the employee starts to render service to which the award relates.

HSBC Holdings is the grantor of its equity instruments awarded to employees of the bank. The bank is required to partially fund share-based payment arrangements awarded to its employees. The cost of share-based payment arrangements with employees is measured by reference to the fair value of equity instruments on the date they are granted, and recognized as an expense on a straight-line basis over the vesting period. As a result of the bank's share-based payment arrangements being accounted for as equity-settled, the difference between the share-based payment expense, and the fair value of the equity instruments issued to satisfy those arrangements, is recognized in 'Retained Earnings' over the upon vesting.

Fair value is determined by using appropriate valuation models, taking into account the terms and conditions of the award. Vesting conditions include service conditions and performance conditions; any other features of the arrangement are non-vesting conditions. Market performance conditions and non-vesting conditions are taken into account when estimating the fair value of the award at the grant date. They are taken into account by adjusting the number of equity instruments included in the measurement of the transaction.

A cancellation that occurs during the vesting period is treated as an acceleration of vesting, and recognized immediately for the amount that would otherwise have been recognized for services over the vesting period. Failure to meet a vesting condition by the employee is not treated as a cancellation and the amount of expense recognized for the award is adjusted to reflect the number of awards expected to vest.

2 Summary of significant accounting policies (continued)

h Tax

Income tax comprises current tax and deferred tax. Income tax is recognized in the income statement except to the extent that it relates to items recognized in other comprehensive income or directly in equity, in which case it is recognized in the same statement in which the related item appears.

Current tax is the tax expected to be payable on the taxable profit for the year, calculated using tax rates enacted or substantively enacted by the balance sheet date, and any adjustment to tax payable in respect of previous years. The bank provides for potential current tax liabilities that may arise on the basis of the amounts expected to be paid to the tax authorities. Current tax assets and liabilities are offset when the bank intends to settle on a net basis and the legal right to offset exists.

Deferred tax is recognized 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 liabilities are generally recognized for all taxable temporary differences and deferred tax assets are recognized to the extent that it is probable that future taxable profits will be available against which deductible temporary differences can be utilized.

Deferred tax is calculated using the tax rates expected to apply in the periods in which the assets will be realized or the liabilities settled, based on tax rates and laws enacted, or substantively enacted, by the balance sheet date. Deferred tax assets and liabilities are offset when the bank has a legal right to offset.

Deferred tax relating to actuarial gains and losses on post-employment benefits is recognized in other comprehensive income. Deferred tax relating to share-based payment transactions is recognized directly in equity to the extent that the amount of the estimated future tax deduction exceeds the amount of the related cumulative remuneration expense. Tax relating to fair value re-measurements of available-for-sale investments and cash flow hedging instruments which are charged or credited directly to other comprehensive income is recognized in the statement of comprehensive income and is subsequently recognized in the income statement when the deferred fair value gain or loss is recognized in the income statement.

i Provisions, contingent liabilities and guarantees

Provisions

Provisions represent liabilities of uncertain timing or amount and are recognized when the bank has a present legal or constructive obligation as a result of a past event which results in a probable outflow of resources to settle the obligation and when a reliable estimate can be made of the obligation at the reporting date. Provisions are measured based upon the best estimate of the amount that would be required to settle the provision at the reporting date. The bank makes provisions for undrawn commitments and guarantees to reflect the best estimate of losses incurred by the bank at the reporting date. In other instances the bank may periodically make provisions for other matters such as litigation in instances where the recognition criteria described above is met.

Contingent liabilities

Contingent liabilities are possible obligations that arise from past events whose existence will be confirmed by uncertain future events not wholly within the control of the bank; or are present obligations that have arisen from past events where it is not probable that settlement will require the outflow of economic benefits or because the amount of settlement cannot be reliably measured. 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 recognized in the financial statements but are disclosed unless the probability of settlement is remote.

Financial guarantee contracts

Financial guarantee contracts are contracts that require the bank to make specified payments to reimburse the holder for a loss incurred because a specified debtor fails to make payment when due. Liabilities under financial guarantee contracts are recorded initially at their fair value, which is generally the fee received or receivable. Subsequently, financial guarantee liabilities are measured at the higher of the initial fair value, less cumulative amortization, and the best estimate of the expenditure required to settle the obligations.

Notes on the Consolidated Financial Statements (continued)

2 Summary of significant accounting policies (continued)

j Lease commitments

Agreements which transfer substantially all the risks and rewards incidental to the ownership of assets, are classified as finance leases. As a lessor under finance leases, the bank presents the amounts due under the leases, after deduction of unearned charges, in 'Loans and advances to banks' or 'Loans and advances to customers'.

All other leases are classified as operating leases. As lessor, the bank presents assets subject to operating leases in 'Property, plant and equipment'. Impairment losses are recognized to the extent that carrying values are not fully recoverable. As lessee, leased assets are not recognized on the balance sheet.

Finance income or charges on the finance lease are recognized in 'Net interest income' over the lease periods so as to give a constant rate of return. Rentals payable and receivable under operating leases are spread on a straight-line basis over the lease periods and are recognized in 'General and administrative expenses' or in 'Other operating income'.

k Offsetting of financial assets and financial liabilities

Financial assets and financial liabilities are offset and the net amount is reported in the balance sheet when there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis, or realize the asset and settle the liability simultaneously.

l Property, plant and equipment

Land and buildings are stated at historical cost, or fair value at the Parent's date of transition to IFRSs ('deemed cost'), less impairment losses and depreciation over their estimated useful lives, as follows:

- freehold land is not depreciated;
- freehold buildings are depreciated over their estimated useful lives, which are generally between 20 and 40 years; and
- leasehold improvements are depreciated over the shorter of their unexpired lease terms of the leases or their remaining useful lives.

Equipment, fixtures and fittings (including equipment on operating leases where the bank is the lessor) are stated at cost less impairment losses and depreciation over their useful lives, which are generally between 3 and 5 years.

Property, plant and equipment is subject to an impairment review if their carrying amount may not be recoverable.

m Intangible assets

The bank's intangible assets include both purchased and internally generated computer software. The cost of internally generated software comprises all directly attributable costs necessary to create, produce and prepare the software to be capable of operating in the manner intended by management. Costs incurred in the ongoing maintenance of software are expensed immediately as incurred.

Intangible assets are subject to impairment review if there are events or changes in circumstances that indicate that the carrying amount may not be recoverable. Computer software is stated at cost less amortization and accumulated impairment losses and is amortized over the estimated useful life of between 3 and 5 years.

n Share capital

Financial instruments issued are generally classified as equity when there is no contractual obligation to transfer cash or other financial assets. Incremental costs directly attributable to the issue of equity instruments are shown in equity as a deduction from the proceeds, net of tax.

o Cash and cash equivalents

Cash and cash equivalents include highly liquid investments that are readily convertible to known amounts of cash and which are subject to an insignificant risk of change in value. Such investments are normally those with less than three months' maturity from the date of acquisition, and include cash and balances at the central bank, debt securities, loans and advances to banks, items in the course of collection from or in transmission to other banks and certificates of deposit.

3 Net operating income

Net operating income is stated after the following items of income, expense, and loan impairment charges and other credit risk provisions:

	2016	2015
	\$m	\$m
Income		
Interest recognized on impaired financial assets	20	9
Fees earned on financial assets or liabilities not held for trading nor designated at fair value, other than fees included in effective interest rate calculations on these types of assets and liabilities	368	380
Fees earned on trust and other fiduciary activities where the bank holds or invests assets on behalf of its customers	180	178
Expense		
Interest on financial instruments, excluding interest on financial liabilities held for trading or designated at fair value	(576)	(545)
Fees payable on financial assets or liabilities not held for trading nor designated at fair value, other than fees included in effective interest rate calculations on these types of assets and liabilities	(39)	(42)
Fees payable on trust and other fiduciary activities where the bank holds or invests assets on behalf of its customers	(9)	(13)
Loan impairment charge and other credit risk provisions		
Net impairment charge on loans and advances	(124)	(177)
Other credit risk provisions	17	(57)

4 Employee compensation and benefits

	2016	2015
	\$m	\$m
<i>Total employee compensation</i>		
Wages and salaries	534	536
Post-employment benefits	66	66
Other	62	71
	<u>662</u>	<u>673</u>

Post-employment benefits

We sponsor a number of defined benefit and defined contribution plans providing pension, other retirement and post-employment benefits to eligible employees. Non-pension plans are comprised of healthcare and other post-employment benefits and are not funded.

	2016	2015
	\$m	\$m
<i>Income statement charge</i>		
Defined benefit plans		
Pension plans	17	17
Non-pension plans	13	14
Defined contribution pension plans	36	35
Post-employment benefits	<u>66</u>	<u>66</u>

Notes on the Consolidated Financial Statements (continued)

4 Employee compensation and benefits (continued)

Post-employment defined benefit plans

Principal actuarial assumptions

The principal actuarial financial assumptions used to calculate the bank's obligations under its defined plans are presented in the table below. The 2016 and 2015 assumptions will also form and have formed the basis for measuring periodic costs under the plans in 2017 and 2016 respectively.

	Pension plans		Non-pension plans	
	2016	2015	2016	2015
	%	%	%	%
Discount rate	3.75	4.00	3.75	4.00
Rate of pay increase	2.75	2.75	2.75	2.75
Healthcare cost trend rates – Initial rate	n/a	n/a	7.50	7.50
Healthcare cost trend rates – Ultimate rate ¹	n/a	n/a	5.00	5.00

1 The non-pension 'Healthcare cost trend rates – Ultimate rate' is applied from 2021.

The bank determines the discount rates to be applied to its obligations in consultation with the plans' actuaries, on the basis of the current average yield of high quality Canadian corporate bonds, with maturities consistent with those of the defined benefit obligations. At 31 December 2016, the weighted average duration of the defined benefit obligation was 16.8 years (2015: 16.8 years).

Mortality assumption

Assumptions regarding future mortality have been based on published mortality tables. The life expectancies underlying the defined benefit obligation at the reporting dates are as follows:

	Average years from age 65	
	2016	2015
For a male currently aged 65	22	22
For a male currently aged 45	23	23
For a female currently aged 65	24	24
For a female currently aged 45	25	25

Actuarial assumption sensitivities

The following table shows the effect of a ¼ percentage point change ('25bps') in key assumptions on the present value of defined benefit obligation as at 31 December:

Pension plans

	2016	2015
	\$m	\$m
Discount rate		
Change in defined benefit obligation at year end from a 25 bps increase	(27)	(26)
Change in defined benefit obligation at year end from a 25 bps decrease.....	28	27
Rate of pay increase		
Change in defined benefit obligation at year end from a 25 bps increase	5	5
Change in defined benefit obligation at year end from a 25 bps decrease.....	(5)	(5)

Non-pension plans

Change in defined benefit obligation at year end from a 25 bps increase		
in the discount rate	(9)	(8)
Increase in defined benefit obligation from each additional year of longevity assumed....	9	9

4 Employee compensation and benefits (continued)

Plan Assets

	2016 \$m	2015 \$m
<i>Fair value of plan assets</i>		
Equities	54	159
Bonds	519	404
Other – principally bank balances and short-term investments	5	6
	578	569

Fair value of plan assets and present value of defined benefit obligations

	Pension plans		Non-pension plans	
	2016 \$m	2015 \$m	2016 \$m	2015 \$m
<i>Fair value of plan assets</i>				
At 1 January	569	544	–	–
Interest on plan assets	23	21	–	–
Contributions by the bank	25	30	4	4
Contributions by employees	1	1	–	–
Experience gains	(10)	3	–	–
Benefits paid	(29)	(29)	(4)	(4)
Non-investment expenses	(1)	(1)	–	–
Distributed on settlements	–	–	–	–
At 31 December	578	569	–	–
<i>Present value of defined benefit obligations</i>				
At 1 January	(658)	(653)	(178)	(189)
Current service cost	(10)	(11)	(6)	(6)
Interest cost	(26)	(25)	(7)	(8)
Contributions by employees	(1)	(1)	–	–
Actuarial gains/(losses) arising from changes in:				
– Demographic assumptions	–	–	–	–
– Financial assumptions	(27)	10	(9)	4
– Experience adjustments	1	(7)	1	17
Benefits paid	29	29	4	4
Past service cost	–	–	–	–
Liabilities extinguished on curtailments and settlements	–	–	–	–
At 31 December	(692)	(658)	(195)	(178)
Funded	(627)	(595)	–	–
Unfunded	(65)	(63)	(195)	(178)
Other – effect of limit on plan surpluses	(32)	(20)	–	–
Net liability	(146)	(109)	(195)	(178)

The actual return on plan assets for the year ended 31 December 2016 was \$13m (2015: \$24m).

Actuarial valuations for the majority of the bank's pension plans are prepared annually and for non-pension arrangements triennially. The most recent actuarial valuations of the defined benefit pension plans for funding purposes were conducted as at 31 December 2015 and the most recent actuarial valuation of the non-pension arrangements was as at 31 December 2014. Based on the most recent valuations of the plans, the bank expects to make \$28.4m of contributions to defined benefit pension plans during 2017.

Notes on the Consolidated Financial Statements (continued)

4 Employee compensation and benefits (continued)

The defined benefit pension plans expose the bank to risks, including: interest rate risk to the extent that the assets are not invested in bonds that match the plans' obligations, general market risk in respect of its equity investments, and longevity risk in respect of pensioners and beneficiaries living longer than assumed. These risks would be realized through higher pension costs and a higher defined benefit liability.

The bank takes steps to manage these risks through an asset liability management program, which includes reducing interest rate and market risk over time by increasing its asset allocation to bonds that more closely match the plan's obligations.

Summary of remeasurement, net on defined benefit obligations

	Pension plans		Non-pension plans	
	2016 \$m	2015 \$m	2016 \$m	2015 \$m
Experience gain on plan assets	(10)	3	–	–
Demographic assumptions	–	–	–	–
Financial assumptions	(27)	10	(9)	4
Experience adjustments	1	(6)	1	17
Effect of increase in limit on plan surpluses	(11)	(9)	–	–
	(47)	(2)	(8)	21

5 Share-based payments

Share-based payments income statement charge

	2016 \$m	2015 \$m
Restricted share awards.....	8	11

During 2016, \$8m was charged to the income statement in respect of share-based payment transactions (2015: \$11m) mostly relating to restricted share awards. These awards are generally granted to employees early in the year following the year to which the award relates. The charge for these awards is recognized from the start of the period to which the service relates to the end of the vesting period. The vesting period is the period over which the employee satisfies certain service conditions in order to become entitled to the award. Due to the staggered vesting profile of certain deferred share awards, the employee becomes entitled to a portion of the award at the end of each year during the vesting period. The income statement charge reflects this vesting profile.

The purpose of restricted share awards is to support retention of key employees, and to reward employee performance and potential. Vesting of restricted share awards is generally subject to continued employment with a vesting period of three years and may be subject to performance conditions.

The weighted average fair value of shares awarded by the HSBC Group for restricted share awards in 2016 was \$9.92 per share (2015: \$10.72 per share). Fair value is measured at the prevailing market price at the date of the share award.

The bank carries a liability in respect of restricted share awards of \$11m as at 31 December 2016 (2015: \$9m) to its parent, HSBC Holdings, for the funding of awards that will vest in the future.

6 Tax expense

	2016 \$m	2015 \$m
Current taxation		
Federal.....	106	99
Provincial.....	79	75
Effective tax rate.....	<u>185</u>	<u>174</u>
Deferred taxation		
Origination and reversal of temporary differences.....	6	(4)
Tax expense.....	<u>191</u>	<u>170</u>

The provision for income taxes shown in the consolidated income statement is at a rate that is different than the combined federal and provincial statutory income tax rate for the following reasons:

<i>Analysis of tax expense</i>	2016 %	2015 %
Combined federal and provincial income tax rate.....	26.2	26.3
Adjustments resulting from:		
Adjustments related to prior years.....	-	-
Substantively enacted tax rate changes.....	-	-
Other, net.....	0.5	1.5
Effective tax rate.....	<u>26.7</u>	<u>27.8</u>

In addition to the amount charged to the income statement, the aggregate amount of current and deferred taxation relating to items that are taken directly to equity was a \$38m increase in equity (2015: \$3m increase in equity).

Deferred taxation

Movement in deferred taxation during the year:

	2016 \$m	2015 \$m
At 1 January.....	109	112
Income statement charge.....	(5)	5
Other movements.....	-	(2)
Other comprehensive income:		
Share-based payments.....	-	(2)
Actuarial gains and losses.....	15	(4)
At 31 December.....	<u>119</u>	<u>109</u>

The amount of deferred taxation accounted for in the balance sheet comprised the following deferred tax assets and liabilities:

	2016 \$m	2015 \$m
Deferred tax assets		
Retirement benefits.....	90	76
Loan impairment allowances.....	85	93
Property, plant and equipment.....	2	1
Assets leased to customers.....	(101)	(102)
Share-based payments.....	5	4
Relief for tax losses carried forward.....	2	3
Other temporary differences.....	36	34
Net deferred tax asset.....	<u>119</u>	<u>109</u>

The amount of temporary differences for which no deferred tax asset is recognized in the balance sheet is \$4.2m (2015: \$4.2m). This amount is in respect of capital losses where the recoverability of potential benefits is not considered likely. The entire amount has no expiry date.

Notes on the Consolidated Financial Statements (continued)

6 Tax expense (continued)

Deferred tax is not recognized in respect of the bank's investments in subsidiaries where remittance of retained earnings is not contemplated, and for those associates where it has been determined that no additional tax will arise. The aggregate amount of temporary differences associated with investments where no deferred tax liability is recognized is \$367m (2015: \$544m).

On the evidence available, including management's updated analysis and projection of income, there will be sufficient taxable income generated by the bank to support the recognition of its net deferred tax asset.

7 Dividends

Dividends on our shares declared and paid, and distributions per unit on our HSBC HaTS™ in each of the last two years were as follows:

	2016		2015	
	\$per share/unit	\$m	\$per share/unit	\$m
Common Shares		341		332
Preferred Shares Class 1				
Series C	1.275	9	1.275	9
Series D	1.250	9	1.250	9
Series G ¹	1.000	20	0.500	10
HSBC HaTS™				
Series 2015 ²	–	–	25.75	5

1 Preferred shares – Class 2, Series G were issued on 30 June 2015.

2 HSBC HaTS™ Series 2015 were redeemed on 30 June 2015.

8 Segment analysis

We manage and report our operations according to four operating segments: three global businesses and a corporate centre. The three global businesses are Commercial Banking, Global Banking and Markets, Retail Banking and Wealth Management. Various estimate and allocation methodologies are used in the preparation of the segment financial information. We allocate expenses directly related to earning revenues to the segment that earned the related revenue. Expenses not directly related to earning revenue, such as overhead expenses, are allocated using appropriate formulas. Segments' net interest income reflects internal funding charges and credits on the global businesses' assets, liabilities and capital, at market rates, taking into account relevant terms. The offset of the net impact of these charges and credits is reflected in Corporate Centre.

A description of each operating segment is as follows:

Commercial Banking

Commercial Banking serves customers ranging from small enterprises focused primarily on domestic markets through to corporates operating globally. It supports customers with tailored financial products and services to allow them to operate efficiently and to grow. Services provided include working capital, term loans, payment services and international trade facilitation, among other services, as well as expertise in mergers and acquisitions, and access to financial markets.

Global Banking and Markets

Global Banking and Markets provides tailored financial solutions to major government, corporate and institutional clients worldwide. Managed as a global business, Global Banking and Markets operates a long-term relationship management approach to build a full understanding of clients' financial requirements. Sector-focused client service teams comprising of relationship managers and product specialists develop financial solutions to meet individual client needs. Global Banking and Markets is managed as three principal business lines: Markets, Capital Financing and Banking.

8 Segment analysis (continued)

Retail Banking and Wealth Management

Retail Banking and Wealth Management provides banking and wealth management services for our personal customers to help them to manage their finances and protect and build their financial future. Customer offerings include: liability-driven services (deposits and account services), asset-driven services (credit and lending), and fee-driven and other services (financial advisory and asset management).

Corporate Centre

Corporate Centre contains balance sheet management, interests in associates and joint ventures, the results of movements in fair value of own debt, expense related to information technology services provided to HSBC Group companies on an arm's length basis with associated recoveries and other transactions which do not directly relate to our global businesses.

	2016 \$m	2015 \$m
<i>Commercial Banking</i>		
Net interest income	525	585
Net fee income	293	295
Net trading income.....	31	31
Gains less losses from financial investments.....	2	–
Other operating income.....	18	25
Total operating income.....	869	936
Loan impairment charges and other credit risk provisions	(90)	(211)
Net operating income	779	725
Total operating expenses.....	(392)	(426)
Profit before income tax expense.....	387	299
<i>Global Banking and Markets</i>		
Net interest income	75	61
Net fee income	158	162
Net trading income.....	124	48
Losses from financial investments.....	(1)	–
Other operating income.....	(6)	–
Net operating income	350	271
Loan impairment charges and other credit risk provisions	(10)	(12)
Net operating income	340	259
Total operating expenses.....	(134)	(133)
Profit before income tax expense.....	206	126
<i>Retail Banking and Wealth Management</i>		
Net interest income	402	393
Net fee income	216	226
Net trading income.....	22	22
Gains less losses from financial investments.....	1	–
Other operating income.....	13	12
Total operating income.....	654	653
Loan impairment charges and other credit risk provisions	(7)	(11)
Net operating income	647	642
Total operating expenses.....	(587)	(568)
Profit before income tax expense.....	60	74

Notes on the Consolidated Financial Statements (continued)

8 Segment analysis (continued)

	2016 \$m	2015 \$m
<i>Corporate Centre</i>		
Net interest expense	125	104
Net trading income/(loss).....	13	(20)
Net (loss)/income from financial instruments designated at fair value	(4)	3
Gains less losses from financial investments.....	22	63
Other operating income.....	50	27
Total operating income.....	206	177
Total operating expenses.....	(142)	(59)
Share of loss in associates.....	(2)	–
Profit before income tax expense.....	62	118

Other information about the profit/(loss) for the year

	<i>Commercial Banking \$m</i>	<i>Global Banking and Markets \$m</i>	<i>Retail Banking and Wealth Management \$m</i>	<i>Corporate Centre \$m</i>	<i>Total \$m</i>
Year ended 31 December 2016					
Net operating income	779	340	647	206	1,972
External	788	265	702	217	1,972
Inter-segment	(9)	75	(55)	(11)	–
Year ended 31 December 2015					
Net operating income	725	258	642	178	1,803
External	690	215	720	178	1,803
Inter-segment	35	43	(78)	–	–

8 Segment analysis (continued)

Balance sheet information

	<i>Commercial Banking \$m</i>	<i>Global Banking and Markets \$m</i>	<i>Retail Banking and Wealth Management \$m</i>	<i>Corporate Centre \$m</i>	<i>Intersegment \$m</i>	<i>Total \$m</i>
At 31 December 2016						
Loans and advances to customers (net)	19,351	3,299	24,257	–	–	46,907
Customers' liability under acceptances....	2,810	1,512	–	–	–	4,322
Total assets	27,741	21,634	29,817	29,276	(13,811)	94,657
Customer accounts	21,659	6,130	26,705	2,180	–	56,674
Acceptances	2,810	1,512	–	–	–	4,322
Total liabilities.....	24,902	19,876	28,999	29,276	(13,811)	89,242
At 31 December 2015						
Loans and advances to customers (net)	19,872	4,379	24,127	–	–	48,378
Customers' liability under acceptances....	2,563	1,271	–	–	–	3,834
Total assets	27,439	22,628	28,669	29,185	(13,897)	94,024
Customer accounts	21,552	5,306	25,631	2,600	–	55,089
Acceptances	2,563	1,271	–	–	–	3,834
Total liabilities.....	24,466	21,004	27,890	29,185	(13,897)	88,648

Notes on the Consolidated Financial Statements (continued)

9 Analysis of financial assets and liabilities by measurement basis

Financial assets and financial liabilities are measured on an ongoing basis at either fair value or amortized cost. The following tables analyze the carrying amount of financial assets and liabilities by category as defined in IAS 39 and by balance sheet heading:

	2016						Total \$m
	Held for trading \$m	Designated at fair value \$m	Available- for-sale securities \$m	Financial assets and liabilities at amortized cost \$m	Derivatives designated as fair value hedging instruments \$m	Derivatives designated as cash flow hedging instruments \$m	
Financial assets							
Cash and balances at central bank	—	—	—	66	—	—	66
Items in the course of collection from other banks..	—	—	—	58	—	—	58
Trading assets.....	6,288	—	—	—	—	—	6,288
Derivatives.....	3,627	—	—	—	130	93	3,850
Loans and advances to banks.....	—	—	—	1,071	—	—	1,071
Loans and advances to customers.....	—	—	—	46,907	—	—	46,907
Reverse repurchase agreements.....	—	—	—	5,938	—	—	5,938
Financial investments.....	—	—	25,231	—	—	—	25,231
Other assets.....	—	—	—	447	—	—	447
Prepayments and accrued income.....	—	—	—	186	—	—	186
Customers' liability under acceptances.....	—	—	—	4,322	—	—	4,322
Property, plant and equipment.....	—	—	—	104	—	—	104
Goodwill and intangible assets	—	—	—	70	—	—	70
Deferred taxes	—	—	—	119	—	—	119
Total financial assets	9,915	—	25,231	59,288	130	93	94,657
Financial liabilities							
Deposits by banks	—	—	—	946	—	—	946
Customer accounts	—	—	—	56,674	—	—	56,674
Repurchase agreements.....	—	—	—	4,345	—	—	4,345
Items in the course of transmission to other banks..	—	—	—	82	—	—	82
Trading liabilities.....	3,784	—	—	—	—	—	3,784
Financial liabilities designated at fair value.....	—	403	—	—	—	—	403
Derivatives.....	3,565	—	—	—	136	137	3,838
Debt securities in issue.....	—	—	—	10,256	—	—	10,256
Other liabilities.....	—	—	—	2,610	—	—	2,610
Acceptances	—	—	—	4,322	—	—	4,322
Accruals	—	—	—	475	—	—	475
Subordinated liabilities	—	—	—	1,039	—	—	1,039
Provisions.....	—	—	—	116	—	—	116
Current taxes	—	—	—	10	—	—	10
Total financial liabilities.....	7,349	403	—	80,875	136	137	88,900

9 Analysis of financial assets and liabilities by measurement basis (continued)

	2015						
	Held for trading	Designated at fair value	Available-for-sale securities	Financial assets and liabilities at amortized cost	Derivatives designated as fair value hedging instruments	Derivatives designated as cash flow hedging instruments	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Financial assets							
Cash and balances at central bank	-	-	-	65	-	-	65
Items in the course of collection from other banks ..	-	-	-	73	-	-	73
Trading assets	3,893	-	-	-	-	-	3,893
Derivatives	4,623	-	-	-	104	182	4,909
Loans and advances to banks	-	-	-	1,400	-	-	1,400
Loans and advances to customers	-	-	-	48,378	-	-	48,378
Reverse repurchase agreements	-	-	-	6,807	-	-	6,807
Financial investments	-	-	23,935	-	-	-	23,935
Other assets	-	-	-	256	-	-	256
Accrued income	-	-	-	194	-	-	194
Customers' liability under acceptances	-	-	-	3,834	-	-	3,834
Property, plant and equipment	-	-	-	110	-	-	110
Goodwill and intangible assets	-	-	-	61	-	-	61
Deferred taxes	-	-	-	109	-	-	109
Total financial assets	8,516	-	23,935	61,287	104	182	94,024
Financial liabilities							
Deposits by banks	-	-	-	2,049	-	-	2,049
Customer accounts	-	-	-	55,089	-	-	55,089
Repurchase agreements	-	-	-	6,606	-	-	6,606
Items in the course of transmission to other banks ..	-	-	-	219	-	-	219
Trading liabilities	1,713	-	-	-	-	-	1,713
Financial liabilities designated at fair value	4,539	414	-	-	258	208	5,005
Derivatives	-	-	-	10,896	-	-	10,896
Debt securities in issue	-	-	-	1,705	-	-	1,705
Other liabilities	-	-	-	3,834	-	-	3,834
Acceptances	-	-	-	474	-	-	474
Accruals	-	-	-	239	-	-	239
Subordinated liabilities	-	-	-	110	-	-	110
Provisions	-	-	-	7	-	-	7
Current taxes	-	-	-	-	-	-	-
Total financial liabilities	6,252	414	-	81,228	258	208	88,360

Notes on the Consolidated Financial Statements (continued)

10 Trading assets

	2016 \$m	2015 \$m
Trading assets:		
not subject to repledge or resale by counterparties	2,399	2,651
which may be repledged or resold by counterparties.....	3,889	1,242
	6,288	3,893
Canadian and Provincial Government bonds ¹	5,173	2,247
Debt securities.....	319	778
Total debt securities	5,492	3,025
Customer trading assets	301	226
Trading assets from other banks	72	–
Treasury and other eligible bills.....	421	642
Equity securities.....	2	–
	6,288	3,893
1 Including government guaranteed bonds		
Term to maturity of debt securities		
Less than 1 year	2,346	778
1–5 years	2,342	1,638
5–10 years	664	447
Over 10 years	140	162
	5,492	3,025

11 Derivatives

Fair values of derivatives by product contract type held

	2016					
	Assets			Liabilities		
	Trading \$m	Hedging \$m	Total \$m	Trading \$m	Hedging \$m	Total \$m
Foreign exchange	2,467	45	2,512	2,433	131	2,564
Interest rate.....	1,133	178	1,311	1,108	142	1,250
Commodity	24	–	24	24	–	24
Equity	3	–	3	–	–	–
Gross total fair values ..	3,627	223	3,850	3,565	273	3,838
	2015					
	Assets			Liabilities		
	Trading \$m	Hedging \$m	Total \$m	Trading \$m	Hedging \$m	Total \$m
Foreign exchange	3,729	–	3,729	3,637	190	3,827
Interest rate.....	827	286	1,113	841	276	1,117
Commodity	61	–	61	61	–	61
Equity	6	–	6	–	–	–
Gross total fair values ..	4,623	286	4,909	4,539	466	5,005

11 Derivatives (continued)

The following tables summarize the notional amounts by remaining term to maturity of the derivative portfolio.

	2016				2015				
	Trading		Hedging		Trading		Hedging		Total
	Less than 1 year \$m	1 to 5 years \$m	More than 5 years \$m	Total trading \$m	Less than 1 year \$m	Between 1-5 years \$m	Over 5 years \$m	Total hedging \$m	Total \$m
Interest rate contracts									
Exchange traded futures.....	25,578	9,278	28	34,884	-	-	-	-	34,884
Swaps.....	53,770	73,311	25,221	152,302	2,402	14,715	4,994	22,111	174,413
Caps.....	-	1,318	1,318	2,636	-	-	-	-	2,636
Other interest rate.....	450	-	-	450	-	-	-	-	450
Foreign exchange contracts									
Spot.....	79,798	83,907	26,567	190,272	2,402	14,715	4,994	22,111	212,383
Forward.....	2,451	-	-	2,451	-	-	-	-	2,451
Currency swaps and options.....	93,899	3,338	-	97,237	-	-	-	-	97,237
Other derivative contracts	17,447	7,269	2,377	27,093	-	2,008	-	2,008	29,101
Commodity.....	113,797	10,607	2,377	126,781	-	2,008	-	2,008	128,789
Equity.....	209	135	-	344	-	-	-	-	344
Total.....	10	7	-	17	-	-	-	-	17
	219	142	-	361	-	-	-	-	361
Total	193,814	94,656	28,944	317,414	2,402	16,723	4,994	24,119	341,533
Interest rate contracts									
Exchange traded futures.....	2,524	2,013	-	4,537	-	-	-	-	4,537
Swaps.....	8,440	24,502	13,711	46,653	2,797	16,060	6,655	25,512	72,165
Caps.....	546	1,195	-	1,741	-	-	-	-	1,741
Other interest rate.....	425	-	-	425	-	-	-	-	425
Foreign exchange contracts									
Spot.....	11,935	27,710	13,711	53,356	2,797	16,060	6,655	25,512	78,868
Forward.....	2,554	3,903	73	6,530	-	-	-	-	6,530
Currency swaps and options.....	91,624	11,767	3,408	106,799	290	1,766	-	2,056	108,855
Other derivative contracts	117,854	15,670	3,481	137,005	290	1,766	-	2,056	139,061
Commodity.....	90	1	-	91	-	-	-	-	91
Equity.....	49	18	-	67	-	-	-	-	67
Total.....	139	19	-	158	-	-	-	-	158
	129,928	43,399	17,192	190,519	3,087	17,826	6,655	27,568	218,087

Notes on the Consolidated Financial Statements (continued)

11 Derivatives (continued)

Use of derivatives

The bank utilizes derivatives for three primary purposes: to create risk management solutions for clients, for trading purposes, and to manage and hedge the bank's own risks. Derivatives (except for derivatives which are designated as effective hedging instruments as defined in IAS 39) are held for trading. The held for trading classification includes two types of derivatives: those used in sales and trading activities, and those used for risk management purposes but which for various reasons do not qualify for hedge accounting. The second category includes derivatives managed in conjunction with financial instruments designated at fair value. These activities are described more fully below.

The bank's derivative activities give rise to significant open positions in portfolios of derivatives. These positions are managed constantly to ensure that they remain within acceptable risk levels in accordance with the bank's approved risk management policies, with matching deals being used to achieve this where necessary. When entering into derivative transactions, the bank employs the same credit risk management procedures that are used for traditional lending to assess and approve potential credit exposures.

Trading derivatives

Most of the bank'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 in derivatives are entered into principally for the purpose of generating profits from short-term fluctuations in price or margin. Positions may be traded actively or be held over a period of time to benefit from expected changes in currency rates, interest rates, equity prices or other market parameters. Trading includes market-making, positioning and arbitrage activities. Market-making entails quoting bid and offer prices to other market participants for the purpose of generating revenues based on spread and volume; positioning means managing market risk positions in the expectation of benefiting from favourable movements in prices, rates or indices; arbitrage involves identifying and profiting from price differentials between markets and products.

As mentioned above, other derivatives classified as held for trading include non-qualifying hedging derivatives, ineffective hedging derivatives and the components of hedging derivatives that are excluded from assessing hedge effectiveness. Non-qualifying hedging derivatives are entered into for risk management purposes but do not meet the criteria for hedge accounting. These include derivatives managed in conjunction with financial instruments designated at fair value.

Gains and losses from changes in the fair value of derivatives, including the contractual interest, that do not qualify for hedge accounting are reported in 'Net trading income', except for derivatives managed in conjunction with financial instruments designated at fair value, where gains and losses are reported in 'Net income from financial instruments designated at fair value', together with the gains and losses on the hedged items. Where the derivatives are managed with debt securities in issue, the contractual interest is shown in 'interest expense' together with the interest payable on the issued debt.

11 Derivatives (continued)

An analysis of the derivative portfolio and related credit exposure

	2016			2015		
	Notional amount ¹ \$m	Credit equivalent amount ² \$m	Risk-weighted balance ³ \$m	Notional amount ¹ \$m	Credit equivalent amount ² \$m	Risk-weighted balance ³ \$m
Interest rate contracts						
Future	34,884	–	–	4,537	–	–
Swaps	174,413	718	235	72,165	553	287
Caps.....	2,636	4	2	1,741	5	2
Other interest rate..	450	1	–	425	–	–
	212,383	723	237	78,868	558	289
Foreign exchange contracts						
Spot	2,451	–	–	2,554	–	–
Forward	97,237	730	172	95,600	1,655	444
Currency swaps and options	29,101	992	492	40,907	1,363	580
	128,789	1,722	664	139,061	3,018	1,024
Other derivative contracts						
Commodity	344	27	29	91	23	7
Equities	17	–	–	67	–	–
	361	27	29	158	23	7
Total	341,533	2,472	930	218,087	3,599	1,320

1 Notional amounts are the contract amounts used to calculate the cash flows to be exchanged. They are a common measure of the volume of outstanding transactions, but do not represent credit or market risk exposure.

2 Credit equivalent amount is the current replacement cost plus an amount for future credit exposure associated with the potential for future changes in currency and interest rates. The future credit exposure is calculated using a formula prescribed by OSFI in its capital adequacy guidelines.

3 Risk-weighted balance represents a measure of the amount of regulatory capital required to support the derivative activities. It is estimated by risk weighting the credit equivalent amounts according to the credit worthiness of the counterparties using factors prescribed by OSFI in its capital adequacy guidelines.

Interest rate futures are exchange-traded. All other contracts are over-the-counter. The notional or contractual amounts of these instruments indicate the nominal value of transactions outstanding at the reporting date; they do not represent amounts at risk.

Hedging instruments

The bank uses derivatives (principally interest rate swaps) for hedging purposes in the management of its own asset and liability portfolios and structural positions. This enables the bank to optimize the overall cost to the bank of accessing debt capital markets, and to mitigate the market risk which would otherwise arise from structural imbalances in the maturity and other profiles of its assets and liabilities.

Fair value hedges

The bank's fair value hedges principally consist of interest rate swaps that are used to protect against changes in the fair value of fixed-rate financial instruments due to movements in market interest rates. For qualifying fair value hedges, all changes in the fair value of the derivative and in the fair value of the item in relation to the risk being hedged are recognized in the income statement. If the hedge relationship is terminated, the fair value adjustment to the hedged item continues to be reported as part of the basis of the item and is amortized to the income statement as a yield adjustment over the remainder of the hedging period.

Notes on the Consolidated Financial Statements (continued)

11 Derivatives (continued)

Fair value of derivatives designated as fair value hedges

	2016		2015	
	Assets	Liabilities	Assets	Liabilities
	\$m	\$m	\$m	\$m
Interest rate.....	130	136	104	258

Gains or losses arising from the change in fair value of fair value hedges

	2016	2015
	\$m	\$m
Gains/(losses)		
– on hedging instruments.....	78	(121)
– on hedged items attributable to the hedged risk.....	(76)	121

The gains and losses on ineffective portions of fair value hedges are recognized immediately in 'Net trading income'.

Cash flow hedges

The bank's cash flow hedges consist principally of interest rate and cross-currency swaps that are used to protect against exposures to variability in future interest cash flows on non-trading assets and liabilities which bear interest at variable rates or which are expected to be re-funded or reinvested in the future. 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 principal balances and interest cash flows across all portfolios over time form the basis for identifying gains and losses on the effective portions of derivatives designated as cash flow hedges of forecast transactions. Gains and losses are initially recognized in other comprehensive income, in the cash flow hedging reserve, and are transferred to the income statement when the forecast cash flows affect the income statement.

Fair value of derivatives designated as cash flow hedges

	2016		2015	
	Assets	Liabilities	Assets	Liabilities
	\$m	\$m	\$m	\$m
Foreign exchange.....	45	131	–	190
Interest rate.....	48	6	182	18

The schedule of forecast principal balances on which the expected interest cash flows arise as at 31 December is as follows:

	2016			
	3 months or less	More than 3 months but less than 1 year	More than 1 year but less than 5 years	5 years or more
	\$m	\$m	\$m	\$m
Assets.....	7,180	6,928	6,828	485
Liabilities.....	–	–	–	–
Net cash inflow exposure.....	7,180	6,928	6,828	485

11 Derivatives (continued)

	2015			
	<i>3 months or less</i>	<i>More than 3 months but less than 1 year</i>	<i>More than 1 year but less than 5 years</i>	<i>5 years or more</i>
	\$m	\$m	\$m	\$m
Assets	11,840	11,029	8,874	1,037
Liabilities	(243)	(243)	(243)	(243)
Net cash inflow exposure.....	11,597	10,786	8,631	794

The gains and losses on ineffective portions of such derivatives are recognized immediately in 'Net trading income'. During 2016, a loss of \$3m (2015: gain of \$2m) was recognized due to hedge ineffectiveness.

The following tables summarize the fair values of the bank's derivative portfolio at 31 December segregated between derivatives that are in a favourable or receivable position and those in an unfavourable or payable position. Fair values of derivative instruments are determined using observable inputs (note 24).

	2016						
	Trading			Hedging			Total net position
	<i>Favourable position</i>	<i>Unfavourable position</i>	<i>Net position</i>	<i>Favourable position</i>	<i>Unfavourable position</i>	<i>Net position</i>	
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Interest rate contracts							
Swaps	1,129	(1,102)	27	178	(142)	36	63
Caps	2	(4)	(2)	-	-	-	(2)
Other interest rate.....	2	(2)	-	-	-	-	-
	1,133	(1,108)	25	178	(142)	36	61
Foreign exchange contracts							
Spot.....	3	(2)	1	-	-	-	1
Forward	1,132	(1,112)	20	-	-	-	20
Currency swaps and options....	1,332	(1,319)	13	45	(131)	(86)	(73)
	2,467	(2,433)	34	45	(131)	(86)	(52)
Other derivative contracts							
Commodity.....	24	(24)	-	-	-	-	-
Equities.....	3	-	3	-	-	-	3
	27	(24)	3	-	-	-	3
Total	3,627	(3,565)	62	223	(273)	(50)	12

Notes on the Consolidated Financial Statements (continued)

11 Derivatives (continued)

	2015						
	Trading			Hedging			Total net position \$m
	Favourable position \$m	Unfavourable position \$m	Net position \$m	Favourable position \$m	Unfavourable position \$m	Net position \$m	
Interest rate contracts							
Swaps	821	(833)	(12)	286	(276)	10	(2)
Caps	5	(5)	-	-	-	-	-
Other interest rate	1	(3)	(2)	-	-	-	(2)
	<u>827</u>	<u>(841)</u>	<u>(14)</u>	<u>286</u>	<u>(276)</u>	<u>10</u>	<u>(4)</u>
Foreign exchange contracts							
Spot	2	(4)	(2)	-	-	-	(2)
Forward	1,953	(1,914)	39	-	-	-	39
Currency swaps and options	1,774	(1,719)	55	-	(190)	(190)	(135)
	<u>3,729</u>	<u>(3,637)</u>	<u>92</u>	<u>-</u>	<u>(190)</u>	<u>(190)</u>	<u>(98)</u>
Other derivative contracts							
Commodity	61	(61)	-	-	-	-	-
Equities	6	-	6	-	-	-	6
	<u>67</u>	<u>(61)</u>	<u>6</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>6</u>
Total	<u>4,623</u>	<u>(4,539)</u>	<u>84</u>	<u>286</u>	<u>(466)</u>	<u>(180)</u>	<u>(96)</u>

12 Financial investments

Financial investments comprise the following:

	2016 \$m	2015 \$m
Financial investments		
Not subject to repledge or resale by counterparties	24,314	20,325
Which may be repledged or resold by counterparties	917	3,610
	<u>25,231</u>	<u>23,935</u>
Available-for-sale		
Canadian and Provincial Government bonds ¹	17,901	16,752
International Government bonds ¹	4,117	4,729
Other debt securities issued by banks and other financial institutions	2,859	2,139
Treasury and other eligible bills	295	279
Other debt securities	59	36
	<u>25,231</u>	<u>23,935</u>

¹ Includes government guaranteed bonds.

The term to maturity of financial investments are as follows:

	2016 \$m	2015 \$m
Term to maturity		
Less than 1 year	774	1,615
1-5 years	21,667	17,729
5-10 years	2,737	4,555
No specific maturity	53	36
	<u>25,231</u>	<u>23,935</u>

13 Interest rate sensitivity

The following table provides an analysis of the interest rate sensitivity position based on contractual repricing dates of assets and liabilities.

	2016									
	Floating rate \$m	Within 3 months \$m	3-12 months \$m	Average interest rate %	1-5 years \$m	Average interest rate %	Greater than 5 years \$m	Average interest rate %	Non-interest sensitive \$m	Total \$m
Cash and balances at central bank.....	-	-	-	-	-	-	-	-	66	66
Items in the course of collection from other banks	-	-	-	-	-	-	-	-	58	58
Trading assets.....	6,288	-	-	0.5	-	-	-	-	3,850	6,288
Derivatives	-	-	-	0.8	-	-	-	-	898	3,850
Loans and advances to banks	-	173	-	-	-	-	-	-	-	1,071
Loans and advances to customers	26,848	8,228	2,412	2.6	9,104	2.8	101	3.5	214	46,907
Reverse repurchase agreements	-	5,938	-	0.5	-	-	-	-	-	5,938
Financial investments.....	-	3,623	609	1.1	15,753	1.9	5,193	2.5	53	25,231
Acceptances	-	-	-	-	-	-	-	-	4,322	4,322
Other assets.....	-	-	-	-	-	-	-	-	807	807
Deferred taxes	-	-	-	-	-	-	-	-	119	119
Total assets	33,136	17,962	3,021		24,857		5,294		10,387	94,657
Deposits by banks	-	322	-	1	-	-	-	-	624	946
Customer accounts	31,769	5,387	5,874	0.7	1,862	2.1	-	0.9	11,782	56,674
Repurchase agreements.....	-	4,345	-	0.5	-	-	-	-	-	4,345
Items in the course of transmission to other banks	-	-	-	-	-	-	-	-	82	82
Trading liabilities.....	3,784	-	-	0.5	-	-	-	-	-	3,784
Financial liabilities designated at fair value ...	-	3	400	4.8	-	-	-	-	-	403
Derivatives	-	-	-	-	-	-	-	-	3,838	3,838
Debt securities in issue.....	-	2,387	1,001	2.3	6,731	2.4	137	2.7	-	10,256
Acceptances	-	-	-	2.6	-	-	-	-	4,322	4,322
Subordinated liabilities	-	1,039	-	2.4	-	-	-	-	-	1,039
Other liabilities.....	-	671	-	-	-	-	-	-	2,756	3,427
Provisions.....	-	-	-	-	-	-	-	-	116	116
Current taxes	-	-	-	-	-	-	-	-	10	10
Shareholders' equity	-	-	-	-	850	4.4	-	-	4,565	5,415
Total liabilities and shareholders' equity	35,553	14,154	7,275		9,443		137		28,095	94,657
On-balance sheet gap	(2,417)	3,808	(4,254)	-	15,414	-	5,157	-	(17,708)	-
Off-balance sheet positions ...	-	4,488	1,341	-	(1,984)	-	(3,845)	-	-	-
Total interest rate gap	(2,417)	8,296	(2,913)		13,430		1,312		(17,708)	-

Notes on the Consolidated Financial Statements (continued)

13 Interest rate sensitivity (continued)

	2015									
	Floating rate \$m	Within 3 months \$m	3-12 months \$m	Average interest rate %	1-5 years \$m	Average interest rate %	Greater than 5 years \$m	Average interest rate %	Non-interest sensitive \$m	Total \$m
Cash and balances at central bank	-	-	-	-	-	-	-	-	65	65
Items in the course of collection from other banks	-	-	-	-	-	-	-	-	73	73
Trading assets	3,893	-	-	0.6	-	-	-	-	-	3,893
Derivatives	-	-	-	-	-	-	-	-	4,909	4,909
Loans and advances to banks	-	899	-	0.5	-	-	-	-	501	1,400
Loans and advances to customers	27,204	12,106	2,752	2.5	6,096	3.4	181	3.8	39	48,378
Reverse repurchase agreements	-	6,807	-	0.5	-	-	-	-	-	6,807
Financial investments	-	3,297	970	0.9	14,000	1.3	5,631	2.3	37	23,935
Acceptances	-	-	-	-	-	-	-	-	3,834	3,834
Other assets	-	-	-	-	-	-	-	-	621	621
Deferred taxes	-	-	-	-	-	-	-	-	109	109
Total assets	31,097	23,109	3,722	-	20,096	-	5,812	-	10,188	94,024
Deposits by banks	-	743	640	0.9	-	-	-	-	666	2,049
Customer accounts	32,486	3,036	6,795	0.7	2,224	2.1	-	0.9	10,548	55,089
Repurchase agreements	-	6,606	-	0.5	-	-	-	-	-	6,606
Items in the course of transmission to other banks	-	-	-	-	-	-	-	-	219	219
Trading liabilities	1,713	-	-	0.5	-	-	-	-	-	1,713
Financial liabilities designated at fair value	-	-	-	-	414	4.8	-	-	-	414
Derivatives	-	-	-	-	-	-	-	-	5,005	5,005
Debt securities in issue	-	1,777	433	1.6	6,605	2.6	2,081	2.8	-	10,896
Acceptances	-	-	-	-	-	-	-	-	3,834	3,834
Subordinated liabilities	-	239	-	4.4	-	-	-	-	-	239
Other liabilities	-	-	-	-	-	-	-	-	2,467	2,467
Provisions	-	-	-	-	-	-	-	-	110	110
Current taxes	-	-	-	-	-	-	-	-	7	7
Shareholders' equity	-	-	-	-	850	4.4	-	-	4,526	5,376
Non controlling interest	-	-	-	-	-	-	-	-	-	-
Total liabilities and shareholders' equity	34,199	12,401	7,868	-	10,093	-	2,081	-	27,382	94,024
On-balance sheet gap	(3,102)	10,708	(4,146)	-	10,003	-	3,731	-	(17,194)	-
Off-balance sheet positions	-	(1,520)	1,779	-	3,988	-	(4,247)	-	-	-
Total interest rate gap	(3,102)	9,188	(2,367)	-	13,991	-	(516)	-	(17,194)	-

14 Transfers of financial assets not qualifying for derecognition

The following table analyzes the carrying amount of financial assets as at 31 December that did not qualify for derecognition during the year and their associated financial liabilities recognized for the proceeds received as the bank did not transfer substantially all of the variability of the risks and rewards of ownership:

Financial assets and associated liabilities transferred not qualifying for derecognition are as follows:

Nature of transaction	2016				2015	
	<i>Fair value of assets</i>	<i>Fair value of associated liabilities</i>	<i>Carrying amount of assets</i>	<i>Carrying amount of associated liabilities</i>	<i>Carrying amount of assets</i>	<i>Carrying amount of associated liabilities</i>
	\$m	\$m	\$m	\$m	\$m	\$m
Assets securitized..	985	989	989	980	1,100	1,094
Mortgages sold with recourse...	1,712	1,712	1,690	1,690	1,634	1,634
Repurchase agreements	5,938	4,345	5,938	4,345	6,807	6,606
	8,635	7,046	8,617	7,015	9,541	9,334

In addition to assets securitized as noted above which did not result in derecognition of the transferred financial instruments, the bank has also created \$127m (2015: \$155m) of securitized assets which are collateralized by certain bank's mortgage receivables which remain on the bank's balance sheet. A liability has not been recognized as the securitized assets are held by the bank and have not been transferred to third parties. Further, the mortgage backed securities are also used as replacement assets for collateralizing in lieu of the mortgage receivables.

15 Property, plant and equipment

	<i>Freehold land and buildings</i>	<i>Leasehold improvements</i>	<i>Equipment, fixtures and fittings</i>	<i>Total</i>
	\$m	\$m	\$m	\$m
Cost				
At 1 January 2016	3	167	78	248
Additions at cost	–	17	12	29
Disposals and write-offs.....	–	(10)	(13)	(23)
At 31 December 2016	3	174	77	254
Accumulated depreciation and impairment				
At 1 January 2016	(2)	(87)	(49)	(138)
Depreciation charge for the year	–	(20)	(13)	(33)
Disposals and write-offs.....	–	9	12	21
At 31 December 2016	(2)	(98)	(50)	(150)
Net carrying amount at 31 December 2016	1	76	27	104

Notes on the Consolidated Financial Statements (continued)

15 Property, plant and equipment (continued)

	<i>Freehold land and buildings</i>	<i>Leasehold improvements</i>	<i>Equipment, fixtures and fittings</i>	<i>Total</i>
	\$m	\$m	\$m	\$m
Cost				
At 1 January 2015	3	163	87	253
Additions at cost	–	8	7	15
Disposals and write-offs.....	–	(4)	(16)	(20)
At 31 December 2015	<u>3</u>	<u>167</u>	<u>78</u>	<u>248</u>
Accumulated depreciation and impairment				
At 1 January 2015	(2)	(76)	(51)	(129)
Depreciation charge for the year	–	(15)	(14)	(29)
Disposals and write-offs.....	–	4	16	20
At 31 December 2015	<u>(2)</u>	<u>(87)</u>	<u>(49)</u>	<u>(138)</u>
Net carrying amount at 31 December 2015	<u>1</u>	<u>80</u>	<u>29</u>	<u>110</u>

16 Investments in subsidiaries and other entities

At 31 December 2016, HSBC Bank Canada wholly owned the following principal subsidiaries:

<i>Subsidiary</i>	<i>Place of incorporation</i>	<i>Issued equity capital</i>
		\$m
HSBC Finance Mortgages Inc.	Toronto, Ontario, Canada	410
HSBC Trust Company (Canada)	Vancouver, British Columbia, Canada	201
HSBC Securities (Canada) Inc.	Toronto, Ontario, Canada	187
HSBC Mortgage Corporation (Canada)	Vancouver, British Columbia, Canada	50
HSBC Global Asset Management (Canada) Limited	Vancouver, British Columbia, Canada	19
HSBC Private Wealth Services (Canada) Inc.	Toronto, Ontario, Canada	14
HSBC Capital (Canada) Inc.	Vancouver, British Columbia, Canada	8
HSBC South Point Investments (Barbados) LLP ¹	St. Michael, Barbados	1

¹ On 4 January 2016, substantially all the capital of HSBC South Point Investments (Barbados) LLP was redeemed.

Performance Trust

The bank sponsored and organized Performance Trust ('PT'), a multi-seller asset-backed commercial paper conduit, designed to provide collateralized asset-backed financing primarily to its corporate and institutional clients in Canada. The asset-backed commercial paper structure involves PT purchasing financial instruments issued by client-sponsored special purpose entities for cash or PT providing asset-backed financing directly to its clients. PT funds the eligible assets through a Funding Agreement between PT and Regency Trust Inc. ('Regency'), a multi-seller asset-backed commercial paper conduit sponsored by and consolidated into another HSBC group entity.

The bank is the financial services agent for PT for a market-based fee. As the agent, we are responsible for arranging transactions between clients and PT. As at 31 December 2016, PT had no outstanding activity or balances. The bank provided liquidity facilities to Regency to backstop the liquidity risk of the commercial paper issued by Regency to fund their clients.

Mortgage Backed Securities

The bank periodically creates National Housing Act Mortgage Backed Securities with certain of the bank's mortgages identified as collateral for such securities and issues these legally created securities to Canada Housing Trust, a structured entity sponsored by Canada Mortgage and Housing Corporation, which issues Canada Mortgage Bonds. The bank does not have any decision-making power over Canada Housing Trust. The bank's only exposure to the Trust is derived from the contractual arrangements arising from the legal transfer of the mortgage backed securities and related collateral. Additional information can be found on Note 14 in respect to assets securitized.

16 Investments in subsidiaries and other entities (continued)

HSBC Investment funds

The bank establishes and manages investment funds such as mutual funds and pooled funds, acts as an investment manager and earns market-based management fees. The bank does not consolidate those mutual and pooled funds in which our interests indicated that we are exercising our decision making power as an agent of the other unit holder. Seed capital is provided from time to time to HSBC managed investment funds for initial launch. The bank consolidates those investment funds in which it has power to direct the relevant activities of the funds and in which the seed capital, or the units held by the bank, are significant relative to the total variability of returns of the funds such that the bank is deemed to be a principal rather than an agent.

HSBC Mortgage Fund

The bank periodically transfers mortgages to the HSBC Mortgage Fund (the "fund") in accordance with the investment parameters of the fund and recognizes a liability for mortgages sold with recourse for the initial proceeds received. The bank provides an undertaking to repurchase mortgages which are in arrears for a period that is greater than 90 days and repurchases mortgages in certain circumstances when an individual mortgage is prepaid in full. In addition to these obligations the bank provides a liquidity arrangement to the HSBC Mortgage Fund whereby if the level of redemption requests by unitholders cannot be met by the fund the bank will either repurchase such funds as are deemed necessary by the HSBC Mortgage Fund to satisfy the liquidity requirements arising from unitholder requests or facilitate the purchase of such mortgages by a third party at the bank's discretion. The bank has not received any such liquidity requests from the fund in respect of unitholder redemptions. The fund is not consolidated as the bank has insufficient absolute returns or variability of returns to consolidate the fund. Information on mortgages sold with recourse can be found in Note 14.

17 Other assets

	2016	2015
	\$m	\$m
Accounts receivable and other	325	78
Investments in associates	46	60
Current tax	30	76
Due from clients, dealers and clearing corporations.....	37	32
Other non-financial assets.....	9	10
	<u>447</u>	<u>256</u>

18 Goodwill and intangible assets

	2016	2015
	\$m	\$m
Goodwill	23	23
Computer software.....	47	38
	<u>70</u>	<u>61</u>

No goodwill impairment was recognized in 2016 or 2015.

Notes on the Consolidated Financial Statements (continued)

19 Trading liabilities

	2016 \$m	2015 \$m
Other liabilities – net short positions	3,589	1,571
Customer trading liabilities	152	134
Trading liabilities due to other banks	43	–
Other debt securities in issue	–	8
	3,784	1,713

20 Debt securities in issue

	2016 \$m	2015 \$m
Bonds and medium-term notes	9,987	10,616
Money market instruments	269	280
	10,256	10,896
Debt securities are recorded at amortized cost.		
Term to maturity		
Less than 1 year	3,874	1,877
1–5 years	6,284	6,773
Over 5 years	98	2,211
Over 10 years	–	35
	10,256	10,896

21 Financial liabilities designated at fair value

	2016 \$m	2015 \$m
Subordinated debentures (note 23)	403	414

The carrying amount at 31 December 2016 of financial liabilities designated at fair value was \$3m higher (2015: \$14m higher) than the contractual amount at maturity. At 31 December 2016, the cumulative amount of change in fair value attributable to changes in credit risk was \$3m loss (2015: nil).

22 Other liabilities

	2016 \$m	2015 \$m
Mortgages sold with recourse	1,690	1,634
Loans payable	671	–
Accounts payable	186	47
Other non-financial liabilities	52	15
Share based payment related liability	11	9
	2,610	1,705

23 Subordinated liabilities

Subordinated debentures, which are unsecured and subordinated in right of payment to the claims of depositors and certain other creditors, comprise:

<i>Interest rate (%)</i>	<i>Year of maturity</i>	<i>Carrying amount</i>	
		2016	2015
		\$m	\$m
Issued to Group			
2.6576 ¹	2023	1,000	–
Issued to third parties			
4.94 ²	2021	–	200
4.80 ³	2022	403	414
30 day bankers' acceptance rate plus 0.50%	2083	39	39
Total debentures		1,442	653
Less: designated at fair value (note 21)		(403)	(414)
Debentures at amortized cost		1,039	239

1 *The interest rate is fixed at 2.6576% until March 2017 and thereafter is payable at an annual rate equal to the 90 day bankers' acceptance rate plus 1.74% .*

2 *The interest rate was fixed at 4.94% until March 2016. On 18 January 2016, the bank announced its intention to redeem all \$200m of its 4.94% subordinated debentures. The redemption occurred on 16 March 2016 and was financed out of the general corporate funds of the bank.*

3 *Interest rate is fixed at 4.8% until April 2017 and thereafter interest is payable at an annual rate equal to the 90 day bankers' acceptance rate plus 1%. These debentures are designated as held for trading under the fair value option. On 9 February 2017, the bank announced its intention to redeem all \$400m of its 4.8% subordinated debentures. In accordance with the terms, it will be redeemed at 100% of their principal amount plus accrued interest to the redemption date. The redemption will occur on 10 April 2017 and will be financed out of the general corporate funds of the bank.*

24 Fair values of financial instruments

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. To this end, ultimate responsibility for the determination of fair values lies with the bank's finance department, ('Finance'). Finance establishes the accounting policies and procedures governing valuation, and is responsible for ensuring that they comply with all relevant accounting standards.

For all financial instruments where fair values are determined by reference to externally quoted prices or observable pricing inputs to models, independent price determination or validation is utilized. In inactive markets, direct observation of a traded price may not be possible. In these circumstances, the bank will source alternative market information to validate the financial instrument's fair value, with greater weight given to information that is considered to be more relevant and reliable. The factors that are considered in this regard are, inter alia:

- the extent to which prices may be expected to represent genuine traded or tradable prices;
- the degree of similarity between financial instruments;
- the degree of consistency between different sources;
- the process followed by the pricing provider to derive the data;
- the elapsed time between the date to which the market data relates and the reporting date; and
- the manner in which the data was sourced.

Models provide a logical framework for the capture and processing of necessary valuation inputs. For fair values determined using a valuation model, the control framework may include, as applicable, independent development or validation of (i) the logic within valuation models; (ii) the inputs to those models; (iii) any adjustments required outside the valuation models; and (iv) where possible, model outputs. Valuation models are subject to a process of due diligence and calibration before becoming operational and are calibrated against external market data on an ongoing basis.

Notes on the Consolidated Financial Statements (continued)

24 Fair values of financial instruments (continued)

Determination of 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 in the principal, or in its absence, the most advantageous market to which the bank has access to at that date. The fair value of a liability reflects its non-performance risk.

Fair values are determined according to the following hierarchy:

Level 1 – quoted market price: financial instruments with quoted prices for identical instruments in active markets.

Level 2 – valuation technique using observable inputs: 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: financial instruments valued using models where one or more significant inputs are unobservable.

The best evidence of fair value is a quoted price in an actively traded market. In the event that the market for a financial instrument is not active, a valuation technique is used. The judgment as to whether a market is active may include, but is not restricted to, the consideration of factors such as the magnitude and frequency of trading activity, the availability of prices and the size of bid/offer spreads. In inactive markets, obtaining assurance that the transaction price provides evidence of fair value or determining the adjustments to transaction prices that are necessary to measure the fair value of the instrument requires additional work during the valuation process.

Valuation techniques incorporate assumptions about factors that other market participants would use in their valuations. A range of valuation techniques is employed, dependent upon the instrument type and available market data. Most valuation techniques are based upon discounted cash flow analysis, in which expected future cash flows are calculated and discounted to present value using a discounting curve. Prior to consideration of credit risk, the expected future cash flows may be known, as would be the case for the fixed leg of an interest rate swap, or may be uncertain and require projection, as would be the case for the floating leg of an interest rate swap. The valuation techniques the bank applies utilize market forward curve, if available. In option models, the probability of different potential future outcomes must be considered. In addition, the value of some products are dependent upon more than one market factor, and in these cases it will typically be necessary to consider how movements in one market factor may impact the other market factors. The model inputs necessary to perform such calculations include interest rate yield curves, exchange rates, volatilities, correlations, prepayment and default rates.

The majority of valuation techniques employ only observable market data and so the reliability of the fair value measurement is high. However, certain financial instruments are valued on the basis of valuation techniques that feature one or more significant market inputs that are unobservable, and for them, the derivation of fair value is more judgmental. 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 carrying amount and/ or inception profit ('day 1 gain and loss') is driven by unobservable inputs. 'Unobservable' in this context means that there is little or no current market data available from which to determine the level at which an arm's length transaction would be likely to occur. It generally does not mean that there is no market data available at all upon which to base a determination of fair value (consensus pricing data may, for example, be used). Furthermore, in some cases the majority of the fair value derived from a valuation technique with significant unobservable inputs may be attributable to the observable inputs. Consequently, the effect of uncertainty in the determining unobservable inputs will generally be restricted to uncertainty about the overall fair value of the financial instrument being measured.

24 Fair values of financial instruments (continued)

In certain circumstances, primarily where debt is hedged with interest rate derivatives or structured notes issued, the bank uses fair value to measure the carrying value of its own debt in issue. The bank records its own debt in issue at fair value, based on quoted prices in an active market for the specific instrument concerned, if available. When quoted market prices are unavailable, the own debt in issue is valued using valuation techniques, the inputs for which are either based upon 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 which is appropriate to the bank's liabilities. For all issued debt securities, discounted cash flow modeling is used to separate the change in fair value that may be attributed to the bank's credit spread movements from movements in other market factors such as benchmark interest rates or foreign exchange rates. Specifically, the change in fair value of issued debt securities attributable to the bank'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 risk-free discount curve. The difference in the valuations is attributable to the bank's own credit spread. This methodology is applied consistently across all securities.

Structured notes issued and certain other hybrid instrument liabilities 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 the bank would issue structured notes.

Gains and losses arising from changes in the credit spread of liabilities issued by the bank reverse over the contractual life of the debt, provided that the debt is not repaid early. All positions in non-derivative financial instruments, and all derivative portfolios, are valued at bid or offer prices as appropriate. Long positions are marked at bid prices; short positions are marked at offer prices.

The fair value of a portfolio of financial instruments quoted in an active market is calculated as the product of the number of units and its quoted price and no block discounts are made.

Transaction costs are not included in the fair value calculation, nor are the future costs of administering the over the counter derivative portfolio. These, along with trade origination costs such as brokerage fees and post-trade costs, are included either in 'Fee expense' or in 'Total operating expenses'.

A detailed description of the valuation techniques applied to instruments of particular interest follows:

– *Private equity*

The bank's private equity portfolios are classified as investments in associates, held at fair value, are not traded in active markets. In the absence of an active market, an investment's fair value is estimated on the basis of an analysis of the investee's financial position and results, risk profile, prospects and other factors, as well as by reference to market valuations for similar entities quoted in an active market, or the price at which similar companies have changed ownership. The exercise of judgment is required because of uncertainties inherent in estimating fair value for private equity investments.

– *Debt securities, treasury and other eligible bills, and equities*

The fair value of these instruments is based on quoted market prices from an exchange, dealer, broker, industry group or pricing service, when available. When unavailable, the fair value is determined by reference to quoted market prices for similar instruments, adjusted as appropriate for the specific circumstances of the instruments.

In the absence of quoted market prices, fair value is determined using valuation techniques based on the calculation of the present value of expected future cash flows of the assets. The inputs to these valuation techniques are derived from observable market data and, where relevant, assumptions in respect of unobservable inputs.

Notes on the Consolidated Financial Statements (continued)

24 Fair values of financial instruments (continued)

– *Derivatives*

Over-the-counter (i.e. non-exchange traded) derivatives are valued using valuation models. Valuation models calculate the present value of expected future cash flows, based upon 'no-arbitrage' principles. For many vanilla derivative products, such as interest rate swaps and European options, the modeling 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. Finally, some inputs are not observable, but can generally be estimated from historical data or other sources. Examples of inputs that are generally observable include foreign exchange spot and forward rates, benchmark interest rate curves and volatility surfaces for commonly traded option products. Examples of inputs that may be unobservable include volatility spreads, in whole or in part, for less commonly traded option products, and correlations between market factors such as foreign exchange rates, interest rates and equity prices.

HSBC views the Overnight Indexed Swap ("OIS") curve as the base discounting curve for all derivatives, both collateralized and uncollateralized, and utilizes a 'funding fair value adjustment' to reflect the funding of uncollateralized derivative exposure at rates other than OIS.

Derivative products valued using valuation techniques with significant unobservable inputs comprise certain long-dated foreign exchange options.

– *Structured notes*

The fair value of structured notes is derived from the fair value of the underlying debt security as described above, and the fair value of the embedded derivative is determined as described in the paragraph above on derivatives.

Trading liabilities valued using a valuation technique with significant unobservable inputs comprised equity-linked structured notes, which are issued by HSBC and provide the counterparty with a return that is linked to the performance of certain equity securities. The notes are classified as Level 3 due to the unobservability of parameters such as long-dated equity volatilities, correlations between equity prices and interest rates and between interest rates and foreign exchange rates.

24 Fair values of financial instruments (continued)

Bases of valuing financial assets and liabilities measured at fair value

The table below provides an analysis of the various bases described above which have been deployed for valuing financial assets and financial liabilities measured at fair value in the consolidated financial statements.

	Valuation techniques			Total \$m
	Level 1 Quoted market price \$m	Level 2 using observable inputs \$m	Level 3 with significant unobservable inputs \$m	
At 31 December 2016				
Assets				
Trading assets.....	5,488	800	–	6,288
Derivatives	–	3,849	1	3,850
Financial investments: available-for-sale.....	21,396	3,835	–	25,231
Liabilities				
Trading liabilities	3,370	411	3	3,784
Financial liabilities at fair value.....	–	403	–	403
Derivatives	–	3,837	1	3,838
At 31 December 2015				
Assets				
Trading assets.....	2,770	1,123	–	3,893
Derivatives	–	4,909	–	4,909
Financial investments: available-for-sale.....	21,204	2,731	–	23,935
Liabilities				
Trading liabilities	1,235	472	6	1,713
Financial liabilities at fair value.....	–	414	–	414
Derivatives	–	5,005	–	5,005

Reconciliation of fair value measurements in Level 3 of the fair value hierarchy

	Assets		Liabilities	
	Derivatives \$m	Held for trading \$m	Derivatives \$m	
At 1 January 2016	–	6	–	–
Total gains or losses recognized in profit or loss	–	–	–	–
Settlements	(1)	(3)	(1)	(1)
Transfer out	–	–	–	–
Transfer in	2	–	2	2
At 31 December 2016	1	3	1	1
Total gains or losses recognized in profit or loss relating to those assets and liabilities held at the end of the reporting period	–	–	–	–

Notes on the Consolidated Financial Statements (continued)

24 Fair values of financial instruments (continued)

Bases of valuing financial assets and liabilities measured at fair value (continued)

Reconciliation of fair value measurements in Level 3 of the fair value hierarchy (continued)

	Assets	Liabilities	
	<i>Derivatives</i> \$m	<i>Held for trading</i> \$m	<i>Derivatives</i> \$m
At 1 January 2015	40	6	40
Total gains or losses recognized in profit or loss	2	–	2
Settlements		–	
Transfer out	(98)	–	(98)
Transfer in	56	–	56
At 31 December 2015	–	6	–
Total gains or losses recognized in profit or loss relating to those assets and liabilities held at the end of the reporting period	–	–	–

During 2016 and 2015, there were no significant transfers between Level 1 and 2.

For assets and liabilities classified as held for trading, realized and unrealized gains and losses are presented in the income statement under 'Trading income excluding net interest income'. The income statement line item 'Net income from financial instruments designated at fair value' captures fair value movements on all other financial instruments designated at fair value and related derivatives.

Realized gains and losses from available-for-sale securities are presented under 'Gains less losses from financial investments' in the income statement while unrealized gains and losses are presented in 'Fair value gains' taken to equity within 'Available-for-sale investments' in other comprehensive income.

Fair values of financial instruments not carried at fair value

Fair values at the balance sheet date of the assets and liabilities set out below are estimated for the purpose of disclosure at follows:

i) Loans and advances to banks and customers

The fair value of loans and advances is based on observable market transactions, where available. In the absence of observable market transactions, fair value is estimated using discounted cash flow models. Performing loans are grouped, as far as possible, into homogeneous pools segregated by maturity and coupon rates. In general, contractual cash flows are discounted using the bank's estimate of the discount rate that a market participant would use in valuing instruments with similar maturity, repricing and credit risk characteristics.

The fair value of a loan portfolio reflects both loan impairments at the reporting date and estimates of market participants' expectations of credit losses over the life of the loans. For impaired loans, fair value is estimated by discounting the future cash flows over the time period in which they are expected to be recovered.

ii) Deposits by banks and customer accounts

For the purposes of estimating fair value, deposits by banks and customer accounts are grouped by residual maturity. Fair values are estimated using discounted cash flows, applying current rates offered for deposits of similar remaining maturities. The fair value of a deposit repayable on demand approximates its book value.

iii) Debt securities in issue and subordinated liabilities

Fair values are determined using quoted market prices at the reporting date where available, or by reference to quoted market prices for similar instruments.

24 Fair values of financial instruments (continued)

Fair values of financial instruments not carried at fair value (continued)

The fair values in this note are stated at a specific date and may be significantly different from the amounts which will actually be paid on the maturity or settlement dates of the instruments. In many cases, it would not be possible to realize immediately the estimated fair values given the size of the portfolios measured. Accordingly, these fair values do not represent the value of these financial instruments to the bank as a going concern.

For all classes of financial instruments, fair value represents the product of the value of a single instrument, multiplied by the number of instruments held.

The following table lists financial instruments whose carrying amount is a reasonable approximation of fair value because, for example, they are short-term in nature or reprice to current market rates frequently:

<i>Assets</i>	<i>Liabilities</i>
Cash and balances at central bank	Items in the course of transmission to other banks
Items in the course of collection from other banks	Acceptances
Customers' liability under acceptances	Short-term payables within 'Other liabilities'
Short-term receivables within 'Other assets'	Accruals
Accrued income	

Fair values of financial instruments which are not carried at fair value on the consolidated balance sheet are as follows:

	2016					2015	
	<i>Carrying amount</i>	<i>Fair value</i>	<i>Level 1 Quoted market price</i>	<i>Level 2 observable inputs</i>	<i>Level 3 with significant unobservable inputs</i>	<i>Carrying amount</i>	<i>Fair value</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Assets							
Loans and advances to banks	1,071	1,071	–	1,071	–	1,400	1,400
Loans and advances to customers	46,907	46,931	–	103	46,828	48,378	48,444
Reverse repurchase agreements	5,938	5,938	–	5,938	–	6,807	6,807
Liabilities							
Deposits by banks ...	946	946	–	946	–	2,049	2,049
Customer accounts ..	56,674	56,706	–	44,565	12,141	55,089	55,121
Repurchase agreements	4,345	4,345	–	4,345	–	6,606	6,606
Debt securities in issue.....	10,256	10,361	–	10,361	–	10,896	10,960
Subordinated liabilities.....	1,039	1,024	–	1,024	–	239	217

Notes on the Consolidated Financial Statements (continued)

25 Assets charged as security for liabilities and collateral accepted as security for assets

Assets charged as security for liabilities and contingent obligations

In the ordinary course of business, we pledge assets recorded on our consolidated balance sheet in relation to securitization activity, mortgages sold with recourse, securities lending and securities sold under repurchase agreements. These transactions are conducted under terms that are usual and customary to standard securitization, mortgages sold with recourse, securities lending and repurchase agreements. In addition, we also pledge assets to secure our obligations within payment and depository clearing systems.

Financial assets pledged to secure recognized liabilities on the balance sheet and obligations within payment and depository clearing systems:

	2016	2015
	\$m	\$m
Cash.....	290	1,007
Residential mortgages.....	2,679	2,734
Debt securities.....	4,601	6,868
	7,570	10,609

The bank is required to pledge assets to secure its obligations in the Large Value Transfer System ('LVTS'), which processes electronically in real-time large value and time-critical payments in Canada. In the normal course of business, pledged assets are released upon settlement of the bank's obligations at the end of each business day. Only in very rare circumstances are we required to borrow from the Bank of Canada to cover any settlement obligations. Under those circumstances, the pledged assets would be used to secure the borrowing. No amounts were outstanding under this arrangement at 31 December 2016 or 2015. Consequently, the assets pledged with respect to the bank's LVTS obligations have not been included in the table above.

Collateral accepted as security for assets

The fair value of financial assets accepted as collateral that the bank is permitted to sell or repledge in the absence of default is \$7,880m (2015: \$7,228m). The fair value of financial assets accepted as collateral that have been sold or repledged is \$5,090m (2015: \$3,469m). The bank is obliged to return equivalent assets.

These transactions are conducted under terms that are usual and customary to standard securities borrowing and reverse repurchase agreements.

26 Share capital

Authorized:

Preferred – Unlimited number of Class 1 preferred shares in one or more series and unlimited number of Class 2 preferred shares in one or more series. We may, from time to time, divide any unissued Class 1 preferred shares into separate series and fix the number of shares in each series along with the associated rights, privileges, restrictions and conditions.

Common – Unlimited number of common shares.

Issued and fully paid:

	2016		2015	
	<i>Number of shares</i>	<i>Share capital \$m</i>	<i>Number of shares</i>	<i>Share capital \$m</i>
Preferred shares Class 1				
Series C ¹	7,000,000	175	7,000,000	175
Series D ²	7,000,000	175	7,000,000	175
Series G ³	20,000,000	500	20,000,000	500
	34,000,000	850	34,000,000	850
Common Shares	498,668,000	1,225	498,668,000	1,225

1 *The shares are non-voting, non-cumulative and redeemable. Each share yields 5.1%, payable quarterly, as and when declared. During 2016 and 2015, \$9m in dividends were declared.*

Subject to regulatory approval, we may redeem the shares, in whole or in part, for cash at a declining premium up to 30 June 2014, and at par thereafter. In each case, declared and unpaid dividends will also be paid thereon to the date fixed for redemption.

We may also, at any time, but only with the prior consent of the regulator, give shareholders notice that they have the right, at their option, to convert their shares into a new series of Class 1 Preferred Shares on a share-for-share basis.

2 *The shares are non-voting, non-cumulative and redeemable. Each share yields 5%, payable quarterly, as and when declared. During 2016 and 2015, \$9m in dividends were declared.*

Subject to regulatory approval, we may redeem the shares, in whole or in part, for cash at a declining premium up to 31 December 2014, and at par thereafter. In each case, declared and unpaid dividends will also be paid thereon to the date fixed for redemption.

We may also, at any time but only with the prior consent of the regulator, give shareholders notice that they have the right, at their option, to convert their shares into a new series of Class 1 Preferred Shares on a share-for-share basis.

3 *The shares are non-voting, non-cumulative and redeemable. Each share yields 4%, payable quarterly, as and when declared. During 2016 and 2015, \$20 million and \$10 million in dividends, respectively, were declared.*

Subject to regulatory approval, the bank may on June 30, 2020 and every 5 years thereafter, redeem a portion or all of the Series G shares at par value in cash. The shares include non-viability contingency capital (NVCC) provisions, necessary for the shares to qualify as Tier 1 regulatory capital under Basel III. In the event that OSFI determines that a regulatory defined non-viability trigger event has occurred, NVCC provisions require the write off and cancellation of the Series G shares against equity.

Notes on the Consolidated Financial Statements (continued)

27 Notes on the statement of cash flows

	2016	2015
	\$m	\$m
<i>Non-cash items included in profit before tax</i>		
Depreciation and amortization	43	43
Share-based payment expense	10	11
Loan impairment charges and other credit risk provisions	107	234
Charge for defined benefit pension plans	16	17
	<u>176</u>	<u>305</u>
 <i>Change in operating assets</i>		
Change in prepayment and accrued income	8	(8)
Change in net trading securities and net derivatives	(635)	2,808
Change in loans and advances to customers	1,364	(7,393)
Change in reverse repurchase agreements – non-trading	877	(402)
Change in other assets	(736)	1,169
	<u>878</u>	<u>(3,826)</u>
 <i>Change in operating liabilities</i>		
Change in accruals and deferred income	1	(50)
Change in deposits by banks	(1,103)	1,368
Change in customer accounts	1,585	4,246
Change in repurchase agreements – non-trading	(2,261)	2,552
Change in debt securities in issue	(640)	286
Change in financial liabilities designated at fair value	(11)	(11)
Change in other liabilities	707	(1,617)
	<u>(1,722)</u>	<u>6,774</u>
 <i>Cash and cash equivalents</i>		
Cash and balances at central bank	66	65
Items in the course of collection from other banks, net	(24)	(146)
Loans and advances to banks of one month or less	1,071	1,400
Reverse repurchase agreements with banks of one month or less	443	435
T-Bills and certificates of deposits – three months or less	94	229
	<u>1,650</u>	<u>1,983</u>

28 Contingent liabilities, contractual commitments and guarantees

	2016 \$m	2015 \$m
Guarantees and other contingent liabilities		
Guarantees and irrevocable letters of credit pledged as collateral security	5,780	5,585
Commitments		
Undrawn formal standby facilities, credit lines and other commitments to lend ¹ ...	38,493	39,951
Documentary credits and short-term trade-related transactions	483	557
	38,976	40,508

¹ Based on original contractual maturity.

The table above discloses the nominal principal amounts of commitments, guarantees and other contingent liabilities. They are mainly credit-related instruments which include both financial and non-financial guarantees and commitments to extend credit. Nominal principal amounts represent the amounts at risk should contracts be fully drawn upon and clients default. As a significant portion of guarantees and commitments is expected to expire without being drawn upon, the total of these nominal principal amounts is not representative of future liquidity requirements.

Guarantees

The bank provides guarantees and similar undertakings on behalf of both third party customers and other entities within the bank. These guarantees are generally provided in the normal course of the bank's banking business. The principal types of guarantees provided, and the maximum potential amount of future payments which the bank could be required to make at 31 December, were as follows:

	2016 \$m	2015 \$m
Guarantees in favour of third parties		
Guarantee type		
Financial guarantee contracts ¹	2,632	2,505
Performance bonds ²	3,148	3,080
	5,780	5,585

¹ Financial guarantee contracts require the issuer to make specified payments to reimburse the holder for a loss incurred because a specified debtor fails to make payment when due in accordance with the original or modified terms of a debt instrument. The amounts in the above table are nominal principal amounts.

² Performance bonds, bid bonds, standby letters of credit and other transaction-related guarantees are undertakings by which the obligation on the bank and/or the bank to make payment depends on the outcome of a future event.

The amounts disclosed in the above table reflect the bank's maximum exposure under a large number of individual guarantee undertakings. The risks and exposures arising from guarantees are captured and managed in accordance with the bank's overall credit risk management policies and procedures. Guarantees with terms of more than one year are subject to the bank's annual credit review process.

Notes on the Consolidated Financial Statements (continued)

29 Lease commitments

Operating lease commitments

At 31 December 2016, the bank was obligated under a number of non-cancellable operating leases for land and buildings for which the future minimum lease payments extend over a number of years, with an option to renew after that period. Base rents are increased as according to the terms stated in the lease.

	Land and buildings	
	2016	2015
	\$m	\$m
Future minimum lease payments under non-cancellable operating leases expiring		
No later than one year	48	50
Later than one year and no later than five years	123	144
Later than five years.....	29	27
	200	221

In 2016, \$57m (2015: \$55m) was charged to 'General and administrative expenses' in respect of lease and sublease agreements, all of which related to minimum lease payments.

Finance lease receivables

The bank leases a variety of assets to third parties under finance leases, including transport assets, property and general plant and machinery. At the end of the lease terms, assets may be sold to third parties or leased for further terms. Lessees may participate in any sales proceeds achieved. Lease rentals arising during the lease terms will either be fixed in quantum or be varied to reflect changes in, for example, tax or interest rates. Rentals are calculated to recover the cost of assets less their residual value, and earn finance income.

	2016			2015		
	<i>Total future minimum payment</i>	<i>Unearned finance income</i>	<i>Present value</i>	<i>Total future minimum payment</i>	<i>Unearned finance income</i>	<i>Present value</i>
	\$m	\$m	\$m	\$m	\$m	\$m
Less receivables:						
No later than one year	650	(49)	601	732	(50)	682
Later than one year and no later than five years	1,189	(64)	1,125	1,274	(80)	1,194
Later than five years	108	(5)	103	83	(4)	79
	1,947	(118)	1,829	2,089	(134)	1,955

At 31 December 2016, unguaranteed residual values of \$13m (2015: \$13m) had been accrued, and the accumulated allowance for uncollectible minimum lease payments is included in loan loss allowances.

During the year, no contingent rents were received (2015: \$nil) and recognized in the income statement.

30 Related party transactions

The ultimate parent company of the bank is HSBC Holdings, which is incorporated in England. The bank's related parties include the parent, fellow subsidiaries, and Key Management Personnel.

a Transactions with Key Management Personnel

Key Management Personnel are defined as those persons having authority and responsibility for planning, directing and controlling the activities of the bank and includes members of the Board of HSBC Bank Canada.

Compensation of Key Management Personnel

The following represents the compensation paid to the Key Management Personnel of the bank in exchange for services rendered to the bank.

	2016 \$m	2015 \$m
Short-term employee benefits	13	13
Post-employment benefits.....	1	1
Share-based payments.....	3	3
	17	17

Other transactions, arrangements and agreements involving Key Management Personnel

The disclosure of the year end balance and the highest balance during the year is considered the most meaningful information to represent transactions during the year. The transactions below 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.

	2016		2015	
	<i>Highest balance during the year</i> \$m	<i>Balance at 31 December</i> \$m	<i>Highest balance during the year</i> \$m	<i>Balance at 31 December</i> \$m
Key Management Personnel ¹				
Loans.....	5.3	4.6	5.3	4.8
Credit cards	0.1	0.1	0.1	0.1

¹ Includes Key Management Personnel, close family members of Key Management Personnel and entities which are controlled, jointly controlled or significantly influenced, or for which significant voting power is held, by Key Management Personnel or their close family member.

Notes on the Consolidated Financial Statements (continued)

30 Related party transactions (continued)

b Transactions between the bank and HSBC Group

Transactions detailed below include amounts due to/from the bank and HSBC Group. The disclosure of the year end balance and the highest balance during the year is considered the most meaningful information to represent transactions during the year. The transactions below were made 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.

	2016		2015	
	<i>Highest balance during the year</i>	<i>Balance at 31 December</i>	<i>Highest balance during the year</i>	<i>Balance at 31 December</i>
	\$m	\$m	\$m	\$m
Assets				
Trading assets.....	201	18	1,027	10
Derivatives.....	2,471	2,240	3,182	2,081
Loans and advances to banks.....	632	525	455	134
Loans and advances to customers.....	359	21	782	130
Other assets.....	40	30	38	37
Liabilities				
Deposits by banks.....	1,501	538	1,736	1,587
Customer accounts.....	3,565	1,058	4,553	3,305
Derivatives.....	2,158	2,050	2,460	1,720
Trading liabilities.....	1,221	131	1,456	4
Other liabilities.....	1,592	736	120	39
Subordinated liabilities.....	1,000	1,000	–	–

During the year, the bank entered into a borrowing agreement with HSBC Group. These have been classified as loans payable (note 22) and subordinated liabilities (note 23).

	2016	2015
	\$m	\$m
Income Statement		
Interest income.....	13	30
Interest expense.....	(37)	(12)
Fee income.....	19	27
Fee expense.....	(5)	(4)
Other operating income.....	62	41
General and administrative expenses.....	(169)	(140)

31 Offsetting of financial assets and financial liabilities

Financial assets subject to offsetting, enforceable master netting arrangements and similar agreements are as follows:

	Gross amounts of recognized financial assets \$m	Gross amounts set off in the balance sheet \$m	Amounts presented in the balance sheet \$m	Amounts not set off in the balance sheet			Net amount \$m
				Financial instru- ments \$m	Non-cash collateral received \$m	Cash collateral received \$m	
At 31 December 2016							
Derivatives ¹ (note 11).....	3,850	–	3,850	909	–	36	2,905
Reverse repurchase, securities borrowing and similar agreements:							
– Loan and advances to banks at amortized cost.....	497	(54)	443	–	443	–	–
– Loan and advances to customers at amortized cost.....	7,376	(1,881)	5,495	–	5,495	–	–
Loans and advances excluding reverse repos							
– to customers at amortized cost.....	1,429	–	1,429	–	–	–	1,429
	13,152	(1,935)	11,217	909	5,938	36	4,334

¹ Includes amounts that are both subject to and not subject to enforceable master netting agreements and similar agreements.

Notes on the Consolidated Financial Statements (continued)

31 Offsetting of financial assets and financial liabilities (continued)

	Gross amounts of recognized financial assets \$m	Gross amounts set off in the balance sheet \$m	Amounts presented in the balance sheet \$m	Amounts not set off in the balance sheet			Net amount \$m
				Financial instru- ments \$m	Non-cash collateral received \$m	Cash collateral received \$m	
At 31 December 2015							
Derivatives ¹ (note 11).....	4,909	–	4,909	1,487	–	51	3,371
Reverse repurchase, securities borrowing and similar agreements:							
– Loan and advances to banks at amortized cost.....	661	(226)	435	–	435	–	–
– Loan and advances to customers at amortized cost.....	6,555	(183)	6,372	–	6,372	–	–
Loans and advances excluding reverse repos							
– to customers at amortized cost.....	1,722	–	1,722	–	–	–	1,722
	<u>13,847</u>	<u>(409)</u>	<u>13,438</u>	<u>1,487</u>	<u>6,807</u>	<u>51</u>	<u>5,093</u>

1 Includes amounts that are both subject to and not subject to enforceable master netting agreements and similar agreements.

31 Offsetting of financial assets and financial liabilities (continued)

Financial liabilities subject to offsetting, enforceable master netting arrangements and similar agreements are as follows:

	Gross amounts of recognized financial liabilities \$m	Gross amounts set off in the balance sheet \$m	Amounts presented in the balance sheet \$m	Amounts not set off in the balance sheet			Net amount \$m
				Financial instru- ments \$m	Non-cash collateral pledged \$m	Cash collateral pledged \$m	
At 31 December 2016							
Derivatives ¹ (note 11).....	3,838	–	3,838	766	–	(240)	3,312
Repurchase, securities lending and similar agreements							
– Deposits by banks at amortized cost ..	1,048	(54)	994	–	994	–	–
– Customer accounts at amortized cost ..	5,232	(1,881)	3,351	–	3,351	–	–
Customer accounts excluding repos at amortized cost	1,961	–	1,961	–	–	–	1,961
	12,079	(1,935)	10,144	766	4,345	(240)	5,273
At 31 December 2015							
Derivatives ¹ (note 11).....	5,005	–	5,005	1,197	–	1,035	2,773
Repurchase, securities lending and similar agreements							
– Deposits by banks at amortized cost ..	1,402	(226)	1,176	–	1,176	–	–
– Customer accounts at amortized cost ..	5,613	(183)	5,430	–	5,430	–	–
Customer accounts excluding repos at amortized cost	2,428	–	2,428	–	–	–	2,428
	14,448	(409)	14,039	1,197	6,606	1,035	5,201

¹ Includes amounts that are both subject to and not subject to enforceable master netting agreements and similar agreements.

32 Legal proceedings and regulatory matters

The bank is subject to a number of legal proceedings arising in the normal course of our business. The bank does not expect the outcome of any of these proceedings, in aggregate, to have a material effect on its consolidated balance sheet or its consolidated income statement.

33 Events after the reporting period

Except as noted in Note 23 Subordinated liabilities, there have been no other material events after the reporting period which would require disclosure or adjustment to the 31 December 2016 consolidated financial statements.

These accounts were approved by the Board of Directors on 16 February 2017 and authorized for issue.

HSBC Group International Network*

Services are provided by over 4,000 offices in 70 countries and territories:

Europe	<i>Offices</i>	Asia-Pacific	<i>Offices</i>	Americas	<i>Offices</i>	Middle East and Africa	<i>Offices</i>
Armenia	9	Australia	38	Argentina	144	Algeria	3
Austria	1	Bangladesh	10	Bahamas	1	Bahrain	6
Belgium	1	Brunei Darussalam	11	Bermuda	9	Egypt	59
Channel Islands	21	China	263	Brazil	1	Israel	2
Czech Republic	2	Cook Islands	1	British Virgin Islands	2	Kuwait	1
France	331	Hong Kong Special Administrative Region	243	Canada	147	Lebanon	4
Germany	18	India	37	Cayman Islands	3	Libya	1
Greece	17	Indonesia	144	Chile	1	Mauritius	12
Ireland	3	Japan	977	Colombia	1	Morocco	1
Isle of Man	2	Korea, Republic of	3	Mexico	1	Nigeria	1
Italy	3	Macau Special Administrative Region	6	Peru	1	Oman	70
Luxembourg	5	Malaysia	75	United States of America	244	Qatar	3
Malta	36	Maldives	1	Uruguay	11	Saudi Arabia	109
Monaco	2	New Zealand	4			South Africa	4
Netherlands	1	Philippines	11			United Arab Emirates	16
Poland	5	Singapore	20				
Russia	2	Sri Lanka	14				
Spain	2	Taiwan	40				
Sweden	2	Thailand	1				
Switzerland	8	Vietnam	16				
Turkey	91						
United Kingdom	760						

Associated companies are included in the network of offices.

HSBC Bank Canada Subsidiaries*

HSBC Global Asset Management (Canada) Limited

1 (800) 830-8888
www.hsbc.ca

HSBC Investment Funds (Canada) Inc.

1 (800) 830-8888
www.hsbc.ca/funds

HSBC Private Wealth Services (Canada) Inc.

1 (844) 756-7783
www.hsbc.ca

HSBC Securities (Canada) Inc.

1 (800) 760-1180
www.hsbc.ca

For more information, or to find the HSBC Bank Canada branch nearest you, call 1 (888) 310-4722 or visit our website at www.hsbc.ca

* As of March 2017

Executive Committee*

Sandra J. Stuart

Group General Manager,
President and Chief Executive
Officer
Vancouver

Jacques Fleurant

Chief Financial Officer
Vancouver

Kimberly Flood

Senior Vice President and
Head of Communications
Toronto

Chris J. Hatton

Chief Operating Officer
Vancouver

Jason R. Henderson

Executive Vice President
and Managing Director,
Head of Global Banking
and Markets
Toronto

Stephen L. O'Leary

Chief Risk Officer
Vancouver

Linda Seymour

Executive Vice President
and Country Head of Commercial
Banking
Toronto

Georgia Stavridis

Senior Vice President and
Head of Financial
Crime Compliance
Vancouver

Nancy Sullivan

Chief Compliance Officer
and Head of Regulatory
Compliance
Toronto

Kim Toews

Acting Head of Human Resources
Vancouver

Larry Tomei

Executive Vice President and
Head of Retail Banking and
Wealth Management
Toronto

Sophia Tsui

Senior Vice President
and Chief Auditor
Vancouver

Josée Turcotte

Senior Vice President,
Corporate Secretary and
Head of Governance
Toronto

Annelle Wilkins

Senior Vice President
and General Counsel
Vancouver

Board of Directors*

Samuel Minzberg

Chair of the Board,
HSBC Bank Canada and
Senior Partner,
Davies Ward Phillips &
Vineberg LLP

Michael A. Grandin

Chair of Audit and Risk
Committee
Corporate Director

Pierre Goad

Group Managing Director,
Group Head of Human Resources
HSBC Holdings plc

Jason R. Henderson

Executive Vice President
and Managing Director,
Head of Global Banking
and Markets
HSBC Bank Canada

Beth S. Horowitz

Corporate Director

Nancy E. Hughes Anthony

Corporate Director

Robert G. McFarlane

Corporate Director

Sandra J. Stuart

Group General Manager,
President and Chief Executive
Officer
HSBC Bank Canada

Helen P. K. Wong

Chief Executive Officer,
Greater China
The Hongkong and Shanghai
Banking Corporation Limited

* As of March 2017

Shareholder Information

PRINCIPAL ADDRESSES

Vancouver:

HSBC Bank Canada
885 West Georgia Street
Vancouver, British Columbia
Canada V6C 3E9
Tel: (604) 685-1000
Fax: (604) 641-3098

Toronto:

HSBC Bank Canada
70 York Street
Toronto, Ontario
Canada M5J 1S9

Media Enquiries:

English: (416) 868-3878 or
(604) 641-1905
English or French: (416) 868-8282

WEBSITE

www.hsbc.ca

SOCIAL MEDIA

Twitter: @HSBC_CA
Facebook: @HSBCCanada

HSBC BANK CANADA SECURITIES ARE LISTED ON THE TORONTO STOCK EXCHANGE

HSBC Bank Canada
Class 1 Preferred Shares – Series C
(HSB.PR.C)
Class 1 Preferred Shares – Series D
(HSB.PR.D)

SHAREHOLDER CONTACT

For change of address, shareholders are requested to contact their brokers.

For general information please write to the bank's transfer agent, Computershare Investor Services Inc., at their mailing address or by e-mail to service@computershare.com.

Other shareholder inquiries may be directed to Shareholder Relations by writing to:

HSBC Bank Canada
Shareholder Relations –
Finance Department
4th Floor
2910 Virtual Way
Vancouver, British Columbia
Canada V5M 0B2
E-mail: shareholder_relations@hsbc.ca

TRANSFER AGENT AND REGISTRAR

Computershare Investor Services Inc.
Shareholder Service Department
8th Floor, 100 University Avenue
Toronto, Ontario
Canada M5J 2Y1
Tel: 1 (800) 564-6253

DIVIDEND DATES

Dividend record and payable dates for the bank's preferred shares, subject to approval by the Board, are:

<i>Record Date</i>	<i>Payable Date</i>
15 March	31 March
15 June	30 June
15 September	30 September
15 December	31 December

Designation of eligible dividends:

For the purposes of the *Income Tax Act* (Canada), and any similar provincial legislation, HSBC Bank Canada advises that all of its dividends paid to Canadian residents in 2006 and subsequent years are eligible dividends unless indicated otherwise.

© Copyright HSBC Bank Canada 2017
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 Bank Canada.

Form number 1040146 (03/17). Published by Communications, HSBC Bank Canada, Vancouver

Cover designed by Black Sun Plc, London; text pages designed by Communications (Asia), The Hongkong and Shanghai Banking Corporation Limited, Hong Kong

Printed by RRD/Moore Canada, Toronto, Ontario, on Rolland Opaque Text board and paper using vegetable oil-based inks. Made in Canada, the stocks comprise 30% post-consumer waste and 70% virgin fiber. Pulps used are elemental chlorine-free.

HSBC Bank Canada
885 West Georgia Street
Vancouver, British Columbia
Canada V6C 3E8
Telephone: 1 604 685 1000
www.hsbc.ca