### DBS BANK LTD.

(Incorporated in Singapore. Registration Number: 196800306E)

### AND ITS SUBSIDIARIES

## FINANCIAL STATEMENTS

For the financial year ended 31 December 2019

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#### DBS Bank Ltd. and its subsidiaries Income Statements For the Year Ended 31 December 2019

		The Group		Bank	
In \$ millions	Note	2019	2018	2019	2018
Interest income		15,592	13,792	12,450	11,099
Interest expense		5,896	4,777	5,441	4,540
Net interest income	4	9,696	9,015	7,009	6,559
Net fee and commission income	5	3,053	2,788	2,114	1,933
Net trading income	6	1,448	1.174	1,053	917
Net income from investment securities	7	334	131	306	127
Other income	8	74	139	817	774
Non-interest income	_	4,909	4,232	4,290	3,751
Total income		14,605	13,247	11,299	10,310
Employee benefits	9	3,514	3,188	2,242	2,085
Other expenses	10	2,734	2,611	1,709	1,727
Total expenses	<u> </u>	6,248	5,799	3,951	3,812
Profit before allowances		8,357	7,448	7,348	6,498
Allowances for credit and other losses	11	703	710	262	410
Profit before tax		7,654	6,738	7,086	6,088
Income tax expense	12	1,153	1,014	871	781
Net profit	_	6,501	5,724	6,215	5,307
Attributable to:					
Shareholders		6,471	5,656	6,215	5,307
Non-controlling interests		30	68	-	<u> </u>
	_	6,501	5,724	6,215	5,307

### DBS Bank Ltd. and its subsidiaries Statements of Comprehensive Income For the Year Ended 31 December 2019

10. 110 100. 211000 01 200011201 2010	The G	roup	Bank		
In \$ millions	2019	2018	2019	2018	
Net profit	6,501	5,724	6,215	5,307	
Other comprehensive income:					
Items that may be reclassified subsequently to income statement:					
Translation differences for foreign operations Other comprehensive income of associates Gains/ (losses) on debt instruments classified at fair value	(175) 1	(94) 3	(90) -	(107) -	
through other comprehensive income and others  Net valuation taken to equity  Transferred to income statement  Taxation relating to components of other comprehensive	875 (394)	(131) (146)	705 (321)	(122) (149)	
income	(51)	20	(35)	16	
Item that will not be reclassified to income statement: Gains/ (losses) on equity instruments classified at fair value through other comprehensive income (net of tax) Fair value change from own credit risk on financial liabilities	136	(154)	120	(156)	
designated at fair value (net of tax)	(63)	111	(63)	109	
Other comprehensive income, net of tax	329	(391)	316	(409)	
Total comprehensive income	6,830	5,333	6,531	4,898	
Attributable to: Shareholders Non-controlling interests	6,799 31	5,263 70	6,531 -	4,898 -	
	6,830	5,333	6,531	4,898	
<del>-</del>					

### DBS Bank Ltd. and its subsidiaries Balance Sheets as at 31 December 2019

	The Group			Bank		
In \$ millions	Note	2019	2018	2019	2018	
Assets						
Cash and balances with central banks	14	26,360	22,184	19,771	15,581	
Government securities and treasury bills	15	49,729	47,278	37,142	37,580	
Due from banks		39,300	40,154	33,933	34,616	
Derivatives	35	17,250	17,042	15,255	14,912	
Bank and corporate securities	16	63,746	58,197	59,560	54,007	
Loans and advances to customers	17	357,884	345,003	296,906	286,658	
Other assets	19	15,423	13,417	11,359	9,449	
Associates	22	835	838	186	208	
Subsidiaries	21	-	-	31,967	26,959	
Properties and other fixed assets	25	3,225	1,450	1,816	803	
Goodwill and intangibles	26	5,170	5,175	334	334	
Total access	_	570.000	550 700	F00 000	404 407	
Total assets	_	578,922	550,738	508,229	481,107	
Liabilities						
Due to banks		23,773	22,648	18,712	19,368	
Deposits and balances from customers	27	404,289	393,785	298,836	293,603	
Derivatives	35	17,633	16,741	15,455	14,706	
Other liabilities	28	20,843	18,377	15,113	11,599	
Other debt securities	29	53,310	41,571	51,041	38,982	
Due to holding company		5,963	6,716	4,695	5,431	
Due to subsidiaries		-	-	57,649	52,655	
	_					
Total liabilities	_	525,811	499,838	461,501	436,344	
Net assets	_	53,111	50,900	46,728	44,763	
	=		,	-,	,	
F. 4						
Equity	00	04.450	04.450	04.456	0.4.450	
Share capital	30	24,452	24,452	24,452	24,452	
Other equity instruments	31	2,813	2,813	2,813	2,813	
Other reserves	32	(349)	(752)	38	(551)	
Revenue reserves	32	25,235	23,417	19,425	18,049	
Shareholders' funds	<u>-</u>	52,151	49,930	46,728	44,763	
Non-controlling interests	33	960	970	-	-	
<b>T</b>	_		50.000	40 700	44.700	
Total equity	_	53,111	50,900	46,728	44,763	

### DBS Bank Ltd. and its subsidiaries Consolidated Statement of Changes in Equity For the Year Ended 31 December 2019

The Group	Attributable to shareholders of the Bank					_	
In \$ millions	Share capital	Other equity instruments	Other reserves	Revenue reserves	Shareholders <sup>a</sup> funds		Total equity
2019							
Balance at 1 January	24,452	2,813	(752)	23,417	49,930	970	50,900
Impact of adopting SFRS(I) 16 on 1 January	-	-	-	(95)	(95)	-	(95)
Balance at 1 January after adoption of SFRS(I) 16	24,452	2,813	(752)	23,322	49,835	970	50,805
Dividends paid to holding company	-	-	-	(4,445)	(4,445)	-	(4,445)
Dividends paid on preference shares	-	-	-	(38)	(38)	-	(38)
Dividends paid to non-controlling interests	-	-	-	-	-	(28)	(28)
Acquisition of non-controlling interests	-	-	-	-	-	(13)	(13)
Total comprehensive income	-	-	403	6,396	6,799	31	6,830
Balance at 31 December	24,452	2,813	(349)	25,235	52,151	960	53,111
2018							
Balance at 1 January	24,452	1,813	(187)	22,040	48,118	2,484	50,602
Impact of adopting SFRS(I) 9 on 1 January	-	-	(86)	95	9	-	9
Balance at 1 January after adoption of SFRS(I) 9	24,452	1,813	(273)	22,135	48,127	2,484	50,611
Issue of perpetual capital securities	-	1,000	-	-	1,000	-	1,000
Dividends paid to holding company	-	-	-	(4,422)	(4,422)	-	(4,422)
Dividends paid on preference shares	-	=	-	(38)	(38)	-	(38)
Dividends paid to non-controlling interests	-	=	-	-	-	(77)	(77)
Change in non-controlling interests	-	-	-	-	-	(7)	(7)
Redemption of preference shares issued by a subsidiary	-	-	-	-	-	(1,500)	(1,500)
Total comprehensive income	-	-	(479)	5,742	5,263	70	5,333
Balance at 31 December	24,452	2,813	(752)	23,417	49,930	970	50,900

### DBS Bank Ltd. and its subsidiaries Statement of Changes in Equity For the Year Ended 31 December 2019

Bank		Other			
	Share	equity	Other	Revenue	Total
In \$ millions	capital	instruments	reserves	reserves	equity
2019					
Balance at 1 January	24,452	2,813	(551)	18,049	44,763
Impact of adopting SFRS(I) 16 on 1 January		-	-	(91)	(91)
Balance at 1 January after adoption of SFRS(I) 16	24,452	2,813	(551)	17,958	44,672
Impact of conversion of India branch to a wholly-owned subsidiary	-	-	196	(188)	8
Dividends paid to holding company	-	-	-	(4,445)	(4,445)
Dividends paid on preference shares	-	-	-	(38)	(38)
Total comprehensive income	-	-	393	6,138	6,531
Balance at 31 December	24,452	2,813	38	19,425	46,728
2018					
Balance at 1 January	24,452	1,813	47	17,033	43,345
mpact of adopting SFRS(I) 9 on 1 January	24,402	1,010	(103)	83	(20)
Balance at 1 January after adoption of SFRS(I) 9	24,452	1,813	(56)	17,116	43,325
ssue of perpetual capital securities	2-1,-102	1,000	(00)	-	1,000
Dividends paid to holding company	_	1,000	_	(4,422)	(4,422)
Dividends paid on preference shares	_	_	_	(38)	(38)
Fotal comprehensive income	_	_	(495)	5,393	4,898
otal comprehensive moonie			(400)	0,000	7,000
Balance at 31 December	24,452	2,813	(551)	18,049	44,763

#### DBS Bank Ltd. and its subsidiaries Consolidated Cash Flow Statement For the Year Ended 31 December 2019

### The Group

In \$ millions	2019	2018
Cash flows from operating activities		
Profit before tax	7,654	6,738
Adjustments for non-cash and other items:		
Allowances for credit and other losses	703	710
Depreciation of properties and other fixed assets	609	331
Share of profits or losses of associates	(50)	(29)
Net loss/(gain) on disposal, net of write-off of properties and other fixed assets	`26	(86)
Net income from investment securities	(334)	(1 <del>3</del> 1)
Interest expense on subordinated term debts	` -	` 4
Interest expense on lease liabilities	29	-
Profit before changes in operating assets and liabilities	8,637	7,537
Increase/(Decrease) in:		
Due to banks	1,304	5,037
Deposits and balances from customers	10,908	19,598
Other liabilities	1,490	1,545
Other debt securities and borrowings	11,815	5,288
Due to holding company	(761)	2,785
(Increase)/Decrease in:		
Restricted balances with central banks	1,502	(276)
Government securities and treasury bills	(2,476)	(7,878)
Due from banks	690	(4,477)
Bank and corporate securities	(5,149)	(2,817)
Loans and advances to customers	(14,269)	(22,854)
Other assets	(2,327)	(1,195)
Tax paid	(632)	(887)
Net cash generated from operating activities (1)	10,732	1,406
Cash flows from investing activities		
Dividends from associates	29	25
Acquisition of interest in associate	-	(69)
Proceeds from disposal of interest in associates	21	11
Proceeds from disposal of properties and other fixed assets	2	105
Purchase of properties and other fixed assets	(586)	(533)
Net proceeds from acquisition of new business	•	262
Acquisition of non-controlling interests/ change in non-controlling interests	(13)	(7)
Net cash used in investing activities (2)	(547)	(206)
Cash flows from financing activities		
Interest paid on subordinated term debts	-	(16)
Redemption/purchase of subordinated term debts	-	(508)
Redemption of preference shares issued by a subsidiary	-	(1,500)
Issue of perpetual capital securities	-	1,000
Dividends paid to shareholders of the Bank	(4,483)	(4,460)
Dividends paid to non-controlling interests	(28)	(77)
Net cash used in financing activities (3)	(4,511)	(5,561)
Exchange translation adjustments (4)	39	(109)
Net change in cash and cash equivalents (1)+(2)+(3)+(4)	5,713	(4,470)
Cash and cash equivalents at 1 January	14,220	18,693
Impact of adopting SFRS(I) 9 on 1 January	14,220	(3)
Cash and cash equivalents at 31 December (Note 14)	19,933	14,220
Casii and Casii equivalents at 31 December (NOte 14)	19,333	14,220

These Notes are integral to the financial statements.

The consolidated financial statements for the year ended 31 December 2019 were authorised for issue by the Directors on 12 February 2020.

#### 1. Domicile and Activities

DBS Bank Ltd. (the Bank) is incorporated and domiciled in the Republic of Singapore and has its registered office at 12 Marina Boulevard, Marina Bay Financial Centre Tower Three, Singapore 018982. It is a wholly-owned subsidiary of DBS Group Holdings Ltd (DBSH).

The Bank is principally engaged in a range of commercial banking and financial services, principally in Asia.

The financial statements relate to the Bank and its subsidiaries (the Group) and the Group's interests in associates.

#### 2. Summary of Significant Accounting Policies

#### 2.1 Basis of preparation

## Compliance with Singapore Financial Reporting Standards (International) (SFRS(I))

The financial statements of the Bank and the consolidated financial statements of the Group are prepared in accordance with Singapore Financial Reporting Standards (International) (SFRS(I)).

The financial statements are presented in Singapore dollars and rounded to the nearest million, unless otherwise stated.

#### 2.2 Significant estimates and judgement

The preparation of financial statements requires management to exercise judgement, use estimates and make assumptions in the application of policies and in reporting the amounts in the financial statements. Although these estimates are based on management's best knowledge of current events and actions, actual results may differ from these estimates. Critical accounting estimates and assumptions used that are significant to the financial statements, and areas involving a higher degree of judgement and complexity, are disclosed in Note 3.

## 2.3 New or amended SFRS(I) and Interpretations effective for 2019 year-end

On 1 January 2019, the Group adopted SFRS(I) *16 Leases.* The other amendments and interpretations effective from 1 January 2019 do not have a significant impact on the Group's financial statements.

#### Adoption of SFRS(I) 16 Leases

SFRS(I) 16 Leases replaces the previous lease accounting standards. It requires almost all leases to be

recognised on the balance sheet, including a lessee's right-of-use asset, which represent its right to use the underlying assets, and its lease liabilities, which represent its obligations to make lease payments. The existing straight-line operating lease expense in profit or loss is also replaced by a depreciation charge for right-of-use assets and by an interest expense for lease liabilities.

The Group applied SFRS(I) 16 on 1 January 2019, using the modified retrospective approach. The cumulative effect of adopting SFRS(I) 16 was recognised as an adjustment to the opening balance of retained earnings at 1 January 2019, with no restatement of comparative information. On transition, the impact to retained earnings was a net decrease of \$95 million and \$91 million to the Group's and Bank's retained earnings respectively.

Lease liabilities of \$1.9 billion for the Group and \$1.1 billion for the Bank were recognised for leases that had previously been classified as operating leases under SFRS(I) 1-17 Leases. These lease liabilities, which have been included within other liabilities, were measured at the present value of the remaining lease payments.

The associated right-of-use assets of \$1.8 billion for the Group and \$1.0 billion for the Bank were recognised and included within the properties and other fixed assets line item. Right-of-use assets on significant property leases were measured on a retrospective basis as if SFRS(I) 16 had been applied since their lease commencement dates. The carrying values of other right-of-use assets were equal to the corresponding lease liabilities.

Refer to Note 2.14 for more details

#### 2.4 New SFRS(I) and Interpretations effective for future periods

The-amendments and interpretations effective for future periods do not have a significant impact on the Group's financial statements, except for Interest Rate Benchmark Reform where impact is being assessed.

## Amendments to SFRS(I) 9, SFRS(I) 1-39 and SFRS(I) 7 Interest Rate Benchmark Reform

In December 2019, the ASC issued 'Amendments to SFRS(I) 9, SFRS(I) 1-39 and SFRS(I) 7 Interest Rate Benchmark Reform' (effective 1 January 2020). The amendments provide exceptions that allow entities to continue hedge accounting for existing hedge relationships under the assumption that Inter Bank Offer Rate (IBOR) based hedged cash flows are not altered as a result of the IBOR Reform.

These amendments are issued due to global reform of interest rate benchmarks such as IBORs to phase out dealer-quote rates and replace them with alternative risk-free reference rates. There is currently uncertainty around the timing and precise nature of these changes. The Group continues to monitor the developments of IBOR reform and it will assess the impact for the Group as further information becomes available.

#### A) General Accounting Policies

A summary of the significant group accounting policies is described further below starting with those relating to the entire financial statements followed by those relating to the income statement, the balance sheet and other specific topics. This does not reflect the relative importance of these policies to the Group.

#### 2.5 Group Accounting

#### **Subsidiaries**

Subsidiaries are entities (including structured entities) over which the Group has control. The Group controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.

Subsidiaries are consolidated from the date control is transferred to the Group to the date control ceases.

The acquisition method is used to account for business combinations. Please refer to Note 2.13 for the Group's accounting policy on goodwill.

All intra-group transactions and balances are eliminated on consolidation.

#### Associates

Associates are entities over which the Group has significant influence but no control, where the Group generally holds a shareholding of between and including 20% and 50% of the voting rights. Investments in associates are accounted for using the equity method.

#### 2.6 Foreign currency treatment

#### Functional and presentation currency

Items in the financial statements are measured using the functional currency of each entity in the Group, this being the currency of the primary economic environment in which the entity operates. The Group's financial statements are presented in Singapore dollars, which is the functional currency of the Bank.

#### Foreign currency transactions and balances

Transactions in foreign currencies are measured using the exchange rate at the date of the transaction.

Monetary assets and liabilities denominated in foreign currencies are translated into the functional currency of the entity undertaking the transaction at the exchange rates at the balance sheet date. Foreign exchange differences arising from this translation are recognised in the income statement within "Net trading income".

Non-monetary assets and liabilities measured at cost in a foreign currency are translated using the exchange rates at the date of the transaction.

Non-monetary assets and liabilities measured at fair values in foreign currencies are translated using the exchange rates at the date when the fair values are determined, which is generally the balance sheet date. Unrealised foreign exchange differences arising from non-monetary financial assets and liabilities classified as fair value through profit or loss (FVPL) are recognised in the income statement within trading income.

Non-monetary financial assets that are classified at fair value through other comprehensive income (FVOCI) relates mainly to FVOCI equities. Please refer to Note 2.9 for the accounting treatment of FVOCI equities.

#### Subsidiaries and branches

The results and financial position of subsidiaries and branches whose functional currency is not Singapore dollars ("foreign operations") are translated into Singapore dollars in the following manner:

- Assets and liabilities are translated at the exchange rates at the balance sheet date:
- Income and expenses in the income statement are translated at exchange rates prevailing at each month-end, approximating the exchange rates at the dates of the transactions; and
- All resulting exchange differences are recognised in other comprehensive income and accumulated under capital reserves in equity. When a foreign operation is partially or fully disposed of, or when it is liquidated, such exchange differences are recognised in the income statement as part of the gain or loss.

For acquisitions prior to 1 January 2005, the foreign exchange rates at the respective dates of acquisition were used. Please refer to Note 26 for an overview of goodwill recorded. Goodwill and fair value adjustments arising on the acquisition of a foreign operation on or after 1 January 2005 are treated as assets and liabilities of the foreign operation and translated at the closing rate.

#### 2.7 Segment reporting

Operating segments are reported in a manner consistent with the internal reporting provided to management.

In preparing the segment information, amounts for each business segment are shown after the allocation of certain centralised costs, funding income and the application of transfer pricing, where appropriate. Transactions between segments are recorded within the segment as if they are third party transactions and are eliminated on consolidation.

Please refer to Note 46 for further details on business and geographical segment reporting.

#### **B) Income Statement**

#### 2.8 Income recognition

#### Interest income and interest expense

Interest income and interest expense as presented in Note 4 arise from all interest-bearing financial assets and financial liabilities regardless of their classification and measurement, with the exception of the Group's structured investment deposits which are carried at FVPL. Interest expense on such structured investment deposits is presented together with other fair value changes in trading income.

Interest income and interest expense are recognised on a time-proportionate basis using the effective interest method. The calculation includes significant fees and transaction costs that are integral to the effective interest rate, as well as premiums or discounts.

#### Fee and commission income

The Group earns fee and commission income from a diverse range of products and services provided to its customers. Fee and commission income are recognised when the Group has satisfied its performance obligation in providing the promised products and services to the customer, and are recognised based on contractual rates agreed with customers, net of expected waivers based on historical experience, and net of expenses directly related to it. The Group generally satisfies its performance obligation and recognises the fee and commission income on the following basis:

- Transaction-based fee and commission income is recognised on the completion of the transaction.
   Such fees include underwriting fees, brokerage fees, bancassurance sales commission and variable service fees, and fees related to the completion of corporate finance transactions.
- For a service that is provided over a period of time, fee and commission income is generally recognised on equal proportion basis over the period during which the related service is provided or credit risk is undertaken. This basis of recognition most appropriately reflects the nature and pattern of provision of these services to the customers over time. Fees for these services can be billed to customers in advance or periodically over time. Such fees include the income from issuance of financial guarantees and bancassurance fixed service fees.

The Group does not provide any significant credit terms to customers for the above products and services.

Directly related expenses typically include brokerage fees paid, card-related expenses and sales commissions, but do not include expenses for services delivered over a period (such as service contracts) and other expenses that are not specifically related to fee and commission income transactions.

#### Dividend income

Dividend income is recognised when the right to receive payment is established. This is generally the ex-dividend

date for listed equity securities, and the date when shareholders approve the dividend for unlisted equity securities. Dividend income arising from financial assets classified as FVPL is recognised in "Net trading income", while those arising from FVOCI financial assets is recognised in "Net income from investment securities".

#### Allowances for credit and other losses

Please refer to Note 2.11 for the accounting policy on impairment of financial assets.

#### C) Balance Sheet

#### 2.9 Financial assets

#### Initial recognition

Purchases and sales of all financial assets are recognised on the date that the Group enters into the contractual arrangements with counterparties. When the Group acts as a trustee or in a fiduciary capacity for assets it does not directly control or benefit from, the assets and the corresponding income belonging to a customer are excluded from the financial statements.

Financial assets are initially recognised at fair value, which is generally the transaction price.

#### Classification and subsequent measurement

SFRS(I) 9 categorises debt-like financial assets based on the business model within which the assets are managed, and whether the assets constitute a "basic lending arrangement" where their contractual cash flows represent solely payments of principal and interest (SPPI). Interest is defined as consideration for the time value of money, credit risk, other basic lending risks and may include a profit margin.

The classification of the financial assets and the associated accounting treatment are as follows:

- Debt instruments are measured at amortised cost when they are in a "hold to collect" (HTC) business model and have contractual cash flows that are SPPI in nature. The objective of a HTC business model is to collect contractual principal and interest cash flows. Sales are incidental to the objective and expected to be either insignificant or infrequent. These assets consist primarily of loans in the "Consumer Banking/ Wealth Management" and "Institutional Banking" segments as well as debt securities from the "Others" segment.
- Debt instruments are measured at fair value through other comprehensive income (FVOCI) when they are in a "hold to collect & sell" (HTC & S) business model and have cash flows that are SPPI in nature. Both the collection of contractual cash flows and sales are integral to achieving the objective of the HTC & S business model. Assets measured at FVOCI comprise mainly of debt securities from "Treasury Markets" and the "Others" segment.

Unrealised gains or losses on FVOCI debt instruments are recorded in other comprehensive

income and accumulated in FVOCI reserves. When they are sold, the accumulated fair value adjustments in FVOCI are reclassified to the income statement as "Net income from investment securities

- Debt instruments are measured at fair value through profit or loss (FVPL) when:
  - i) the assets are not SPPI in nature;
  - ii) the assets are not part of a "HTC" or "HTC & S" business model; or
  - iii) the assets are designated at FVPL to eliminate or significantly reduce the measurement or recognition inconsistencies that would otherwise arise from measuring assets or liabilities on different bases

Assets measured at FVPL are mainly recorded in the "Treasury Markets" segment. Realised and unrealised gains or losses on FVPL financial assets, except interest income, are taken to "Net trading income" in the income statement in the period they arise

- Subsequent changes in fair value of non-trading equity can be taken through profit or loss or comprehensive income, as elected. The Group generally elects its non-trading equity instruments to be classified as FVOCI. Other than dividend income, gains and losses on FVOCI equity instruments are recorded in other comprehensive income and accumulated in FVOCI reserves, and not reclassified to profit or loss upon derecognition.
- Derivatives (including derivatives embedded in financial liabilities but separated for accounting purposes) are also classified as held for trading unless they are designated as hedging instruments.
   Derivatives are classified as assets when the fair value is positive and as liabilities when the fair value is negative. Changes in the fair value of derivatives other than those designated as hedging instruments in cash flow or net investment hedges are included in "Net trading income".

#### Reclassification

Reclassification of financial assets are prohibited unless the Group changes its business model for managing financial assets. In practice, this is expected to be infrequent.

#### Determination of fair value

The fair value of financial assets is the price that would be received if the asset is sold in an orderly transaction between market participants at the measurement date. Fair value is generally estimated by discounting the future contractual cash flows at the current market interest rate that is available to the Group for similar financial instruments. Where applicable, a valuation reserve or pricing adjustment is applied to arrive at the fair value. The determination of fair value is considered a significant accounting policy for the Group and further details are disclosed in Note 39.

#### Offsetting

Financial assets and liabilities are presented net when there is a legally enforceable right to offset the recognised amounts and there is an intention to settle them on a net basis, or realise the asset and settle the liability simultaneously.

#### Derecognition

Financial assets are derecognised when the rights to receive cash flows from the financial assets have expired or when they have been transferred together with substantially all the risks and rewards of ownership. The Group enters into certain transactions where it transfers financial assets recognised on its balance sheet but retains either all or a portion of the risks and rewards of the transferred financial assets. In such cases, the transferred financial assets are not derecognised from the balance sheet. Such transactions include repurchase transactions described in Note 2.12. They also include transactions where control over the financial asset is retained, for example, by a simultaneous transaction (such as options) with the same counterparty to which the asset is transferred. These are mainly transacted in the "Treasury Markets" segment. In such cases, the Group continues to recognise the asset to the extent of its continuing involvement which is the extent to which it is exposed to changes in the value of the transferred asset.

Please refer to Note 18 for disclosures on transferred financial assets.

#### 2.10 Cash and cash equivalents

For the purposes of the cash flow statement, cash and cash equivalents comprise cash on hand and non-restricted balances with central banks which are readily convertible into cash.

## 2.11 Impairment of financial assets at amortised cost and FVOCI

#### **Expected Credit Losses (ECL)**

ECL are recognised for all financial assets held at amortised cost, debt instruments measured at FVOCI, guarantees and undrawn credit commitments. It represents the present value of expected cash shortfalls over the residual term of a financial asset, guarantee or undrawn commitment.

At initial recognition, allowance is required for ECL resulting from possible default events that may occur within the next 12 months ('12-month ECL'). In the event of a significant increase in credit risk, allowance is required for ECL resulting from possible default events over the expected life of the instrument ('lifetime ECL').

The ECL recognised follows the three-stage model: financial instruments where 12-month ECL is recognised are considered Stage 1; financial instruments which experience a significant increase in credit risk are in Stage 2; and financial instruments with objective evidence of default or credit-impaired are in Stage 3.

- Stage 1 Financial instruments are classified as Stage 1 at initial recognition and will remain under Stage 1 unless they experience a significant increase in credit risk or become credit-impaired.
   12-month ECL is recognised for these instruments.
- Stage 2 Financial instruments which experience a significant increase in credit risk (SICR) subsequent to initial recognition, but are not yet credit-impaired, will migrate from Stage 1 to Stage 2. Lifetime ECL is recognised for these instruments.

**Significant increase in credit risk (SICR):** SICR is assessed by comparing the risk of default at reporting date to the risk of default at origination using a range of qualitative and quantitative factors.

For wholesale exposures, a financial instrument is deemed to have experienced a significant increase in credit risk when:

- the observed change in its probability of default (PD), as observed by downgrades in the Group's internal credit risk rating for this instrument between origination and reporting dates, is more than pre-specified thresholds; or
- it is placed on internal credit "watchlists" for closer scrutiny of developing credit issues.

For *retail* exposures, days past due is the main driver, supplemented with a PD-based criterion. In any event, all retail and wholesale exposures that are more than 30 days past due are presumed to have experienced a significant increase in credit risk, unless assessed otherwise, and are classified as Stage 2.

Instruments in Stage 2 that no longer exhibit a significant increase in credit risk will be transferred back to Stage 1.

 Stage 3 - Financial instruments that become creditimpaired with evidence of default, i.e. nonperforming assets, are transferred to Stage 3. Please refer to Note 41 for the definition of nonperforming assets.

Lifetime ECL is recognised for these assets. ECL for Stage 3 assets are also known as specific allowances.

A Stage 3 exposure that is restructured can be upgraded to Stage 2 if there are reasonable grounds to conclude that the obligor is able to service future principal and interest payments in accordance with the restructured terms. Stage 3 financial assets are written-off, in whole or in part, when the Group has exhausted all practical recovery efforts and has concluded that there is no reasonable expectation of future recoveries.

#### **Measurement of ECL**

ECL are unbiased and probability-weighted estimates of credit losses determined by evaluating a range of possible outcomes, considering past events, current conditions and assessments of future economic conditions at the reporting date. The ECL associated with

a financial instrument is typically a product of its probability of default (PD), loss given default (LGD) and exposure at default (EAD) discounted using the original effective interest rate to the reporting date.

Component	Description
PD	Point-in-time (based on current conditions, adjusted to take into account estimates of future conditions that will impact PD) estimate of the likelihood of default.
LGD	Estimate of the loss arising on default. It is based on the difference between the contractual cash flows due and those that the Group would expect to receive, including recoveries from collaterals.
EAD	Estimate of the expected credit exposure at time of default, taking into account repayments of principal and interest as well as expected drawdowns on undrawn credit commitments and potential pay-outs on guarantees issued.

The 12-month ECL is calculated by multiplying the 12-month PD, LGD and EAD. Lifetime ECL is calculated using the lifetime PD. The 12-month and lifetime PDs represent the probability of default occurring over the next 12 months and the remaining maturity of the instrument respectively.

In most instances, expected remaining maturity is the same as the remaining contractual life which represents the maximum contractual period over which the Group is exposed to the credit risk of the borrower. However, for some revolving products (e.g. credit cards), the expected remaining maturity may exceed the contractual maturity. In such instances, behavioural expected remaining life will be used.

## **ECL Modelling - Point-in-Time and Forward-Looking Adjustments**

The Group leverages the models and parameters implemented under the Basel II Internal Ratings-Based (IRB) framework where possible, with appropriate modifications to meet SFRS(I) 9 requirements.

Other relevant historical information, loss experience or proxies will be utilised for portfolios without appropriate Basel models and parameters, with a view to maximise the use of available information that is reliable and supportable.

For the *wholesale* portfolios, credit cycle indices (CCIs) have been developed for the key industries and geographies using expected default frequencies. Expected default frequency is a market-based default risk measure driven by market value of firms' assets, asset volatility and leverage. CCIs are then used as inputs to convert the through-the-cycle PDs derived from Basel models / parameters into the point-in-time equivalents, and to incorporate forward-looking

information. LGDs are determined using historical loss data, which are adjusted for both the latest and forecasted recovery experience.

For *retail* portfolios, historical loss experience is used in conjunction with the forecast loss rates which take into account relevant macroeconomic variables, such as property-prices and unemployment rates.

**Expert credit judgement and post model adjustments**The measurement of ECL requires the application of expert credit judgement. These include:

- assignment of credit risk ratings and determination of whether exposures should be placed on credit watchlists:
- assessment of whether a significant increase in credit risk has occurred;
- selecting and calibrating the ECL models such as CCIs:
- determining the expected remaining maturity of revolving products (e.g. overdrafts and credit cards);
- determination of the forecast loss rates; and
- application of thematic overlays based on emerging risk themes. As at 31 December 2019, thematic ECL overlays were applied to account for uncertainties arising from US-China trade tensions and the socio-political situation in Hong Kong.

#### **Governance framework**

The measurement of ECL is subject to a robust governance framework as described below.

- The Group ECL Review Committee (Review Committee) is the overarching committee for ECL related matters and comprises senior management and representatives from functions across the Group. Significant changes to ECL models and methodologies and the application of thematic overlays are subject to the oversight and approval of the Review Committee.
- The Review Committee is supported by the Group ECL Operating Committee (Operating Committee) which comprises cross functional representatives and subject matter experts. The Operating Committee recommends changes to ECL models, methodologies and thematic overlays to the Review Committee; provides oversight over system design, infrastructure and development; and establishes principles and significant policies pertaining to ECL. Group Credit Risk Models Committee oversees ECL models and credit risk models used by the Group.
- Location ECL committees are established for key overseas subsidiaries to govern and manage location-specific ECL reporting.
- ECL models are subject to independent validation by the Risk Management Group (RMG) as well as independent reviews by internal and external auditors. The validation and assurance processes cover the review of the underlying ECL methodology including its logic and conceptual soundness.

#### 2.12 Repurchase agreements

Repurchase agreements (*Repos*) are treated as collateralised borrowings. The amount borrowed is reflected as a financial liability either as "Due to banks" or "Deposits and balances from customers". The securities sold under repos are treated as pledged assets and remain on the balance sheet at amortised cost or fair value depending on their classification.

Reverse repurchase agreements (*Reverse repos*) are treated as collateralised lending. The amount lent is reflected as a financial asset as "Cash and balances with central banks", "Due from banks" or "Loans and advances to customers".

Amounts paid and received in excess of the amounts borrowed and lent on the repos and reverse repos are amortised as interest expense and interest income respectively using the effective interest method.

#### 2.13 Goodwill

Goodwill arising from business combinations generally represents the excess of the acquisition cost over the fair value of identifiable assets acquired and liabilities and contingent liabilities assumed on the acquisition date. Goodwill is stated at cost less impairment losses and is tested at least annually for impairment.

At the acquisition date, any goodwill acquired is allocated to each of the cash-generating units (CGU) or group of CGUs expected to benefit from the combination's synergies.

An impairment loss is recognised when the carrying amount of a CGU, or group of CGUs, including the goodwill, exceeds the applicable recoverable amount. The recoverable amount of a CGU or CGU group is the higher of the CGU's or CGU group's fair value less cost to sell and its value-in-use. An impairment loss on goodwill is recognised in the income statement and cannot be reversed in subsequent periods.

#### 2.14 Properties and other fixed assets

#### Owned properties and other fixed assets

Properties (including investment properties) and other fixed assets are stated at cost less accumulated depreciation and impairment losses.

Depreciation is calculated using the straight-line method to write down the costs of the assets to their estimated residual values over the estimated useful lives of the assets. No depreciation is recognised when the residual value is higher than the carrying amount.

The Group reviewed the estimated useful lives and residual values of its properties. As a result of the review, the Group changed its estimates and applied these prospectively with effect from 1 January 2019 in accordance with SFRS(I) 1-8 Accounting Policies, Changes in Accounting Estimates and Errors

Generally, the useful lives are as follows:

Leasehold land 100 years or over the remaining

lease period, whichever is shorter. Leasehold land where the unexpired lease period is more than 100 years is not depreciated.

Buildings 30 to 50 years or over the

remaining lease period, whichever

is shorter.

Computer software 3 to 5 years

Office equipment, furniture and fittings

5 to 10 years

Leasehold

Up to 20 years

improvements

#### Leased properties and other fixed assets

Lease liabilities are initially measured at the present value of lease payments to be made over the lease term at the lease commencement date. The associated right of use assets are measured at the amount equal to the lease liability.

Lease liabilities are subsequently measured at amortised cost using the effective interest method. The right-of-use assets are depreciated over the lease term on a straight line basis.

Extension options and termination options are included in the assessment of the lease term if the options are reasonably certain to be exercised. If the Group changes its initial assessment, adjustments are made to the carrying amounts of the lease liabilities and right-of-use assets prospectively.

The recognition exceptions for short-term leases and leases of low-value assets are applied.

Please refer to Note 25 for the details of owned and leased properties and other fixed assets and their movements during the year.

#### 2.15 Financial liabilities

### Initial recognition, classification and subsequent measurement

Financial liabilities are initially recognised at fair value. The Group generally classifies and measures its financial liabilities in accordance with the purpose for which the financial liabilities are incurred and managed. Accordingly:

Financial liabilities are classified as financial liabilities at fair value through profit or loss if they are incurred for the purpose of repurchasing in the near term ("held for trading"), and this may include debt securities issued and short positions in securities for the purpose of ongoing market-making or trading. Financial liabilities at fair value through profit or loss can also be designated by management on initial recognition ("designated at fair value through profit or loss") if doing so eliminates or significantly reduces measurement or recognition inconsistencies that would otherwise arise, or if the financial liability contains an embedded derivative that would otherwise need to be separately recorded. Financial liabilities in this classification are usually within the "Treasury Markets" segment.

Realised or unrealised gains or losses on financial liabilities held for trading and financial liabilities designated under the fair value option, except interest expense, are taken to "Net trading income" in the income statement in the period they arise. Interest expense on structured investment deposits at fair value through profit or loss is also presented together with other fair value changes in "Net trading income"

The changes to the fair value of financial liabilities designated under the fair value option that are attributable to a reporting entity's own credit risk are taken to revenue reserves through other comprehensive income. These amounts are not transferred to the income statement even when realised.

- Derivative liabilities are treated consistently with derivative assets. Please refer to Note 2.9 for the accounting policy on derivatives.
- Other financial liabilities are carried at amortised cost using the effective interest method. These comprise predominantly the Group's "Deposits and balances from customers", "Due to banks" and "Other debt securities".

Where the classification and measurement of financial liabilities do not reflect the management of the financial liabilities, the Group may apply hedge accounting where permissible and relevant to better reflect the management of the financial liabilities. Please refer to Note 2.19 for details on hedging and hedge accounting.

Please refer to Note 13 for further details on the types of financial liabilities classified and measured as above.

#### **Determination of fair value**

The fair value of financial liabilities is the price that would be paid to transfer the liability in an orderly transaction between market participants at the measurement date.

Please refer to Note 39 for further fair value disclosures.

#### Derecognition

A financial liability is derecognised from the balance sheet when the obligation specified in the contract is discharged, cancelled or expired.

## 2.16 Loan commitments, letters of credit and financial guarantees

#### Loan commitments

Loan commitments are not recognised on the balance sheet and are disclosed in Note 34. Upon a loan drawdown, the amount of the loan is accounted for under

"loans and advances to customers" on the Group's balance sheet.

#### Letters of credit

Letters of credit are recorded off-balance sheet as contingent liabilities upon issuance, and the corresponding payables to the beneficiaries and receivables from the applicants are recognised on the balance sheet upon acceptance of the underlying documents.

#### Financial guarantees

Financial guarantees are initially recognised in the financial statements at fair value on the date the guarantees are given.

Financial guarantees are subsequently measured at the higher of:

- the amount of the ECL (note 2.11); and
- the unamortised portion of the fees that were received on initial recognition.

Please refer to Note 2.8 for the principles for recognising the fees.

Off-balance sheet credit exposures are managed for credit risk in the same manner as financial assets.

Please refer to Note 2.11 on the Group's accounting policies on allowances for credit allowances.

#### 2.17 Provisions and other liabilities

Provisions for other liabilities of uncertain timing and amounts are recognised when:

- the Group has a present legal or constructive obligation as a result of past events;
- it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation; and
- a reliable estimate of the amount of the obligation can be made.

The amount recognised as a provision is the best estimate of the expenditure required to settle the present obligation at the balance sheet date.

## 2.18 Share capital and other instruments classified as equity

Ordinary shares, preference shares and other instruments which do not result in the Group having a contractual obligation to deliver cash or another financial asset, or to exchange financial assets or financial liabilities with the holder under conditions that are potentially unfavourable to the Group, are classified as equity. Distributions arising from such instruments are recognised in equity as there is no contractual obligation to pay distributions on these instruments. Incremental external costs directly attributable to the issuance of such instruments are accounted for as a deduction from equity.

Dividends are recorded during the financial year in which they are approved by the Board of Directors and declared payable.

#### D) Other Specific Topics

#### 2.19 Hedging and hedge accounting

As part of the overall risk management of the Group, derivatives and other instruments are used to manage exposures to interest rate and foreign currency risks, including exposures arising from forecast transactions.

Where hedge accounting is not applied, the derivatives are treated in the same way as derivatives held for trading purposes, i.e. realised and unrealised gains and losses are recognised in "Net trading income".

The Group applies hedge accounting for economic hedge relationships that meet the hedge accounting criteria. To qualify for hedge accounting, at the inception of each hedging relationship, the Group designates and documents the relationship between the hedging instrument and the hedged item; the risk management objective for undertaking the hedge transaction; and the methods used to assess the effectiveness of the hedge. At inception and on an on-going basis, the Group also assesses and measures the effectiveness of the hedging relationship between the hedging instrument and the hedged item.

Where all relevant criteria are met, hedge accounting is applied to remove the accounting mismatch between hedging instrument and the hedged item. The Group designates certain derivatives as hedging instruments in respect of foreign currency risk and interest rate risk in fair value hedges, cash flow hedges, or hedges of net investments in foreign operations as described below.

#### Fair value hedges

For a qualifying fair value hedge, the changes in the fair value of the hedging instruments are recorded in the income statement, together with any changes in the fair value of the hedged item attributable to the hedged risk. If the hedge no longer meets the criteria for hedge accounting, the adjustment to the carrying amount of a hedged item is amortised, using the effective interest method, to the income statement over its remaining maturity.

However, where the hedged item is an equity instrument classified as FVOCI, changes in the fair value of the hedging instrument and the hedged item are both recorded in other comprehensive income and accumulated in FVOCI reserves. The amounts recorded in FVOCI reserves are not subsequently reclassified to the income statement.

#### · Cash flow hedges

The effective portion of changes in the fair value of a derivative designated and qualifying as a cash flow hedge is recognised in other comprehensive income and accumulated under the cash flow hedge reserve in equity. This amount is reclassified to the income statement in the periods when the hedged forecast cash flows affect the income statement. The ineffective portion of the gain or loss is recognised immediately in the income statement under "Net trading income".

When a hedging instrument expires or is sold, or when a hedge no longer meets the criteria for hedge accounting, any cumulative gain or loss existing in the cash flow hedge reserve remains until the forecast transaction is recognised in the income statement. When a forecast transaction is no longer expected to occur, the cumulative gain or loss in the cash flow hedge reserve is reclassified from equity to the income statement.

#### • Net investment hedges

Hedges of net investments in the Group's foreign operations are accounted for in a manner similar to cash flow hedges. On disposal of the foreign operations, the cumulative gain or loss in the capital reserves is reclassified to the income statement as part of the gain or loss on disposal.

When designating the hedging instrument, the Group may elect to exclude the valuation components of currency basis spreads and forward points from the hedge relationship on a hedge-by-hedge basis.

The forward points and currency basis spreads which are excluded and recorded in other comprehensive income are:

- reclassified to the income statement when the forecast transaction occurs; or
- amortised to the income statement over the hedging tenor for time-period hedges. The amounts recorded in other comprehensive income are not subsequently reclassified to the income statement for hedges of FVOCI equities.

The Group has elected to apply the SFRS(I) 9 hedge accounting rules in full.

Please refer to Note 36 for further details relating to hedge accounting, including fair value, cash flow and net investment hedges.

#### 2.20 Employee benefits

Employee benefits, which include base pay, cash bonuses, share-based compensation, contribution to defined contribution plans such as the Central Provident Fund and other staff-related allowances, are recognised in the income statement when incurred. For defined contribution plans, contributions are made to publicly or privately administered funds on a mandatory, contractual or voluntary basis. Once the contributions have been paid, the Group has no further payment obligations.

Employee entitlement to annual leave is recognised when they accrue to employees. A provision is made for the estimated liability for annual unutilised leave as a result of services rendered by employees up to the balance sheet date.

#### 2.21 Share-based compensation

Employee benefits also include share-based compensation, namely the DBSH Share Plan, the DBSH Employee Share Plan and the DBSH Employee Share Purchase Plan (the Plans). The details of the Scheme and Plans are described in Note 37.

Equity instruments granted and ultimately vested under the Plans are recognised in the income statement based on the fair value of the equity instrument at the date of grant. The expense is amortised over the vesting period of each award.

#### 2.22 Current and deferred taxes

Current income tax for current and prior periods is recognised as the amount expected to be paid or recovered from the tax authorities, using the tax rates and tax laws that have been enacted or substantively enacted by the balance sheet date. The Group considers uncertain tax positions generally at the level of the total tax liability to each tax authority for each period. The liability is determined based on the total amount of current tax expected to be paid, taking into account all tax uncertainties, using either an expected value approach or a single best estimate of the most likely outcome.

Tax assets and liabilities of the same type (current or deferred) are offset when a legal right of offset exists and settlement in this manner is intended. This applies generally when they arise from the same tax reporting group and relate to the same tax authority.

Deferred income tax is provided on temporary differences arising between the tax bases of assets and liabilities and their carrying amounts in the financial statements. The amount of deferred tax provided is based on the expected manner of realisation or settlement of the carrying amount of assets and liabilities, using tax rates enacted or substantively enacted by the balance sheet date.

The amount of deferred tax assets recognised takes into account the likelihood the amount that can be used to offset payable taxes on future profits.

Deferred tax related to fair value re-measurement of FVOCI investments, which are recognised outside profit or loss, is also recognised outside profit or loss, i.e. in other comprehensive income and accumulated in the FVOCI reserves.

#### 3. Critical Accounting Estimates

The Group's accounting policies and use of estimates are integral to the reported amounts in the financial statements. Certain accounting estimates require management's judgement in determining the appropriate methodology for valuation of assets and liabilities. Procedures are in place to ensure that methodologies are reviewed and revised as appropriate. The Group believes its estimates for determining the valuation of its assets and liabilities are appropriate.

The following is a brief description of the Group's critical accounting estimates that involve management's valuation judgement.

#### 3.1 Impairment of financial assets

It is the Group's policy to recognise, through charges against profit, allowances in respect of estimated and inherent credit losses in its portfolio as described in Note 2.11.

ECLs are probability-weighted amounts determined by evaluating a range of possible outcomes and taking into account past events, current conditions and assessments of future economic conditions, which will necessarily involve the use of judgement.

Please refer to Note 41 for a further description of the Group's credit risk management framework, policies and procedures.

#### 3.2 Fair value of financial instruments

The majority of the Group's financial instruments reported at fair value are based on quoted and observable market prices or on internally developed models that are based on independently sourced or verified market parameters.

The fair value of financial instruments without an observable market price in an active market may be determined using valuation models. The choice of model requires significant judgement for complex products especially those in the "Treasury Markets" segment.

Policies and procedures have been established to facilitate the exercise of judgement in determining the risk characteristics of various financial instruments, discount rates, estimates of future cash flows and other factors used in the valuation process.

Please refer to Note 39 for further details on fair valuation and fair value hierarchy of the Group's financial instruments measured at fair value.

#### 3.3 Goodwill impairment

The Group performs an impairment review to ensure that the carrying amount of a CGU to which goodwill is allocated does not exceed the recoverable amount of the CGU. Note 26 provides details of goodwill at the reporting date.

The recoverable amount represents the present value of the estimated future cash flows expected to arise from continuing operations. Therefore, in arriving at the recoverable amount, management exercises judgement in estimating the future cash flows, growth rate and discount rate.

#### 3.4 Income taxes

The Group has exposure to income taxes in numerous jurisdictions. Significant judgement is involved in determining the Group's provision for income taxes. The Group recognises liabilities for expected tax issues based on reasonable estimates of whether additional taxes will be due. Where uncertainty exists around the Group's tax position including resolution of any related appeals or litigation processes, appropriate provisions are provided based on technical merits of the positions with the same tax authority. Note 20 provides details of the Group's deferred tax assets/liabilities. In general, determination of the value of assets/liabilities relating to carry forward tax losses requires judgement.

#### **Net Interest Income**

	The	Group	Ban	k
In \$ millions	2019	2018	2019	2018
Cash and balances with central banks and Due from banks	877	819	850	700
Customer non-trade loans	10,247	8,959	8,242	7,176
Trade assets	1,574	1,556	1,072	1,066
Securities and others	2,894	2,458	2,286	2,157
Total interest income	15,592	13,792	12,450	11,09 9
Deposits and balances from customers	4,129	3,488	2,858	2,583
Other borrowings	1,767	1,289	2,583	1,957
Total interest expense	5,896	4,777	5,441	4,540
Net interest income	9,696	9,015	7,009	6,559
Comprising:				
Interest income from financial assets at FVPL	846	852	699	642
Interest income from financial assets at FVOCI	726	745	551	604
Interest income from financial assets at amortised cost	14,020	12,195	11,200	9,853
Interest expense from financial liabilities at FVPL	(352)	(320)	(295)	(263)
Interest expense from financial liabilities not at FVPL <sup>(a)</sup>	(5,544)	(4,457)	(5,146)	(4,27 7)
Total	9,696	9,015	7,009	6,559

<sup>(</sup>a) Includes interest expense of \$29 million (2018: nil) and \$12 million (2018: nil) on lease liabilities for the Group and Bank respectively

#### 5. **Net Fee and Commission Income**

	The G	Bank		
In \$ millions	2019	2018	2019	2018
Brokerage	114	154	58	71
Investment banking	214	136	187	121
Transaction services <sup>(b)</sup>	760	720	540	518
Loan-related	407	390	300	304
Cards <sup>(c)</sup>	790	714	536	490
Wealth management	1,290	1,141	841	743
Fee and commission income	3,575	3,255	2,462	2,247
Less: fee and commission expense	522	467	348	314
Net fee and commission income <sup>(a)</sup>	3,053	2,788	2,114	1,933

<sup>(</sup>a) Includes net fee and commission income of \$113 million (2018: \$98 million) and \$95 million (2018: \$84 million) for the Group and Bank respectively, which was derived from the provision of trust and other fiduciary services during the year. Net fee and commission income earned from financial assets or liabilities not at fair value through profit or loss was \$905 million (2018: \$873 million) and \$666 million (2018: \$645 million) during the year for the Group and Bank respectively

<sup>(</sup>b) Includes trade & remittances, guarantees and deposit-related fees. The 'Others' category has been subsumed under 'Transaction services' from 2019. The change has been applied retrospectively

(c) Card fees are net of interchange fees paid

#### . Net Trading Income

	The C	Group	Ва	nk
In \$ millions	2019	2018	2019	2018
Net trading income <sup>(a)</sup>				
- Foreign exchange	1,110	836	724	623
- Interest rates, credit, equities and others(b)	1,546	(15)	1,511	(63)
Net gain/ (loss) from financial assets designated at fair value	18	(12)	18	(12)
Net (loss)/ gain from financial liabilities designated at fair value	(1,226)	365	(1,200)	369
Total	1,448	1,174	1,053	917

<sup>(</sup>a) Includes income from assets that are mandatorily classified as FVPL as they are not SPPI in nature

#### 7. Net Income from Investment Securities

	The C	Ва	ınk	
In \$ millions	2019	2018	2019	2018
Debt securities				
- FVOCI	143	25	118	26
- Amortised cost	62	6	62	6
Equity securities at FVOCI <sup>(a)</sup>	129	100	126	95
Total <sup>(b)</sup>	334	131	306	127
Of which: net gains transferred from				
FVOCI reserves	161	5	135	6

<sup>(</sup>a) Dividend income

### 8. Other Income

	The C	Group	Ba	Bank	
In \$ millions	2019	2018	2019	2018	
Net gain on disposal of properties and other fixed assets	1	91	#	4	
Others <sup>(a)/(b)</sup>	73	48	817	770	
Total	74	139	817	774	

<sup>#</sup> Amount under \$500,000

### 9. Employee Benefits

In \$ millions	The C	Group	Bank		
	2019	2018	2019	2018	
Salaries and bonuses	2,897	2,588	1,859	1,684	
Contributions to defined contribution plans	177	167	121	116	
Share-based expenses <sup>(a)</sup>	119	112	94	90	
Others	321	321	168	195	
Total	3,514	3,188	2,242	2,085	

<sup>(</sup>a) Equity settled share-based expenses

<sup>(</sup>b) Includes dividend income of \$174 million (2018: \$117 million) for both the Group and Bank

<sup>(</sup>b) Includes fair value impact of hedges for investment securities

<sup>(</sup>a) Includes share of profits or losses of associates for the Group, net gains and losses from sale of loans carried at amortised cost and rental income from operating leases for both the Group and Bank

<sup>(</sup>b) Includes dividend income from subsidiaries and associates of \$790 million (2018: \$740 million) for the Bank

#### **Other Expenses** 10.

	The C	Bank		
In \$ millions	2019	2018	2019	2018
Computerisation expenses <sup>(a)</sup>	1,062	939	827	723
Occupancy expenses <sup>(b)</sup>	452	443	239	240
Revenue-related expenses	351	352	175	205
Others <sup>(c)</sup>	869	877	468	559
Total	2,734	2,611	1,709	1,727

Includes hire, depreciation and maintenance costs of computer hardware and software

	The (	Group	Bank	
In \$ millions	2019	2018	2019	2018
Depreciation expenses				
- owned properties and other fixed assets	376	331	251	222
- leased properties and other fixed assets	233	-	111	-
Hire and maintenance costs of fixed assets, including building-related expenses <sup>(a)</sup>	371	560	245	341
Expenses on investment properties	#	#	#	#
Audit fees <sup>(b)</sup> payable to external auditors <sup>(c)</sup> :				
- Auditors of the Bank	4	5	3	4
- Associated firms of auditors of the Bank	4	4	1	1
Non-audit related fees payable to external auditors <sup>(c)</sup> :				
- Auditors of the Bank	1	1	1	1
- Associated firms of auditors of the Bank	1	1	#	#

Amount under \$500,000

#### **Allowances for Credit and Other Losses** 11.

	The G	Bank		
In \$ millions	2019	2018	2019	2018
Specific allowances <sup>(a)(b)</sup>				
Loans and advances to customers (Note 17)	698	657	339	379
Investment securities				
- FVOCI	-	(1)	-	(1)
- Amortised cost	(2)	#	(2)	#
Properties and other fixed assets	(3)	#	-	#
Off-balance sheet credit exposures	44	44	42	45
Others	24	11	4	(5)
General allowances <sup>(c)</sup>	(58)	(1)	(121)	(8)
Total	703	710	262	410

<sup>#</sup> Amount under \$500,000

<sup>(</sup>b) Includes depreciation of leased office and branch premises of \$204 million (2018: rental expenses of \$283 million) for the Group, and \$95 million (2018: rental expenses of \$141 million) for the Bank and amounts incurred in the maintenance of buildings
(c) Includes office administration expenses (e.g. printing, stationery, telecommunications, etc.), legal and professional fees

<sup>(</sup>a) 2018 balance includes rental expenses for operating leases. The expenses for operating leases are reflected under depreciation and interest expenses in

<sup>(</sup>b) Includes audit related assurance fees

<sup>(</sup>c) PricewaterhouseCoopers network firms

<sup>(</sup>a) Includes Stage 3 ECL

<sup>(</sup>b) Includes write-back of \$1 million (2018: a charge of \$2 million) for the Group and a write-back of \$3 million (2018: write-back of \$7 million) for the Bank for non-credit exposures

<sup>(</sup>c) Refers to Stage 1 and 2 ECL

The following tables explains the changes in ECL under SFRS(I) 9 in 2019 and 2018 which are attributable to the following factors:

- Transfers between stages.
- Net portfolio changes, which are determined on an obligor basis i.e. originations with new obligors net of derecognitions of former obligors.
- Remeasurements, which include the impact of changes in model inputs or assumptions, partial repayments, additional drawdowns on existing facilities and changes in ECL following a transfer between stages.

	The Group					
	General al (Non-im		Specific allowances (Impaired)	Total		
In \$ millions	Stage 1	Stage 2	Stage 3			
2019						
Balance at 1 January	1,124	1,445	2,612	5,181		
Changes in allowances recognised in opening balance						
that were transferred to/ (from)	188	(345)	157	-		
-Stage 1	(30)	30	-	-		
-Stage 2	225	(225)	-	-		
-Stage 3	(7)	(150)	157	-		
Net portfolio changes	86	(68)	-	18		
Remeasurements	(308)	389	605	686		
Net write-offs <sup>(a)</sup>	-	-	(869)	(869)		
Exchange and other movements	#	#	(3)	(3)		
Balance at 31 December	1,090	1,421	2,502	5,013		
Charge/(Write-back) in the income statement	(34)	(24)	762	704		
2018						
Balance at 1 January	902	1,623	2,519	5,044		
Changes in allowances recognised in opening balance						
that were transferred to/ (from)	121	(207)	86	-		
-Stage 1	(20)	20	-	-		
-Stage 2	144	(144)	-	-		
-Stage 3	(3)	(83)	86	-		
Net portfolio changes	105	(78)	-	27		
Remeasurements	68	219	623	910		
Model refinements	(119)	(110)	-	(229)		
Net write-offs <sup>(a)</sup>	` -	` -	(659)	(659)		
Acquisition of new business	51	-	14	65		
Exchange and other movements	(4)	(2)	29	23		
Balance at 31 December	1,124	1,445	2,612	5,181		
Charge/(Write-back) in the income statement	175	(176)	709	708		

<sup>(</sup>a) Write-offs net of recoveries

<sup>#</sup> Amount under \$500,000

		Bank		
	General a		Specific allowances	Total
<u>-</u>	(Non-im		(Impaired)	_
In \$ millions	Stage 1	Stage 2	Stage 3	
2019				
Balance at 1 January	900	1,230	2,130	4,260
Changes in allowances recognised in opening balance				
that were transferred to/ (from)	160	(296)	136	-
-Stage 1	(25)	25	-	-
-Stage 2	190	(190)	-	-
-Stage 3	(5)	(131)	136	-
Net portfolio changes	59	(52)	-	7
Remeasurements	(256)	264	250	258
Net write-offs <sup>(a)</sup>	-	-	(503)	(503)
Impact of conversion of India branch to a wholly-owned subsidiary	(15)	(18)	(126)	(159)
Exchange and other movements	#	3	(18)	(15)
Balance at 31 December	848	1,131	1,869	3,848
Charge/(Write-back) in the income statement	(37)	(84)	386	265
2018				
Balance at 1 January	703	1,435	2,001	4,139
Changes in allowances recognised in opening balance				
that were transferred to/ (from)	101	(168)	67	-
-Stage 1	(15)	15	-	-
-Stage 2	118	(118)	-	-
-Stage 3	(2)	(65)	67	-
Net portfolio changes	94	(68)	-	26
Remeasurements	93	141	358	592
Model refinements	(89)	(112)	-	(201)
Net write-offs <sup>(a)</sup>	` <del>-</del>	` <del>-</del>	(323)	(323)
Exchange and other movements	(2)	2	27	27
Balance at 31 December	900	1,230	2,130	4,260
Charge/(Write-back) in the income statement	199	(207)	425	417

<sup>(</sup>a) Write-offs net of recoveries

The following table provides additional information on the financial instruments that are subject to ECL as at 31 December 2019. FVPL assets and FVOCI equity instruments are not subject to ECL and therefore not reflected in the table.

	The Group								
		Gross carryi	ng value <sup>(c)</sup>		ECL balances				
In \$ millions	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3	Total	
2019									
Assets									
Loans and advances to									
customer	337,675	18,548	5,402	361,625	934	1,304	2,305	4,543	
Investment securities									
- Government securities					_			_	
and treasury bills <sup>(a)</sup>	39,789	-	-	39,789	3	-	-	3	
- Bank and corporate	45 400	400	40	45 550			4-		
debt securities <sup>(a)</sup> Others <sup>(b)</sup>	45,426	106	40	45,572	21	1	15	37	
Otners <sup>(9)</sup>	67,259	15	78	67,352	31	1	71	103	
Liabilities									
ECL on guarantees and other									
off-balance sheet exposures	-	-	-	-	101	115	111	327	
				ļ					
Total ECL					1,090	1,421	2,502	5,013	
2018									
Assets									
Loans and advances to	323,982	18,839	5,251	348,072	903	1,299	2,440	4,642	
customer Investment securities									
<ul> <li>Government securities and treasury bills<sup>(a)</sup></li> </ul>	36,661	35	-	36,696	3	-	-	3	
- Bank and corporate debt	41,739	313	46	42,098	26	6	18	50	
securities <sup>(a)</sup>									
Others <sup>(b)</sup>	61,634	76	60	61,770	27	1	51	79	
Liabilities									
ECL on guarantees and other									
off-balance sheet exposures	-	-	-	-	165	139	103	407	
Total ECL					1,124	1,445			

<sup>(</sup>a) Includes loss allowances of \$13 million (2018: \$15 million) for debt securities that are classified at FVOCI

<sup>(</sup>b) Comprise of amounts in "Cash and balances with central banks", "Due from Banks" and "Other assets" that are subject to ECL

<sup>(</sup>c) Balances exclude off-balance sheet exposures

		Cross sarry	ng value(c)	Ban	k	ECL ba	Janasa	
		Gross carryi						
In \$ millions	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3	Total
2019								
Assets	_							
Loans and advances to customer Investment securities	281,378	13,896	4,282	299,556	719	1,024	1,709	3,452
<ul> <li>Government securities and treasury bills<sup>(a)</sup></li> <li>Bank and corporate debt</li> </ul>	28,659	-	-	28,659	2	-	-	2
securities <sup>(a)</sup>	42,445	106	-	42,551	16	1	-	17
Others <sup>(b)</sup>	72,748	4	53	72,805	27	#	52	79
Liabilities								
ECL on guarantees and other off-balance sheet exposures	-	-	-	-	84	106	108	298
Total ECL					848	1,131	1,869	3,848
2018								
Assets								
Loans and advances to customer Investment securities	270,204	14,542	4,130	288,876	702	1,095	1,994	3,791
- Government securities and treasury bills <sup>(a)</sup>	29,918	35	-	29,953	2	-	-	2
- Bank and corporate securities <sup>(a)</sup>	39,485	313	46	39,844	25	6	18	49
Others <sup>(b)</sup>	63,008	54	20	63,082	22	=	15	37
Liabilities					L			
ECL on guarantees and other off-balance sheet exposures	-	-	-	-	149	129	103	381
Total ECL					900	1,230	2,130	4,260

#### Sensitivity of ECL calculation to macroeconomic variables

The Group assessed ECL sensitivity for the wholesale and retail portfolios to changes in the allocation of exposures between Stages 1 and 2. ECL is estimated to reduce by \$1,184 million should all the exposures in Stage 2 return to Stage 1 and were assigned a lower 12-month ECL instead of lifetime ECL. The impact also reflects the higher PDs ascribed to Stage 2 exposures in addition to the recognition of lifetime instead of 12-month ECL.

As ECL estimation relies on multiple variables, no single analysis can fully demonstrate the sensitivity of the ECL to changes in macroeconomic variables.

Includes loss allowances of \$8 million (2018: \$13 million) for debt securities that are classified at FVOCI Comprise of amounts in "Cash and balances with central banks", "Due from Banks", "Due from subsidiaries" and "Other assets" that are subject to ECL

Balances exclude off-balance sheet exposures

Amount under \$500,000

#### 12. Income Tax Expense

	The	Ва	nk	
In \$ millions	2019	2018	2019	2018
Current tax expense				
- Current year	1,123	1,062	764	784
- Prior years' provision	(17)	(57)	(37)	(56)
Deferred tax expense		, ,		
- Prior years' provision	(4)	2	-	-
- Origination of temporary differences	51	7	144	53
Total	1,153	1,014	871	781

The deferred tax charge/(credit) in the income statement comprises the following temporary differences:

	The G	Bar	nk	
In \$ millions	2019	2018	2019	2018
Accelerated tax depreciation	#	17	20	4
Allowances for credit and other losses	(4)	(18)	50	42
Other temporary differences	51	10	74	7
Deferred tax expense charged to income statement	47	9	144	53

The tax on the Group's and Bank's profit before tax differs from the theoretical amount that would arise using the Singapore basic tax rate as follows:

	The (	Group	Ba	nk
In \$ millions	2019	2018	2019	2018
Profit before tax	7,654	6,738	7,086	6,088
Prima facie tax calculated at a tax rate of 17% (2018: 17%)	1,301	1,145	1,205	1,035
Effect of different tax rates in other countries	20	17	11	#
Effect of change in country's tax rate (a)	38	34	-	34
Net income not subject to tax	(59)	(50)	(166)	(135)
Net income taxed at concessionary rate	(239)	(165)	(239)	(165)
Expenses not deductible for tax	31	27	15	10
Others	61	6	45	2
Income tax expense charged to income statement	1,153	1,014	871	781

<sup>#</sup> Amount under \$500,000

Deferred income tax relating to FVOCI financial assets and others of \$57 million was debited (2018: \$28 million credited) and own credit risk of \$3 million was credited (2018: \$3 million debited) directly to equity for the Group. Deferred income tax relating to FVOCI financial assets and others of \$41 million was debited (2018: \$27 million credited) and own credit risk of \$3 million was credited (2018: \$3 million debited) directly to equity for the Bank.

Please refer to Note 20 for further information on deferred tax assets/liabilities.

<sup>(</sup>a) 2019 relates to impact from revaluation of net deferred tax assets due to a cut in India's corporate tax rate. 2018 relates to the measurement of deferred taxes due to a change in the applicable tax rate arising from the conversion of India branch to a wholly-owned subsidiary

#### 13. **Classification of Financial Instruments**

			The	e Group			
	Mandatorily at FVPL <sup>(c)</sup>	FVPL designated	Amortised cost	FVOCI- Debt	FVOCI- Equity	Hedging derivatives	Tota
2019	u	accignated		2001	<u> </u>	donvativos	
Assets							
Cash and balances with central banks	501	_	22,560	3,299	_	_	26,360
Government securities and treasury	9,942	_	20,039	19,748	_	_	49,729
bills <sup>(d)</sup> Due from banks	10,719	_	27,626	955	_	_	39,30
Derivatives	16,862	_	21,020	333	_	388	17,25
Bank and corporate securities	15,903	_	34,955	10,592	2,296	-	63,74
Loans and advances to customers	448	354	357,082	10,332	2,230	_	357,88
Other financial assets	-	334	15,110	_	_	_	15,11
Total financial assets	54,375	354	477,372	34,594	2,296	388	569,37
Other asset items outside the scope	54,575	334	411,312	34,394	2,290	300	9,54
of SFRS(I) 9 <sup>(a)</sup>							3,34
Total assets							578,92
Liabilities							
Due to banks	1,708	-	22,065	-	-	-	23,77
Deposits and balances from customers	-	1,281	403,008	-	-	-	404,28
Derivatives	16,975	-	-	-	-	658	17,63
Other financial liabilities	1,435	-	17,749	-	-	-	19,18
Other debt securities	222	9,498	43,590	-	-	-	53,31
Due to holding company	-	-	5,963	-	-	-	5,96
Total financial liabilities	20,340	10,779	492,375	-	-	658	524,15
Other liability items outside the scope of SFRS(I) 9 <sup>(b)</sup>							1,65
Total liabilities							525,81
2018							
Assets							
Cash and balances with central banks	381	-	18,642	3,161	-	-	22,18
Government securities and treasury bills	10,583	-	17,394	19,301	-	-	47,27
Due from banks	10,872	_	27,736	1,546	_	_	40,15
Derivatives	16,795	_	, -	, -	_	247	17,04
Bank and corporate securities	14,471	_	33,452	8,609	1,665	_	58,19
Loans and advances to customers	1,167	406	343,430	, -	, -	_	345,00
Other financial assets	-	-	13,065	-	-	_	13,06
Total financial assets	54,269	406	453,719	32,617	1,665	247	542,92
Other asset items outside the scope of SFRS(I) 9 <sup>(a)</sup>	·		·	•	·		7,81
Total assets							550,73
Liabilities							
Due to banks	1,999	_	20,649	_	-	_	22,64
Deposits and balances from customers	1,335	1,716	392,069	-	-	-	393,78
Derivatives	16,193	1,710	-	_	_	548	16,74
Other financial liabilities	1,733	-	15,414	_	_	340	17,14
Other debt securities	217	6,915	34,439	_	_	- -	41,57
Due to holding company	217	0,913	6,716	-	-	- -	6,71
Total financial liabilities	20,142	8,631	469,287			548	498,60
Other liability items outside the scope of SFRS(I) 9 <sup>(b)</sup>	20,142	0,031	703,207	-	-	J <del>4</del> 0	1,23

<sup>(</sup>a) Includes associates, goodwill and intangibles, properties and other fixed assets, and deferred tax assets
(b) Includes current tax liabilities, deferred tax liabilities and provision for loss in respect of off-balance sheet credit exposures
(c) Assets and liabilities are mandatorily classified as FVPL when they are held for trading. In addition, debt-type financial assets that are not SPPI in nature are mandatorily classified as FVPL

<sup>(</sup>d) In 2019, the Group reclassified \$319 million of other government securities and treasury bills from "FVOCI-debt" to "Amortised cost". The impact of the reclassification was immaterial and recorded through Other Comprehensive Income

	Bank							
In the millions	Mandatorily	FVPL	Amortised	FVOCI-	FVOCI-	Hedging	<b>-</b> -	
In \$ millions	at FVPL(c)	designated	cost	Debt	Equity	derivatives	Tota	
2019								
Assets								
Cash and balances with central banks	501	-	17,922	1,348	-	-	19,77	
Government securities and treasury bills	8,484	-	17,190	11,468	-	-	37,14	
Due from banks	9,572	-	23,406	955	-	-	33,93	
Derivatives	14,881	-	-	-	-	374	15,25	
Bank and corporate securities	14,768	-	33,477	9,064	2,251	-	59,56	
Loans and advances to customers	448	354	296,104	-	-	-	296,90	
Other financial assets	-	-	11,319	-	-	-	11,31	
Due from subsidiaries	-	-	19,813	-	-	-	19,81	
Total financial assets	48,654	354	419,231	22,835	2,251	374	493,69	
Other asset items outside the scope of SFRS(I) 9 <sup>(a)</sup>							14,53	
Total assets							508,22	
Liabilities							·	
Due to banks	486	-	18,226	-	-	-	18,71	
Deposits and balances from customers	-	1,019	297,817	-	-	-	298,83	
Derivatives	14,838	, -	· -	-	-	617	15,45	
Other financial liabilities	1,278	_	12,527	-	_	_	13,80	
Other debt securities	222	9,498	41,321	_	_	_	51,04	
Due to holding company		-	4,695	_	_	_	4,69	
Due to subsidiaries	_	_	57,649	_	_	_	57,64	
Total financial liabilities	16,824	10,517	432,235			617	460,19	
Other liability items outside the scope of		.0,0	.02,200			0	1,30	
SFRS(I) 9 <sup>(b)</sup>							,	
Total liabilities							461,50	
2018								
Assets								
Cash and balances with central banks	381	-	13,840	1,360	-	-	15,58	
Government securities and treasury bills	7,628	-	16,338	13,614	-	-	37,58	
Due from banks	9,840	-	23,230	1,546	-	=	34,61	
Derivatives	14,673	-	-	-	-	239	14,91	
Bank and corporate securities	12,565	-	32,305	7,502	1,635	-	54,00	
Loans and advances to customers	1,167	406	285,085	-	-	-	286,65	
Other financial assets	-	-	9,287	-	-	-	9,28	
Due from subsidiaries	-	-	16,022	-	-	-	16,02	
Total financial assets	46,254	406	396,107	24,022	1,635	239	468,66	
Other asset items outside the scope of SFRS(I) 9 <sup>(a)</sup>							12,44	
Total assets							481,10	
Liabilities								
Due to banks	1,278	-	18,090	-	-	-	19,36	
Deposits and balances from customers	, -	789	292,814	-	-	-	293,60	
Deposits and palances from customers	44470	-	- ,-	_	_	530	14,70	
•	14.176					-	10,54	
Derivatives	14,176 1,247	-	9.298	-	-			
Derivatives Other financial liabilities	1,247	6.826	9,298 31.939	-	-	_		
Derivatives Other financial liabilities Other debt securities	=	6,826 -	31,939	- -	-	-	38,98	
Derivatives Other financial liabilities Other debt securities Due to holding company	1,247	6,826	31,939 5,431	- -	- - -	- -	38,98 5,43	
Derivatives Other financial liabilities Other debt securities Due to holding company Due to subsidiaries	1,247 217 - -	-	31,939 5,431 52,655	- - -	- - -		38,98 5,43 52,65	
Derivatives Other financial liabilities Other debt securities Due to holding company	1,247	6,826 - - 7,615	31,939 5,431	- - - -	- - - -	- - - 530	38,98 5,43	

 <sup>(</sup>a) Includes investments in subsidiaries, associates, properties and other fixed assets, and deferred tax assets
 (b) Includes current tax liabilities, deferred tax liabilities and provision for loss in respect of-balance sheet credit exposures
 (c) Assets and liabilities are mandatorily classified as FVPL when they are held for trading. In addition, debt-type financial assets that are not SPPI in nature are mandatorily classified as FVPL

Financial assets and liabilities are presented net when there is a legally enforceable right to offset the recognised amounts, and there is intention to settle them on a net basis or to realise the asset and settle the liability simultaneously.

#### Financial assets and liabilities offset on the balance sheet

As at 31 December 2019, "Loans and advances to customers" of \$28 million were set off against "Deposits and balances from customers" of \$28 million for the Group because contractually the Group has a legally enforceable right to set off these amounts, and intends to settle the loans and the deposits simultaneously at maturity or termination dates.

As at 31 December 2018, "Loans and advances to customers" of \$36 million were set off against "Deposits and balances from customers" of \$36 million for both the Group and Bank because contractually both the Group and Bank has a legally enforceable right to set off these amounts, and intends to settle the loans and the deposits simultaneously at maturity or termination dates.

#### Financial assets and liabilities subject to netting agreements but not offset on the balance sheet

The Group enters into master netting arrangements with counterparties where it is appropriate and feasible to do so to mitigate counterparty risk. The credit risk associated with favourable contracts is reduced by a master netting arrangement to the extent that if an event of default occurs, all amounts with the counterparty are settled on a net basis. Master netting arrangements do not result in an offset of financial assets and liabilities on the balance sheet, as the legal right to offset the transactions is conditional upon default.

These agreements include derivative master agreements (including the International Swaps and Derivatives Association (ISDA) Master Agreement), global master repurchase agreements and global securities lending agreements. The collaterals received and pledged under these agreements are generally conducted under terms that are in accordance with normal market practice. The agreements may allow rehypothecation of collateral received and there may be ongoing margin requirements to mitigate counterparty risk.

The disclosures set out in the tables below pertain to financial assets and liabilities that are not offset in the Group's and Bank's balance sheets but are subject to master netting arrangement or similar agreement that covers similar financial instruments. The disclosures enable the understanding of both the gross and net amounts, as well as provide additional information on how such credit risk is mitigated.

			The Group			
			·	Related amo		
In \$ millions	Carrying amounts on balance sheet	Not subject to enforceable netting	Net	Financial instruments	Financial collateral received/	Net
2019	balance sheet	agreement	amounts	instruments	pledged	amounts
Financial Assets						
Derivatives	17,250	4.940 <sup>(a)</sup>	12,310	10,826 <sup>(a)</sup>	860	624
Reverse repurchase agreements	7.479 <sup>(b)</sup>	232	7.247	-	7,239	8
Securities borrowings	1,336 <sup>(c)</sup>	-	1,336	-	1,274	62
Total	26,065	5,172	20,893	10,826	9,373	694
Financial Liabilities						
Derivatives	17,633	4,838 <sup>(a)</sup>	12,795	10,826 <sup>(a)</sup>	1,469	500
Repurchase agreements	6,018 <sup>(d)</sup>	312	5,706	-	5,695	11
Securities lendings	285 <sup>(e)</sup>	-	285	-	280	5
Short sale of securities	1,435 <sup>(f)</sup>	1,341	94	-	94	-
Total	25,371	6,491	18,880	10,826	7,538	516
2018						
Financial Assets						
Derivatives	17,042	5.827 <sup>(a)</sup>	11,215	8.837 <sup>(a)</sup>	811	1,567
Reverse repurchase agreements	11,629 <sup>(b)</sup>	6	11,623	-	11,619	4
Securities borrowings	73 <sup>(c)</sup>	-	73	-	70	3
Total	28,744	5,833	22,911	8,837	12,500	1,574
Financial Liabilities						
Derivatives	16,741	5,472 <sup>(a)</sup>	11,269	8,837 <sup>(a)</sup>	2,155	277
Repurchase agreements	7.333 <sup>(d)</sup>	5,472	6,685	0,007	6,685	211
Securities lendings	1,333.7	-	0,083	_	0,003 #	1
Short sale of securities	1.733 <sup>(f)</sup>	1,246	487	_	487	'
Total	25,808	7,366	18,442	8,837	9,327	278
าบเลา	25,000	1,300	10,442	0,037	5,527	210

<sup>#</sup> Amount under \$500.000

<sup>(</sup>a) Related amounts under "Financial instruments" are prepared on the same basis as netting arrangements recognised for computation of Capital Adequacy Ratio (CAR) as set out under MAS Notice 637 (unaudited), which incorporates a conservative stance on enforceable netting. Accordingly, the amounts shown under "Not subject to enforceable netting agreement" are those where either no netting agreements exist or where the netting agreements have not been recognised for computation of CAR

<sup>(</sup>b) Reverse repurchase agreements are presented under separate line items on the balance sheet, namely "Cash and balances with central banks", "Due from banks" and "Loans and advances to customers"

<sup>(</sup>c) Cash collateral pledged under securities borrowings are presented under "Other assets" on the balance sheet

<sup>(</sup>d) Repurchase agreements are presented under separate line items on the balance sheet, namely "Due to banks" and "Deposits and balances from customers"

<sup>(</sup>e) Cash collateral received under securities lendings are presented under "Other liabilities" on the balance sheet

<sup>(</sup>f) Short sale of securities are presented under "Other liabilities" on the balance sheet

			Bank	Related amo		
In \$ millions	Carrying amounts on balance sheet	Not subject to enforceable netting agreement	Net amounts	Financial instruments	Financial collateral received/ pledged	Net amounts
2019						
Financial Assets						
Derivatives	15,255	2,726 <sup>(a)</sup>	12,529	10,984 <sup>(a)</sup>	860	685
Reverse repurchase agreements	7,157 <sup>(b)</sup>	76	7,081	-	7,076	5
Securities borrowings	1,336 <sup>(c)</sup>	-	1,336	-	1,274	62
Total	23,748	2,802	20,946	10,984	9,210	752
Financial Liabilities						
Derivatives	15,455	2,503 <sup>(a)</sup>	12,952	10,984 <sup>(a)</sup>	1,479	489
Repurchase agreements	3,682 <sup>(d)</sup>	235	3,447	, -	3,435	12
Securities lendings	285 <sup>(e)</sup>	-	285	-	280	5
Total	19,422	2,738	16,684	10,984	5,194	506
2018						
Financial Assets						
Derivatives	14,912	3,481 <sup>(a)</sup>	11,431	8,994 <sup>(a)</sup>	752	1,685
Reverse repurchase agreements	11,629 <sup>(b)</sup>	6	11,623	-	11,619	4
Securities borrowings	73 <sup>(c)</sup>	-	73	=	70	3
Total	26,614	3,487	23,127	8,994	12,441	1,692
Financial Liabilities						
Derivatives	14,706	3.279 <sup>(a)</sup>	11,427	8,994 <sup>(a)</sup>	2,154	279
Repurchase agreements	6.505 <sup>(d)</sup>	541	5,964	-	5,964	
Securities lendings	1 <sup>(e)</sup>	-	1	-	#	1
Total	21,212	3,820	17,392	8,994	8,118	280

Amount under \$500,000

#### 14. **Cash and Balances with Central Banks**

	The Group		Bank	
	2019	2018	2019	2018
Cash on hand	2,301	2,459	2,037	2,240
Non-restricted balances with central banks	17,632	11,761	13,342	7,396
Cash and cash equivalents	19,933	14,220	15,379	9,636
Restricted balances with central banks <sup>(a)</sup>	6,427	7,964	4,392	5,945
Total <sup>(b)</sup>	26,360	22,184	19,771	15,581

<sup>(</sup>a) Mandatory balances with central banks

<sup>(</sup>a) Related amounts under "Financial instruments" are prepared on the same basis as netting arrangements recognised for computation of Capital Adequacy Ratio (CAR) as set out under MAS Notice 637 (unaudited), which incorporates a conservative stance on enforceable netting. Accordingly, the amounts shown under "Not subject to enforceable netting agreement" are those where either no netting agreements exist or where the netting agreements have not been recognised for computation of CAR

Reverse repurchase agreements are presented under separate line items on the balance sheet, namely "Cash and balances with central banks", "Due from banks" and "Loans and advances to customers"

Cash collateral pledged under securities borrowings are presented under "Other assets" on the balance sheet (b)

<sup>(</sup>c)

Repurchase agreements are presented under separate line items on the balance sheet, namely "Due to banks" and "Deposits and balances from (d)

Cash collateral received under securities lendings are presented under "Other liabilities" on the balance sheet

<sup>(</sup>b) Balances are net of ECL

#### 15. **Government Securities and Treasury Bills**

	The Group						
	Mandatorily		Amortised				
In \$ millions	at FVPL	FVOCI	cost	Total			
2019							
Singapore Government securities and treasury bills (Gross) <sup>(a)</sup>	3,763	1,069	8,818	13,650			
Other government securities and treasury bills (Gross)(b)	6,179	18,679	11,223	36,081			
Less: ECL <sup>(c)</sup>	-	-	2	2			
Total	9,942	19,748	20,039	49,729			
2018							
Singapore Government securities and treasury bills (Gross) <sup>(a)</sup>	4,013	1,471	8,630	14,114			
Other government securities and treasury bills (Gross)(b)	6,570	17,830	8,765	33,165			
Less: ECL <sup>(c)</sup>	-	-	1	1			
Total	10,583	19,301	17,394	47,278			

(a) Includes financial assets pledged or transferred of \$803 million (2018: \$831 million) (See Note 18)
 (b) Includes financial assets pledged or transferred of \$8,206 million (2018: \$7,184 million) (See Note 18)

(c) ECL for FVOCI securities amounting to \$1 million (2018: \$2 million) are not shown in the table, as these securities are recorded at fair value

		Ban	k	
In \$ millions	Mandatorily at FVPL	FVOCI	Amortised cost	Total
2019				
Singapore Government securities and treasury bills (Gross) <sup>(a)</sup>	3,763	1,069	8,818	13,650
Other government securities and treasury bills (Gross)(b)	4,721	10,399	8,373	23,493
Less: ECL <sup>(c)</sup>	-	-	1	1
Total	8,484	11,468	17,190	37,142
2018				
Singapore Government securities and treasury bills (Gross) <sup>(a)</sup>	4,013	1,471	8,630	14,114
Other government securities and treasury bills (Gross)(b)	3,615	12,143	7,709	23,467
Less: ECL <sup>(c)</sup>	-	-	1	1
Total	7,628	13,614	16,338	37,580

(a) Includes financial assets pledged or transferred of \$803 million (2018: \$831 million) (See Note 18)
(b) Includes financial assets pledged or transferred of \$5,816 million (2018: \$6,451 million) (See Note 18)
(c) ECL for FVOCI securities amounting to \$1 million (2018: \$1 million) are not shown in the table, as these securities are recorded at fair value

### **Bank and Corporate Securities**

	The Group						
In \$ millions	Mandatorily at FVPL	FVOCI	Amortised cost	Total			
2019							
Bank and corporate debt securities (Gross) <sup>(a)</sup>	8,279	10,592	34,980	53,851			
Less: ECL <sup>(c)</sup>	-	-	25	25			
Bank and corporate debt securities	8,279	10,592	34,955	53,826			
Equity securities <sup>(b)</sup>	7,624	2,296	-	9,920			
Total	15,903	12,888	34,955	63,746			
2018							
Bank and corporate debt securities (Gross)(a)	8,527	8,609	33,489	50,625			
Less: ECL <sup>(c)</sup>	-	-	37	37			
Bank and corporate debt securities	8,527	8,609	33,452	50,588			
Equity securities <sup>(b)</sup>	5,944	1,665	-	7,609			
Total	14,471	10,274	33,452	58,197			

(a) Includes financial assets pledged or transferred of \$1,395 million (2018: \$1,271 million) (See Note 18)

(b) Includes financial assets pledged or transferred of \$274 million (2018: less than \$500,000) (See Note 18)

(c) ECL for FVOCI securities amounting to \$12 million (2018: \$13 million) are not shown in the table, as these securities are recorded at fair value

		Bank		
In \$ millions	Mandatorily at FVPL	FVOCI	Amortised cost	Total
2019				
Bank and corporate debt securities (Gross)(a)	7,144	9,064	33,487	49,695
Less: ECL <sup>(c)</sup>	-	-	10	10
Bank and corporate debt securities	7,144	9,064	33,477	49,685
Equity securities <sup>(b)</sup>	7,624	2,251	-	9,875
Total	14,768	11,315	33,477	59,560
2018				
Bank and corporate debt securities (Gross)(a)	6,621	7,502	32,342	46,465
Less: ECL <sup>(c)</sup>	-	-	37	37
Bank and corporate debt securities	6,621	7,502	32,305	46,428
Equity securities <sup>(b)</sup>	5,944	1,635	-	7,579
Total	12,565	9,137	32,305	54,007

Includes financial assets pledged or transferred of \$824 million (2018: \$640 million) (See Note 18)
Includes financial assets pledged or transferred of \$274 million (2018: less than \$500,000) (See Note 18)
ECL for FVOCI securities amounting to \$7 million (2018: \$12 million) are not shown in the table, as these securities are recorded at fair value

#### **Loans and Advances to Customers 17.** The Group Bank 2018 In \$ millions 2019 2019 2018 Gross 362,427 349,645 300,358 290,449 Less: Specific allowances(a) 2,305 2,440 1,709 1,994 General allowances(a) 2,238 2,202 1,743 1,797 296,906 357,884 345,003 286,658 Analysed by product 135,624 130,585 Long-term loans 162,265 155,115 Short-term facilities 82,374 76,251 69,183 64,597 Housing loans 73,606 75,011 62,242 63,985 Trade loans 44,182 43,268 33,309 31,282 Gross total 362,427 349,645 300,358 290,449 Analysed by currency Singapore dollar 144,878 141,838 144,828 141,780 Hong Kong dollar 44,310 40,898 24,934 20,549 108,106 110,086 97,212 US dollar 95,738 Chinese yuan 14,019 12,481 2,644 2,071 Others 51,114 44,342 32,214 28,837 Gross total 362,427 349,645 300,358 290,449

Please refer to Note 41.4 for a breakdown of loans and advances to customers by geography and industry.

<sup>(</sup>a) Balances refer to ECL under SFRS(I) 9 (specific allowances: Stage 3 ECL; general allowances: Stage 1 and Stage 2 ECL).

The table below shows the movements in specific and general allowances for loans and advances to customers during the year.

			The 0	Group		
In \$ millions	Balance at 1 January	Charge/ (Write- back) to income statement	Net write- off during the year	Acquisition of new business	Exchange and other movements	Balance a 3' Decembe
2019	•		•			
Specific allowances						
Manufacturing	302	47	(50)	-	(3)	296
Building and construction	127	34	(16)	-	(5)	140
Housing loans	10	1	-	-	#	11
General commerce	268	166	(120)	-	(1)	313
Transportation, storage and communications Financial institutions, investment and holding	1,506	211	(381)	-	10	1,346
companies Professionals and private	18	(1)	2	-	#	19
individuals (excluding housing loans)	129	190	(188)	-	7	138
Others	80	50	(88)	•	#	42
Total specific allowances	2,440	698	(841)	-	8	2,305
Total general allowances	2,202	(17)	-	-	53	2,238
Total allowances	4,642	681	(841)	-	61	4,543
2018						
Specific allowances	050	400	(400)		(5)	000
Manufacturing	358	139	(190)	-	(5)	302
Building and construction	96	65	(34)	-	-	127
Housing loans	7 231	6 115	(3)	-	- 1	10 268
General commerce Transportation, storage and communications Financial institutions,	1,350	97	(79) (63)	-	122	1,506
investment and holding companies Professionals and private	22	(2)	(5)	-	3	18
individuals (excluding housing loans)	121	213	(210)	14	(9)	129
Others	91	24	(34)		(1)	80
Total specific allowances	2,276	657	(618)	14	111	2,440
Total general allowances	2,063	94	-	51	(6)	2,202
Total allowances	4,339	751	(618)	65	105	4,642

		Charge	Ва	nk Impact of conversion of India branch to a		
In \$ millions	Balance at 1 January	Charge/ (Write- back) to income statement	Net write- off during the year	wholly- owned subsidiary	Exchange and other movements <sup>(a)</sup>	Balance at 31 December
2019	. ouridary	<u> </u>	ino you	ousoidiai y		Docombo
Specific allowances						
Manufacturing	161	19	(15)	(27)	(1)	137
Building and construction	117	30	(4)	(59)	(4)	80
Housing loans	2	1	(4)	(55)	( <del>-</del> ) #	3
General commerce	80	39	(8)	(16)	(1)	94
Transportation, storage and communications Financial institutions, investment	1,487	158	(368)	(9)	8	1,276
and holding companies Professionals and private individuals (excluding housing	17	2	-	-	#	19
loans)	72	89	(86)	#	#	75
Others	58	1	(20)	(15)	1	25
Total specific allowances	1,994	339	(501)	(126)	3	1,709
Total general allowances	1,797	(91)	-	(17)	54	1,743
Total allowances	3,791	248	(501)	(143)	57	3,452
2018						
Specific allowances						
Manufacturing	197	62	(94)	-	(4)	161
Building and construction	86	59	(27)	-	(1)	117
Housing loans	1	1	-	-	-	2
General commerce	40	42	(3)	-	1	80
Transportation, storage and communications Financial institutions, investment	1,330	92	(55)	-	120	1,487
and holding companies Professionals and private	17	#	-	-	#	17
individuals (excluding housing loans)	76	98	(93)	_	(9)	72
Others	70 72	96 25	(38)	-	(1)	58
Total specific allowances	1,819	379	(310)	-	106	1,994
Total general allowances	1,716	81	-	-	-	1,797
Total allowances	3,535	460	(310)	=	106	3,791

<sup>#</sup> Amount under \$500,000

Included in loans and advances to customers are loans designated at fair value, as follows:

	The G	Bank		
In \$ millions	2019	2018	2019	2018
Fair value designated loans and advances and related credit derivatives				
Maximum credit exposure	354	406	354	406
Credit derivatives – protection bought	(354)	(406)	(354)	(406)
Cumulative change in fair value arising from changes in credit risk	(24)	(47)	(24)	(47)
Cumulative change in fair value of related credit derivatives	24	47	24	47

Changes in fair value arising from changes in credit risk are determined as the amount of change in fair value that is not attributable to changes in market conditions that give rise to market risk. These changes in market conditions include changes in a benchmark interest rate, foreign exchange rate or index of prices or rates.

During the year, the amount of change in the fair value of the loans and advances attributable to credit risk was a gain of \$23 million (2018: gain of \$2 million) for both the Group and Bank. During the year, the amount of change in the fair value of the related credit derivatives was a loss of \$23 million (2018: loss of \$2 million) for both the Group and Bank.

#### 18. Financial Assets Pledged or Transferred

The Group pledges or transfers financial assets to third parties in the ordinary course of business. Transferred assets continue to be recognised in the Group's financial statements when the Group retains substantially all their risks and rewards. Among these, as set out below, are securities pledged or transferred pursuant to repurchase, securities lending or collateral swap agreements and for derivative transactions under credit support agreements.

Derecognised assets that were subject to the Group's partial continuing involvement were not material in 2019 and 2018.

#### **Securities**

Securities transferred under repurchase, securities lending or collateral swap arrangements are generally conducted under terms in line with normal market practice. The counterparty is typically allowed to sell or re-pledge the securities but has an obligation to return them at maturity. If the securities decrease in value, the Group may, in certain circumstances, be required to place additional collateral.

For repurchase agreements, the securities pledged or transferred continue to be recorded on the balance sheet while cash received in exchange is recorded as a financial liability. The Group also pledges assets to secure its short position in securities and to facilitate settlement operations. The fair value of the associated liabilities approximates their carrying amount of \$5,374 million (2018: \$6,161 million) for the Group and \$2,945 million (2018: \$4,847 million) for the Bank, which are recorded under "Due to banks", "Deposits and balances from customers" and "Other liabilities" on the balance sheet.

For securities lending and collateral swap transactions, the securities lent continue to be recorded on the balance sheet. As the Group mainly receives other financial assets in exchange, the associated liabilities are not recorded on the balance sheet.

In addition, the Group also pledges securities for derivative transactions under credit support agreements. These assets continue to be recorded on the balance sheet. As the related derivative assets and liabilities are managed on a portfolio basis, there is no direct relationship between the securities pledged and the associated liabilities. As such, the associated liabilities are not disclosed.

The Group		Bank	
2019	2018	2019	2018
803	831	803	831
8,206	7,184	5,816	6,451
1,395	1,271	824	640
274	#	274	#
10,678	9,286	7,717	7,922
	2019 803 8,206 1,395 274	2019     2018       803     831       8,206     7,184       1,395     1,271       274     #	2019     2018     2019       803     831     803       8,206     7,184     5,816       1,395     1,271     824       274     #     274

# Amount under \$500.000

### **Covered bonds**

Pursuant to the Bank's Global Covered Bond Programme, selected pools of residential mortgages originated by the Bank have been assigned to a bankruptcy-remote structured entity, Bayfront Covered Bonds Pte Ltd (see Notes 21.2 and 29.4). These residential mortgages continue to be recognised on the Bank's balance sheet as the Bank remains exposed to the risks and rewards associated with them.

As at 31 December 2019, the carrying value of the covered bonds in issue was \$5,206 million (2018: \$5,268 million), while the carrying value of assets assigned was \$14,679 million (2018: \$10,506 million) for both the Group and Bank. The difference in values is attributable to an intended over-collateralisation required to maintain the credit ratings of the covered bonds in issue, and additional assets assigned to facilitate future issuances.

#### Other financial assets

The Group also enters into structured funding transactions where it retains the contractual rights to receive cash flows of financial assets extended to third parties but assumes a contractual obligation to pay these cash flows under the issued notes. The carrying amounts and fair values of these financial assets and liabilities of the Group and the Bank both amount to \$354 million (2018: \$406 million).

# 19. Other Assets

	The	The Group		nk
In \$ millions	2019	2018	2019	2018
Accrued interest receivable	1,567	1,507	1,171	1,168
Deposits and prepayments	532	550	210	197
Receivables from securities business	409	430	-	-
Sundry debtors and others	9,262	8,004	6,770	5,383
Cash collateral pledged <sup>(a)</sup>	3,340	2,574	3,168	2,539
Deferred tax assets (Note 20)	313	352	40	162
Total <sup>(b)</sup>	15,423	13,417	11,359	9,449

<sup>(</sup>a) Mainly relates to cash collateral pledged in respect of derivative portfolios

# 20. Deferred Tax Assets/Liabilities

Deferred tax assets and liabilities are offset when there is a legally enforceable right to set off current tax assets against current tax liabilities and when the deferred income taxes relate to the same tax authority. The deferred tax assets and liabilities are determined after appropriate offsetting, as shown in "Other assets" (Note 19) and "Other liabilities" (Note 28) respectively.

Deferred tax assets and liabilities comprise the following temporary differences:

	The	Group	Bank	
In \$ millions	2019	2018	2019	2018
Deferred income tax assets				
Allowances for losses	234	231	36	84
FVOCI financial assets and others	1	32	1	25
Own credit risk	3	#	3	#
Other temporary differences	235	248	57	156
	473	511	97	265
Amounts offset against deferred tax liabilities	(160)	(159)	(57)	(103)
Total	313	352	40	162
Deferred income tax liabilities				
Allowance for losses <sup>(a)</sup>	90	22	75	2
Accelerated tax depreciation	134	133	88	68
FVOCI financial assets and others	28	2	17	#
Other temporary differences	99	76	35	75
	351	233	215	145
Amounts offset against deferred tax assets	(160)	(159)	(57)	(103)
Total	191	74	158	42
Net deferred tax assets	122	278	(118)	120

<sup>#</sup> Amount under \$500,000

<sup>(</sup>b) Balances are net of specific and general allowances

<sup>(</sup>a) Include deferred tax arising from Regulatory Loss Allowance Reserve

#### 21. Subsidiaries and Consolidated Structured Entities

	Ва	ank
In \$ millions	2019	2018
Investment in subsidiaries <sup>(a)</sup>		
Ordinary shares	12,154	10,937
Due from subsidiaries		
Other receivables	19,813	16,022
Total	31,967	26,959

<sup>(</sup>a) The carrying amounts of certain investments which are designated as hedged items in a fair value hedge are adjusted for fair value changes attributable to the hedged risks

# 21.1 Main operating subsidiaries

The main operating subsidiaries within the Group are listed below.

		Effective sh	areholding %
Name of subsidiary	Incorporated in	2019	2018
Commercial Banking			
DBS Bank (Hong Kong) Limited*	Hong Kong	100	100
DBS Bank (China) Limited*	China	100	100
DBS Bank (Taiwan) Limited*	Taiwan	100	100
PT Bank DBS Indonesia*	Indonesia	99	99
DBS Bank India Limited	India	100	-
Stockbroking			
DBS Vickers Securities Holdings Pte Ltd	Singapore	100	100

<sup>\*</sup> Audited by PricewaterhouseCoopers network firms outside Singapore

The Group's main subsidiaries are regulated banks and non-bank financial institutions. Statutory, contractual or regulatory requirements as well as protective rights of non-controlling interests may restrict the ability of the Bank to access and transfer assets freely to or from other entities within the Group and to settle liabilities of the Group. Since the Group did not have any material non-controlling interests as at the balance sheet dates, any protective rights associated with these did not give rise to significant restrictions in 2018 and 2019.

Please refer to Note 33 for information on non-controlling interests.

## **DBS Bank India Limited**

Following the approval by Reserve Bank of India for the amalgamation of India branches operating under DBS Bank Ltd with DBS Bank India Limited (a wholly owned subsidiary) on 28 February 2019, all the branches of DBS Bank Ltd operating in India ("DBS India branches") will function as branches of DBS Bank India Limited with effect from 1 March 2019.

All assets and liabilities of DBS India branches have been transferred from DBS Bank Ltd to DBS Bank India Limited on 1 March 2019.

# 21.2 Consolidated structured entity

The structured entity consolidated by the Group is listed below.

Name of entity	Purpose of consolidated structured entity	Incorporated in
Bayfront Covered Bonds Pte Ltd	Covered bond guarantor	Singapore

Bayfront Covered Bonds Pte Ltd is a bankruptcy-remote structured entity established in conjunction with the Bank's USD 10 billion Global Covered Bond Programme (see Note 29.4). As part of the contractual structures that are integral to this programme, the Bank provides funding and hedging facilities to it.

#### 2. Associates

	The Gr	oup
In \$ millions	2019	2018
Unquoted equity securities <sup>(a)</sup>	835	857
Share of post-acquisition reserves	#	(19)
Total	835	838

(a) The carrying amounts of certain investments which are designated as hedged items in a fair value hedge are adjusted for fair value changes attributable to the hedged risks

In \$ millions	Bank 2019	2018
Unquoted equity securities <sup>(a)</sup>	186	208

(a) The carrying amounts of certain investments which are designated as hedged items in a fair value hedge are adjusted for fair value changes attributable to the hedged risks

The Group's share of income and expenses, assets and liabilities and off-balance sheet items of the associates are as follows:

In \$ millions	The	Group
	2019	2018
Income statement		
Share of income	290	238
Share of expenses	(240)	(209)
Balance sheet		
Share of total assets	2,369	2,174
Share of total liabilities	1,534	1,336
Off-balance sheet		
Share of contingent liabilities and commitments	#	#

# Amount under \$500,000

# 22.1 Main associates

The main associates of the Group are listed below.

		Effective sh	areholding %
Name of associate	Incorporated in	2019	2018
Unquoted			
Central Boulevard Development Pte Ltd**	Singapore	33.3	33.3
Network for Electronic Transfers (Singapore) Pte Ltd	Singapore	33.3	33.3
Changsheng Fund Management Company**	China	33.0	33.0

<sup>\*\*</sup> Audited by other auditors

As of 31 December 2019 and 31 December 2018, no associate was individually material to the Group. As a non-controlling shareholder, the Group's ability to receive dividends is subject to agreement with other shareholders. The associates may also be subject to statutory, contractual or regulatory requirements restricting dividend payments or to repay loans or advances made.

The Group's share of commitments and contingent liabilities of the associates as well as its commitments to finance or otherwise provide resources to them are not material.

#### 23. Unconsolidated Structured Entities

"Unconsolidated structured entities" are structured entities, as defined by SFRS(I) 12, that are not controlled by the Group. In the normal course of business, the Group enters into transactions with these structured entities to facilitate customer transactions and for specific investment opportunities.

While the economic exposures may be the same as those to other type of entities, SFRS(I) 12 specifically requires companies to disclose such exposures arising from transactions with unconsolidated structured entities. The table below reflects exposures to third party securitisation structures where the Group holds an interest in the normal course of business.

As is the case with other types of counterparties, the carrying amount from transactions with unconsolidated structured entities have been included in the Group's financial statements.

The risks arising from such transactions are subject to the Group's risk management practices.

The table below represents the Group's and Bank's maximum exposure to loss which for on-balance sheet assets and liabilities is represented by the carrying amount, and does not reflect mitigating effects from the availability of netting arrangements and financial instruments that the Group may utilise to economically hedge the risks inherent in third party structured entities, or risk-reducing effects of collateral or other credit enhancements.

In \$ millions	The	The Group		Bank	
	2019	2018	2019	2018	
Derivatives	11	38	11	38	
Corporate debt securities	3,045	2,693	2,820	2,662	
Loans and advances to customers	16	43	16	43	
Other assets	2	-	2	-	
Total assets	3,074	2,774	2,849	2,743	
Commitments	376	174	376	174	
Maximum Exposure to Loss	3,450	2,948	3,225	2,917	
Derivatives	68	#	68	#	
Total liabilities	68	#	68	#	

<sup>#</sup> Amount under \$500,000

SFRS(I) 12 also requires additional disclosures where the Group acts as a sponsor to unconsolidated structured entities. The Group is deemed a sponsor of a third party structured entity if it plays a key role in establishing the entity, and has an on-going involvement with the structured entity or if the Group's name appears in the structured entity's name.

The Group has not sponsored any structured entity during the financial year.

# 24. Acquisition

On 31 October 2016, DBS Bank Ltd. acquired the wealth management and retail banking business of Australia and New Zealand Banking Group Limited (ANZ) in five markets, namely Singapore, Hong Kong, China, Taiwan and Indonesia. Completion took place progressively, the first four in 2017 and Indonesia in February 2018.

# 25. Properties and Other Fixed Assets

	The Group		Bank	
In \$ millions	2019	2018	2019	2018
Owned properties and other fixed assets	1,631	1,450	942	803
Leased properties and other fixed assets <sup>(a)</sup>	1,594	-	874	-
Total	3,225	1,450	1,816	803

<sup>(</sup>a) Refers to right-of-use assets recognised under SFRS(I) 16 (See Note 2.3)

# 25.1 Owned properties and other fixed assets

	The Group							
In \$ millions	Investment properties (1)	Owner- occupied properties (2)	Software (3)	Other fixed assets <sup>(a)</sup>	Subtotal of owner-occupied properties, software and other fixed assets (5)=(2)+(3)+(4)	Total (6)=(1)+(5)		
2019	(-/	(-)	(-)	( - /	(=)-(=)-(=)-(-)	(0)-(1)1(0)		
Cost								
Balance at 1 January	58	672	1,402	1,055	3,129	3,187		
Additions	-	11	385	190	586	586		
Acquisition of new business	-	-	-	-	-	-		
Disposals / Write-offs	-	(7)	(71)	(58)	(136)	(136)		
Transfer	4	(4)	• -		(4)			
Exchange differences and others	#	(1)	#	(1)	(2)	(2)		
Balance at 31 December	62	671	1,716	1,186	3,573	3,635		
Less: Accumulated depreciation								
Balance at 1 January	25	248	731	709	1,688	1,713		
Depreciation charge	1	12	212	151	375	376		
Disposals / Write-offs	-	(2)	(48)	(52)	(102)	(102)		
Transfer	2	(2)	-	-	(2)	-		
Exchange differences and others	#	(1)	#	(1)	(2)	(2)		
Balance at 31 December	28	255	895	807	1,957	1,985		
Less: Allowances for impairment	2	17	-	-	17	19		
Net book value at 31 December	32	399	821	379	1,599	1,631		
2018								
Cost								
Balance at 1 January	54	644	1,220	950	2,814	2,868		
Additions	-	13	350	170	533	533		
Acquisition of new business	_	38	-	-	38	38		
Disposals / Write-offs	(2)	(22)	(168)	(65)	(255)	(257)		
Transfer	6	(6)	-	-	(6)	(==: /		
Exchange differences and others	#	5	#	#	5	5		
Balance at 31 December	58	672	1,402	1,055	3,129	3,187		
Less: Accumulated depreciation								
Balance at 1 January	22	240	712	636	1,588	1,610		
Depreciation charge	1	16	180	134	330	331		
Disposals / Write-offs	(1)	(9)	(161)	(62)	(232)	(233)		
Transfer	3	(3)	-	-	(3)	-		
Exchange differences and others	#	4	#	1	5	5		
Balance at 31 December	25	248	731	709	1,688	1,713		
Less: Allowances for impairment	2	22	-	-	22	24		
Net book value at 31 December	31	402	671	346	1,419	1,450		

<sup>#</sup> Amount under \$500,000

<sup>(</sup>a) Refers to computer hardware, office equipment, furniture and fittings and other fixed assets

In \$ millions  2019 Cost Balance at 1 January Additions Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	nvestment properties (1) 41 - - 4	Owner- occupied properties (2) 153	Software (3)	Other fixed assets <sup>(a)</sup>	Subtotal of owner-occupied properties, software and other fixed assets	Total
Cost Balance at 1 January Additions Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	41 - -	153	(3)	(4)	(E)_(2) · (2) · (4)	
Cost Balance at 1 January Additions Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	-				(5)=(2)+(3)+(4)	(6)=(1)+(5)
Balance at 1 January Additions Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	-					
Additions Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	-		981	669	1,803	1,844
Disposals / Write-offs Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	- 4	,	320	107	434	434
Transfers Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	_ 	(1)	(73)	(21)	(95)	(95)
Impact of conversion of India branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge		(4)	(10)	(21)	(4)	(93)
branch to a wholly-owned subsidiary Exchange differences and others Balance at 31 December  Less: Accumulated depreciation Balance at 1 January Depreciation charge	7	(4)		-	(4)	_
Exchange differences and others  Balance at 31 December  Less: Accumulated depreciation  Balance at 1 January  Depreciation charge	-	-	(14)	(44)	(58)	(58)
Less: Accumulated depreciation Balance at 1 January Depreciation charge	-	-	#	(2)	(2)	(2)
Balance at 1 January Depreciation charge	45	155	1,214	709	2,078	2,123
Balance at 1 January Depreciation charge						
Depreciation charge						
	20	71	505	445	1,021	1,041
	1	7	149	94	250	251
Disposals / Write-offs	-	-	(46)	(17)	(63)	(63)
Transfers	2	(2)	-	-	(2)	-
Impact of conversion of India branch to a wholly-owned subsidiary	-	-	(13)	(33)	(46)	(46)
Exchange differences and others	-	-	#	(2)	(2)	(2)
Balance at 31 December	23	76	595	487	1,158	1,181
Net book value at 31 December	22	79	619	222	920	942
2018 Cost						
Balance at 1 January	43	148	926	616	1,690	1,733
Additions	-	5	220	99	324	324
Disposals / Write-offs	(2)	-	(164)	(44)	(208)	(210)
Transfers	-	-	-	-	-	-
Exchange differences and others	-	-	(1)	(2)	(3)	(3)
Balance at 31 December	41	153	981	669	1,803	1,844
Less: Accumulated depreciation						
Balance at 1 January	20	65	538	399	1,002	1,022
Depreciation charge	1	6	126	90	222	223
Disposals / Write-offs	(1)	-	(158)	(42)	(200)	(201)
Transfers	-	-	-	-	-	-
Exchange differences and others	-	-	(1)	(2)	(3)	(3)
Balance at 31 December	20	71				
Net book value at 31 December	20	/ 1	505	445	1,021	1,041

<sup>#</sup> Amount under \$500,000

Against the net book value of \$431 million for the Group and \$101 million for the Bank for all properties as at 31 December 2019 for the Group, the total market value was \$1,914 million (2018: \$2,111 million) for the Group and \$445 million (2018: \$426 million) for the Bank, of which investment properties accounted for \$164 million (2018: \$163 million) for the Group and \$109 million (2018: \$96 million) for the Bank. The market values are determined using investment method, or using a combination of comparable sales and investment methods. The properties are classified under Level 3 of the fair value hierarchy and the significant unobservable input used for valuation is market yields. As at 31 December 2019, there were no transfers into or out of Level 3.

<sup>(</sup>a) Refers to computer hardware, office equipment, furniture and fittings and other fixed assets

#### 25.2 Leased properties and other fixed assets

	The Group			Bank		
In \$ millions	Properties	Other fixed assets	Total	Properties	Other fixed assets	Total
2019						
Balance as at 1 January	1,680	110	1,790	923	81	1,004
Balance as at 31 December	1,489	105	1,594	805	69	874
Additions of right-of-use assets during the year	68	23	91	8	5	13
Depreciation charge for the year	204	29	233	95	16	111

The Group's and Bank's leases comprise primarily of office premises, branches and data centres. The leases have varying terms, escalation clauses and renewal rights.

#### 25.3 Investment properties

The Group leases out investment properties under operating leases. The leases typically run for an initial period of one to five years, and may contain an option to renew the lease after that date at which time all terms will be renegotiated. The minimum lease receivables as at the balance sheet date are as follows:

In \$ millions	The G	Bank		
	2019	2018	2019	2018
Minimum lease receivables				
Not later than 1 year	3	5	3	3
Later than 1 year but not later than 5 years	4	6	4	3
Total	7	11	7	6

# 26. Goodwill and Intangibles

The carrying amounts of the Group's and Bank's goodwill and intangibles arising from business acquisitions are as follows:

	The	Bank		
In \$ millions	2019	2018	2019	2018
DBS Bank (Hong Kong) Limited	4,631	4,631	-	-
Others	539	544	334	334
Total	5,170	5,175	334	334

The carrying amounts of the CGUs are reviewed at least once a year to determine if the goodwill associated with them should be impaired. If a CGU's carrying amount exceeds its recoverable value, a goodwill impairment charge is recognised in the income statement.

The recoverable value is determined based on a value-in-use calculation. The CGU's five-year projected free cash flows, after taking into account the maintenance of capital adequacy requirements at target levels, are discounted by its cost of capital to derive its present value. To derive the value beyond the fifth year, a long-term growth rate is imputed to the fifth-year cash flow and then discounted by the cost of capital to derive the terminal value. The long-term growth rate used does not exceed the historical long-term growth rate of the market the CGU operates in. The recoverable value is the sum of the present value of the five-year cash flows and the terminal value.

A growth rate of 4.5% (2018: 4.5%) and discount rate of 9.0% (2018: 9.0%) were assumed in the value-in-use calculation for DBS Bank (Hong Kong) Limited's franchise.

The process of evaluating goodwill impairment involves management judgement and prudent estimates of various factors including future cash flows as well as the cost of capital and long-term growth rates. The results can be highly sensitive to the assumptions used. Key assumptions used to determine the recoverable amounts of the CGU, including growth rate and discount rate, are tested for sensitivity by applying a reasonably possible change to those assumptions. The reasonably possible changes in key assumptions did not result in an impairment of goodwill at 31 December 2019.

#### 27. **Deposits and Balances from Customers**

	-	The Group		Bank
In \$ millions	2019	2018	2019	2018
Analysed by currency				
Singapore dollar	162,509	158,778	162,096	158,373
US dollar	140,769	138,153	104,372	103,128
Hong Kong dollar	37,078	37,054	5,617	5,156
Chinese yuan	13,257	13,073	840	744
Others	50,676	46,727	25,911	26,202
Total	404,289	393,785	298,836	293,603
Analysed by product				
Savings accounts	157,343	153,443	126,191	123,975
Current accounts	81,014	77,140	61,695	59,651
Fixed deposits	162,693	159,049	108,926	107,653
Other deposits	3,239	4,153	2,024	2,324
Total	404,289	393,785	298,836	293,603

#### 28. **Other Liabilities**

	The Group		Bank	
In \$ millions	2019	2018	2019	2018
Cash collateral received <sup>(a)</sup>	2,014	1,825	1,966	1,527
Accrued interest payable	773	793	501	538
Provision for loss in respect of off-balance sheet credit exposures	327	407	299	381
Payable in respect of securities business	351	356	-	-
Sundry creditors and others <sup>(b)</sup>	12,873	12,440	9,071	7,233
Lease liabilities (c)	1,738	-	989	-
Current tax liabilities	1,141	749	851	631
Short sale of securities	1,435	1,733	1,278	1,247
Deferred tax liabilities (Note 20)	191	74	158	42
Total	20,843	18,377	15,113	11,599

# **Other Debt Securities**

	The	Bank		
In \$ millions	2019	2018	2019	2018
Negotiable certificates of deposit (Note 29.1)	4,562	4,147	3,085	2,465
Senior medium term notes (Note 29.2)	7,337	7,436	7,337	7,436
Commercial papers (Note 29.3)	25,914	16,986	25,914	16,986
Covered bonds (Note 29.4)	5,206	5,268	5,206	5,268
Other debt securities (Note 29.5)	10,291	7,734	9,499	6,827
Total	53,310	41,571	51,041	38,982
Due within 1 year	40,073	30,170	38,234	28,668
Due after 1 year (a)	13,237	11,401	12,807	10,314
Total	53,310	41,571	51,041	38,982

<sup>(</sup>a) Includes instruments in perpetuity

 <sup>(</sup>a) Mainly relates to cash collateral received in respect of derivative portfolios
 (b) Includes income received in advance of \$1,173 million (2018: \$1,280million) and \$892 million (2018: \$973 million) for the Group and Bank respectively arising from a 15-year regional distribution agreement entered with Manulife Financial Asia Limited, to be amortised on a straight-line basis. \$107 million (2018: \$107 million) and \$81 million (2018: \$81 million) of the Manulife income received in advance was recognised as fee income during the year for the Group and Bank respectively

(c) Total lease payments made during the year amounted to \$249 million and \$125 million for the Group and Bank respectively

29.1 Negotiable certificates of deposit issued and outstanding are as follows:

In \$ millions		The Group		Bank	
Currency	Interest Rate and Interest Frequency	2019	2018	2019	2018
Issued by th	ne Bank and other subsidiaries				
AUD	0.9% to 2.31%, payable on maturity	3,085	2,465	3,085	2,465
CNY	3.1% to 4.51%, payable on maturity	377	514	-	-
HKD	3.86% to 3.95%, payable quarterly	156	159	-	-
HKD	3.8% to 3.83%, payable annually	38	38	-	-
HKD	2.07% to 2.36%, payable on maturity	228	363	-	-
HKD	Zero-coupon, payable on maturity	678	409	-	-
IDR	6.2%, payable on maturity	-	21	-	-
TWD	0.65% to 0.68 %, payable on maturity	-	178	-	-
Tota	I	4,562	4,147	3,085	2,465

The outstanding negotiable certificates of deposit as at 31 December 2019 were issued between 20 January 2010 and 31 December 2019 (2018: 20 January 2010 and 27 December 2018) and mature between 3 January 2020 and 16 March 2021 (2018: 2 January 2019 and 16 March 2021).

29.2 Senior medium term notes issued and outstanding are as follows:

In \$ millions		The Group and Ban		
Currency	Interest Rate and Interest Frequency	2019	2018	
Issued by the	Bank			
AUD	Floating rate note, payable quarterly	1,604	868	
GBP	Floating rate note, payable monthly	· -	572	
GBP	Floating rate note, payable quarterly	4,352	3,369	
HKD	1.43% payable annually	· -	102	
USD	3.12%, payable semi-annually	135	137	
USD	Floating rate note, payable quarterly	1,246	2,388	
Total		7,337	7,436	

The senior medium term notes were issued by the Bank under its USD 30 billion Global Medium Term Note Programme. The outstanding senior medium term notes as at 31 December 2019 were issued between 14 January 2015 and 23 December 2019 (2018: 9 October 2014 and 24 October 2018) and mature between 14 January 2020 and 13 September 2022 (2018: 20 February 2019 and 23 August 2021).

- **29.3** The commercial papers were issued by the Bank under its USD 5 billion Euro Commercial Paper Programme and USD 20 billion US Commercial Paper Programme. These are zero-coupon papers, or floating rate papers pegged to monthly or quarterly market rates. The outstanding notes as at 31 December 2019 were issued between 10 June 2019 and 23 December 2019 (2018: 28 June 2018 and 26 December 2018) and mature between 3 January 2020 and 20 August 2020 (2018: 2 January 2019 and 27 June 2019).
- **29.4** To augment its sources of wholesale funding, the Bank established a USD 10 billion Global Covered Bond Programme on 16 June 2015. A covered bond is a senior obligation of the Bank backed by a cover pool comprising assets that have been ring-fenced via contractual structures in a bankruptcy-remote structured entity, Bayfront Covered Bonds Pte Ltd. Bayfront Covered Bonds Pte Ltd has provided an unconditional and irrevocable guarantee, which is secured over the cover pool, to the covered bond holders.

The outstanding covered bonds as at 31 December 2019 were issued between 23 January 2017 and 25 October 2019 (2018: 3 June 2016 and 27 November 2018) and mature between 4 September 2020 and 21 November 2024 (2018: 3 June 2019 and 21 November 2024).

29.5 Other debt securities issued and outstanding as at 31 December are as follows:

In \$ millions	The G	Bank		
	2019	2018	2019	2018
Issued by the Bank and other subsidiaries				
Equity linked notes	1,945	1,844	1,932	1,827
Credit linked notes	3,101	1,249	3,101	1,249
Interest linked notes	4,255	3,365	4,255	3,365
Foreign exchange linked notes	211	386	211	386
Fixed rate bonds	779	890	-	-
Total	10,291	7,734	9,499	6,827

The outstanding securities (excluding perpetual securities) as at 31 December 2019 were issued between 23 July 2012 and 31 December 2019 (2018: 23 July 2012 and 31 December 2018) and mature between 2 January 2020 and 22 November 2049 (2018: 2 January 2019 and 1 June 2048).

		The Group an	nd Bank	
	Shar	es ('000)	In \$ m	illions
	2019	2018	2019	2018
Ordinary shares				
Balance at 1 January and 31 December	2,626,196	2,626,196	23,653	23,653
Non-cumulative preference shares				
S\$800m 4.70% Non-Cumulative, Non-Convertible, Non-Voting Preference Shares Callable in 2020 (Note 30.1)	8,000	8,000	799	799
Balance at 1 January and 31 December	8,000	8,000	799	799
Issued share capital at 31 December			24,452	24,452

**30.1** The preference shares were issued on 22 November 2010 with a liquidation preference of \$100 each. Dividends, if declared by the Board of Directors of the Bank, are payable semi-annually on 22 May and 22 November each year at 4.70% per annum. They are redeemable on 22 November 2020 or on any date thereafter. The preference shares are in the first instance ineligible as capital instruments under Basel III rules as they lack provisions for conversion to ordinary shares or write-off at the point of non-viability as determined by the Monetary Authority of Singapore, but are accorded partial eligibility as Additional Tier 1 capital (subject to a cap) for calculating capital adequacy ratios under the Basel III transitional arrangements for capital instruments issued prior to 1 January 2013.

# 31. Other Equity Instruments

The following perpetual capital securities issued by the Bank are classified as other equity instruments. These instruments are subordinated to all liabilities of the Bank and senior only to ordinary shareholders of the Bank. Their terms require them to be written-off if and when the Monetary Authority of Singapore notifies the Bank that a write-off of the instruments, or a public sector injection of capital (or equivalent support), is necessary, without which the Group or the DBSH Group (DBSH and its subsidiaries) would become non-viable. These instruments qualify as Additional Tier 1 capital under MAS Notice 637.

	Issue Distribu		Distribution	The Group and Bank		
In \$ millions	Note	Date	Payment	2019	2018	
Issued by the Bank S\$550m 3.85% Non-Cumulative, Non- Convertible Perpetual Capital Securities First Callable in 2021	31.1	1 Sep 2016	Sep	550	550	
US\$185m 4.0% Non-Cumulative, Non- Convertible Perpetual Capital Securities First Callable in 2021	31.2	1 Sep 2016	Sep	252	252	
US\$750m 3.60% Non-Cumulative, Non- Convertible Perpetual Capital Securities First Callable in 2021	31.3	7 Sep 2016	Mar/Sep	1,011	1,011	
S\$1,000m 3.98% Non-Cumulative, Non- Convertible Perpetual Capital Securities First Callable in 2025	31.4	12 Sep 2018	Mar/Sep	1,000	1,000	
Total				2,813	2,813	

- **31.1** Distributions are payable at 3.85% per annum up to 1 September 2021. Thereafter, the distribution rate resets every 5 years to the then-prevailing five-year Singapore Dollar Swap Offer Rate plus 2.13% per annum. Distributions are paid annually on 1 September each year, unless cancelled by the Bank. The capital securities are redeemable on 1 September 2021 or on any date thereafter.
- **31.2** Distributions are payable at 4.0% per annum up to 1 September 2021. Thereafter, the distribution rate resets every 5 years to the then-prevailing five-year U.S. Dollar Swap Rate plus 2.84% per annum. Distributions are paid annually on 1 September each year, unless cancelled by the Bank. The capital securities are redeemable on 1 September 2021 or on any date thereafter.
- **31.3** Distributions are payable at 3.60% per annum up to 7 September 2021. Thereafter, the distribution rate resets every 5 years to the then-prevailing five-year U.S. Dollar Swap Rate plus 2.39% per annum. Distributions are paid semi-annually on 7 March and 7 September each year, unless cancelled by the Bank. The capital securities are redeemable on 7 September 2021 or on any distribution payment date thereafter.
- **31.4** Distributions are payable at 3.98% per annum up to 12 September 2025. Thereafter, the distribution rate resets every 7 years to the then-prevailing seven-year Singapore Dollar Swap Offer Rate plus 1.65% per annum. Distributions are paid semi-annually on 12 March and 12 September each year, unless cancelled by the Bank. The capital securities are redeemable on 12 September 2025 or on any distribution payment date thereafter.

# 32. Other Reserves and Revenue Reserves

# 32.1 Other reserves

	The (	The Group		
In \$ millions	2019	2018	2019	2018
FVOCI revaluation reserves (bonds)	88	(176)	59	(151)
FVOCI revaluation reserves (equities)	(7)	(161)	(38)	(178)
Cash flow hedge reserves	100	(60)	76	(63)
General reserves	95	95	-	-
Capital reserves	(625)	(450)	(59)	(159)
Total	(349)	(752)	38	(551)

Movements in other reserves for the Group during the year are as follows:

				The Group		
In \$ millions	FVOCI revaluation reserves (bonds)	FVOCI revaluation reserves (equities)	Cash flow hedge reserves	General reserves	Capital reserves <sup>(a)</sup>	Total
2019						
Balance at 1 January	(176)	(161)	(60)	95	(450)	(752)
Net exchange translation adjustments	-	-	-	-	(175)	(175)
Share of associates' reserves	-	7	(6)	-	-	1
FVOCI financial assets and others:						
- net valuation taken to equity	451	142	424	-	-	1,017
- transferred to income statement	(161)	-	(233)	-	-	(394)
- taxation relating to components of other comprehensive income	(26)	(7)	(25)	-	-	(58)
Transfer to revenue reserves upon disposal of FVOCI equities	-	12	-	-	-	12
Balance at 31 December	88	(7)	100	95	(625)	(349)
2018						
Balance at 1 January	31	7	36	95	(356)	(187)
Impact of adopting SFRS(I) 9 on 1 January	(49)	(37)	-	-	-	(86)
Balance at 1 January after adoption of SFRS(I) 9	(18)	(30)	36	95	(356)	(273)
Net exchange translation adjustments	-	-	-	-	(94)	(94)
Share of associates' reserves	-	-	3	-	-	3
FVOCI financial assets and others:						
- net valuation taken to equity	(161)	(164)	30	-	-	(295)
- transferred to income statement	(5)	-	(141)	-	-	(146)
- taxation relating to components of other comprehensive income	8	8	12	-	-	28
Transfer to revenue reserves upon disposal of FVOCI equities	-	25	-	<u>-</u>	-	25
Balance at 31 December	(176)	(161)	(60)	95	(450)	(752)

<sup>(</sup>a) Capital reserves include net exchange translation adjustments arising from translation differences on net investments in foreign subsidiaries, associates and branches, and the related foreign currency financial instruments designated as a hedge

Movements in other reserves for the Bank during the year are as follows:

	Bank						
In \$ millions	FVOCI revaluation reserves (bonds)	FVOCI revaluation reserves (equities)	Cash flow hedge reserves	Capital reserves <sup>(a)</sup>	Total		
2019							
Balance at 1 January	(151)	(178)	(63)	(159)	(551)		
Impact of conversion of India branch to a wholly-owned subsidiary	-	6	-	190	196		
Net exchange translation adjustments	-	-	-	(90)	(90)		
FVOCI financial assets and others:							
- net valuation taken to equity	360	127	345	-	832		
- transferred to income statement	(135)	-	(186)	-	(321)		
<ul> <li>taxation relating to components of other comprehensive income</li> </ul>	(15)	(7)	(20)	-	(42)		
Transfer to revenue reserves upon disposal of FVOCI equities	-	14	-	-	14		
Balance at 31 December	59	(38)	76	(59)	38		
2018	50		00	(50)	4-7		
Balance at 1 January	56	4	39	(52)	47		
Impact of adopting SFRS(I) 9 on 1 January	(54)	(49)	=	=	(103)		
Balance at 1 January after adoption of SFRS(I) 9	2	(45)	39	(52)	(56)		
Net exchange translation adjustments	-	-	-	(107)	(107)		
FVOCI financial assets and others:							
- net valuation taken to equity	(154)	(167)	32	-	(289)		
- transferred to income statement	(6)	-	(143)	=	(149)		
<ul> <li>taxation relating to components of other comprehensive income</li> </ul>	7	11	9	-	27		
Transfer to revenue reserves upon disposal of FVOCI equities	-	23	-	-	23		
Balance at 31 December	(151)	(178)	(63)	(159)	(551)		

<sup>(</sup>a) Capital reserves include net exchange translation adjustments arising from translation differences on net investments in foreign branches and the related foreign currency instruments designated as a hedge

# 32.2 Revenue reserves

	The Group		Bank	
In \$ millions	2019	2018	2019	2018
Balance at 1 January	23,417	22,040	18,049	17,033
Impact of adopting SFRS(I) 16 on 1 January 2019	(95)	-	(91)	-
Impact of adopting SFRS(I) 9 on 1 January 2018	-	95	-	83
Balance at 1 January after adoption SFRS(I) 9 and SFRS(I) 16	23,322	22,135	17,958	17,116
Impact of conversion of India branch to a wholly-owned subsidiary	-	-	(188)	-
Net profit attributable to shareholders	6,471	5,656	6,215	5,307
Other comprehensive income attributable to shareholders	(75)	86	(77)	86
Sub-total Sub-total	29,718	27,877	23,908	22,509
Less: Dividends paid to holding company	4,445	4,422	4,445	4,422
Dividends paid on preference shares	38	38	38	38
Balance at 31 December <sup>(a)</sup>	25,235	23,417	19,425	18,049

Singapore banks are required to maintain a Minimum Regulatory Loss Allowance (MRLA) of at least 1% of the gross carrying amount of selected credit exposures net of collaterals per MAS Notice 612. For periods where Stage 1 and 2 ECL fall below MRLA, the shortfall is appropriated from retained earnings in the shareholders' funds into a non-distributable Regulatory Loss Allowance Reserve (RLAR) account. The RLAR for Group and Bank were \$404 million (2018: \$376 million) and \$491 million (2018: \$367 million) respectively.

# 33. Non-controlling Interests

The following instruments issued by subsidiaries of the Group are classified as non-controlling interests. These instruments have a deeply subordinated claim on the issuing entity's assets in the event of a liquidation.

In \$ millions				The C	Group
	Issue Date	Liquidation Preference	Distribution Payment	2019	2018
Issued by Heedum Pte Ltd	12 Nov		Nov	344	344
S\$344m 1.6% Perpetual Subordinated Loan	2015				
Issued by DBS Bank (Taiwan) Ltd	20 Jan			359	355
TW\$8,000m 4% Non-Cumulative and Perpetual Preferred Shares	2015				
Issued by DBS Bank (Hong Kong)	13 Oct	HK\$ 10,000,000	Mar	242	244
Limited	2016				
HK\$1,400m 3.9% Non-Cumulative Preference Shares					
Non-controlling interests in subsidiaries				15	27
Total				960	970

# 34. Contingent Liabilities and Commitments

The Group issues guarantees, performance bonds and indemnities in the ordinary course of business. The majority of these facilities are offset by corresponding obligations of third parties.

**Guarantees and performance bonds** are generally written by the Group to support the performance of a customer to third parties. As the Group will only be required to meet these obligations in the event of the customer's default, the cash requirements of these instruments are expected to be considerably below their nominal amount.

**Endorsements** are residual liabilities of the Group in respect of bills of exchange, which have been paid and subsequently rediscounted.

	The	Group	Bank		
In \$ millions	2019	2018	2019	2018	
Guarantees on account of customers	17,280	14,990	17,962	15,826	
Endorsements and other obligations on account of customers	10,987	9,613	8,640	8,940	
Undrawn credit commitments <sup>(a)</sup>	297,818	272,486	244,351	224,476	
Undisbursed and underwriting commitments in securities	83	7	7	7	
Sub-total	326,168	297,096	270,960	249,249	
Operating lease commitments (Note 34.1)		672		386	
Capital commitments	37	81	26	59	
Total	326,205	297,849	270,986	249,694	
Analysed by industry (excluding operating lease and capital commitments)					
Manufacturing	49,677	42,516	37,849	33,125	
Building and construction	27,877	24,483	25,625	22,829	
Housing loans	5,674	5,740	5,383	5,483	
General commerce	57,209	55,308	45,856	43,890	
Transportation, storage and communications	16,669	14,454	13,552	12,173	
Financial institutions, investment and holding companies	27,003	28,654	24,423	27,011	
Professionals and private individuals (excluding housing loans)	108,319	99,999	87,463	80,455	
Others	33,740	25,942	30,809	24,283	
Total	326,168	297,096	270,960	249,249	
Analysed by geography <sup>(b)</sup> (excluding operating lease and capital commitments					
Singapore	135,551	123,899	135,479	123,722	
Hong Kong	52,326	49,289	24,976	23,227	
Rest of Greater China	35,295	31,715	15,116	13,784	
South and Southeast Asia	30,954	28,138	25,981	25,943	
Rest of the World	72,042	64,055	69,408	62,573	
Total	326,168	297,096	270,960	249,249	

<sup>(</sup>a) Include commitments that are unconditionally cancellable at any time by the Group (2019: \$248,258 million; 2018: \$230,291 million) and Bank (2019: \$196,915 million; 2018: \$184,597 million)

**34.1** The Group has existing significant operating lease commitments including the leasing of office premises. These include lease commitments for which the payments will be determined in the future based on the prevailing market rates in accordance with the lease agreements, of which the related amounts have not been included. The leases have varying terms, escalation clauses and renewal rights.

From 1 January 2019, the Group has recognised right-of-use assets for these leases, except for short- term and low-value leases, see Note 2.3 and Note 25 for further information.

The following reconciliation to the opening balance for the lease liabilities as at 1 January 2019 is based upon the operating lease obligations as at 31 December 2018:

In the millions	The Group	Bank
In \$ millions Operating lease commitments disclosed as at 31 December 2018	672	386
Discounted using incremental borrowing rates as at 1 January 2019 Add:	647	379
Adjustments as a result of different treatment of renewal options	978	575
Adjustments due to inclusion of variable lease payments	323	183
Less:		
Short-term leases recognised directly as expense	(24)	(13)
Lease liabilities recognised as at 1 January 2019	1,924	1,124

<sup>(</sup>b) Based on the location of incorporation of the counterparty or borrower

#### 35. Financial Derivatives

Financial derivatives are financial instruments whose characteristics are derived from the underlying assets, or from interest and exchange rates or indices. These include forwards, swaps, futures and options. The following sections outline the nature and terms of the most common types of derivatives used by the Group.

#### Interest rate derivatives

Forward rate agreements give the buyer the ability to determine the underlying rate of interest for a specified period commencing on a specified future date (the settlement date). There is no exchange of principal and settlement is effected on the settlement date. The settlement amount is the difference between the contracted rate and the market rate prevailing on the settlement date.

Interest rate swaps involve the exchange of interest obligations with a counterparty for a specified period without exchanging the underlying (or notional) principal.

Interest rate futures are exchange-traded agreements to buy or sell a standard amount of a specified fixed income security or time deposit at an agreed interest rate on a standard future date.

Interest rate options give the buyer on payment of a premium the right, but not the obligation, to fix the rate of interest on a future deposit or loan, for a specified period and commencing on a specified future date.

Interest rate caps and floors give the buyer the ability to fix the maximum or minimum rate of interest. There is no facility to deposit or draw down funds, instead the writer pays to the buyer the amount by which the market rate exceeds or is less than the cap rate or the floor rate respectively. This category includes combinations of interest rate caps and floors, which are known as interest rate collars.

# Foreign exchange derivatives

**Forward foreign exchange** contracts are agreements to buy or sell fixed amounts of currency at agreed rates of exchange on a specified future date.

**Cross currency swaps** are agreements to exchange, and on termination of the swap, re-exchange principal amounts denominated in different currencies. Cross currency swaps may involve the exchange of interest payments in one specified currency for interest payments in another specified currency for a specified period.

**Currency options** give the buyer, on payment of a premium, the right but not the obligation, to buy or sell specified amounts of currency at agreed rates of exchange on or before a specified future date.

#### **Equity derivatives**

**Equity options** give the buyer, on payment of a premium, the right but not the obligation, either to purchase or sell a specified stock or stock index at a specified price or level on or before a specified date.

**Equity swaps** involve the exchange of a set of payments whereby one of these payments is based on an equity-linked return while the other is typically based on an interest reference rate.

#### Credit derivatives

**Credit default swaps** involve the transfer of credit risk of a reference asset from the protection buyer to the protection seller. The protection buyer makes one or more payments to the seller in exchange for an undertaking by the seller to make a payment to the buyer upon the occurrence of a predefined credit event.

### **Commodity derivatives**

**Commodity contracts** are agreements between two parties to exchange cash flows which are dependent on the price of the underlying physical assets.

**Commodity futures** are exchange-traded agreements to buy or sell a standard amount of a commodity at an agreed price on a standard future date.

**Commodity options** give the buyer, on payment of a premium, the right but not the obligation, to buy or sell a specific amount of commodity at an agreed contract price on or before a specified date.

#### 35.1 Trading derivatives

Most of the Group's derivatives relate to sales and trading activities. Sales activities include the structuring and marketing of derivatives to customers to enable them to take, transfer, modify or reduce current or expected risks. Trading activities are entered into principally for dealer's margin or for the purpose of generating a profit from short-term fluctuations in price.

Trading includes mainly market-making and warehousing to facilitate customer orders. Market-making involves quoting bid and offer prices to other market participants with the intention of generating revenues based on spread and volume. Warehousing involves holding on to positions in order to liquidate in an orderly fashion with timing of unwinding determined by market conditions and traders' views of markets as they evolve.

# 35.2 Hedging derivatives

The accounting treatment of the hedge derivative transactions varies according to the nature of the hedge and whether the hedge meets the specified criteria to qualify for hedge accounting. Derivatives transacted as economic hedges but do not qualify for hedge accounting are treated in the same way as derivative instruments held for trading purposes.

Please refer to Note 36 for more details on derivatives used for hedging.

The following table summarises the contractual or underlying principal amounts of derivative financial instruments held or issued for trading and hedging purposes outstanding at balance sheet date. They do not represent amounts at risk.

In the financial statements, trading derivative financial instruments are revalued on a gross position basis and the unrealised gains or losses are reflected as derivative assets or derivative liabilities. Derivative assets and liabilities arising from different transactions are only offset if the transactions are done with the same counterparty, a legal right of offset exists, and the parties intend to settle the cash flows on a net basis. There were no offset of derivative assets and liabilities in 2019 and 2018.

	The Group						
		2019			2018		
	Underlying			Underlying			
In \$ millions	notional	Assets	Liabilities	notional	Assets	Liabilities	
Derivatives held for trading							
Interest rate derivatives							
Forward rate agreements	16,414	3	6	4,370	-		
Interest rate swaps	1,159,079	8,478	8,167	1,077,522	6,599	7,116	
Interest rate futures	6,529	3	65	19,257	9	57	
Interest rate options	11,630	116	144	9,115	103	73	
Interest rate caps/floors	38,481	448	935	31,079	500	867	
Sub-total	1,232,133	9,048	9,317	1,141,343	7,211	8,114	
Foreign exchange (FX) derivatives							
FX contracts	586,308	3,709	3,720	574,744	3,953	3,820	
Currency swaps	211,174	3,271	2,949	196,987	4,063	3,115	
Currency options	85,882	315	425	81,572	473	562	
Sub-total	883,364	7,295	7,094	853,303	8,489	7,497	
Equity derivatives							
Equity options	5,139	73	136	7,342	231	385	
Equity swaps	4,162	105	121	4,319	597	38	
Sub-total	9,301	178	257	11,661	828	423	
Credit derivatives							
Credit default swaps and others	27,953	293	239	27,302	197	81	
Sub-total	27,953	293	239	27,302	197	81	
Commodity derivatives	·						
Commodity contracts	792	10	16	572	29	43	
Commodity futures	1,521	30	43	1,532	36	29	
Commodity options	662	8	9	570	5	6	
Sub-total	2,975	48	68	2,674	70	78	
Total derivatives held for trading	2,155,726	16,862	16,975	2,036,283	16,795	16,193	
Derivatives held for hedging							
Interest rate swaps held for fair value hedge	14,403	112	264	11,623	123	52	
Interest rate swaps held for cash flow hedge	2,486	#	76	2,899	123	33	
FX contracts held for fair value hedge	2,400	-	-	36		2	
FX contracts held for cash flow hedge	2,383	5	23	2,932	1	42	
FX contracts held for hedge of net investment	269	3	-	372	1	2	
Currency swaps held for fair value hedge	479	20	-	410	18	#	
Currency swaps held for cash flow hedge	14,617	248	295	13,880	103	417	
Total derivatives held for hedging	34,637	388	658	32,152	247	548	
Total derivatives	2,190,363	17,250	17,633	2,068,435	17,042	16,741	
Impact of netting arrangements recognised	_,,	,==0	,	_,,	,		
for computation of Capital Adequacy Ratio							
(CAR)(unaudited)		(10,826)	(10,826)		(8,837)	(8,837	
		6,424	6,807		8,205	7,904	
Of which: derivatives with holding company	5,524	15	121	5,057	13	54	
# Amount under \$500,000	-,			-,	• •		

# Amount under \$500,000

	Bank 2019 2018							
	Underlying	2019		Underlying	2010			
In \$ millions	notional	Assets	Liabilities	notional	Assets	Liabilities		
Derivatives held for trading								
Interest rate derivatives								
Forward rate agreements	16,414	3	6	4,370	-	1		
Interest rate swaps	926,133	7,450	7,076	914,804	5,465	5,960		
Interest rate futures	6,516	3	65	19,189	9	57		
Interest rate options	11,630	116	144	9,115	103	73		
Interest rate caps/floors	38,481	448	935	31,079	500	867		
Sub-total	999,174	8,020	8,226	978,557	6,077	6,958		
Foreign exchange (FX) derivatives								
FX contracts	503,078	3,019	3,035	516,228	3,133	3,142		
Currency swaps	203,194	3,115	2,764	194,557	4,008	3,056		
Currency options	62,740	209	252	64,314	361	441		
Sub-total	769,012	6,343	6,051	775,099	7,502	6,639		
Equity derivatives								
Equity options	5,080	72	135	7,257	229	382		
Equity swaps	4,162	105	121	4,322	598	38		
Sub-total	9,242	177	256	11,579	827	420		
Credit derivatives	·							
Credit default swaps and others	27,876	293	237	27,302	197	81		
Sub-total	27,876	293	237	27,302	197	81		
Commodity derivatives	· ·			·				
Commodity contracts	796	10	16	575	29	43		
Commodity futures	1,521	30	43	1,532	36	29		
Commodity options	662	8	9	566	5	6		
Sub-total	2,979	48	68	2,673	70	78		
Total derivatives held for trading	1,808,283	14,881	14,838	1,795,210	14,673	14,176		
Derivatives held for hedging								
Interest rate swaps held for fair value hedge	12,352	102	241	11,089	117	52		
Interest rate swaps held for cash flow hedge	2,486	#	76	2,899	1	33		
FX contracts held for fair value hedge	269	3	-	313	#	3		
FX contracts held for cash flow hedge	1,196	3	10	1,860	1	42		
Currency swaps held for fair value hedge	479	20	-	410	18	#		
Currency swaps held for cash flow hedge	13,467	246	290	12,888	102	400		
Total derivatives held for hedging	30,249	374	617	29,459	239	530		
Total derivatives	1,838,532	15,255	15,455	1,824,669	14,912	14,706		
Impact of netting arrangements recognised								
for computation of Capital Adequacy Ratio								
(CAR)(unaudited)		(10,984)	(10,984)		(8,994)	(8,994)		
		4,271	4,471		5,918	5,712		
Of which: derivatives with subsidiaries and	75,958	599	487					
holding company # Amount under \$500,000	,			64,191	592	266		

# Amount under \$500,000

The derivative financial instruments are mainly booked in Singapore. The Group manages its credit exposures by entering into master netting and collateral agreements with most of these counterparties. For those arrangements that comply with the regulatory requirements as set out in MAS Notice 637, the Group recognises the netting arrangements in the computation of its Capital Adequacy Ratios.

# 36. Hedge Accounting

The Group enters into hedging transactions to manage exposures to interest rate and foreign currency risks. Hedge accounting is applied to minimise volatility in earnings arising from changes in interest rate and foreign exchange rates.

Please refer to Note 42 for more information on market risk and the Group's risk management practices and Note 2.19 for the Group's accounting policy for hedge accounting.

#### 36.1 Fair value hedges

In accordance with the risk management strategy in place, the Group enters into interest rate swaps to mitigate the risk of changes in interest rates on the fair value of the following:

- issued fixed rate debt;
- a portion of purchased fixed rate bonds; and
- some large exposures to corporate loans.

In such instances, the Group hedges the benchmark interest rate risk component which is an observable and reliably measurable component of interest rate risk. Specifically, the Group has designated fair value hedge relationships, on a hedge-by-hedge basis, to hedge against movements in the benchmark interest rate. This effectively results in the recognition of interest expense (for fixed rate liabilities), or interest income (for fixed rate assets) at floating rates. The Group also uses cross currency swaps when there is a need to hedge both interest rate and foreign exchange risks.

The Group manages all other risks arising from these exposures, such as credit risk, but hedge accounting is not applied for those risks.

The Group assesses prospective hedge effectiveness by comparing the changes in fair value of the hedged item resulting from movements in the benchmark interest rate with the changes in fair value of the interest rate swaps used to hedge the exposure. The Group determines the hedge ratio by comparing the notional of the derivative with the principal of the debt issued or the bond asset purchased, or the loan granted.

For all interest rate swaps used for hedging purposes, critical terms match or nearly match those of the underlying hedged items.

The Group has identified the following possible sources of ineffectiveness:

- the use of derivatives as a protection against interest rate risk creates an exposure to the derivative counterparty's
  credit risk which is not offset by the hedged item. This risk is minimised by entering into derivatives with high credit
  quality counterparties;
- the use of different discounting curves when measuring the fair value of the hedged items and hedging
  instruments. For derivatives the discounting curve used depends on collateralisation and the type of collateral
  used; and
- difference in the timing of settlement of hedging instruments and hedged items.

No other significant sources of ineffectiveness were identified in these hedge relationships.

The Group typically uses foreign currency denominated borrowings/deposits to fund its investments in non-SGD denominated FVOCI equity instruments. To reduce the accounting mismatch on the borrowings/deposits and FVOCI equity instruments because of foreign exchange rate movements, the Group designates the borrowings/deposits as the hedging instruments in fair value hedges of the FVOCI equity instruments. The hedge ratio is determined by comparing the principal of the borrowings/deposits with the investment costs of the FVOCI equity instruments. A potential source of ineffectiveness is a decrease in the fair value of the equity instruments below their investment costs.

The following table sets out the maturity profile of the hedging instruments used in fair value hedges. The amounts shown in the table reflect the notional amounts of derivatives and the carrying amounts of borrowings and deposits. Please refer to Note 35 for the carrying values of the derivatives.

		The Group					
	Type of risk hedged	Less than	1 to 5	More than	Total		
In \$ millions		1 year	years	5 years			
2019							
Derivatives (notional)							
Interest rate swaps	Interest rate	3,510	9,901	992	14,403		
Currency swaps	Interest rate & Foreign exchange	-	407	72	479		
FX Contracts	Foreign exchange	-	-	-	-		
Total derivatives		3,510	10,308	1,064	14,882		
Non-derivative instruments							
(e.g. borrowings, deposits)	Foreign exchange	991	-	-	991		
Total non-derivative							
instruments		991	-	-	991		
2018							
Derivatives (notional)							
Interest rate swaps	Interest rate	1,326	10,076	221	11,623		
Currency swaps	Interest rate & Foreign exchange	125	213	72	410		
FX Contracts	Foreign exchange	36	210	-	36		
Total derivatives	1 oroigh exchange	1,487	10,289	293	12,069		
Non-derivative instruments							
(e.g. borrowings, deposits)	Foreign exchange	1,005	-	-	1,005		
Total non-derivative instruments		1,005		_	1,005		

		Bank					
	Type of risk hedged	Less than	1 to 5	More than	Total		
In \$ millions		1 year	years	5 years			
2019							
Derivatives (notional)							
Interest rate swaps	Interest rate	3,075	8,802	475	12,352		
Currency swaps	Interest rate & Foreign exchange	-	407	72	479		
FX Contracts	Foreign exchange	269	-	-	269		
Total derivatives		3,344	9,209	547	13,100		
Non-derivative instruments							
(e.g. borrowings, deposits)	Foreign exchange	991	_	_	991		
Total non-derivative	1 oroigh exertainge						
instruments		991	_	_	991		
2018							
Derivatives (notional)							
Interest rate swaps	Interest rate	1,072	9,812	205	11,089		
Currency swaps	Interest rate & Foreign exchange	125	213	72	410		
FX Contracts	Foreign exchange	313		-	313		
Total derivatives	· cronger cronsunge	1,510	10,025	277	11,812		
Non-derivative instruments							
(e.g. borrowings, deposits)	Foreign exchange	1,005	_	-	1,005		
Total non-derivative	1 Orongin oxonlarigo	1,000			1,000		
instruments		1,005	_	_	1,005		

The table below provides information on hedged items relating to fair value hedges.

	•	The Group	E	Bank
In \$ millions	Carrying amounts (including hedge adjustments)	Fair value hedge adjustments included in carrying amounts	Carrying amounts (including hedge adjustments)	Fair value hedge adjustments included in carrying amounts
2019				
Assets				
Loans and advances to Customers	1,220	5	1,186	5
Government securities and treasury Bills <sup>(a)</sup>	1,692	3	29	-
Bank and corporate securities <sup>(a)</sup>	7,562	5	7,522	5
Subsidiaries	-	-	269	(4)
Liabilities				
Other debt securities	4,144	86	3,757	85
Deposits from customers	1,613	3	1,613	3
2018				
Assets				
Loans and advances to Customers	897	4	897	4
Government securities and treasury Bills <sup>(a)</sup>	1,142	-	1,098	-
Bank and corporate securities <sup>(a)</sup>	6,649	(43)	6,555	(42)
Subsidiaries	-	· · · -	277	4
Liabilities				
Other debt securities	4,291	38	3,895	35

<sup>(</sup>a) The carrying amounts of debt and equity instruments at fair value through other comprehensive income do not include fair value hedge adjustments as the hedged assets are measured at fair value. The accounting for the hedge relationship results in a transfer from other comprehensive income to the income statement

At the Group, for the year ended 31 December 2019, the net losses on hedging instruments used to calculate hedge effectiveness was \$172 million (2018: net gains of \$116 million). The net gains on hedged items attributable to the hedged risk amounted to \$166 million (2018: net losses of \$116 million).

At the Bank, for the year ended 31 December 2019, the net losses on hedging instruments used to calculate hedge effectiveness was \$151 million (2018: net gains of \$111 million). The net gains on hedged items attributable to the hedged risk amounted to \$146 million (2018: net losses of \$111 million).

#### 36.2 Cash flow hedges

The Group is predominantly exposed to variability in future cash flows due to interest rate movements and foreign currency fluctuations against SGD from the following:

- SGD assets subject to repricing, reinvestment or refinancing risk;
- forecasted interest earnings denominated in foreign currency;
- · issued floating or fixed rate foreign currency debt; and
- a portion of purchased floating or fixed rate foreign currency bonds.

In accordance with the Group risk management strategy the Group enters into interest rate swaps, forward contracts or cross currency swaps to protect against the variability of cash flows due to changes in interest rates and/or foreign currency exchange rates.

In such instances, cash flow hedge relationships are designated. These are applied on a hedge-by-hedge basis, except for cash flows from SGD assets subject to repricing, reinvestment or refinancing risk, for which a portfolio cash flow hedge relationship is designated using interest rate swaps. A dynamic process is applied for this hedge as the portfolio composition can change e.g. due to maturities and new originations. The portfolio cash flow hedge relationships effectively extend the duration of the assets, such that the interest cash flows are transformed from a floating rate basis to a fixed rate basis.

The Group enters into forward contracts to hedge against variability in future cash flows arising from USD-denominated interest income.

The Group also enters into cross currency swaps to mitigate 100% of the risk of fluctuation of coupon and principal cash flows due to changes in foreign currency rates of issued foreign currency debt and a portion of purchased foreign currency bonds. Critical terms of the cross-currency swaps match that of the issued foreign currency debt or purchased foreign currency bonds. In this way the Group exchanges foreign currency interest and principal cash flows, to SGD cash flows.

The Group manages all other risks derived by these exposures, such as credit risk, but they do not apply hedge accounting for these risks.

The Group assesses hedge effectiveness by comparing the changes in fair value of a hypothetical derivative reflecting the terms of the hedged item due to movements in the hedged risk with the changes in fair value of the derivatives used to hedge the exposure.

The Group determines the hedge ratio by comparing the notional of the derivatives with the SGD assets subject to repricing/reinvestment/ refinancing risk or amount of forecast earnings denominated in foreign currency or the principal of the debt securities issued or purchased foreign currency bonds.

The Group has identified the following possible sources of ineffectiveness in its cash flow hedge relationships:

- the use of derivatives as a protection against currency and interest rate risk creates an exposure to the derivative
  counterparty's credit risk which is not offset by the hedged item. This risk is minimised by entering into derivatives
  with high credit quality counterparties;
- difference in tenor of hedged items and hedging instruments;
- · difference in timing of settlement of the hedging instrument and hedged item; and
- designation of off-market hedging instruments.

The following table sets out the maturity profile of the hedging instruments used in cash flow hedges. The amounts shown in the table reflect the notional amounts of derivatives and the carrying amounts of loans and deposits. Please refer to Note 35 for the carrying values of the derivatives.

			The	Group	
In \$ millions	Type of risk hedged	Less than 1 year	1 to 5 years	More than 5 years	Total
2019					
Derivatives (notional)					
Interest rate swaps	Interest rate	300	2,186	-	2,486
Currency swaps	Interest rate & Foreign exchange	1,212	12,366	1,039	14,617
FX contracts	Foreign exchange	1,885	498	-	2,383
Total		3,397	15,050	1,039	19,486
2018 Derivatives (notional)					
Interest rate swaps	Interest rate	450	2,449	-	2,899
Currency swaps	Interest rate & Foreign exchange	1,465	11,423	992	13,880
FX contracts	Foreign exchange	2,932	-	=	2,932
Total		4,847	13,872	992	19,711

			Ban	ık	
In \$ millions	Type of risk hedged	Less than 1 year	1 to 5 years	More than 5 years	Total
2019					
Derivatives (notional)					
Interest rate swaps	Interest rate	300	2,186	-	2,486
Currency swaps	Interest rate & Foreign exchange	1,212	12,255	-	13,467
FX contracts	Foreign exchange	698	498	-	1,196
Total		2,210	14,939	-	17,149
2018 Derivatives (notional)					
Interest rate swaps	Interest rate	450	2,449	-	2,899
Currency swaps	Interest rate & Foreign exchange	1,465	11,423	-	12,888
FX contracts	Foreign exchange	1,860	=	-	1,860
Total		3,775	13,872	-	17,647

The hedge ineffectiveness arising from these hedges was insignificant.

Please refer to Note 32 for information on the cash flow hedge reserves.

#### 36.3 Net investment hedges

The Group could manage currency risk arising from its net investment in foreign operations (or structural foreign exchange risk) using foreign currency borrowings, FX forwards and FX swaps.

Structural foreign exchange exposures are managed with the primary aim of ensuring that consolidated capital ratios are largely protected from the effect of fluctuations in foreign exchange rates against SGD.

Under the Group's hedging strategy, the cost of these investments could be fully hedged, partially hedged or not hedged at all. The Group regularly reviews its hedging strategy, taking into account the long-term outlook of currency fundamentals and the impact of fluctuations in foreign exchange rates on capital adequacy ratios.

The tables below analyses the currency exposure of the Group by functional currency.

In the millions	Net investments in foreign	Financial instruments which	Remaining unhedged
In \$ millions 2019	operations <sup>(a)</sup>	hedge the net investments	currency exposures
Hong Kong dollar	11,519	-	11,519
Chinese yuan	2,564	269	2,295
Taiwan dollar	1,519	-	1,519
Others	4,517	-	4,517
Total	20,119	269	19,850
2018			
Hong Kong dollar	11,955	82	11,873
Chinese yuan	2,483	277	2,206
Taiwan dollar	1,350	-	1,350
Others	4,389	13	4,376
Total	20,177	372	19,805

<sup>(</sup>a) Refers to net tangible assets of subsidiaries, associates and overseas branches

Please refer to Note 32 for information on the capital reserves. Capital reserves include the effect of translation differences on net investments in foreign subsidiaries, associates and branches, and the related foreign currency financial instruments designated for hedge accounting.

# 37. Share-based Compensation Plans

As part of the Group's remuneration policy, the Group provides various share-based compensation plans to foster a culture that aligns employees' interests with shareholders', enable employees to share in the Bank's performance and enhance talent retention.

# Main Scheme/Plan Note DBSH Share Plan (Share Plan)

37 1

- The Share Plan is granted to Group executives as determined by the Committee appointed to administer the Share Plan from time to time.
- Participants are awarded shares of DBSH or, at the Committee's discretion, their equivalent cash value or a combination.
- Awards consist of main award and retention award (20%/15% of main award) for employees on bonus/sales incentive plans respectively. Dividends on unvested shares do not accrue to employees.
- For employees on bonus plan, the main award vests from 2 to 4 years after grant i.e. 33% will vest 2 years after grant; another 33% will vest on the third year and the remaining 34% plus the retention award will vest 4 years after grant.
- For employees on sales incentive plan, the main award vests from 1 to 3 years after grant i.e. 33% will vest 1
  years after grant; another 33% will vest on the second year and the remaining 34% plus the retention award will
  vest 3 years after grant.
- There are no additional retention awards for shares granted to top performers and key employees as part of talent retention.
- The awards will lapse immediately upon termination of employment, except in the event of ill health, injury, disability, redundancy, retirement or death.
- The market price of shares on the grant date is used to estimate the fair value of the shares awarded.
- Vested and unvested shares are subject to clawback/malus. Conditions that trigger such clawback/malus are in the Corporate Governance section of DBSH's Annual Report.
- Shares are awarded to non-executive directors as part of director's remuneration. Details of these awards are disclosed in the Remuneration Report section of DBSH's Annual Report.

#### **DBSH Employee Share Plan (ESP)**

37.1

• The Committee has ceased granting shares under the ESP effective from financial year 2018 remuneration. Shares granted from prior years continue to be outstanding until the shares are fully vested.

### **DBSH Employee Share Purchase Plan (ESPP)**

37.2

- . The ESPP was implemented in 2019 in selective markets across the Group. All confirmed permanent employees who hold the rank of Vice President and below with at least 3 months of service are eligible to participate in the
- . The ESPP is a savings-based share ownership plan to help eligible employees own DBSH shares through monthly contributions via deductions from payroll or designated bank accounts.
- Participants contribute up to 10% of month salary (minimum S\$50, capped at S\$1,000) and the Group will match 25% of the participant's contributions to buy DBSH ordinary shares for a period of 12 months during each plan
- The matching shares bought from the Group's contribution will vest 24 months after the last contribution month
- The matching shares will lapse immediately upon termination of employment, except in the event of ill health, injury, disability, redundancy, retirement or death.

#### **DBSH Share Ownership Scheme**

• The Scheme was wound down in 2019, where all assets have been distributed to unit holders.

37.3

#### 37.1 DBSH Share Plan and DBSH Employee Share Plan

The following table sets out the movements of the awards during the year.

	·	The Grou	ıp	-
	;	2019	20	18
Number of shares	Share Plan	ESP	Share Plan	ESP
Balance at 1 January	17,189,043	2,032,520	19,238,282	2,338,534
Granted <sup>(a)</sup>	6,333,995	-	4,329,124	642,731
Vested	(5,954,093)	(706,751)	(5,989,489)	(700,182)
Forfeited	(422,685)	(136,369)	(388,874)	(248,563)
Balance at 31 December	17,146,260	1,189,400	17,189,043	2,032,520
Weighted average fair value of the shares granted during the year <sup>(b)</sup>	\$21.43	-	\$26.24	\$26.46

<sup>2018</sup> includes adjustments (320,063 shares) made to all unvested share awards following the shareholders' approval for the special dividend of \$0.50 per ordinary share at DBSH's Annual General Meeting held on 25 April 2019 in accordance with the terms of the Share Plan and ESP
The fair value of the shares granted in 2019 includes an adjustment to exclude the present value of future expected dividends to be paid during the vesting

period

		Bank		
		2019	20	18
Number of shares	Share Plan	ESP	Share Plan	ESP
Balance at 1 January	14,542,435	1,175,789	16,106,085	1,347,549
Granted <sup>(a)</sup>	4,984,024	-	3,665,869	357,021
Vested	(5,005,016)	(410,791)	(4,977,098)	(400,379)
Transferred	(338,039)	(74,510)	56,449	(1,203)
Forfeited	(285,219)	(57,216)	(308,870)	(127,199)
Balance at 31 December	13,898,185	633,272	14,542,435	1,175,789
Weighted average fair value of the shares granted during the year <sup>(b)</sup>	\$21.43	-	\$26.26	\$26.45

<sup>(</sup>a) 2018 includes adjustments (262,120 shares) made to all unvested share awards following the shareholders' approval for the special dividend of \$0.50 per ordinary share at DBSH's Annual General Meeting held on 25 April 2019 in accordance with the terms of the Share Plan and ESP

<sup>(</sup>b) The fair value of the shares granted in 2019 includes an adjustment to exclude the present value of future expected dividends to be paid during the vesting period

#### 37.2 DBSH Employee Share Purchase Plan

The following table sets out the movements of the shares during the year.

	The Group	Bank
Number of shares	2019	2019
Balance at 1 January	-	-
Granted	404,473	305,332
Vested	(198)	(144)
Transferred	-	(16)
Forfeited	(15,589)	(12,167)
Balance at 31 December	388,686	293,005
Weighted average fair value of the shares granted during the year	\$22.54	\$22.54

#### 37.3 DBSH Share Ownership Scheme

The outstanding shares held under DBSH Share Ownership Scheme are as follows:

	-	The Group and B	ank		
	Ordinary shares				
	Number of	shares	Market v (In \$ milli		
	2019	2018	2019	2018	
Balance at 1 January	7,036,093	6,967,989	167	173	
Balance at 31 December	-	7,036,093	-	167	

# 38. Related Party Transactions

- **38.1** Transactions between the Bank and its subsidiaries, including consolidated structured entities and associates which are related parties of the Bank, are disclosed in Notes 38.4 to 38.6.
- **38.2** During the financial year, the Group had banking transactions with related parties, consisting of subsidiaries, associates and key management personnel of the Group. These included the taking of deposits and extension of credit card and other loan facilities. These transactions were made in the ordinary course of business and carried out at arms-length commercial terms, and were not material.

In addition, key management personnel received remuneration for services rendered during the financial year. Non-cash benefits including performance shares were also granted.

**38.3** Total compensation and fees to key management personnel<sup>(a)</sup> are as follows:

	The G	roup	Banl	
In \$ millions	2019	2018	2019	2018
Short-term benefits <sup>(b)</sup>	47	48	37	39
Share-based payments(c)	29	31	26	27
Total	76	79	63	66
Of which: Bank Directors' remuneration and fees	13	12	13	12

- (a) Includes Bank Directors and members of the Management Committee who have authority and responsibility in planning the activities and direction of the Group. The composition and number of Directors and Management Committee members may differ from year to year
- (b) Includes cash bonus based on amount accrued during the year, to be paid in the following year
- (c) Share-based payments are expensed over the vesting period in accordance with SFRS(I) 2

#### 38.4 Income received from and expenses paid to related parties

In addition to the related party information shown elsewhere in the financial statements, the following transactions took place between the Bank and related parties during the financial year on terms agreed by the parties concerned.

_	The	Group	Ва	nk
In \$ millions	2019	2018	2019	2018
Income received from:				
-Holding company	1	8	1	8
-Subsidiaries	-	-	1,433	1,310
-Associates	50	47	57	55
Total	51	55	1,491	1,373
Expenses paid to:				
-Holding company	172	125	118	86
-Subsidiaries	-	-	1,651	1,332
-Associates	107	92	107	92
Total	279	217	1,876	1,510

# 38.5 Amounts due from and to related parties

	Ва	ank
In \$ millions	2019	2018
Amounts due from:		
-Subsidiaries (Note 21)	19,813	16,022
-Associates	1,030	970
Total	20,843	16,992
Amounts due to:		
-Holding company	4,695	5,431
-Subsidiaries	57,649	52,655
-Associates	186	138
Total	62,530	58,224

# 38.6 Guarantees issued to and received from related parties

Guarantees issued to and received from subsidiaries amounted to \$3,157 million (2018: \$2,253 million) and \$1,030 million (2018: \$1,224 million) respectively.

The Bank also finances customer through discounting bills issued by related parties. As at 31 December 2019, outstanding amount of such bills was \$154 million (2018: \$40 million).

# 39. Fair Value of Financial Instruments

#### 39.1 Valuation Process

The valuation processes within the Group are governed by the Valuation Policy which is approved by the Board Audit Committee.

The Valuation Policy applies to all financial assets and liabilities that are measured at fair value, covering both market prices as well as model inputs. Financial assets and liabilities are marked directly using reliable and independent quoted market prices where available, or by using reliable and independent market parameters (as model inputs) in conjunction with a valuation model.

Valuation models go through an assurance process carried out by the Risk Management Group (RMG), independent of the model developers. This assurance process covers the review of the underlying methodology including its logic and conceptual soundness together with the model inputs and outputs. Model assurances are conducted prior to implementation and subject to regular review or when there are significant changes arising from market or portfolio changes. Where necessary, the Group also imposes model reserves and other adjustments in determining fair value. Models are approved by the Group Market and Liquidity Risk Committee.

A process of independent price verification (IPV) is in place to establish the accuracy of the market parameters used when the marking is performed by the Front Office. The IPV process entails independent checks to compare traders' marks to independent sources such as broker/dealer quotes or market consensus providers.

Where market parameters are sourced independently for the marking of financial assets and liabilities, or used as inputs into a valuation model, these are checked for reliability and accuracy, for example by reviewing large daily movements or by referencing other similar sources, or transactions.

Valuation adjustments and reserves are taken to account for close-out costs, model and market parameter uncertainty, and any other factor that may affect valuations. Valuation adjustment and reserve methodologies are approved by the Group Market and Liquidity Risk Committee and governed by the Valuation Policy.

The valuation adjustments and reserves include but are not limited to:

Model and Parameter Uncertainty Adjustments
Valuation uncertainties may occur during fair value
measurement either due to uncertainties in the required
input parameters or uncertainties in the modelling
methods used in the valuation process. In such
situations, adjustments may be necessary to take these
factors into account.

For example, where market data such as prices or rates for an instrument are no longer observable after an extended period of time, these inputs used to value the financial instruments may no longer be relevant in the current market conditions. In such situations, adjustments may be necessary to address the pricing uncertainty arising from the use of stale market data inputs.

#### Credit Valuation Adjustments

Credit valuation adjustments are taken to reflect the impact on fair value of counterparty credit risk. Credit valuation adjustments are based upon the creditworthiness of the counterparties, magnitude of the current or potential exposure on the underlying transactions, netting and collateral arrangements, and the maturity of the underlying transactions.

### Funding Valuation Adjustments

Funding valuation adjustments represent an estimate of the adjustment to fair value that a market participant would make in incorporating funding costs and benefits that arise in relation to uncollateralised derivatives positions.

#### Day 1 Profit or Loss (P&L) Reserve

In situations where the market for an instrument is not active and its fair value is established using a valuation model based on significant unobservable market parameters, the Day 1 P&L arising from the difference in transacted price and end-of-day model valuation is set aside as reserves. A market parameter is defined as being significant when its impact on the Day 1 P&L is greater than an internally determined threshold. The Day 1 P&L reserve is released to the income statement when the parameters become observable or when the transaction is closed out or amortised over the duration of the transaction. At year end, the unamortised Day 1 P&L was not material.

# Bid-Offer Adjustments

The Group often holds, at varying points in time, both long or short positions in financial instruments which are valued using mid-market levels. Bid-offer adjustments are then made to account for close-out costs.

# 39.2 Fair Value Hierarchy

The fair value hierarchy accords the highest level to observable inputs such as unadjusted quoted prices in active markets for identical assets or liabilities and the lowest level to unobservable inputs. The fair value measurement of each financial instrument is categorised in accordance with the same level of the fair value hierarchy as the input with the lowest level that is significant to the entire measurement. If unobservable inputs are deemed significant, the financial instrument will be categorised as Level 3.

Financial instruments that are valued using quoted prices in active markets are classified as Level 1 within the fair value hierarchy. These would include government and sovereign securities, listed equities and corporate debt securities which are actively traded. Derivatives contracts which are traded in an active exchange market are also classified as Level 1 of the valuation hierarchy.

Where fair value is determined using quoted market prices in less active markets or quoted prices for similar

assets and liabilities, such instruments are generally classified as Level 2. In cases where quoted prices are generally not available, the Group will determine the fair value based on valuation techniques that use market parameters as inputs including but not limited to yield curves, volatilities and foreign exchange rates. The majority of valuation techniques employ only observable market data so that reliability of the fair value measurement is high. These would include corporate debt securities, repurchase, reverse repurchase agreements and most of the Group's OTC derivatives.

The Group classifies financial instruments as Level 3 when there is reliance on unobservable market parameters, whether used directly to value a financial asset or liability, or used as inputs to a valuation model, attributing to a significant contribution to the instrument value. These would include all input parameters which are derived from historical data, for example, asset correlations or certain volatilities. Level 3 instruments also include unquoted equity securities which are measured based on the net asset value of the investments. In addition, Level 3 inputs include all stale security prices and other approximations (e.g. bonds valued using credit default swap spreads).

The following table presents assets and liabilities measured at fair value, classified by level within the fair value hierarchy.

				TI	he Group			
		20	19			20	18	
In \$ millions	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Assets								
Financial assets at FVPL								
- Government securities and treasury bills	8,464	1,478	-	9,942	8,707	1,876	-	10,583
- Bank and corporate securities	10,999	4,461	443	15,903	9,323	4,715	433	14,471
- Other financial assets	-	12,022	-	12,022	-	12,826	-	12,826
FVOCI financial assets								
- Government securities and treasury bills	18,171	1,577	-	19,748	17,907	1,394	-	19,301
- Bank and corporate securities	11,020	1,544	324	12,888	8,828	1,119	327	10,274
- Other financial assets	27	4,227	-	4,254	27	4,680	-	4,707
Derivatives	35	17,214	1	17,250	52	16,988	2	17,042
Liabilities								
Financial liabilities at FVPL								
- Other debt securities	-	9,720	-	9,720	-	7,132	-	7,132
- Other financial liabilities	1,435	2,989	-	4,424	1,733	3,715	-	5,448
Derivatives	111	17,449	73	17,633	90	16,642	9	16,741

	Bank							
In \$ millions	2019			2018				
	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Assets								
Financial assets at FVPL								
- Government securities and treasury bills	7,715	769	-	8,484	6,604	1,024	-	7,628
- Bank and corporate securities	10,997	3,332	439	14,768	9,323	2,843	399	12,565
- Other financial assets	-	10,875	-	10,875	=	11,794	-	11,794
FVOCI financial assets								
- Government securities and treasury bills	11,459	9	-	11,468	13,509	105	-	13,614
- Bank and corporate securities	10,653	382	280	11,315	8,437	402	298	9,137
- Other financial assets	27	2,276	-	2,303	27	2,879	-	2,906
Derivatives	34	15,221	-	15,255	52	14,860	-	14,912
Liabilities								
Financial liabilities at FVPL								
- Other debt securities	-	9,720	-	9,720	-	7,043	-	7,043
- Other financial liabilities	1,278	1,505	-	2,783	1,247	2,067	-	3,314
Derivatives	111	15,271	73	15,455	92	14,605	9	14,706

There were no significant transfers in and out of Level 3 in 2019. The bank and corporate securities classified as Level 3 at 31 Dec 2019 comprised mainly notes which were marked using approximations and unquoted equity securities valued based on net asset value of the investments.

### 39.3 Own credit adjustments on financial liabilities designated at fair value through profit or loss

Changes in the fair value of financial liabilities designated at fair value through profit or loss related to the Group's own credit risk are recognised in other comprehensive income. As the Group does not hedge changes in own credit risk arising from financial liabilities, presenting the own credit movements within other comprehensive income does not create or increase an accounting mismatch in the income statement.

The change in fair value attributable to changes in own credit risk has been determined as the amount of change in fair value that is attributable to changes in funding spreads above benchmark interest rates. Fair value changes arising from factors other than the Group's own credit risk are insignificant.

The cumulative amounts attributable to changes in own credit risk for these financial liabilities as at 31 December 2019 was a loss of \$67 million for the Group and the Bank (2018: less than \$500k).

Realised gains or losses attributable to changes in own credit risk for 2019 were insignificant.

#### 39.4 Financial assets & liabilities not carried at fair value

For financial assets and liabilities not carried at fair value in the financial statements, the Group has ascertained that their fair values were not materially different from their carrying amounts at year-end.

For cash and balances with central banks, due from banks, loans and advances to customers, as well as due to banks and deposits and balances from customers, the basis of arriving at fair values is by discounting cash flows using the relevant market interest rates for the respective currencies.

For investment debt securities and subordinated term debts and other debts issued, fair values are determined based on independent market quotes, where available. Where market prices are not available, fair values are estimated using discounted cash flow method.

The fair value of variable interest-bearing as well as short-term financial instruments accounted for at amortised cost is assumed to be approximated by their carrying amounts.

# 40. Risk Governance

The Group Board oversees the Group's affairs and provides sound leadership for the CEO and management. Authorised by the Board, various Board committees oversee specific responsibilities based on clearly defined terms of reference.

Under the Group's risk management approach, the Group Board, through the Board Risk Management Committee (BRMC), sets the Group's risk appetite, oversees the establishment of enterprise-wide risk management policies and processes, and sets risk appetite limits to guide risk-taking within the Group.

The BRMC oversees the identification, monitoring, management and reporting of credit, market, liquidity, operational and reputational risks. To facilitate the BRMC's risk oversight, the following risk management committees have been established:

- 1. Risk Executive Committee (Risk EXCO);
- 2. Group Credit Risk Committee (GCRC);
- 3. Group Credit Policy Committee (GCPC);
- 4. Group Credit Risk Models Committee (GCRMC);
- Group Market and Liquidity Risk Committee (GMLRC);
- 6. Group Operational Risk Committee (GORC);
- Group Scenario and Stress Testing Committee (GSSTC); and
- 8. Product Approval Committee (PAC).

As the overall executive body regarding risk matters, the Risk EXCO oversees the Group's risk management as a whole.

Each of the committees reports to the Risk EXCO, and the committees as a whole serve as an executive forum to discuss and implement the Group's risk management.

Key responsibilities:

- Assess and approve risk-taking activities;
- Oversee the Group's risk management infrastructure, which includes frameworks, decision criteria, authorities, people, policies, standards, processes, information and systems;
- Approve risk policies such as model governance standards, stress testing scenarios, and the evaluation and endorsement of risk models:
- Assess and monitor specific credit concentration; and
- Recommend stress-testing scenarios (including macroeconomic variable projections) and review the results.

The members in these committees comprise representatives from the Risk Management Group (RMG) as well as key business and support units.

The PAC oversees new product approvals, which are vital for mitigating risk within the Group. The committee assesses the reputational risk and suitability of products. In addition, the committee assesses whether the Group has the appropriate systems to monitor and manage the resulting risks.

Most of the above committees are supported by local risk committees in all major locations, where appropriate. These local risk committees oversee the local risk positions for all businesses and support units, ensuring that they keep within limits set by the Group risk committees. They also approve location-specific risk policies.

The Chief Risk Officer (CRO), who is a member of the Group Executive Committee and reports to the Chairman of the BRMC and the CEO, oversees the risk management function. The CRO is independent of business lines and is actively involved in key decision-making processes. He often engages with regulators to discuss risk matters, enabling a more holistic risk management perspective.

Working closely with the risk and business committees, the CRO is responsible for the following:

- Management of the Group's risks, including systems and processes to identify, approve, measure, monitor, control and report risks;
- Engagement with senior management about material matters regarding all risk types;
- Development of risk controls and mitigation processes; and
- Ensuring the Group's risk management is effective and the Risk Appetite established by the Board is adhered to.

#### 41. Credit Risk

The most significant measurable risk the Group faces is credit risk, which arises from the Group's daily activities in various businesses. These activities include lending to retail, corporate and institutional customers; it includes the risk of lending, pre-settlement and settlement risk of foreign exchange, derivatives and debt securities.

#### **Credit Risk Management**

The Group's approach to credit risk management comprises the following building blocks:

#### Policies

The dimensions of credit risk and the scope of its application are defined in the Group Credit Risk Management Policy. Senior management sets the overall direction and policy for managing credit risk at the enterprise level.

The Group Core Credit Risk Policies (CCRPs) established for Consumer Banking/ Wealth Management and Institutional Banking set forth the principles by which the Group conducts its credit risk management and control activities. These policies, supplemented by a number of operational standards and guidelines, ensure consistency in identifying, assessing, underwriting, measuring, reporting and controlling credit risk across the Group, and provide guidance in the formulation of business-specific and/or location-specific credit risk policies and standards.

The operational standards and guidelines are established to provide greater details on the implementation of the credit principles within the Group CCRPs and are adapted to reflect different credit environments and portfolio risk profiles. The CCRPs are approved by the GCPC.

# Risk Methodologies

Credit risk is managed by thoroughly understanding the Group's corporate customers – the businesses they are in, as well as the economies in which they operate. It is also managed through statistical models and data analytics for retail customers.

The assignment of credit risk ratings and setting of lending limits are integral parts of the Group's credit risk management process, and it uses an array of rating models for its corporate and retail portfolios. Most of these models are built internally using the Group's loss data, and the limits are driven by the Group's Risk Appetite Statement and the Target Market and Risk Acceptance Criteria (TMRAC).

Wholesale borrowers are assessed individually using both judgmental credit risk models and statistical credit risk models. They are further reviewed and evaluated by experienced credit risk managers who consider relevant credit risk factors in the final determination of the borrower's risk. For some portfolios within the small and medium-sized enterprises (SME) segment, the Group also uses a programme-based approach to achieve a balanced management of risks and rewards. Retail exposures

are assessed using credit score models, credit bureau records, as well as internally and externally available customer behaviour records supplemented by the Group's Risk Acceptance Criteria (RAC).

Credit applications are proposed by the business unit, and applications outside the RAC are independently assessed by the credit risk managers.

Pre-settlement credit risk for traded products arising from a counterparty potentially defaulting on its obligations is quantified by evaluation of the market price, plus potential future exposure. This is used to calculate the Group's regulatory capital under the Current Exposure Method (CEM) and is included within the Group's overall credit limits to counterparties for internal risk management.

The Group actively monitors and manages its exposure to counterparties for over-the-counter (OTC) derivative trades to protect its balance sheet in the event of a counterparty default. Counterparty risk exposures that may be adversely affected by market risk events are identified, reviewed and acted upon by management, and highlighted to the appropriate risk committees. Specific wrong-way risk arises when the credit exposure of a counterparty (from the traded product transaction) directly correlates with the probability of default of the counterparty. The Group has a policy to guide the handling of specific wrong-way risk transactions, and its risk measurement metric takes into account the higher risks associated with such transactions.

Issuer default risk that may also arise from derivatives notes and securities are generally measured based on jump-to-default computations.

### Concentration Risk Management

The Group's risk management processes, which are aligned with its Risk Appetite, ensure that an acceptable level of risk diversification is maintained across the Group.

For credit risk, the Group uses Economic Capital (EC) as its measurement tool, since it combines the individual risk factors of probability of default (PD), loss given default (LGD) and exposure at default (EAD), as well as portfolio concentration factors. Granular EC thresholds are set to ensure that the allocated EC stays within its Risk Appetite.

Thresholds are set on major industry groups and single counterparty exposures and notional limits are established for country exposures.

Governance processes are in place to ensure that the Group's exposures are regularly monitored with these thresholds in mind, and appropriate actions are taken when the thresholds are breached.

The Group continually examines how it can enhance the scope of its thresholds to improve management of concentration risk.

#### Environment, Social and Governance Risk

Responsible financing, covering Environmental, Social and Governance (ESG) issues, is a topic of increasing importance to societal constituents, and one that affects investing and lending decisions across the bank. The Group recognises that its financing practices has a substantial impact on society and failure of its customers to appropriately manage ESG issues can directly impact their operations and long-term economic viability, and the communities and environment in which they operate.

The Board approves the Group's overall and specific risk governance frameworks and oversees an independent Group-wide risk management system, including responsible financing. The Group had established a Group Responsible Financing Standard that documents its overarching approach to responsible financing and additional assessment required when entering into transactions with elevated ESG risks. The requirements of this Standard represent the minimum standards for the Group and it has also sought alignment, where possible, with international standards and best practices. Where significant ESG issues are identified, escalation is required to the relevant industry specialist and IBG Sustainability Office for further guidance before submitting the credit memorandum to the credit approving authority.

#### **Country Risk**

Country risk refers to the risk of loss due to events in a specific country (or a group of countries). This includes political, exchange rate, economic, sovereign and transfer risks.

The Group manages country risk through the requirements of the Group CCRP and the said risk is part of its concentration risk management. The way the Group manages transfer risk is set out in its Country Risk Management Standard. This includes an internal transfer risk and sovereign risk rating system, where assessments are made independently of business decisions. The Group's transfer risk limits are set in accordance with the Group Risk Appetite Policy.

Transfer risk limits for priority countries are set based on country-specific strategic business considerations as well as the acceptable potential loss according to the Group's Risk Appetite. Management actively evaluates and determines the appropriate level of transfer risk exposures for these countries taking into account the risks and rewards and whether they are in line with the Group's strategic intent. Limits for all other non-priority countries are set using a model-based approach.

All transfer risk limits are approved by the BRMC.

# Credit stress testing

The Group engages in various types of credit stress testing, and these are driven either by regulators or internal requirements and management.

The Group's credit stress tests are performed at total portfolio or sub-portfolio level, and are generally performed to assess the impact of changing economic conditions on asset quality, earnings performance, capital adequacy and liquidity. The Group's stress testing programme is comprehensive, and covers all major functions and areas of business.

The Group typically performs the following types of credit stress testing at a minimum and others as necessary:

D.111 4	T 0 1 1 5 11 4 11
Pillar 1	The Group conducts Pillar 1 credit
credit	stress testing regularly as required by
stress	regulators. Under Pillar 1 credit stress
testing	testing, the Group assesses the
	impact of a mild stress scenario (at
	least two consecutive quarters of zero
	GDP growth) on Internal Ratings-
	Based (IRB) estimates (i.e. PD, LGD
	and EAD) and the impact on
	regulatory capital. The purpose of the
	Pillar 1 credit stress test is to assess
	the robustness of internal credit risk
	models and the cushion above
	minimum regulatory capital.
Pillar 2	The Group conducts Pillar 2 credit
credit	stress testing once a year as part of
stress	the internal capital adequacy
testing	assessment process (ICAAP). Under
testing	Pillar 2 credit stress testing, the Group
	assesses the impact of stress
	scenarios, with different levels of
	severity, on asset quality, earnings
	performance, as well as internal and
	regulatory capital. The results of the
	credit stress tests form inputs to the
	capital planning process under
	ICAAP. The purpose of the Pillar 2
	credit stress testing is to examine, in a
	rigorous and forward-looking manner,
	the possible events or changes in
	market conditions that could adversely
	impact the Group and to develop the
	appropriate action plan.
Industry-	The Group participates in the annual
wide	industry-wide stress test (IWST)
stress	conducted by the Monetary Authority
testing	of Singapore (MAS) to facilitate the
	ongoing assessment of Singapore's
	financial stability. Under the IWST, the
	Group is required to assess the
	impact of adverse scenarios, as
	defined by the regulator, on asset
	quality, earnings performance and
	capital adequacy.
Sensitivity	The Group also conducts multiple
and	independent sensitivity analyses and
scenario	credit portfolio reviews based on
analyses	various scenarios. The intent of these
	analyses and reviews is to identify
	vulnerabilities for the purpose of
	developing and executing mitigating
	actions.

#### · Processes, Systems and Reports

The Group constantly invests in systems to support risk monitoring and reporting for its Institutional Banking and Consumer Banking/ Wealth Management businesses.

The end-to-end credit process is continually being reviewed and improved through various front-to-back initiatives involving business, operations, risk management and other key stakeholders. Day-to-day monitoring of credit exposures, portfolio performance and external environmental factors potentially affecting credit risk profiles is key to its philosophy of effective credit risk management.

In addition, credit trends, which may include industry analysis, early warning alerts and significant weak credits, are submitted to the various risk committees, allowing key strategies and action plans to be formulated and evaluated. Credit control functions also ensure that any credit risk taken complies with credit risk policies and standards. These functions ensure that approved limits are activated, credit excesses and policy exceptions are appropriately endorsed, compliance with credit standards is carried out, and covenants established are monitored.

Independent risk management functions that report to the CRO are jointly responsible for developing and maintaining a robust credit stress testing programme. These units oversee the implementation of credit stress tests as well as the analysis of the results, of which management, various risk committees and regulators are informed.

#### Non-performing assets

The Group's credit facilities are classified as "Performing assets" or "Non-performing assets" (NPA), in accordance with the MAS Notice 612.

Credit exposures are categorised into one of the following five categories, according to the Group's assessment of a borrower's ability to repay a credit facility from its normal sources of income and/or the repayment behaviour of the borrower.

Classification	Description		
Grade			
Performing Assets			
Pass	Indicates that the timely		
	repayment of the outstanding		
	credit facilities is not in doubt.		
Special	Indicates that the borrower		
mention	exhibits potential weaknesses		
	that, if not corrected in a timely		
	manner, may adversely affect		
	future repayments and warrant		
	close attention by the Group.		

Classification Grade	Description			
Classified or NPA				
Substandard	Indicates that the borrower exhibits definable weaknesses in its business, cash flow or financial position that may jeopardise repayment on existing terms.			
Doubtful	Indicates that the borrower exhibits severe weaknesses such that the prospect of full recovery of the outstanding credit facilities is questionable and the prospect of a loss is high, but the exact amount remains undeterminable as yet.			
Loss	Indicates that the outstanding credit facility is not collectable, and little or nothing can be done to recover the outstanding amount from any collateral or from the assets of the borrower generally.			

A default is considered to have occurred with regard to a particular borrower when either or both of the following events have taken place:

- Subjective default: Borrower is considered to be unlikely to pay its credit obligations in full, without the Group taking action such as realising security (if held)
- Technical default: Borrower is more than 90 days past due on any credit obligation to the Group

For retail borrowers, the categorisation into the respective MAS loan grades is at the facility level and consistent with MAS Notice 612.

Credit facilities are classified as restructured assets when the Group grants non-commercial concessions to a borrower because its financial position has deteriorated or is unable to meet the original repayment schedule. A restructured credit facility is classified into the appropriate non-performing grade based on the assessment of the borrower's financial condition and its ability to repay according to the restructured terms.

Such credit facilities are not returned to the performing status until there are reasonable grounds to conclude that the borrower will be able to service all future principal and interest payments on the credit facility in accordance with the restructured terms and MAS Notice 612. Apart from what has been described, the Group does not grant concessions to borrowers in the normal course of business.

In addition, it is not within the Group's business model to acquire debts that have been restructured at inception (e.g. distressed debts).

Please refer to Note 2.11 for the Group's accounting policies regarding specific and general allowances for credit losses. In general, specific allowances are recognised for defaulting credit exposures rated substandard and below.

The breakdown of the Group's NPA by loan grading and industry and the related amounts of specific allowances can be found in Note 41.2. A breakdown of past due loans can also be found in the same note.

When required, the Group will take possession of all collateral and dispose them as soon as practicable. Realised proceeds are used to reduce outstanding indebtedness. A breakdown of collateral held for NPA is shown in Note 41.2.

Repossessed collateral is classified in the balance sheet as other assets. The amounts of such other assets for 2019 and 2018 were not material.

#### **Credit Risk Mitigants**

#### Collateral received

Where possible, the Group takes collateral as a secondary source of repayment. This includes, but is not limited to cash, marketable securities, real estate, trade receivables, inventory, equipment, and other physical and/or financial collateral. The Group may also take fixed and floating charges on the assets of borrowers.

Policies are in place to determine the eligibility of collateral for credit risk mitigation. Collateral is generally diversified and periodic valuations of collateral are required. Real estate constitutes the bulk of its collateral, while marketable securities and cash are immaterial.

For derivatives, repurchase agreements (repo) and other repo-style transactions with financial market counterparties, collateral arrangements are typically covered under market-standard documentation, such as International Swaps & Derivatives Association (ISDA) Agreements and Master Repurchase Agreements. The collateral received is marked-to-market on a frequency that the Group and the counterparties

have mutually agreed upon. This is governed by internal guidelines with respect to collateral eligibility. In the event of a default, the credit risk exposure is reduced by master-netting arrangements where the Group is allowed to offset what it owes a counterparty against what is due from that counterparty in a netting-eligible jurisdiction.

Collateral held against derivatives generally consists of cash in major currencies and highly rated government or quasi-government bonds. Exceptions may arise in certain countries, where due to domestic capital markets and business conditions, the Group may be required to accept less highly rated or liquid government bonds and currencies. Reverse repotransactions are generally limited to large institutions with reasonably good credit standing. The Group takes haircuts against the underlying collateral of these transactions that commensurate with collateral quality to ensure credit risks are adequately mitigated.

In times of difficulty, the Group will review the customers' specific situation and circumstances to assist them in restructuring their financial obligations. However, should the need arise, disposal and recovery processes are in place to dispose collateral held by the Group. The Group maintains a panel of agents and solicitors to assist in the disposal of non-liquid assets and specialised equipment quickly.

#### Other credit risk mitigants

The Group accepts guarantees as credit risk mitigants. Internal requirements for considering the eligibility of guarantors for credit risk mitigation are in place.

# 41.1 Maximum exposure to credit risk

The following table shows the exposure to credit risk of on-balance sheet and off-balance sheet financial instruments, before taking into account any collateral held, other credit enhancements and netting arrangements. For on-balance sheet financial assets, the maximum credit exposure is the carrying amounts. For contingent liabilities, the maximum exposure to credit risk is the amount the Group would have to pay if the instrument is called upon. For undrawn facilities, the maximum exposure to credit risk is the full amount of the undrawn credit facilities granted to customers.

	The Group		
In \$ millions	2019	2018	
On-balance sheet			
Cash and balances with central banks (excluding cash on hand)	24,059	19,725	
Government securities and treasury bills	49,729	47,278	
Due from banks	39,300	40,154	
Derivatives	17,250	17,042	
Bank and corporate debt securities	53,826	50,588	
Loans and advances to customers	357,884	345,003	
Other assets (excluding deferred tax assets)	15,110	13,065	
	557,158	532,855	
Off-balance sheet			
Contingent liabilities and commitments (excluding operating lease and capital commitments)	326,168	297,096	
Total	883,326	829,951	

The Group's exposures to credit risk, measured using the expected gross credit exposures that will arise upon a default of the end obligor are as shown in the Group's Pillar 3 Disclosures. These exposures, which include both on-balance

sheet and off-balance sheet financial instruments, are shown without taking into account any collateral held or netting arrangements.

# **Analysis of Collateral**

Whilst the Group's maximum exposure to credit risk is the carrying amount of the assets or, in the case of off-balance sheet instruments, the amount guaranteed, committed, accepted or endorsed, the likely exposure may be lower due to offsetting collateral, credit guarantees and other actions taken to mitigate the Group's exposure.

The description of collateral for each class of financial asset is set out below.

Balances with central banks, government securities and treasury bills, due from banks and bank and corporate debt securities

Collateral is generally not sought for these assets.

#### Derivatives

The Group maintains collateral agreements and enters into master netting agreements with most of the counterparties for derivative transactions. Please refer to Note 35 for the impact of netting arrangements recognised for the computation of Capital Adequacy Ratio (CAR).

Loans and advances to customers, contingent liabilities and commitments

Certain loans and advances to customers, contingent liabilities and commitments are typically collateralised to a substantial extent. In particular, residential mortgage exposures are generally fully secured by residential properties. Income-producing real estate, which is a sub-set of the Specialised Lending exposure, is fully secured by the underlying assets financed.

The extent to which credit exposures are covered by Basel-eligible collateral, besides real estate, after the application of the requisite regulatory hair-cuts, is shown in the Group's Pillar 3 Disclosures. The amounts are a sub-set of the actual collateral arrangements entered by the Group as Basel imposes strict legal and operational standards before collateral can be admitted as credit risk mitigants. As a result, certain collateral arrangements which do not meet its criteria will not be included. Certain collateral types which are not permitted as credit risk mitigants for credit exposures under the Standardised Approach are also excluded.

# 41.2 Loans and advances to customers

	The	Group
In \$ millions	2019	2018
Loans and advances to customers		
Performing Loans		
- Neither past due nor impaired (i)	354,575	342,237
Pass	352,673	339,442
Special Mention	1,902	2,795
- Past due but not impaired (ii)	2,450	2,157
Non-Performing Loans	,	•
- Impaired (iii)	5,402	5,251
Total gross loans (Note 17)	362,427	349,645

## (i) Neither past due nor impaired loans by grading and industry

The credit quality of the portfolio of loans and advances that are neither past due nor impaired can be assessed by reference to the loan gradings in MAS Notice 612.

	The Group					
In \$ millions	Pass	Special Mention	Total			
2019		•				
Manufacturing	36,437	421	36,858			
Building and construction	84,493	96	84,589			
Housing loans	72,687	-	72,687			
General commerce	44,288	404	44,692			
Transportation, storage and communications	27,828	392	28,220			
Financial institutions, investment and holding companies	24,344	152	24,496			
Professionals and private individuals (excluding housing loans)	33,001	204	33,205			
Others	29,595	233	29,828			
Total	352,673	1,902	354,575			
2018						
Manufacturing	35,928	255	36,183			
Building and construction	76,012	134	76,146			
Housing loans	74,119	3	74,122			
General commerce	46,134	438	46,572			
Transportation, storage and communications	26,380	1,122	27,502			
Financial institutions, investment and holding companies	24,616	40	24,656			
Professionals and private individuals (excluding housing loans)	29,639	34	29,673			
Others	26,614	769	27,383			
Total	339,442	2,795	342,237			

## (ii) Past due but not impaired loans by past due period and industry

	The Group						
In \$ millions	Less than 30 days past due	30 to 59 days past due	60 to 90 days past due	Total			
2019	•	•	•				
Manufacturing	204	7	15	226			
Building and construction	220	25	2	247			
Housing loans	591	91	42	724			
General commerce	333	47	6	386			
Transportation, storage and communications	77	7	171	255			
Financial institutions, investment and holding companies	87	12	-	99			
Professionals and private individuals (excluding housing loans)	324	68	26	418			
Others	79	13	3	95			
Total	1,915	270	265	2,450			
2018							
Manufacturing	110	3	-	113			
Building and construction	127	1	10	138			
Housing loans	588	88	31	707			
General commerce	218	30	5	253			
Transportation, storage and communications	175	2	1	178			
Financial institutions, investment and holding companies	277	14	27	318			
Professionals and private individuals (excluding housing loans)	337	53	23	413			
Others	19	17	1	37			
Total	1,851	208	98	2,157			

## (iii) Non-performing assets (NPAs)

## Non-performing assets by grading and industry

				The	Group			
		NPAs				Specific allow	ances	
	Sub-				Sub-			
In \$ millions	standard	Doubtful	Loss	Total	standard	Doubtful	Loss	Total
2019								
Manufacturing	214	291	46	551	49	201	46	296
Building and construction	193	24	91	308	30	19	91	140
Housing loans	173	10	12	195	1	2	8	11
General commerce	265	247	74	586	13	226	74	313
Transportation, storage and communications	1,827	425	847	3,099	241	258	847	1,346
Financial institutions, investment and holding companies	39	19	7	65	4	8	7	19
Professional and private individuals (excluding housing loans)	435	51	12	498	76	46	16	138
Others	64	14	22	100	14	6	22	42
Total non-performing loans	3,210	1,081	1,111	5,402	428	766	1,111	2,305
Debt securities, contingent liabilities and	183	58	130	371	25	42	130	197
others	.00	00		• • • • • • • • • • • • • • • • • • • •				
Total	3,393	1,139	1,241	5,773	453	808	1,241	2,502
Of which: restructured assets	660	339	432	1,431	99	184	432	715
2018								
Manufacturing	291	209	72	572	40	190	72	302
Building and construction	143	54	51	248	28	48	51	127
Housing loans	164	8	10	182	-	-	10	10
General commerce	286	267	92	645	8	168	92	268
Transportation, storage and communications	1,376	323	1,170	2,869	200	136	1,170	1.506
Financial institutions, investment and holding companies	22	19	7	48	3	8	7	18
Professional and private individuals (excluding housing loans)	447	40	17	504	76	36	17	129
Others	80	83	20	183	29	31	20	80
Total non-performing loans	2,809	1,003	1,439	5,251	384	617	1,439	2,440
Debt securities, contingent liabilities and	201	163	69	433	16	87	69	172
others	2.040	1 100	1 500	F 604	400	704	1 500	2.642
Total	3,010	1,166	1,508	5,684	400		1,508	2,612
Of which: restructured assets	744	302	510	1,556	105	126	510	741

## Non-performing assets by geography<sup>(a)</sup>

	The Group			
		Specific		
In \$ millions	NPAs	allowances		
2019				
Singapore	3,722	1,405		
Hong Kong	492	279		
Rest of Greater China	357	130		
South and Southeast Asia	751	463		
Rest of the World	80	28		
Total non-performing loans	5,402	2,305		
Debt securities, contingent liabilities and others	371	197		
Total	5,773	2,502		
2018				
Singapore	3,335	1,488		
Hong Kong	511	258		
Rest of Greater China	411	130		
South and Southeast Asia	908	521		
Rest of the World	86	43		
Total non-performing loans	5,251	2,440		
Debt securities, contingent liabilities and others	433	172		
Total	5,684	2,612		

<sup>(</sup>a) Based on the location of incorporation of the borrower

## Non-performing assets by past due period

	The Group	
In \$ millions	2019	2018
Not overdue	1,110	1,271
Within 90 days	589	432
Over 90 to 180 days	601	436
Over 180 days	3,473	3,545
Total past due assets	4,663	4,413
Total	5,773	5,684

## Secured non-performing assets by collateral type

	The Group			
In \$ millions	2019	2018		
Properties	1,004	799		
Shares and debentures	162	185		
Cash deposits	8	22		
Others	1,757	1,551		
Total	2,931	2,557		

## 41.3 Credit quality of Government securities and treasury bills and Bank and corporate debt securities

The table below presents an analysis of Government securities and treasury bills and bank and corporate debt securities for the Group by external rating bands.

	The Group						
Analysed by external ratings	Singapore Government securities	Other government securities and	Bank and corporate debt				
Analysed by external ratings	and treasury bills	treasury bills	securities				
In \$ millions	(Gross)	(Gross)	(Gross)				
2019							
AAA	13,650	10,303	20,272				
AA- to AA+	-	11,474	4,545				
A- to A+	-	8,987	5,773				
Lower than A-	-	5,317	6,473				
Unrated	-	-	16,788				
Total	13,650	36,081	53,851				
2018							
AAA	14,114	8,232	21,074				
AA- to AA+	-	11,075	4,245				
A- to A+	-	9,431	7,296				
Lower than A-	-	4,427	4,898				
Unrated	-	-	13,112				
Total	14,114	33,165	50,625				

## 41.4 Credit risk by geography and industry

				The Group		
Analysed by geography <sup>(a)</sup>	Government securities	Due from		Bank and corporate debt securities	Loans and advances to	
In \$ millions	and treasury bills (Gross)	banks (Gross)	Derivatives	(Gross)	customers (Gross)	Total
2019						
Singapore	13,650	704	1,755	16,577	168,704	201,390
Hong Kong	4,185	523	800	1,512	55,062	62,082
Rest of Greater China	3,458	19,334	2,035	3,743	53,009	81,579
South and Southeast Asia	5,469	4,107	1,243	5,030	29,438	45,287
Rest of the World	22,969	14,639	11,417	26,989	56,214	132,228
Total	49,731	39,307	17,250	53,851	362,427	522,566
2018						
Singapore	14,114	610	1,691	16,214	163,449	196,078
Hong Kong	4,916	1,402	833	1,351	54,333	62,835
Rest of Greater China	3,367	18,443	3,032	4,674	50,925	80,441
South and Southeast Asia	4,484	4,408	1,719	5,206	28,377	44,194
Rest of the World	20,398	15,301	9,767	23,180	52,561	121,207
Total	47,279	40,164	17,042	50,625	349,645	504,755

<sup>(</sup>a) Based on the location of incorporation of the issuer (for debt securities), counterparty (for derivatives), borrower (for loans) or the issuing bank in the case of bank backed export financing.

				The Group		
Analysed by industry In \$ millions	Government securities and treasury bills (Gross)	Due from banks (Gross)	Derivatives	Bank and corporate debt securities (Gross)	Loans and advances to customers (Gross)	Total
2019						
Manufacturing	_	_	308	2,459	37,635	40,402
Building and construction	_	_	492	5,710	85,144	91,346
Housing loans	-	_	-	-	73,606	73,606
General commerce	-	-	110	1,389	45,664	47,163
Transportation, storage and				,	•	•
communications	-	-	343	4,537	31,574	36,454
Financial institutions,						
investment						
and holding companies		39,307	14,580	23,502	24,660	102,049
Government	49,731	-	-	-	- · · · · ·	49,731
Professionals and private	-	-	459	-	34,121	34,580
individuals (excluding						
housing loans) Others		_	958	16,254	30,023	47,235
Total	49.731	39,307	17.250	53,851	362,427	522,566
Total	43,731	33,301	17,230	33,031	302,421	322,300
2018						
Manufacturing	-	_	307	2.586	36.868	39,761
Building and construction	-	_	355	4,359	76,532	81,246
Housing loans	-	_	-	-	75,011	75,011
General commerce	-	_	139	1,199	47,470	48,808
Transportation, storage and	-	-	462	3,849	30,549	34,860
communications						
Financial institutions,	-	40,164	14,652	26,667	25,022	106,505
investment						
and holding companies						
Government	47,279	-	-	-	-	47,279
Professionals and private	-	-	671	-	30,590	31,261
individuals (excluding						
housing loans) Others			456	11,965	27,603	40,024
Total	47,279	40,164	17,042	50,625	349,645	504,755
Total	41,219	40,104	17,042	50,025	343,043	304,733

## 42. Market Risk

The Group's exposure to market risk is categorised into:

- Trading portfolios: Arising from positions taken for (i) market-making, (ii) client-facilitation, and (iii) benefiting from market opportunities.
- Non-trading portfolios: Arising from (i) positions taken
  to manage the interest rate risk of the Group's
  Institutional Banking and Consumer Banking assets
  and liabilities, (ii) debt securities and equities
  comprising investments held for yield and/or longterm capital gains, (iii) strategic stakes in entities, and
  (iv) structural foreign exchange risk arising mainly
  from the Group's strategic investments, which are
  denominated in currencies other than the Singapore
  Dollar.

The Group uses a variety of financial derivatives such as swaps, forwards and futures, and options for trading and hedging against market movements.

#### Market Risk Management

The Group's approach to market risk management comprises the following building blocks:

#### Policies

The Group Market Risk Management Policy sets the Group's overall approach towards market risk management. This policy is supplemented with standards and guidelines, which facilitate the identification, measurement, control, monitoring and reporting of market risk in a consistent manner. They also set out the overall approach, requirements and controls governing market risk stress testing across the Group.

The criteria for determining the positions to be included in the trading book are stipulated in the Trading Book Policy Statement.

## Risk Methodologies

The Group utilises Value-at-Risk (VaR), a statistical risk measure, to estimate the potential loss from market movements. This measure uses historical simulation based on data for the previous 12 months. It assumes that historical changes in market values reflect the distribution of potential outcomes in the immediate future.

The Group limits and monitors market risk exposures using Expected Shortfall (ES) that is VaR calculated with a one-day holding period and an expected tailloss methodology which approximates a 97.5% confidence interval.

The market risk economic capital that is allocated by the BRMC is linked to ES by a multiplier. ES is supplemented with risk control metrics such as sensitivities to risk factors and loss triggers for management action.

The Group conducts backtesting to verify the predictiveness of the VaR model. Backtesting compares VaR calculated for positions at the close of each business day with the profit and loss (P&L) that arises from those positions on the following business day. The backtesting P&L excludes fees and commissions, revenues from intraday trading, non-daily valuation adjustments and time effects.

For backtesting, VaR at the 99% confidence interval and over a one-day holding period is used. The Group adopts the standardised approach to compute market risk regulatory capital under MAS Notice 637 for the trading book positions. As such, VaR backtesting does not impact the Group's regulatory capital for market risk.

There are limitations to VaR models; for example, past changes in market risk factors may not provide accurate predictions of future market movements, and the risk arising from adverse market events may be understated.

To monitor the Group's vulnerability to unexpected but plausible extreme market risk-related events, it conducts multiple market risk stress tests regularly. These cover trading and non-trading portfolios and follow a combination of historical and hypothetical scenarios depicting risk-factor movement.

ES and Net Interest Income (NII) variability are the key risk metrics used to manage the Group's assets and liabilities. As an exception, credit risk arising from loans and receivables is managed under the credit risk management framework. Interest rate risk in the banking book arises from mismatches in the interest rate profiles of assets, liabilities and capital instruments. It includes basis risk arising from different interest rate benchmarks, interest rate repricing risk and yield curve risk. Behavioural assumptions are applied when managing the interest rate risk of non-maturity deposits.

The Group measures interest rate risk in the banking book on a weekly basis.

## · Processes, Systems and Reports

Robust internal control processes and systems have been designed and implemented to support the Group's market risk management approach. The Group reviews these control processes and systems regularly, and these reviews allow senior management to assess their effectiveness.

The RMG Market and Liquidity Risk unit – an independent market risk management function reporting to the CRO – monitors, controls and analyses the Group's market risk daily. The unit comprises risk control, risk analytics, production and reporting teams.

#### **Market Risk**

The main risk factors driving the Group's trading portfolios in 2019 were interest rates, foreign exchange, equities and credit spreads. The following table shows the period-end, average, high and low diversified ES and ES by risk class for the Group's trading portfolios.

		The Group		
		1 Jan 2019 to 31 Dec 20	019	
In \$ millions	As at 31 Dec 2019	Average	High	Low
Diversified	10	9	14	6
Interest Rates	11	9	16	6
Foreign Exchange	4	4	7	2
Equity	1	1	6	#
Credit Spread	5	6	9	4
Commodity	#	#	#	#

#### 1 Jan 2018 to 31 Dec 2018

In \$ millions	As at 31 Dec 2018	Average	High	Low
Diversified	14	11	19	8
Interest Rates	11	10	21	8
Foreign Exchange	4	3	6	2
Equity	6	2	6	#
Credit Spread	6	5	6	4
Commodity	#	#	1	#

<sup>#</sup> Amount under \$500,000

The Group's trading portfolios experienced four backtesting exceptions in 2019 and they occurred in August, September and December. The backtesting exceptions were largely due to swings in USD interest rate volatilities, bond prices and HK Dollar foreign exchange rates.

In 2019, the key market risk drivers of the Group's non-trading portfolios were interest rates (Singapore Dollar and US Dollar) and foreign exchange.

The Net Interest Income (NII) of the non-trading book is assessed under various rate scenarios to determine the impact of interest rate movements on future earnings. Based on a 100 basis points parallel upward or downward shift in yield curves on the Group's non-trading exposures, NII is estimated to increase by \$850 million and decrease by \$1,273 million respectively.

Foreign exchange risk in the Group's non-trading portfolios was primarily from structural foreign exchange positions, arising mainly from the Group's strategic investments and retained earnings in overseas branches and subsidiaries.

Please refer to Note 36.3 for more information on the Group's structural foreign exchange positions.

## 43. Liquidity Risk

The Group's liquidity risk arises from its obligations to honour withdrawals of deposits, repayments of borrowed funds at maturity, and its commitments to extend loans to its customers. The Group seeks to manage its liquidity to ensure that its liquidity obligations will continue to be honoured under normal as well as adverse circumstances.

#### Liquidity Risk Management

#### Liquidity Management and Funding Strategy

The Group strives to develop a diversified funding base with access to funding sources across retail and wholesale channels. The Group's funding strategy is anchored on the strength of its core deposit franchise and is augmented by its established long-term funding capabilities.

Growth in the regional franchise generates price, volume, currency and tenor mismatches between the Group's assets and liabilities. To this end, where practicable and transferable without loss in value, the Group makes appropriate use of the swap markets for relevant currencies, commensurate with the liquidity of each, in the conversion and deployment of surplus funds across locations.

As these swaps typically mature earlier than loans, the Group is exposed to potential cash flow mismatches arising from the risk that counterparties may not roll over maturing swaps to support the Group's ongoing funding needs. This risk is mitigated by triggers set on the number of swaps transacted with the market and by conservative assumptions on the cash flow behaviour of swaps under its cash flow maturity gap analysis.

In general, the bulk of borrowing and deployment needs of the Group's overseas locations are centralised within the head office, subject to relevant regulatory restrictions and to an appropriate level of presence and participation required by the respective local funding markets.

During the annual budget and planning process, each overseas location conducts an in-depth review of its projected loan and deposit growth as well as its net funding and liquidity profile for the next year. This enables the Group and its overseas locations to ascertain and plan for the required group funding support, subject to internal and regulatory constraints.

The Group Assets and Liabilities Committee and respective Location Assets and Liabilities Committees regularly review the composition and growth trajectories of the relevant balance sheets and refine the Group's funding strategy according to business momentum, competitive factors and prevailing market conditions.

#### Approach to Liquidity Risk Management

The Group's approach to liquidity risk management comprises the following building blocks:

#### Policies

The Group Liquidity Risk Management Policy sets its overall approach towards liquidity risk management and describes the range of strategies the Group employs to manage its liquidity.

These strategies include maintaining an adequate counterbalancing capacity to address potential cash flow shortfalls and having diversified sources of liquidity.

The Group's counterbalancing capacity includes liquid assets, the capacity to borrow from the money markets (including the issuance of commercial papers and covered bonds), and forms of managerial interventions that improve liquidity. In the event of a potential or actual crisis, the Group has in place a set of liquidity contingency and recovery plans to ensure that it maintains adequate liquidity.

The Group Liquidity Risk Management Policy is supported by Standards that establish the detailed requirements for liquidity risk identification, measurement, reporting and control within the Group. The set of Policies, Standards and supporting Guides communicate these baseline requirements to ensure consistent application throughout the Group.

#### Risk Methodologies

The primary measure used to manage liquidity within the tolerance defined by the Board is cash flow maturity mismatch analysis.

This form of analysis is performed on a regular basis under normal and adverse scenarios. It assesses the adequacy of the Group's counterbalancing capacity to fund or mitigate any cash flow shortfalls that may occur as forecasted in the cash flow movements across successive time bands. To ensure that liquidity is managed in line with the Group's Risk Appetite, core parameters such as the types of scenarios, the survival period and the minimum level of liquid assets, are pre-specified for monitoring and control on a group-wide basis. Any occurrences of forecasted shortfalls that cannot be covered by the Group's counterbalancing capacity will be escalated to the relevant committees for evaluation and action.

Liquidity risk stress testing is performed regularly using cash flow maturity mismatch analysis, and covers adverse scenarios including general market and idiosyncratic stress scenarios. Stress tests assess the Group's vulnerability when liability run-offs increase, asset rollovers increase and/or liquid asset buffers decrease. In addition, ad hoc stress tests are performed as part of the Group's recovery planning and ICAAP exercises.

Liquidity risk control measures such as liquidityrelated ratios and balance sheet analysis are complementary tools for cash flow maturity mismatch analysis, and they are performed regularly to obtain deeper insights and finer control over the Group's liquidity profile across different locations. The liquidity risk control measures also include concentration measures regarding top depositors, wholesale borrowing and swapped funds ratios.

#### · Processes, systems and reports

Robust internal control processes and systems support the Group's overall approach in identifying, measuring, aggregating, controlling and monitoring liquidity risk across the Group.

Continuous improvement in data and reporting platforms has allowed most elements of internal liquidity risk reporting to be centralised.

The RMG Market and Liquidity Risk unit manages the day-to-day liquidity risk monitoring, control reporting and analysis.

#### Liquidity risk in 2019

The Group actively monitors and manages its liquidity profile through cash flow maturity mismatch analysis.

In forecasting cash flow under the analysis, behavioural profiling is necessary in cases where a product has indeterminate maturity or the contractual maturity does not realistically reflect the expected cash flow.

Two examples are maturity-indeterminate savings and current account deposits, which are generally viewed as sources of stable funding for commercial banks. In fact, they consistently exhibit stability even under historic periods of stress. A conservative view is adopted in the behavioural profiling of assets, liabilities and off-balance sheet commitments that have exhibited cash flow patterns that differ significantly from the contractual maturity profile shown under Note 43.1.

#### 43.1 Contractual maturity profile of assets and liabilities

The table below analyses assets and liabilities of the Group as at 31 December based on the remaining period as at balance sheet date to the contractual maturity date.

The Organia		4							
The Group	Less than 7	1 week	1 to 3	3 to 12	1 40 2	2 40 E	More	No	
In \$ millions		to 1 month	months	months	1 to 3	3 to 5	than 5	specific maturity	Total
2019	days	monun	monus	monus	years	years	years	maturity	TOTAL
Cash and balances with	14,867	5,262	3,874	1,764	593		_		26,360
	14,007	3,262	3,074	1,704	393	-	-	-	20,300
central banks	960	2 200	A EE1	4 700	9 605	10 265	17 000		40 720
Government securities and	960	3,280	4,551	4,790	8,695	10,365	17,088	-	49,729
treasury bills	45.050	2 022	4.070	44.000	404	400	04.4		20.200
Due from banks	15,353	3,033	4,972	14,838	481	409	214	-	39,300
Derivatives <sup>(a)</sup>	17,250						-		17,250
Bank and corporate securities	16	572	1,986	9,442	20,721	8,855	12,234	9,920	63,746
Loans and advances to	28,574	59,955	36,806	46,205	71,113	44,060	71,171	-	357,884
customers									
Other assets	8,723	1,256	1,759	2,374	111	33	18	1,149	15,423
Associates	-	-	-	-	-	-	-	835	835
Properties and other fixed	-	-	-	-	-	-	-	3,225	3,225
assets									
Goodwill and intangibles	-	-	-	-	-	-	-	5,170	5,170
Total assets	85,743	73,358	53,948	79,413	101,714	63,722	100,725	20,299	578,922
Due to banks	12,659	5,953	4,081	337	441	302	-		23,773
Deposits and balances	269,142	47,108	55,002	30,501	1,434	156	946	_	404,289
from customers	,	,	,	,	, -				,
Derivatives <sup>(a)</sup>	17,633								17,633
Other liabilities	9,496	1,518	2,390	2,550	480	321	884	3,204	20,843
Other debt securities	425	5,943	11,033	22,672	4,986	2,388	4,199	1,664	53,310
Due to holding company	1,119	-	7	14	-,,,,,	_,000	4,823		5,963
Total liabilities	310,474	60,522	72,513	56,074	7,341	3,167	10,852	4,868	525,811
	310,474	00,322	12,313	30,074	7,341	3,107	10,032	· · · · · · · · · · · · · · · · · · ·	
Non-controlling interests								960	960 52,151
Shareholders' funds								52,151 53.111	
Total equity								53,111	53,111
2242									
2018									
Cash and balances with	13,745	1,262	5,313	1,325	539	-	-	-	22,184
central banks									
Government securities and	830	2,040	3,695	8,778	7,448	10,900	13,587	-	47,278
treasury bills									
Due from banks	15,454	4,903	5,218	12,983	581	1,015	=	=	40,154
Derivatives <sup>(a)</sup>	17,042	-	-	-	-	-	=	-	17,042
Bank and corporate securities	65	503	2 0 4 2						
Loans and advances to			2,813	6,423	20,577	12,040	8,167	7,609	58,197
	29,658	55,685	34,803	6,423 42,147	20,577 67,385	12,040 41,553	8,167 73,772	7,609 -	58,197 345,003
customers	•		,		,		,	,	
	29,658 6,521		,		,		,	,	
customers	•	55,685	34,803	42,147	67,385	41,553	73,772	, <u>-</u>	345,003 13,417
customers Other assets	•	55,685	34,803	42,147	67,385	41,553	73,772	888	345,003
customers Other assets Associates	•	55,685	34,803	42,147	67,385	41,553	73,772	888 838	345,003 13,417 838
customers Other assets Associates Properties and other fixed assets	•	55,685	34,803	42,147	67,385	41,553	73,772	888 838 1,450	345,003 13,417 838 1,450
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles	6,521 - - -	55,685 1,413 - -	34,803 1,590 - -	42,147 2,839 - -	67,385 130 - -	41,553 10 - -	73,772 26 - -	888 838 1,450 5,175	345,003 13,417 838 1,450 5,175
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets	6,521 - - - 83,315	55,685 1,413 - - - 65,806	34,803 1,590 - - 53,432	42,147 2,839 - - - 74,495	67,385 130 - - 96,660	41,553 10 - - - 65,518	73,772	888 838 1,450	345,003 13,417 838 1,450 5,175 550,738
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks	6,521 - - 83,315 11,014	55,685 1,413 - - - 65,806 6,217	34,803 1,590 - - 53,432 2,962	42,147 2,839 - - - - - - - - - - - - - - - - - - -	67,385 130 - - - 96,660 174	41,553 10 - - - 65,518 664	73,772 26 - - - 95,552	888 838 1,450 5,175	345,003 13,417 838 1,450 5,175 550,738 22,648
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances	6,521 - - - 83,315	55,685 1,413 - - - 65,806	34,803 1,590 - - 53,432	42,147 2,839 - - - 74,495	67,385 130 - - 96,660	41,553 10 - - - 65,518	73,772 26 - -	888 838 1,450 5,175	345,003 13,417 838 1,450 5,175 550,738
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers	6,521 - - 83,315 11,014 262,137	55,685 1,413 - - - 65,806 6,217	34,803 1,590 - - 53,432 2,962	42,147 2,839 - - - - - - - - - - - - - - - - - - -	67,385 130 - - - 96,660 174	41,553 10 - - - 65,518 664	73,772 26 - - - 95,552	888 838 1,450 5,175	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives(a)	6,521 - - 83,315 11,014 262,137 16,741	55,685 1,413 - - - 65,806 6,217 47,670	34,803 1,590 - - 53,432 2,962 49,165	42,147 2,839 - - - 74,495 1,617 31,514	96,660 174 2,428	41,553 10 - - - 65,518 664 162	73,772 26 - - - 95,552 709	888 838 1,450 5,175 15,960	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives <sup>(a)</sup> Other liabilities	83,315 11,014 262,137 16,741 8,619	55,685 1,413 - - 65,806 6,217 47,670 - 1,614	34,803 1,590 - - - - - - - - - - - - - - - - - - -	42,147 2,839 - - 74,495 1,617 31,514	96,660 174 2,428	41,553 10 - - - 65,518 664 162	73,772 26 - - - 95,552 709 - 9	888 838 1,450 5,175	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives(a) Other liabilities Other debt securities	6,521 - - 83,315 11,014 262,137 16,741 8,619 456	55,685 1,413 - - - 65,806 6,217 47,670	34,803 1,590 - - 53,432 2,962 49,165 - 2,183 13,066	42,147 2,839 - - 74,495 1,617 31,514 3,095 9,976	96,660 174 2,428	41,553 10 - - - 65,518 664 162 - 4 79	73,772  26  -  95,552  709  -  9,156	888 838 1,450 5,175 15,960	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377 41,571
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives(a) Other liabilities Other debt securities Due to holding company	6,521 - - 83,315 11,014 262,137 16,741 8,619 456 1,786	55,685 1,413 - - 65,806 6,217 47,670 - 1,614 6,672	34,803 1,590 - 53,432 2,962 49,165 - 2,183 13,066 9	2,839 - - 74,495 1,617 31,514 - 3,095 9,976 6	96,660 174 2,428 - 57 6,166	41,553 10 - - 65,518 664 162 - 4 79	73,772  26  -  95,552  709  5,156 4,915	888 838 1,450 5,175 15,960	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377 41,571 6,716
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives(a) Other liabilities Other debt securities Due to holding company Total liabilities	6,521 - - 83,315 11,014 262,137 16,741 8,619 456	55,685 1,413 - - 65,806 6,217 47,670 - 1,614	34,803 1,590 - - 53,432 2,962 49,165 - 2,183 13,066	42,147 2,839 - - 74,495 1,617 31,514 3,095 9,976	96,660 174 2,428	41,553 10 - - - 65,518 664 162 - 4 79	73,772  26  -  95,552  709  -  9,156	888 838 1,450 5,175 15,960 - - 2,796	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377 41,571 6,716 499,838
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances from customers Derivatives(a) Other liabilities Other debt securities Due to holding company Total liabilities Non-controlling interests	6,521 - - 83,315 11,014 262,137 16,741 8,619 456 1,786	55,685 1,413 - - 65,806 6,217 47,670 - 1,614 6,672	34,803 1,590 - 53,432 2,962 49,165 - 2,183 13,066 9	2,839 - - 74,495 1,617 31,514 - 3,095 9,976 6	96,660 174 2,428 - 57 6,166	41,553 10 - - 65,518 664 162 - 4 79	73,772  26  -  95,552  709  5,156 4,915	888 838 1,450 5,175 15,960	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377 41,571 6,716 499,838 970
customers Other assets Associates Properties and other fixed assets Goodwill and intangibles Total assets Due to banks Deposits and balances	6,521 - - 83,315 11,014 262,137 16,741 8,619 456 1,786 300,753	55,685 1,413 - - 65,806 6,217 47,670 - 1,614 6,672	34,803 1,590 - 53,432 2,962 49,165 - 2,183 13,066 9	2,839 - - 74,495 1,617 31,514 - 3,095 9,976 6	96,660 174 2,428 - 57 6,166	41,553 10 - - 65,518 664 162 - 4 79 - 909	73,772  26  -  95,552  709  5,156 4,915	888 838 1,450 5,175 15,960 - - 2,796	345,003 13,417 838 1,450 5,175 550,738 22,648 393,785 16,741 18,377

<sup>(</sup>a) Derivative financial assets and liabilities are included in the "Less than 7 days" bucket as they are mainly held for trading. Please refer to the tables in Note 36 for the maturity profile of hedging derivatives

The above table includes disclosure of the contractual maturity of financial liabilities, which approximates the same analysis on an undiscounted basis, as total future interest payments are not material relative to the principal amounts. Assets and liabilities (including non-maturing savings/current deposits) are represented on a contractual basis or in a period when it can legally be withdrawn. The cash flows of assets and liabilities may behave differently from their contractual terms.

#### 43.2 Contingent liabilities and commitments

The table below shows the Group's contingent liabilities and commitments based on the remaining period as at the balance sheet date to contractual expiry date.

	The Group				
In \$ millions	Less than 1 year	1 to 3 years	3 to 5 years	Over 5 years	Total
2019					
Guarantees, endorsements and other contingent liabilities	28,267	-	-	-	28,267
Undrawn credit commitments(a) and other facilities	264,138	14,845	16,066	2,852	297,901
Capital commitments	29	8			37
Total	292,434	14,853	16,066	2,852	326,205
2018					
Guarantees, endorsements and other contingent liabilities	24,603	-	-	-	24,603
Undrawn credit commitments(a) and other facilities	241,895	14,759	13,263	2,576	272,493
Operating lease commitments	262	336	60	14	672
Capital commitments	73	8	-	-	81
Total	266,833	15,103	13,323	2,590	297,849

<sup>(</sup>a) Includes commitments that are unconditionally cancellable at any time by the Group

The Group expects that not all of the contingent liabilities will be called upon and not all of the undrawn credit commitments will be drawn before expiry.

### 44. Operational Risk

Operational risk is inherent in the Group's business activities and it may arise from inadequate or failed internal processes, people, systems, or from external events.

The Group's objective is to keep operational risk at appropriate levels, taking into account the markets it operates in, the characteristics of the businesses as well as its economic and regulatory environment.

#### **Operational Risk Management**

The Group's approach to operational risk management comprises the following building blocks:

#### Policies

The Group Operational Risk Management (ORM) Policy sets its overall approach for managing operational risk in a structured, systematic and consistent manner.

There are policies, standards, tools and programmes in place to govern ORM practices across the Group. These include corporate operational risk policies and standards that are owned by the respective corporate oversight and control functions. The key policies address risk areas relating to technology, compliance, fraud, money laundering, financing of terrorism and sanctions, new product and outsourcing.

## Risk Methodologies

The Group adopts the standardised approach to compute operational risk regulatory capital.

To manage and control operational risk, the Group uses various tools, including risk and control self-

assessment, operational risk event management and key risk indicator monitoring.

The Group's three lines of defence adopt one common risk taxonomy, and a consistent risk assessment approach to manage operational risk. Risk and control self-assessment is conducted by each business or support unit to identify key operational risk and assess the effectiveness of internal controls. When control issues are identified, the units develop action plans and track the resolution of the issues.

Operational risk events are classified in accordance with Basel standards. Such events, including any significant incidents that may impact the Group's reputation, must be reported based on certain established thresholds. Key risk indicators with pre-defined escalation triggers are employed to facilitate risk monitoring in a forward-looking manner.

Additional methodologies are in place to address subject-specific risks, including, but not limited to, the following:

#### Technology risk

Information Technology (IT) risk is managed through an enterprise technology risk management approach. This covers risk identification, assessment, mitigation, monitoring and reporting. In addition, the appropriate governance, IT policies and standards, control processes and risk mitigation programmes are in place to support the risk management approach.

## Cybersecurity risk

Similar to IT risk, cybersecurity risk is managed through the same enterprise risk management approach, which cuts across all lines of business.

The Chief Information Security Officer (CISO) oversees the cybersecurity function and the one-stop competency centre for all cybersecurity related matters, such as operational risks and data protection / data privacy risks.

#### Compliance risk

Compliance risk refers to the risk of the Group not being able to successfully conduct its business because of any failure to comply with laws, regulatory requirements, industry codes or standards of business and professional conduct applicable to the financial sector.

This includes, in particular, laws and regulations applicable to the licensing and conducting of banking or other financial businesses, financial crime such as anti-money laundering and countering the financing of terrorism, fraud and bribery/corruption. The Group maintains a compliance programme designed to identify, assess, measure, mitigate and report on such risks through a combination of policy and relevant systems and controls.

To counter financial crime and sanctions risks, the Group established minimum standards for the Group's business and support units to manage the Group's actual and/or potential risk exposures. In addition, standards aimed to provide the end-to-end management for fraud and related issues at the unit and geographical levels, were implemented through the Fraud Management Programme.

The Group also provides relevant training and implements assurance processes. The Group strongly believes in the need to promote a strong compliance culture as well, and this is developed through the leadership of its Board and senior management.

# New product, outsourcing and ecosystem partnership risks

Each new product, service, outsourcing arrangement or ecosystem partnership is subject to a risk review and sign-off process, where relevant risks are identified and assessed.

Variations of existing products or services and existing outsourcing arrangements and ecosystem partnerships are also subject to a similar process.

## Other mitigation programmes

A robust business continuity management programme is in place to ensure that essential banking services can continue in the event of unforeseen events or business disruptions. This includes a crisis management plan to enable quick response to manage incidents. Exercises are conducted annually, simulating different scenarios to test business continuity plans and crisis management protocol. The effectiveness of these exercises as well as the Group's business continuity readiness and its alignment to regulatory guidelines are communicated and attested by senior management to the BRMC annually.

To mitigate losses from specific risk events which are unexpected and significant, the Group purchases group-wide insurance policies under the Group Insurance Programme. These include policies relating to crime and professional indemnity, directors and officers liability, cyber risk, property damage and business interruption, general liability and terrorism.

#### Processes, Systems and Reports

Robust internal control processes and systems are integral to identifying, assessing, monitoring, managing and reporting operational risk.

The Group's units are responsible for the day-to-day management of operational risk in their products, processes, systems and activities, in accordance with the various frameworks and policies. The RMG Operational Risk unit and other corporate oversight and control functions oversee and monitor the effectiveness of operational risk management, assess key operational risk issues with the units, and report and/or escalate key operational risks to risk committees with recommendations on appropriate risk mitigation strategies.

The Group has implemented an integrated governance, risk and compliance system with aligned risk assessment methodology, common taxonomy and unified processes for the three lines of defence.

## 45. Capital Management

The Board is responsible for setting the Group's capital management objective, which is to maintain a strong capital position consistent with regulatory requirements under the MAS Notice 637 and the expectations of various stakeholders, including customers, investors and rating agencies. The Board articulates this objective in the form of capital targets. This objective is pursued while delivering returns to shareholders and ensuring that adequate capital resources are available for business growth and investment opportunities as well as adverse situations, taking into consideration the Group's strategic plans and risk appetite.

The Group's capital management objective is implemented via a capital management and planning process that is overseen by the Capital Committee. The Chief Financial Officer chairs the Capital Committee. The Capital Committee receives regular updates on the Group's current and projected capital position. A key tool for capital planning is the annual Internal Capital Adequacy Assessment Process (ICAAP) through which the Group assesses its forecast capital supply and demand relative to regulatory requirements and internal capital targets. The ICAAP has a three-year horizon and covers various scenarios, including stress scenarios of differing scope and severity.

The Group is subject to and has complied with the capital adequacy requirements set out in the MAS Notice 637, which effects the Basel Committee on Banking Supervision's capital adequacy framework in Singapore, throughout the year. The Group's capital

adequacy ratios as at 31 December 2019 have been subject to an external limited assurance review, pursuant to the MAS Notice 609 "Auditors' Reports and Additional Information to be submitted with Annual Accounts".

## 46. Segment Reporting

#### 46.1 Business segment reporting

The business segment results are prepared based on the Group's internal management reporting which reflects the organisation management structure. As the activities of the Group are highly integrated, internal allocation has been made in preparing the segment information. Amounts for each business segment are shown after the allocation of certain centralised costs, funding income and the application of transfer pricing, where appropriate. Transactions between segments are recorded within the segment as if they are third party transactions and are eliminated on consolidation.

The Group's various business segments are described below.

#### Consumer Banking/ Wealth Management

Consumer Banking/ Wealth Management provides individual customers with a diverse range of banking and related financial services. The products and services available to customers include current and savings accounts, fixed deposits, loans and home finance, cards, payments, investment and insurance products.

### **Institutional Banking**

Institutional Banking provides financial services and products to institutional clients including bank and non-bank financial institutions, government-linked companies, large corporates and small and mediumsized businesses. The business focuses on broadening and deepening customer relationships. Products and services comprise the full range of credit facilities from short-term working capital financing to specialised lending. It also provides global transactional services such as cash management, trade finance and securities and fiduciary services, treasury and markets products, corporate finance and advisory banking as well as capital markets solutions.

# **Treasury Markets**

Treasury Markets' activities primarily include structuring, market-making and trading across a broad range of treasury products.

Income from sale of treasury products offered to customers of Consumer Banking/Wealth Management and Institutional Banking is not reflected in the Treasury Markets segment, but in the respective customer segments.

#### Others

The Others segment encompasses the results of corporate decisions that are not attributed to business segments. It includes earnings on capital deployed into high quality assets, earnings from non-core asset sales and certain other head office items such as centrally raised allowances. DBS Vickers and the Islamic Bank of Asia are also included in this segment.

The following table analyses the results, total assets and total liabilities of the Group by business segment.

	The Group				
In \$ millions	Consumer Banking/ Wealth Management	Institutional Banking	Treasury Markets	Others	Total
2019					
Net interest income	4,037	4,309	138	1,212	9,696
Net fee and commission income	1,790	1,225	-	38	3,053
Other non-interest income	472	539	794	51	1,856
Total income	6,299	6,073	932	1,301	14,605
Total expenses	3,280	2,015	614	339	6,248
Allowances for credit and other losses	242	327	(5)	139	703
Profit before tax	2,777	3,731	323	823	7,654
Income tax expense					1,153
Net profit attributable to shareholders					6,471
Total assets before goodwill and					
intangibles	117,088	278,336	105,538	72,790	573,752
Goodwill and intangibles					5,170
Total assets					578,922
Total liabilities	223,574	195,114	50,815	56,308	525,811
Capital expanditure	447			405	500
Capital expenditure	117	30	14	425	586
Depreciation	44	12	3	550	609
2018					
Net interest income	3,596	4,116	319	984	9,015
Net fee and commission income	1,627	1,125	=	36	2,788
Other non-interest income	430	519	353	142	1,444
Total income	5,653	5,760	672	1,162	13,247
Total expenses	3,039	1,839	602	319	5,799
Allowances for credit and other losses	228	550	(20)	(48)	710
Profit before tax	2,386	3,371	90	891	6,738
Income tax expense					1,014
Net profit attributable to shareholders					5,656
Total assets before goodwill and					
intangibles	115,470	263,125	108,646	58,322	545,563
Goodwill and intangibles					5,175
Total assets					550,738
Total liabilities	212,853	191,287	47,641	48,057	499,838
Capital expenditure	106	16	10	401	533
Depreciation	46	10	3	272	331
Dehierianni	46	10	ა	212	33

### 46.2 Geographical segment reporting

The performance by geography is classified based on the location in which income and assets are recorded. Hong Kong comprises mainly DBS Bank (HK) Limited and DBS HK branch. Rest of Greater China comprises mainly DBS Bank (China) Ltd, DBS Bank (Taiwan) Ltd and DBS Taipei branch. South and Southeast Asia comprises mainly PT Bank DBS Indonesia, DBS Bank India Limited (DBS India branches previously) and DBS Labuan branch. All results are prepared in accordance with SFRS(I).

			The Gro	up		
			Rest of	South and	Dari at th	
In \$ millions	Singapore	Hong Kong	Greater China	Southeast Asia	Rest of the World	Total
2019	ogapo.o	nong nong	- Cimia	71014	770114	· ota
Net interest income	6,211	2,012	597	604	272	9,696
Net fee and commission income	1,901	667	194	227	64	3,053
Other non-interest income	1,135	250	267	138	66	1,856
Total income	9,247	2,929	1,058	969	402	14,605
Total expenses	3,628	1,109	740	667	104	6,248
Allowances for credit and other losses	225	102	49	292	35	703
Profit before tax	5,394	1,718	269	10	263	7,654
Income tax expense	694	290	59	33	77	1,153
Net profit attributable to shareholders	4,669	1,428	210	(22)	186	6,471
Total assets before goodwill and intangibles	375,296	91,608	50,292	21,690	34,866	573,752
Goodwill and intangibles	5,133	29	-	8	-	5,170
Total assets	380,429	91,637	50,292	21,698	34,866	578,922
Non-current assets <sup>(a)</sup>	2,650	751	331	318	10	4,060
2018						
Net interest income	5,724	1,830	675	530	256	9,015
Net fee and commission income	1,730	617	175	206	60	2,788
Other non-interest income	784	294	270	56	40	1,444
Total income	8,238	2,741	1,120	792	356	13,247
Total expenses	3,338	1,057	725	573	106	5,799
Allowances for credit and other losses	408	72	44	183	3	710
Profit before tax	4,492	1,612	351	36	247	6,738
Income tax expense	582	251	81	35	65	1,014
Net profit attributable to shareholders	3,842	1,361	270	1	182	5,656
Total assets before goodwill and intangibles	349,928	90,523	51,283	23,612	30,217	545,563
Goodwill and intangibles	5,137	30	-	8	-	5,175
Total assets	355,065	90,553	51,283	23,620	30,217	550,738
Non-current assets(a)	1,633	362	145	144	4	2,288

<sup>(</sup>a) Includes investments in associates, properties and other fixed assets

## DBS Bank Ltd. and its subsidiaries

#### **Directors' Statement**

for the financial year ended 31 December 2019

The Directors are pleased to present their statement to the Member, together with the audited consolidated financial statements of DBS Bank Ltd. (the Bank) and its subsidiaries (the Bank Group) and the financial statements of the Bank for the financial year ended 31 December 2019. These have been prepared in accordance with the provisions of the Companies Act, Chapter 50 (the Companies Act) and the Singapore Financial Reporting Standards (International).

In the opinion of the Directors:

- (a) the consolidated financial statements of the Bank Group, consisting of the Bank and its subsidiaries, and the financial statements of the Bank, together with the notes thereon, as set out on pages 1 to 84, are drawn up so as to give a true and fair view of the financial position of the Bank and Bank Group, as at 31 December 2019, and the performance and changes in equity of the Bank and Bank Group, and cash flow statement of the Bank Group for the financial year ended on that date; and
- (b) as at the date of this statement, there are reasonable grounds to believe that the Bank and the Bank Group will be able to pay their debts as and when they fall due.

#### **Board of Directors**

The Directors in office at the date of this statement are:

Mr Peter Seah (Chairman)
Mr Piyush Gupta (Chief Executive Officer)
Dr Bonghan Cho
Ms Euleen Goh
Mr Ho Tian Yee (Lead Independent Director)
Mr Olivier Lim
Mr Nihal Kaviratne
Mr Andre Sekulic
Mr Danny Teoh

Mr Tham Sai Choy

Mrs Ow Foong Pheng

Mr Peter Seah, Mr Ho Tian Yee, Mr Olivier Lim and Mrs Ow Foong Pheng will retire by rotation in accordance with Article 95 of the Bank's Constitution at the forthcoming annual general meeting (AGM) and, being eligible, will offer themselves for re-election at the AGM.

#### Directors' interests in shares or debentures

Each of the following Directors, who held office at the end of the financial year had, according to the register of directors' shareholdings required to be kept under Section 164 of the Companies Act, an interest in shares of the Bank and related corporations as stated below:

	Holdings in which Directors have a direct interest		Holdings in which Directors are deemed to have an interest	
	As at As at		As at	As at
	31 Dec 2019	1 Jan 2019	31 Dec 2019	1 Jan 2019
DBS Group Holdings Ltd ("DBSH") ordinary shares				
Mr Peter Seah	242,127	220,661	-	-
Mr Piyush Gupta	1,522,502	1,169,560	318,000	318,000
Dr Bonghan Cho	1,930	-	-	-
Ms Euleen Goh	58,703	54,414	-	=
Mr Ho Tian Yee	48,140	44,229	-	-
Mr Olivier Lim	67,281	38,299	-	=
Mr Nihal Kaviratne	3,690	33,768	-	=
Mr Andre Sekulic	27,956	24,575	-	-
Mr Danny Teoh	45,589	41,726	19,099	19,099
Mr Tham Sai Choy	89,188	88,000	-	-
Mrs Ow Foong Pheng	25,839	25,839	-	-
Share awards (unvested) granted under the DBSH Share Plan				
Mr Piyush Gupta <sup>(1)</sup>	1,036,485	1,000,845	-	-
DBS Bank 4.7% non-cumulative non-convertible redeemable perpetual preference shares				
Ms Euleen Goh	3,000	3,000	_	_

<sup>(1)</sup> Mr Piyush Gupta's share awards form part of his remuneration. Details of the DBSH Share Plan are set out in Note 37 of the Notes to the 2019 Bank Group's financial statements.

There was no change in any of the above-mentioned interests between the end of the financial year and 21 January 2020.

#### **DBSH Share Plan**

At the Annual General Meeting of DBSH held on 25 April 2019, the DBSH Share Plan (which was first adopted on 18 September 1999) was extended for another ten years, from 18 September 2019 to 17 September 2029 (both dates inclusive). The DBSH Share Plan is administered by the Compensation and Management Development Committee (CMDC). As at the date of this statement, the members of the CMDC are Mr Andre Sekulic (Chairman), Mr Peter Seah, Ms Euleen Goh, Mr Olivier Lim and Mr Nihal Kaviratne.

Under the terms of the DBSH Share Plan:

- (a) Awards over DBSH's ordinary shares may be granted to Bank Group executives who hold such rank as may be determined by the CMDC from time to time. Awards may also be granted to (amongst others) executives of associated companies of the Bank who hold such rank as may be determined by the CMDC from time to time, and non-executive Directors of DBSH;
- (b) Where time-based awards are granted, participants are awarded ordinary shares of DBSH or, at the CMDC's discretion, their equivalent cash value or a combination of both as part of their deferred bonus, at the end of the prescribed vesting periods. Awards are granted under the DBSH Share Plan at the absolute discretion of the CMDC. Dividends on unvested shares do not accrue to employees;
- (c) Awards under the DBSH Share Plan may be granted at any time in the course of a financial year, and may lapse by reason of cessation of employment or misconduct of the participant, except in cases such as retirement, redundancy, ill health, injury, disability, death, bankruptcy of the participant, or by reason of the participant, being a non-executive Director, ceasing to be a Director, or in the event of a take-over, winding up or reconstruction of DBSH;
- (d) Subject to the prevailing legislation and the rules of the Singapore Exchange, DBSH will have the flexibility to deliver ordinary shares of DBSH to participants upon vesting of their awards by way of an issue of new ordinary shares and/ or the transfer of existing ordinary shares (which may include ordinary shares held by DBSH in treasury); and
- (e) The class and/ or number of ordinary shares of DBSH comprised in an award to the extent not yet vested, and/ or which may be granted to participants, are subject to adjustment by reason of any variation in the ordinary share capital of DBSH (whether by way of a capitalisation of profits or reserves or rights issue, reduction, subdivision, consolidation, or distribution) or if DBSH makes a capital distribution or a declaration of a special dividend (whether in cash or in specie), upon the written confirmation of the auditor of DBSH that such adjustment (other than in the case of a capitalisation issue) is fair and reasonable.

During the financial year, time-based awards in respect of an aggregate of 6,287,763 ordinary shares were granted pursuant to the DBSH Share Plan to selected employees of the Bank Group. In addition, during the financial year, certain non-executive Directors received an aggregate of 46,232 share awards which vested immediately upon grant. These share awards formed part of their directors' fees for acting as Directors of DBSH in 2018.

Details of the share awards granted under the DBSH Share Plan to Directors of the Bank are as follows:

Directors of the Bank	Share awards granted during the financial year under review	Share awards vested during the financial year under review	
Mr Peter Seah	21,466	21,466	
Mr Piyush Gupta	388,582 <sup>(1)</sup>	352,942	
Dr Bonghan Cho	1,930	1,930	
Ms Euleen Goh	4,289	4,289	
Mr Ho Tian Yee	3,911	3,911	
Mr Olivier Lim	2,982	2,982	
Mr Nihal Kaviratne	3,222	3,222	
Mr Andre Sekulic	3,381	3,381	
Mr Danny Teoh	3,863	3,863	
Mr Tham Sai Choy	1,188	1,188	

<sup>(1)</sup> The share awards granted to Mr Piyush Gupta are time-based awards which will vest over a 4-year period. Of the 388,582 share awards: (a) 243,819 were granted in February 2019 and formed part of his remuneration for 2018; (b) 80,000 were granted as a one-time special recognition award in November 2019 in recognition of Mr Gupta's leadership, dedication and contributions to the Group for the past 10 years; and (c) 64,763 are retention shares arising from these grants that will vest at the end of the applicable 4-year period.

## Arrangements to enable Directors to acquire shares or debentures

Neither at the end of, nor at any time during the financial year, was the Bank a party to any arrangement, the object of which is to enable the Directors to acquire benefits through the acquisition of shares in, or debentures of, the Bank or any other body corporate, save as disclosed in this statement.

## **Independent Auditor**

PricewaterhouseCoopers LLP has expressed its willingness to accept re-appointment as independent external auditor.

On behalf of the Directors

Mr Peter Seah

Mr Piyush Gupta

12 February 2020 Singapore

## **Report on the Audit of the Financial Statements**

### Our opinion

In our opinion, the accompanying consolidated financial statements of DBS Bank Ltd. (the "Bank") and its subsidiaries (the "Bank Group") and the balance sheet, income statement, statement of comprehensive income and statement of changes in equity of the Bank are properly drawn up in accordance with the provisions of the Companies Act, Chapter 50 (the "Act") and Singapore Financial Reporting Standards (International) ("SFRS(I)s") so as to give a true and fair view of the consolidated financial position of the Bank Group and the financial position of the Bank as at 31 December 2019 and of the consolidated financial performance, consolidated changes in equity and consolidated cash flows of the Bank Group, and of the financial performance and changes in equity of the Bank for the financial year ended on that date.

#### What we have audited

The financial statements of the Bank Group and the Bank, as set out on pages 1 to 84, comprise:

- the income statements of the Bank Group and the Bank for the year ended 31 December 2019;
- the statements of comprehensive income of the Bank Group and the Bank for the year then ended;
- the balance sheets of the Bank Group and of the Bank as at 31 December 2019;
- the consolidated statement of changes in equity of the Bank Group for the year then ended;
- the statement of changes in equity of the Bank for the year then ended;
- the consolidated cash flow statement of the Bank Group for the year then ended; and
- the notes to the financial statements, including a summary of significant accounting policies.

## **Basis for opinion**

We conducted our audit in accordance with Singapore Standards on Auditing ("SSAs"). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report.

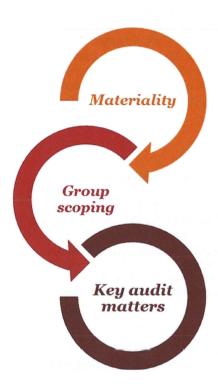
We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

#### Independence

We are independent of the Bank Group in accordance with the Accounting and Corporate Regulatory Authority Code of Professional Conduct and Ethics for Public Accountants and Accounting Entities ("ACRA Code") together with the ethical requirements that are relevant to our audit of the financial statements in Singapore, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ACRA Code.

## Our audit approach

Overview



## Materiality

 We determined the overall Bank Group materiality based on 5% of the Bank Group's profit before tax.

### **Group scoping**

- Full scope audit procedures were performed over the Singapore Operations of DBS Bank Ltd. and DBS Bank (Hong Kong) Limited ("significant components").
- We identified DBS Bank Ltd. Hong Kong Branch, DBS Bank (China) Limited, PT Bank DBS Indonesia, DBS Bank (Taiwan) Ltd and DBS Bank India Limited as component entities where certain account balances were considered to be significant in size in relation to the Bank Group ("other components").
   Consequently, specific audit procedures for the significant account balances of these components were performed to obtain sufficient appropriate audit evidence.

### **Key audit matters**

- Specific allowances for loans and advances to customers
- General allowances for credit losses (Stage 1 and 2 Expected Credit Loss)
- Goodwill
- Valuation of financial instruments held at fair value

As part of designing our audit, we determined materiality and assessed the risks of material misstatement in the accompanying financial statements. In particular, we considered where management made subjective judgements; for example, in respect of significant accounting estimates that involved making assumptions and considering future events that are inherently uncertain. As in all of our audits, we also addressed the risk of management override of internal controls, including among other matters consideration of whether there was evidence of bias that represented a risk of material misstatement due to fraud.

### Materiality

The scope of our audit was influenced by our application of materiality. An audit is designed to obtain reasonable assurance whether the consolidated financial statements are free from material misstatement. Misstatements may arise due to fraud or error. They are considered material if individually or in aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of the consolidated financial statements.

Based on our professional judgement, we determined certain quantitative thresholds for materiality, including the overall Bank Group materiality for the consolidated financial statements as a whole as set out in the table below. These, together with qualitative considerations, helped us to determine the scope of our audit and the nature, timing and extent of our audit procedures and to evaluate the effect of misstatements, both individually and on the financial statements as a whole.

How we determined overall Bank Group materiality	5% of the Bank Group's profit before tax
Rationale for benchmark applied	<ul> <li>We chose 'profit before tax' as in our view, it is the benchmark against which performance of the Bank Group is most commonly measured.</li> <li>We selected 5% based on our professional judgement, noting that it is also within the range of commonly accepted profit-related thresholds.</li> </ul>

In performing our audit, we allocated materiality levels to the significant components and other components of the Bank Group. These are less than the overall Bank Group materiality.

## How we developed the audit scope

We tailored the scope of our audit in order to perform sufficient work to enable us to provide an opinion on the financial statements as a whole, taking into account the structure of the Bank Group, the accounting processes and controls, and the industry in which the Bank Group operates. The Group's financial reporting process is dependent on its Information Technology ("IT") systems. Our audit scope included testing the operating effectiveness of the controls over the integrity of key financial data processed through the IT systems that are relevant to financial reporting.

In establishing the overall Bank Group audit approach, we determined the extent of audit procedures that are needed to be performed across the Bank Group by us, or by other PwC network firms operating under our instruction who are familiar with the local laws and regulations in each of these territories (the "component auditors"). Where the work was performed by component auditors, we determined the level of involvement we needed to have in the procedures to be able to conclude whether sufficient appropriate audit evidence had been obtained as a basis for our opinion on the financial statements as a whole.

#### Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the financial year ended 31 December 2019. These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon and we do not provide a separate opinion on these matters.

## **Key audit matter**

# Specific allowances for loans and advances to customers

As at 31 December 2019, the specific allowances for loans and advances to customers of the Bank Group was \$2,305 million, the majority of which related to Institutional Banking Group ("IBG") customers. Specific allowances refer to loss allowance for credit-impaired exposures (i.e. Stage 3) per SFRS (I) 9. Expected Credit Losses ("ECL") on non-impaired exposures (i.e. Stage 1 and Stage 2) is set out under the 'General allowances for credit losses' key audit matter.

We focused on this area because of the subjective judgements by management in determining the necessity for, and estimating the size of, allowances against loans and advances.

In particular, we focused on specific allowances for loans and advances to IBG customers because any assessment of impairment can be inherently subjective and involves significant judgement over both timing of recognition of any impairment and the estimation of the size of such impairment. This includes:

 the principal assumptions underlying the calculation of specific allowances for loans and advances to IBG customers where there is evidence of impairment losses (including the future profitability of the borrowers and the expected realisable value of collateral held); and

# How our audit addressed the key audit matter

We assessed the design and evaluated the operating effectiveness of the controls over the specific allowances for loans and advances to IBG customers. These controls included:

- oversight of credit risk by the Group Credit Risk Committee;
- timely management review of credit risk;
- the watchlist identification and monitoring process;
- timely identification of impairment events;
- classification of loans and advances in line with MAS 612; and
- the collateral monitoring and valuation processes.

We determined that we could rely on these controls for the purposes of our audit.

We inspected a sample of loans and advances to IBG customers to assess whether the classification of the loans and advances is in line with MAS 612 and, where there was evidence of an impairment loss, whether it had been identified in a timely manner including, where relevant, how forbearance had been considered.

Where impairment had been identified, for a sample of loans and advances, our work included:

- considering the latest developments in relation to the borrower;
- examining the forecasts of future cash flows prepared by management including key assumptions in relation to the amount and timing of recoveries;
- comparing the collateral valuation and other sources of repayment to support the calculation of the impairment against external evidence where available, including independent valuation reports;

## Key audit matter

## the classification of loans and advances in line with MAS Notice 612 ("MAS 612").

We applied judgement in selecting samples focused on borrowers incorporated in China, India and Indonesia, and with exposures to certain sectors in view of continued heightened credit risks impacting the portfolio.

(Refer also to Notes 3 and 17 to the financial statements.)

# How our audit addressed the key audit matter

- challenging management's assumptions; and
- testing the calculations.

For a sample of performing loans and advances to IBG customers which had not been identified by management as potentially impaired, considering the latest developments in relation to the borrower, we challenged management's assumptions on whether management's classification was appropriate, using external evidence where available in respect of the relevant borrower.

Based on procedures performed, we have assessed that the specific allowances for loans and advances is appropriate.

## General allowances for credit losses (Stage 1 and 2 Expected Credit Loss)

SFRS(I) 9 Financial Instruments ("SFRS(I) 9") adopted in 2018 introduced a new impairment measurement framework, referred to as Expected Credit Loss. In estimating ECL over future time periods, significant judgement is required.

We focused on the Bank Group's measurement of general allowances on non-impaired exposures (\$2,511 million). This covers both 'Stage 1' exposures (where there has not been a significant increase in credit risk), and 'Stage 2' exposures (where a significant increase in credit risk has been observed). The ECL framework implemented by the Bank Group involves significant judgement and assumptions that relate to, amongst others:

- adjustments to the Bank Group's Basel credit models and parameters;
- use of forward-looking and macroeconomic information;
- estimates for the expected lifetime of revolving credit facilities;
- assessment of significant increase in credit risk; and

We critically assessed management's assumptions and estimates relating to Stage 1 and Stage 2 ECL for retail and non-retail portfolios as at 31 December 2019. This included assessing refinements in methodologies made during the year.

We tested the design and operating effectiveness of key controls focusing on:

- involvement of governance committees, including review and approval of post model adjustments;
- completeness and accuracy of external and internal data inputs into the ECL calculations; and
- accuracy and timeliness of allocation of exposures into Stage 1 and Stage 2 based on quantitative and qualitative triggers.

The Bank Group's internal experts performed an independent model validation of the ECL methodologies and assumptions. We reviewed the outcomes from this work as part of our assessment of the ECL estimate.

Through the course of our work, we challenged the rationale and calculation basis of post model adjustments.

Overall, we assessed the methodologies and assumptions used by the Bank Group to estimate the ECL on non-impaired exposures to be appropriate.

## **Key audit matter**

# How our audit addressed the key audit matter

 post model adjustments to account for limitations in the ECL models, for example the risk to the portfolio from the current geopolitical trade conditions.

(Refer also to Notes 3 and 11 to the financial statements.)

#### Goodwill

As at 31 December 2019, the Bank Group had \$5,170 million of goodwill as a result of acquisitions.

We focused on this area as management makes significant judgement in estimating future cash flows in undertaking its annual goodwill impairment assessment.

The key assumptions used in the discounted cash flow analyses relate to:

- cash flow forecasts;
- · discount rate; and
- long-term growth rate.

(Refer also to Notes 3 and 26 to the financial statements.)

We assessed the appropriateness of management's identification of the Bank Group's cash generating units and the process by which indicators of impairment were identified.

For DBS Bank (Hong Kong) Limited's franchise (goodwill of \$4,631 million as at 31 December 2019), we evaluated management's cash flow forecasts and the process by which they were developed. Together with valuation specialists in our team, we assessed the discount rate and growth rate to the Bank Group's own historical performance and available external industry and economic indicators.

We reviewed management's sensitivity analysis over the key assumptions to determine whether any reasonably possible change in these assumptions would result in an impairment, and also performed our own stress analysis based on the situation in Hong Kong.

We concur with management's assessment that goodwill balances are not impaired as at 31 December 2019.

# Valuation of financial instruments held at fair value

Financial instruments held by the bank Group at fair value include derivative assets and liabilities, trading securities, certain debt instruments and other assets and liabilities designated at fair value.

The Bank Group's financial instruments are predominantly valued using quoted market prices ('Level 1') or market observable prices ('Level 2'). The valuation of 'Level 3' instruments rely on significant unobservable inputs.

We assessed the design and tested the operating effectiveness of the controls over the Bank Group's financial instruments valuation processes. These included the controls over:

- management's testing and approval of new models and revalidation of existing models;
- the completeness and accuracy of pricing data inputs into valuation models;
- monitoring of collateral disputes; and
- governance mechanisms and monitoring over the valuation processes by the Group Market and Liquidity Risk Committee, including over derivative valuation adjustments.

We determined that we could rely on the controls for the purposes of our audit. In addition, we:

Kev	audit	matter
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We considered the overall valuation of financial instruments (Level 1, 2 and 3) to be a key audit matter given the financial significance to the Bank Group, nature of underlying products and estimation involved to determine fair value.

In determining fair value, management also make adjustments to recognise credit risk, funding costs, bid-offer spreads and in other cases parameter and model risk limitations. This is broadly consistent with the banking industry albeit the methodology to calculate some of these adjustments continues to evolve.

(Refer also to Notes 3 and 39 to the financial statements.)

# How our audit addressed the key audit matter

- engaged our own specialists to use their own models and input sources to determine an independent estimate of fair value for a sample of the Bank Group's Level 1 and Level 2 financial instruments. We compared these to the Bank Group's calculations of fair value to assess individual material valuation differences or systemic bias;
- assessed the reasonableness of the methodologies used and the assumptions made for a sample of financial instrument valuations with significant unobservable valuation inputs (Level 3 instruments);
- performed procedures on collateral disputes to identify possible indicators of inappropriate valuations; and
- performed tests of inputs and assessed the methodology over fair value adjustments, in light of available market data and industry trends.

Overall, the valuation of financial instruments held at fair value was within a reasonable range of outcomes.

### Other Information

Management is responsible for the other information. The other information comprises the Directors' Statement included in pages 85 to 88 (but does not include the financial statements and our auditor's report thereon), which we obtained prior to the date of this auditor's report.

Our opinion on the financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon.

In connection with our audit of the financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work we have performed on the other information that we obtained prior to the date of this auditor's report, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

When we read the Other Sections, if we conclude that there is a material misstatement therein, we are required to communicate the matter to those charged with governance and take appropriate actions in accordance with SSAs.

### Responsibilities of Management and Directors for the Financial Statements

Management is responsible for the preparation of financial statements that give a true and fair view in accordance with the provisions of the Act and SFRS(I)s, and for devising and maintaining a system of internal accounting controls sufficient to provide a reasonable assurance that assets are safeguarded against loss from unauthorised use or disposition; and transactions are properly authorised and that they are recorded as necessary to permit the preparation of true and fair financial statements and to maintain accountability of assets.

In preparing the financial statements, management is responsible for assessing the Bank Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Bank Group or to cease operations, or has no realistic alternative but to do so.

The directors' responsibilities include overseeing the Bank Group's financial reporting process.

## Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with SSAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SSAs, we exercise professional judgement and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud
  or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that
  is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material
  misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve
  collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit 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 Bank Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Bank Group's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Bank Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Bank Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the Bank Group audit. We remain solely responsible for our audit opinion.

We communicate with the directors regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide the directors with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with the directors, we determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

## Report on Other Legal and Regulatory Requirements

In our opinion, the accounting and other records required by the Act to be kept by the Bank and by those subsidiary corporations incorporated in Singapore of which we are the auditors, have been properly kept in accordance with the provisions of the Act.

The engagement partner on the audit resulting in this independent auditor's report is Melvin Poon.

Lewatellourl@ser LLP

PricewaterhouseCoopers LLP

Public Accountants and Chartered Accountants

Singapore, 12 February 2020