The Exchange Fund

- Report of the Director of Audit
- Exchange Fund Financial Statements

Report of the Director of Audit

Audit Commission The Government of the Hong Kong Special Administrative Region

Independent Audit Report

To the Financial Secretary

I certify that I have audited the financial statements of the Exchange Fund and its subsidiaries ("the Group") set out on pages 134 to 222, which comprise the balance sheets of the Exchange Fund and of the Group as at 31 December 2015, and their income and expenditure accounts, statements of comprehensive income, statements of changes in equity and statements of cash flows for the year then ended, and a summary of significant accounting policies and other explanatory information.

Monetary Authority's Responsibility for the Financial Statements

The Monetary Authority is responsible for the preparation of financial statements that give a true and fair view in accordance with the directive of the Chief Executive made under section 7 of the Exchange Fund Ordinance (Cap. 66) and Hong Kong Financial Reporting Standards, and for such internal control as the Monetary Authority determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

My responsibility is to express an opinion on these financial statements based on my audit. I conducted my audit in accordance with the directive of the Chief Executive made under section 7 of the Exchange Fund Ordinance and the Audit Commission auditing standards. Those standards require that I comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

Report of the Director of Audit (continued)

Opinion

In my opinion, the financial statements give a true and fair view of the financial position of the Exchange Fund and of the Group as at 31 December 2015, and of their financial performance and cash flows for the year then ended in accordance with Hong Kong Financial Reporting Standards and have been properly prepared in accordance with the directive of the Chief Executive made under section 7 of the Exchange Fund Ordinance.

David Sun Director of Audit

7 April 2016

Audit Commission 26th Floor Immigration Tower 7 Gloucester Road Wanchai, Hong Kong

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Exchange Fund – Income and Expenditure Account

for the year ended 31 December 2015

		Group	נ	Fund	
(Expressed in millions of Hong Kong dollars)	Note	2015	2014	2015	2014
INCOME					
Interest income		18,001	16,270	16,875	14,980
Dividend income		14,275	13,498	13,403	15,250
Income from investment properties		2,685	2,323	-	-
Net realised and unrealised gains/(losses)		(200)	68,080	(9,902)	61,589
Net exchange loss		(43,870)	(51,649)	(44,937)	(52,759)
Investment income	4(a)	(9,109)	48,522	(24,561)	39,060
Bank licence fees		131	131	131	131
Other income		603	558	82	89
TOTAL INCOME		(8,375)	49,211	(24,348)	39,280
EXPENDITURE					
Interest expense on placements by Fiscal Reserves,					
HKSAR Government funds and statutory bodies	4(b)	(61,389)	(36,147)	(61,389)	(36,147)
Other interest expense	4(c)	(1,488)	(2,110)	(815)	(1,418)
Operating expenses	4(d)	(4,393)	(4,020)	(3,581)	(3,324)
Note and coin expenses	4(e)	(464)	(447)	(464)	(447)
Charge for impairment losses on loans		-	(1)	-	
TOTAL EXPENDITURE		(67,734)	(42,725)	(66,249)	(41,336)
(DEFICIT)/SURPLUS BEFORE SHARE OF PROFIT					
OF ASSOCIATES AND JOINT VENTURES		(76,109)	6,486	(90,597)	(2,056)
Share of profit of associates and joint ventures, net of tax		1,977	1,730	-	-
(DEFICIT)/SURPLUS BEFORE TAXATION		(74,132)	8,216	(90,597)	(2,056)
Income tax	5	(123)	(83)	-	-
(DEFICIT)/SURPLUS FOR THE YEAR		(74,255)	8,133	(90,597)	(2,056)
ATTRIBUTABLE TO:					
Owner of the Fund		(74,473)	8,006	(90,597)	(2,056)
Non-controlling interests		218	127	-	_
		(74,255)	8,133	(90,597)	(2,056)

Exchange Fund – Statement of Comprehensive Income

for the year ended 31 December 2015

	Group		Fund	
Note	2015	2014	2015	2014
	(74,255)	8,133	(90,597)	(2,056)
29	(3,923)	(944)	-	-
29	(157)	(63)	-	-
29	40	(20)	-	-
29	3	3	_	-
29	(1)	_	-	_
29	(935)	(906)	_	_
29	-	(13)	-	-
	(4,973)	(1,943)	-	_
	(79,228)	6,190	(90,597)	(2,056)
	(79,434)	6,079	(90,597)	(2,056)
	206	111	-	-
	(79,228)	6,190	(90,597)	(2,056)
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Exchange Fund – Balance Sheet

as at 31 December 2015

		Grou	Group		Fund		
(Expressed in millions of Hong Kong dollars)	Note	2015	2014	2015	2014		
ASSETS							
Cash and money at call	7	188,547	196,701	187,835	195,528		
Placements with banks and other financial institutions	8	123,880	138,239	102,681	120,080		
Financial assets designated at fair value	9	3,015,402	2,731,215	3,002,620	2,719,373		
Available-for-sale securities	10	104,475	87,656	493	493		
Derivative financial instruments	11(a)	5,831	7,554	5,357	6,870		
Held-to-maturity securities	12	10,274	9,169	-	-		
Loan portfolio	13	11,502	15,572	-	-		
Gold	14	550	621	550	621		
Other assets	15	22,847	18,752	21,994	18,020		
Interests in subsidiaries	16	-	-	98,331	84,922		
Interests in associates and joint ventures	17	21,188	16,448	-	-		
Investment properties	18	23,621	17,493	-	-		
Property, plant and equipment	19(a)	3,192	3,281	3,009	3,088		
TOTAL ASSETS		3,531,309	3,242,701	3,422,870	3,148,995		
LIABILITIES AND EQUITY							
Certificates of Indebtedness	20	357,863	340,184	357,863	340,184		
Government-issued currency notes and		ŕ		,			
coins in circulation	20	11,335	11,028	11,335	11,028		
Balance of the banking system	21	391,343	239,183	391,343	239,183		
Placements by banks and other financial institutions	22	66,907	64,001	66,907	64,001		
Placements by Fiscal Reserves	23	833,548	788,681	833,548	788,681		
Placements by Hong Kong Special Administrative							
Region Government funds and statutory bodies	24	280,846	261,139	280,846	261,139		
Exchange Fund Bills and Notes issued	25	827,792	751,946	827,792	752,446		
Derivative financial instruments	11(a)	3,256	5,676	1,102	3,585		
Bank loans	26	11,318	8,778	-	-		
Other debt securities issued	27	33,463	33,270	-	-		
Other liabilities	28	114,283	60,233	107,279	53,296		
Total liabilities		2,931,954	2,564,119	2,878,015	2,513,543		
Accumulated surplus	29	591,522	665,995	544,855	635,452		
Revaluation reserve	29	8,501	12,539	_	-		
Translation reserve	29	(1,753)	(830)	-	-		
Total equity attributable to owner of the Fund		598,270	677,704	544,855	635,452		
Non-controlling interests	29	1,085	878	-	-		
Total equity		599,355	678,582	544,855	635,452		

Norman T. L. Chan

Monetary Authority

7 April 2016

Exchange Fund – Statement of Changes in Equity

for the year ended 31 December 2015

		l	Attributable to ov				
(Expressed in millions of Hong Kong dollars)	– Note	Accumulated surplus	Revaluation reserve	Translation reserve	Total attributable to owner of the Fund	Non- controlling interests	Total
Group							
At 1 January 2014		657,989	13,563	73	671,625	566	672,191
Surplus for the year	29	8,006	-	-	8,006	127	8,133
Other comprehensive loss for the year	29	-	(1,024)	(903)	(1,927)	(16)	(1,943)
Total comprehensive income for the year		8,006	(1,024)	(903)	6,079	111	6,190
Capital injection by non-controlling interests	29	-	-	-	-	228	228
Disposal of a subsidiary classified as assets held for sale	29	_	_	_	-	(13)	(13)
Dividends paid to non-controlling interests	29	-	-	-	-	(14)	(14)
At 31 December 2014		665,995	12,539	(830)	677,704	878	678,582
At 1 January 2015		665,995	12,539	(830)	677,704	878	678,582
Deficit for the year	29	(74,473)	-	-	(74,473)	218	(74,255)
Other comprehensive loss for the year	29	-	(4,038)	(923)	(4,961)	(12)	(4,973)
Total comprehensive loss for the year		(74,473)	(4,038)	(923)	(79,434)	206	(79,228)
Capital injection by non-controlling interests	29	-	-	-	-	14	14
Dividends paid to non-controlling interests	29	-	-	-	-	(13)	(13)
At 31 December 2015		591,522	8,501	(1,753)	598,270	1,085	599,355
Fund							
At 1 January 2014		637,508	-	-	637,508	-	637,508
Deficit and total comprehensive loss		(0.05.1)			(0.05.1)		(0.05/)
for the year	29	(2,056)	-	-	(2,056)	-	(2,056)
At 31 December 2014		635,452	_	-	635,452	_	635,452
At 1 January 2015		635,452	-	-	635,452	-	635,452
Deficit and total comprehensive loss for the year	29	(90,597)	-	-	(90,597)	-	(90,597)
At 31 December 2015		544,855	-	-	544,855	-	544,855

Exchange Fund – Statement of Cash Flows

for the year ended 31 December 2015

		Group		Fund	I
(Expressed in millions of Hong Kong dollars)	Note	2015	2014	2015	2014
Cash flows from operating activities					
(Deficit)/Surplus before taxation		(74,132)	8,216	(90,597)	(2,056)
Adjustments for:					
Interest income	4(a)	(18,001)	(16,270)	(16,875)	(14,980)
Dividend income	4(a)	(14,275)	(13,498)	(13,403)	(15,250)
Change in fair value of investment properties	4(a)	(1,703)	(1,272)	-	-
Net gains on disposal of available-for-sale securities	4(a)	(10,554)	(6,984)	-	-
Interest expense	4(b) & 4(c)	62,877	38,257	62,204	37,565
Depreciation	4(d)	198	189	151	136
Share of profit of associates and joint ventures		(1,977)	(1,730)	-	-
Gain on disposal of a subsidiary classified as assets held for sale		_	(13)	_	_
Net loss on disposal of property, plant and equipment		5	_	_	_
Elimination of exchange differences and					
other non-cash items		8,154	5,177	8,052	5,012
Interest received		17,489	16,140	16,371	14,813
Interest paid		(16,143)	(10,756)	(15,549)	(10,080)
Dividends received		14,248	13,401	12,891	12,532
Income tax paid		(74)	(72)	-	-
		(33,888)	30,785	(36,755)	27,692
Change in fair value of derivatives and other debt securities issued		(1,022)	(2,288)	(975)	(2,924)
Change in carrying amount of:		(1,022)	(2,200)	(775)	(2,724)
 – placements with banks and other financial institutio 	nc	(4,633)	(923)	(1,580)	(755)
 – pracements with barks and other mandat institutio – financial assets designated at fair value 	115	(205,192)	(148,707)	(1,388)	(150,152)
– Infancial assets designated at fair value – loan portfolio		4,070	6,696	(204,252)	(130,132)
		4,070	0,070	- 71	-
– gold – other assets		(3,603)	42,625	(3,449)	42,474
 – Other assets – Certificates of Indebtedness, government-issued 		(3,003)	42,020	(3,447)	42,474
currency notes and coins in circulation		17,986	13,265	17,986	13,265
– balance of the banking system		152,160	75,090	152,160	75,090
– placements by banks and other financial institutions	5	2,906	13,267	2,906	13,267
– placements by Fiscal Reserves		44,867	14,819	44,867	14,819
– placements by Hong Kong Special Administrative			,	, . = -	,
Region Government funds and statutory bodies		19,707	46,228	19,707	46,228
– Exchange Fund Bills and Notes issued		75,846	(30,659)	75,346	(30,159)
– other liabilities		7,393	(42,226)	7,337	(42,214)
Net cash from operating activities		76,668	17,973	73,369	6,632

Exchange Fund – Statement of Cash Flows (continued)

for the year ended 31 December 2015

		Group		Fund	
(Expressed in millions of Hong Kong dollars)	Note –	2015	2014	2015	2014
Cash flows from investing activities					
Increase in investments in subsidiaries		-	-	-	(167)
Loans to subsidiaries		-	-	(13,409)	(16,210)
Increase in interests in associates and joint ventures		(3,019)	(5,536)	-	-
Proceeds from sale or redemption of available-for-sale securities		22,618	17,983	_	_
Purchase of available-for-sale securities		(32,973)	(33,502)	_	_
Proceeds from sale or redemption of		(,,	(00,002)		
held-to-maturity securities		957	2,036	-	-
Purchase of held-to-maturity securities		(2,113)	(2,625)	-	-
Proceeds from disposal of a subsidiary classified as assets held for sale		_	117	-	_
Purchase of investment properties		(5,694)	-	-	-
Purchase of property, plant and equipment		(114)	(130)	(72)	(110)
Dividends received from subsidiaries		-	-	487	2,621
Net cash used in investing activities		(20,338)	(21,657)	(12,994)	(13,866)
Cash flows from financing activities					
Bank loans raised		3,106	-	-	-
Proceeds from issue of other debt securities		22,992	30,401	-	-
Redemption of other debt securities issued		(22,527)	(27,505)	-	-
Capital injection by non-controlling interests		14	228	-	-
Dividends paid to non-controlling interests		(13)	(14)	-	-
Net cash from financing activities		3,572	3,110	-	_
Net increase/(decrease) in cash and cash equivalents		59,902	(574)	60,375	(7,234)
Cash and cash equivalents at 1 January		322,907	328,494	313,782	326,028
Effect of foreign exchange rate changes		(8,053)	(5,013)	(8,052)	(5,012)
Cash and cash equivalents at 31 December	30	374,756	322,907	366,105	313,782

Exchange Fund – Notes to the Financial Statements

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

1 PRINCIPAL ACTIVITIES

The Monetary Authority, under delegated authority from the Financial Secretary as Controller of the Exchange Fund (the Fund), manages the Fund in accordance with the provisions of the Exchange Fund Ordinance (Cap. 66). The principal activities of the Fund are safeguarding the exchange value of the currency of Hong Kong and maintaining the stability and integrity of Hong Kong's monetary and financial systems.

The assets of the Fund are managed as four portfolios: the Backing Portfolio, the Investment Portfolio, the Long-Term Growth Portfolio and the Strategic Portfolio. The assets of the Backing Portfolio fully match the Monetary Base, under Hong Kong's Currency Board system. The Investment Portfolio is invested primarily in the bond and equity markets of the member countries of the Organisation for Economic Co-operation and Development. The Long-Term Growth Portfolio holds private equity and real estate investments. The Strategic Portfolio holds shares in Hong Kong Exchanges and Clearing Limited acquired by the Government of the Hong Kong Special Administrative Region (HKSAR) for the account of the Fund for strategic purposes. Operating segment information is set out in note 31.

2 SIGNIFICANT ACCOUNTING POLICIES

2.1 Statement of compliance

These financial statements have been prepared in accordance with all applicable Hong Kong Financial Reporting Standards (HKFRSs), which is a collective term that includes all applicable individual Hong Kong Financial Reporting Standards, Hong Kong Accounting Standards (HKASs) and Interpretations issued by the Hong Kong Institute of Certified Public Accountants (HKICPA), and accounting principles generally accepted in Hong Kong. A summary of the significant accounting policies adopted by the Fund and its subsidiaries (together referred to as the Group) is set out below.

The HKICPA has issued certain new and revised HKFRSs that are first effective or available for early adoption for the current accounting period. Note 3 provides information on the changes, if any, in accounting policies resulting from initial adoption of these developments to the extent that they are relevant to the Group for the current and prior accounting periods reflected in these financial statements.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.2 Basis of preparation of the financial statements

The Group financial statements include the financial statements of the Group as well as the Group's interests in associates and joint ventures. The principal activities of the principal subsidiaries, associates and joint ventures are shown in notes 16 and 17.

The measurement basis used in the preparation of the financial statements is historical cost except that the following assets and liabilities are stated at their fair values as explained in the accounting policies set out below:

- trading financial instruments (note 2.6.2.1);
- financial assets and financial liabilities designated at fair value (note 2.6.2.2);
- available-for-sale securities (note 2.6.2.5);
- gold (note 2.11); and
- investment properties (note 2.12).

The preparation of financial statements in conformity with HKFRSs requires management to make judgements, estimates and assumptions that affect the application of policies and the reported amounts of assets, liabilities, income and expenditure. The estimates and associated assumptions are based on experience and various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgements about carrying values of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised if the revision affects only that period, or in the period of the revision and future periods if the revision affects both current and future periods.

Note 18 contains information about the assumptions relating to fair value estimation of investment properties. Note 37 contains information about the assumptions relating to fair value estimation of financial instruments. There are no critical accounting judgements involved in the application of the Group's accounting policies except for the valuation of certain financial instruments as set out in note 2.5.

2.3 Subsidiaries and non-controlling interests

A subsidiary is an entity controlled by the Group. The Group controls an entity when it is exposed, or has rights, to variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity. When assessing whether the Group has power, only substantive rights (held by the Group and other parties) are considered.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

An investment in a subsidiary is consolidated into the Group financial statements from the date that control commences until the date that control ceases.

Intra-group balances, transactions and cash flows and any unrealised profits and losses arising from intragroup transactions are eliminated in full in preparing the Group financial statements.

Non-controlling interests represent the equity in a subsidiary not attributable directly or indirectly to the Fund, and in respect of which the Group has not agreed any additional terms with the holders of those interests which would result in the Group as a whole having a contractual obligation in respect of those interests that meets the definition of a financial liability. Non-controlling interests are presented in the Group balance sheet within equity, separately from equity attributable to the owner of the Fund. Non-controlling interests in the results of the Group are presented on the face of the Group income and expenditure account and the Group statement of comprehensive income as an allocation of the surplus or deficit and total comprehensive income or loss for the year between non-controlling interests and the owner of the Fund.

In the balance sheet of the Fund, its investments in subsidiaries are stated at cost less impairment losses, if any (note 2.14).

2.4 Associates and joint ventures

An associate is an entity in which the Group has significant influence, but not control or joint control, over its management, through its power to participate in the financial and operating policy decisions.

A joint venture is a type of joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the arrangement. Joint control is the contractually agreed sharing of an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

An interest in an associate or a joint venture is accounted for in the Group financial statements under the equity method and is initially recorded at cost, adjusted for any excess or deficit of the Group's share of the acquisitiondate fair values of the investee's identifiable net assets over the cost of the investment (if any). Thereafter, the investment is adjusted for the post acquisition change in the Group's share of the net assets of the associate or the joint venture and any impairment loss relating to the investment.

The Group income and expenditure account and statement of comprehensive income include the Group's share of the post-tax results of the associates and the joint ventures for the year. When the Group's share of losses exceeds its interest in the associates or the joint ventures, the Group's interest is reduced to nil and recognition of further losses is discontinued except to the extent that the Group has incurred legal or constructive obligations or made payments on behalf of the associates or the joint ventures. For this purpose, the Group's interest is the carrying amount of the investment under the equity method together with the Group's long-term interests that in substance form part of the Group's net investment in the associates or the joint ventures.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

Unrealised profits and losses resulting from transactions between the Group and its associates and joint ventures are eliminated to the extent of the Group's interests in the associates or the joint ventures.

When the Group ceases to have significant influence over an associate or joint control over a joint venture, it is accounted for as a disposal of the entire interest in the associate or the joint venture, with a resulting gain or loss being recognised in the income and expenditure account. Any interest retained in the associate or the joint venture at the date when significant influence or joint control is lost is recognised at fair value and this amount is regarded as the fair value on initial recognition of a financial asset (note 2.6.1) or, when appropriate, the cost on initial recognition of an investment in an associate.

In the balance sheet of the Fund, interests in associates and joint ventures are stated at cost less impairment losses, if any (note 2.14).

2.5 Fair value measurement

The Group measures certain financial instruments, all investment properties and gold at fair value at each balance sheet date. The fair values of financial instruments measured at amortised cost are disclosed in note 37.

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- (a) in the principal market for the asset or liability, or
- (b) in the absence of a principal market, in the most advantageous market for the asset or liability.

The principal or the most advantageous market must be accessible by the Group.

The fair value of an asset or a liability is measured using the assumptions that market participants would use when pricing the asset or liability, assuming that market participants act in their economic best interest.

A fair value measurement of a non-financial asset takes into account a market participant's ability to generate economic benefits by using the asset in its highest and best use or by selling it to another market participant that would use the asset for its highest and best use.

The Group uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximising the use of relevant observable inputs and minimising the use of unobservable inputs.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The Group measures fair values using the following fair value hierarchy that reflects the significance of inputs used in making the measurements:

- (a) Level 1 fair values are quoted prices (unadjusted) in active markets for identical assets or liabilities;
- Level 2 fair values are determined involving inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly (as prices) or indirectly (derived from prices); and
- (c) Level 3 fair values are determined with inputs that are not based on observable market data (unobservable inputs).

For assets and liabilities that are recognised in the financial statements on a recurring basis, the Group determines whether transfers have occurred between levels in the hierarchy by re-assessing categorisation (based on the lowest level input that is significant to the fair value measurement as a whole) at the balance sheet date.

2.6 Financial assets and financial liabilities

2.6.1 Initial recognition

The Group classifies its financial assets and financial liabilities into different categories at inception, depending on the purpose for which the assets were acquired or the liabilities were incurred. The categories are: trading financial instruments, financial assets and financial liabilities designated at fair value, loans and receivables, held-to-maturity securities, available-for-sale securities and other financial liabilities.

An analysis of the Group's financial assets and financial liabilities by category is set out in note 6.

Financial assets and financial liabilities are measured initially at fair value plus, in the case of a financial asset or financial liability not at fair value through the income and expenditure account, transaction costs that are directly attributable to the acquisition of the financial assets or the issue of the financial liabilities. Transaction costs on trading financial instruments and financial assets and financial liabilities designated at fair value are expensed immediately.

The Group recognises financial assets and financial liabilities on the date it becomes a party to the contractual provisions of the instrument. Purchases or sales of derivative financial instruments are recognised using trade date accounting. Purchases or sales of trading liabilities and financial assets and financial liabilities designated at fair value, which are settled within the time frame established generally by regulation or convention in the market place concerned, are also recognised using trade date accounting.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.6.2 Categorisation

2.6.2.1 Trading financial instruments

The Group does not engage in active trading of financial instruments. However, derivative financial instruments that do not qualify for hedge accounting (note 2.9) and short positions in Exchange Fund Bills and Notes (EFBN) are categorised as "trading" under HKAS 39, Financial Instruments: Recognition and Measurement.

Trading financial instruments are carried at fair value. Changes in the fair value are included in the income and expenditure account in the period in which they arise.

2.6.2.2 Financial assets and financial liabilities designated at fair value

Financial assets and financial liabilities designated at fair value primarily consist of:

- financial assets and financial liabilities that are managed, evaluated and reported internally on a fair value basis; and
- debt securities issued by the Group through a subsidiary, The Hong Kong Mortgage Corporation Limited (HKMC), which contain embedded derivatives that significantly modify the cash flows that would otherwise be required under the contracts.

Financial assets and financial liabilities under this category are carried at fair value. Changes in the fair value are included in the income and expenditure account in the period in which they arise.

2.6.2.3 Loans and receivables

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market and which the Group has no intention of trading, other than those that the Group, upon initial recognition, designates as at fair value or as available-for-sale. This category includes placements with banks and other financial institutions, cash and money at call, and the loan portfolio purchased by the Group through the HKMC.

Loans and receivables are carried at amortised cost using the effective interest method, less impairment losses if any (note 2.10).

The effective interest method is a method of calculating the amortised cost of a financial asset or a financial liability and of allocating the interest income or interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or, when appropriate, a shorter period to the net carrying amount of the financial asset or financial liability. When calculating the effective interest rate, the Group estimates cash flows considering all contractual terms of the financial instrument but does not consider future credit losses. The calculation includes all fees paid or received between parties to the contract that are an integral part of the effective interest rate, transaction costs and all other premiums or discounts.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.6.2.4 Held-to-maturity securities

Held-to-maturity securities are non-derivative financial assets with fixed or determinable payments and fixed maturity which the Group has the positive intention and ability to hold to maturity, other than (a) those that the Group, upon initial recognition, designates as at fair value or as available-for-sale; and (b) those that meet the definition of loans and receivables.

Held-to-maturity securities are carried at amortised cost using the effective interest method, less impairment losses if any (note 2.10).

2.6.2.5 Available-for-sale securities

Available-for-sale securities are non-derivative securities that are designated as available-for-sale or are not classified in any of the other categories above. They include securities intended to be held for an indefinite period of time, but which may be sold in response to needs for liquidity or changes in the market environment.

Available-for-sale securities are carried at fair value. Unrealised gains and losses arising from changes in the fair value are recognised in other comprehensive income and accumulated separately in the revaluation reserve, except for impairment losses, if any (note 2.10). Foreign exchange gains and losses on monetary items are recognised in the income and expenditure account. Foreign exchange gains and losses on non-monetary items are recognised in other comprehensive income.

The investment by the Fund in the shares of the Bank for International Settlements is held in order to participate in it on a long-term basis. As these shares do not have a quoted market price in an active market and the fair value cannot be reliably measured, they are carried at cost less impairment losses, if any (note 2.10).

When available-for-sale securities are sold, gains or losses on disposal include the difference between the net sale proceeds and the carrying amount, and the accumulated fair value adjustments which are released from equity to the income and expenditure account.

2.6.2.6 Other financial liabilities

Other financial liabilities are financial liabilities other than trading liabilities and those designated at fair value.

Other financial liabilities repayable on demand are stated at the principal amount payable. These include Certificates of Indebtedness, government-issued currency notes and coins in circulation (note 2.6.2.7), the balance of the banking system, placements by Fiscal Reserves, placements by the Bond Fund and placements by the Deposit Protection Scheme Fund.

Other financial liabilities with a fixed maturity and a predetermined rate are carried at amortised cost using the effective interest method. These include placements by banks and other financial institutions, other placements by HKSAR Government funds and statutory bodies, bank loans and other debt securities (other than those which contain embedded derivatives) issued by the Group through the HKMC.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.6.2.7 Certificates of Indebtedness and government-issued currency notes and coins in circulation

As backing for the banknote issues, each note-issuing bank is required to hold a non-interest-bearing Certificate of Indebtedness issued by the Financial Secretary, which is redeemable on demand. Payments for the issue and redemption of banknotes against these Certificates are made in US dollars at the fixed exchange rate of US\$1=HK\$7.80. Consistent with the requirement for backing banknote issues with US dollars, the issue and redemption of government-issued currency notes and coins are conducted with an agent bank against US dollars at the fixed exchange rate of US\$1=HK\$7.80.

The Group's liabilities in respect of Certificates of Indebtedness represent the US dollars payable to the noteissuing banks on redemption of the Certificates. The Group's liabilities in respect of government-issued currency notes and coins represent the US dollars payable to the agent bank when they are redeemed. Certificates of Indebtedness in issue and government-issued currency notes and coins in circulation are stated in the financial statements at the Hong Kong dollar equivalent of the US dollars required for their redemption using the closing exchange rate at the balance sheet date.

2.6.3 Derecognition

A financial asset is derecognised when the contractual rights to receive the cash flows from the financial asset expire, or where the financial asset together with substantially all the risks and rewards of ownership have been transferred.

The Group uses the weighted average method to determine realised gains and losses to be recognised in the income and expenditure account on derecognition.

A financial liability is derecognised when the obligation specified in the contract is discharged, is cancelled or expires.

Liabilities for EFBN in issue are derecognised when they are repurchased as a result of market making activities. The repurchase is considered a redemption of the debt.

2.6.4 Offsetting

Financial assets and financial liabilities are offset and the net amount is reported in the balance sheet where there is a legally enforceable right to offset the recognised amounts and there is an intention to settle on a net basis, or realise the assets and settle the liabilities simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or bankruptcy of the Group or the counterparty.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.6.5 Embedded derivatives

An embedded derivative is a component of a hybrid (combined) instrument that includes both the derivative and a host contract with the effect that some of the cash flows of the combined instrument vary in a way similar to a stand-alone derivative.

An embedded derivative is separated from the host contract and accounted for as a derivative when (a) the economic characteristics and risks of the embedded derivative are not closely related to the host contract; and (b) the hybrid (combined) instrument is not measured at fair value with changes in fair value recognised in the income and expenditure account.

Where the embedded derivative is separated, the host contract is accounted for according to its category (note 2.6.2). The embedded derivative is measured at fair value with change in fair value recognised in the income and expenditure account.

2.7 Repurchase and reverse repurchase transactions

Securities sold subject to a simultaneous agreement to repurchase these securities at a certain later date at a fixed price (repurchase agreements) are retained on the balance sheet and measured in accordance with the measurement principles as stated in note 2.5. The proceeds from the sale are reported as liabilities in "placements by banks and other financial institutions" and are carried at amortised cost.

Conversely, securities purchased under agreements to resell (reverse repurchase agreements) are reported as receivables in "placements with banks and other financial institutions" and are carried at amortised cost.

Interest earned on reverse repurchase agreements and interest incurred on repurchase agreements are recognised as interest income and interest expense respectively, over the life of each agreement using the effective interest method.

2.8 Securities lending agreements

Where securities are loaned with the receipt of cash or other securities as collateral, they are retained on the balance sheet and measured in accordance with the measurement principles as stated in note 2.5. Where cash collateral is received, a liability is recorded in respect of the cash received in "placements by banks and other financial institutions". Securities received as collateral are not recognised in the financial statements.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.9 Hedging

Hedge accounting recognises the offsetting effects on income and expenditure of changes in the fair values of the hedging instrument and the hedged item.

The Group documents, at the inception of the transaction, the relationship between hedging instruments and hedged items, as well as its risk management objective and strategy for undertaking various hedge transactions. The Group also documents its assessment, both at hedge inception and on an ongoing basis, of whether the derivatives that are used in hedging transactions are highly effective in offsetting changes in fair values or cash flows of hedged items.

2.9.1 Fair value hedge

A fair value hedge seeks to offset risks of changes in the fair value of a recognised asset or liability that will give rise to a gain or loss being recognised in the income and expenditure account.

Derivatives that are designated and qualify as fair value hedges are measured at fair value, with fair value changes recognised in the income and expenditure account, together with any changes in the fair value of the hedged item attributable to the risk being hedged.

When (a) a hedging instrument expires or is sold, terminated or exercised; (b) a hedge no longer meets the criteria for hedge accounting; or (c) the Group revokes designation of the hedge relationship, any adjustment to the carrying amount of a hedged item for which the effective interest method is used, is amortised to the income and expenditure account over the period to maturity.

2.9.2 Cash flow hedge

Where a derivative is designated as a hedge of the variability in cash flows of a recognised asset or liability or a highly probable forecast transaction, the effective portion of any gain or loss from remeasurement of the derivative to fair value is recognised in other comprehensive income and accumulated separately in equity. The ineffective portion of any gain or loss is recognised immediately in the income and expenditure account.

Amounts previously recognised in other comprehensive income and accumulated in equity are recycled to the income and expenditure account in the periods in which the hedged item will affect the income and expenditure account.

When (a) a hedging instrument expires or is sold, terminated or exercised; (b) a hedge no longer meets the criteria for hedge accounting; or (c) the Group revokes designation of the hedge relationship, any cumulative gain or loss existing in equity at that time remains in equity and is recognised when the forecast transaction is ultimately recognised in the income and expenditure account. When a forecast transaction is no longer expected to occur, the cumulative gain or loss that was recognised in equity is immediately transferred to the income and expenditure account.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.10 Impairment of financial assets

The carrying amounts of loans and receivables, held-to-maturity securities and available-for-sale securities are reviewed at each balance sheet date to determine whether there is objective evidence of impairment. Objective evidence that a financial asset is impaired includes observable data that come to the attention of the Group about one or more of the following loss events which have an impact on the future cash flows of the financial asset that can be estimated reliably:

- significant financial difficulties of the issuer or borrower;
- a breach of contract such as default or delinquency in interest or principal payments;
- it becoming probable that the issuer or borrower will enter bankruptcy or other financial reorganisation;
- significant changes in the technological, market, economic or legal environment that have an adverse effect on the issuer or borrower;
- disappearance of an active market for that financial asset; and
- a significant or prolonged decline in the fair value of an investment in an equity instrument below its cost.

The Group first assesses whether objective evidence of impairment exists individually for financial assets that are individually significant. If the Group determines that no objective evidence of impairment exists for an individually assessed financial asset, whether significant or not, it includes that asset in a group of financial assets with similar credit risk characteristics and collectively assesses them for impairment. Financial assets that are individually assessed for impairment and for which an impairment loss is or continues to be recognised are not included in a collective assessment of impairment. For exposures which are not individually significant, the Group will assess impairment collectively.

If any such evidence exists, the carrying amount of the financial asset is reduced to the estimated recoverable amount and the impairment loss is determined and recognised as described below.

For loans and receivables and held-to-maturity securities, an impairment loss is the difference between the asset's carrying amount and the present value of estimated future cash flows discounted at the asset's original effective interest rate. The carrying amount of the asset is reduced through the use of an allowance account and the impairment loss is recognised in the income and expenditure account.

If in a subsequent period the amount of such impairment loss decreases and the decrease can be linked objectively to an event occurring after the impairment loss was recognised, the impairment loss is reversed through the income and expenditure account. A reversal of impairment losses is limited to the asset's carrying amount that would have been determined had no impairment loss been recognised in prior years.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

For available-for-sale securities carried at fair value, the cumulative loss that has been recognised in the revaluation reserve is reclassified to the income and expenditure account. The amount of cumulative loss that is recognised in the income and expenditure account is the difference between the acquisition cost (net of any principal repayment and amortisation) and the current fair value, less any impairment loss on that financial asset previously recognised in the income and expenditure account. Impairment losses for debt securities are reversed if the subsequent increase in fair value can be objectively related to an event occurring after the impairment loss was recognised. Reversals of impairment losses in such circumstances are recognised in the income and expenditure accounties are not reversed through the income and expenditure account. Any subsequent increase in the fair value of equity securities is recognised in other comprehensive income.

For available-for-sale equity securities carried at cost, the impairment loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows discounted at the current market rate of return for a similar instrument. Such impairment losses are not reversed.

2.11 Gold

Gold is carried at fair value. Changes in the fair value of gold are included in the income and expenditure account in the period in which they arise.

2.12 Investment properties

Properties that are held for long-term rental yields, capital appreciation or both, and that are not occupied by the Group, are classified as investment properties.

Investment properties are recognised initially at cost, including related transaction costs. After initial recognition, investment properties are measured at fair value as assessed by independent professional valuers, or by the management based on the latest valuation made by the independent professional valuers. Fair value of the investment properties are measured based on the market or income approach. Under the market approach, the value is determined based on comparable transactions. For the income approach, the fair value is determined using valuation techniques including discounted cash flow and income capitalisation methods.

Any gain or loss arising from a change in fair value or the disposal of an investment property is recognised directly in the income and expenditure account. Rental income from investment properties is recognised in the income and expenditure account in equal instalments over the periods covered by the lease term, except where an alternative basis is more representative of the pattern of benefits to be derived from the use of the leased asset.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.13 Property, plant and equipment

The following items of property, plant and equipment are stated in the balance sheet at cost less accumulated depreciation and any impairment losses (note 2.14):

- a building held for own use situated on freehold land;
- land classified as held under a finance lease and building held for own use situated thereon; and
- plant and equipment, including plant, machinery, furniture, fixtures, equipment, motor vehicles and personal computers.

Intangible assets including computer software licences and system development costs are included in property, plant and equipment.

Freehold land is not depreciated. For other items of property, plant and equipment, depreciation is calculated to write off their cost less their estimated residual value, if any, on a straight-line basis over their estimated useful lives as follows:

 leasehold land classified as held under a finance lease 	over the unexpired term of lease
 buildings situated on freehold land 	39 years
 buildings situated on leasehold land 	over the shorter of the unexpired term of lease and their estimated useful lives
 plant and equipment 	3 to 15 years
 computer software licences and system development costs 	3 to 5 years

A gain or loss arising from the disposal of an item of property, plant and equipment is determined as the difference between the net disposal proceeds and the carrying amount of the asset and is recognised in the income and expenditure account on the date of disposal.

2.14 Impairment of other assets

The carrying amounts of other assets, including interests in subsidiaries, interests in associates and joint ventures, and property, plant and equipment, are reviewed at each balance sheet date to identify any indication of impairment.

If any such indication exists, an impairment loss is recognised in the income and expenditure account whenever the carrying amount of an asset exceeds its recoverable amount. The recoverable amount of an asset is the greater of its fair value less costs of disposal and value in use.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.15 Cash and cash equivalents

Cash and cash equivalents comprise cash and money at call, placements with banks and other financial institutions and short-term highly liquid investments that are readily convertible to known amounts of cash and subject to an insignificant risk of changes in value, having been within three months of maturity when placed or acquired.

2.16 Revenue and expenditure recognition

2.16.1 Interest income and expense

Interest on the majority of the placements by Fiscal Reserves, placements by HKSAR Government funds and statutory bodies is payable at a fixed rate determined annually (notes 23 and 24). Interest on these placements is recognised in the income and expenditure account on an accrual basis, using the effective interest method.

Interest income and expense for all other interest-bearing financial assets and financial liabilities is recognised in the income and expenditure account on an accrual basis, using the effective interest method.

Once a financial asset or a group of similar financial assets has been written down as a result of an impairment loss, interest income is thereafter recognised using the rate of interest used to discount the future cash flows for the purpose of measuring the impairment loss.

2.16.2 Net realised and unrealised gains/(losses)

Realised gains or losses on financial instruments are recognised in the income and expenditure account when the financial instruments are derecognised.

Changes in fair value of trading financial instruments and financial assets and financial liabilities designated at fair value are recognised as unrealised gains or losses in the income and expenditure account in the period in which they arise.

2.16.3 Dividend and other income

Dividend income from listed equity securities is recognised in the income and expenditure account when the share price is quoted ex-dividend. Dividend income from unlisted equity securities is recognised when the shareholder's right to receive payment is unconditionally established.

Bank licence fees are fees receivable from authorized institutions under the Banking Ordinance (Cap. 155) and are accounted for in the period when the fees become receivable.

Other income includes rental income, Central Moneymarkets Unit fee income and net insurance premiums earned from the mortgage insurance business of the HKMC. Rental income is recognised on a straight-line basis over the lease term. The net premiums are recognised on a time-apportioned basis during the time the insurance coverage is effective. Other income is accounted for in the period when it becomes receivable.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.16.4 Contributions to staff retirement schemes

The Group operates several defined contribution schemes, including the Mandatory Provident Fund Scheme. Under these schemes, contributions payable each year are charged to the income and expenditure account. The assets of the staff retirement schemes are held separately from those of the Group.

2.16.5 Rental payments under operating leases

Leases where substantially all the rewards and risks of ownership remain with the lessor are classified as operating leases. Rental payments made under operating leases are charged to the income and expenditure account on a straight-line basis over the period of the relevant leases.

2.16.6 Income tax

Income tax payable on profits of subsidiaries is recognised as an expense in the period in which profits arise.

Deferred tax assets and liabilities arise from deductible and taxable temporary differences respectively, being the differences between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes. Deferred tax assets are recognised to the extent that it is probable that future taxable profit will be available against which the assets can be utilised. Deferred tax liabilities are provided in full. For investment properties that are measured at fair value, the amount of deferred tax recognised is measured using the tax rates that would apply on sale of those assets at their carrying value at the reporting date on the presumption that their carrying amounts are recovered entirely through sale. In all other cases, the amount of deferred tax recognised is measured based on the expected manner of realisation or settlement of the carrying amount of the assets and liabilities, using tax rates enacted or substantively enacted at the balance sheet date. Deferred tax assets and liabilities are not discounted.

2.17 Foreign currency translation

The financial statements are presented in Hong Kong dollars, which is the Group's and the Fund's functional currency.

Foreign currency transactions during the year are translated into Hong Kong dollars using the spot exchange rates at the transaction dates. Monetary assets and liabilities denominated in foreign currencies are translated into Hong Kong dollars using the closing exchange rate at the balance sheet date.

Non-monetary assets and liabilities that are measured in terms of historical cost in a foreign currency are translated into Hong Kong dollars using the spot exchange rates at the transaction dates. Non-monetary assets and liabilities that are measured at fair value in a foreign currency are translated into Hong Kong dollars using the closing exchange rates at the dates when the fair value is determined.

All foreign currency translation differences are presented in aggregate as "net exchange gain/(loss)" in the income and expenditure account. Although it is not practicable to disclose separately the net exchange gain/ (loss) on financial assets and financial liabilities designated at fair value or on trading financial instruments, the majority of the exchange gains/(losses) relate to these two categories of financial instruments.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The results of foreign operations are translated into Hong Kong dollars at the exchange rates approximating the foreign exchange rates ruling at the dates of the transactions. Balance sheet items are translated into Hong Kong dollars at the closing foreign exchange rates at the end of the reporting period. The resulting exchange differences are recognised in other comprehensive income and accumulated separately in equity in the translation reserve.

On disposal of a foreign operation, the cumulative amount of the exchange differences relating to that foreign operation is reclassified from equity to the income and expenditure account when the profit or loss on disposal is recognised.

2.18 Related parties

For the purposes of these financial statements, a person or an entity is considered to be related to the Group if:

- (a) the person, or a close member of that person's family:
 - (i) has control or joint control over the Group;
 - (ii) has significant influence over the Group; or
 - (iii) is a member of the key management personnel of the Group.
- (b) any of the following conditions applies to the entity:
 - (i) the entity and the Group are members of the same group (which means that each parent, subsidiary and fellow subsidiary is related to the others);
 - the entity is an associate or joint venture of the Group (or an associate or joint venture of a member of a group of which the Group is a member);
 - (iii) the entity and the Group are joint ventures of the same third party;
 - (iv) the entity is a joint venture of another entity and the Group is an associate of that entity;
 - (v) the entity is a post-employment benefit plan for the benefit of employees of either the Group or an entity related to the Group;
 - (vi) the entity is controlled or jointly controlled by a person identified in (a);
 - (vii) a person identified in (a)(i) has significant influence over the entity or is a member of the key management personnel of the entity (or of a parent of the entity); or
 - (viii) the entity, or any member of a group of which it is a part, provides key management personnel services to the Group.

Close members of the family of a person are those family members who may be expected to influence, or be influenced by, that person in their dealings with the entity.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

2.19 Operating segments

Operating segments are reported in a manner consistent with the internal management reports provided to the chief operating decision maker. The Group comprises the following operating segments:

- management of funds under the Currency Board Operations, including the Backing Portfolio;
- management of funds representing the general reserve assets of the Fund, including the Investment Portfolio, the Long-Term Growth Portfolio and the Strategic Portfolio; and
- maintaining the stability and integrity of monetary and financial systems of Hong Kong, which includes banking supervision and monetary management, and the activities of Hong Kong FMI Services Limited, The Hong Kong Mortgage Corporation Limited and Hong Kong Note Printing Limited.

Details of the operating segments of the Group are set out in note 31.

3 CHANGES IN ACCOUNTING POLICIES

The HKICPA has issued certain new and revised HKFRSs that are effective for the current accounting period. These new standards and amendments do not have a material impact on the Group.

The Group has not applied any new standard or interpretation that is not yet effective for the current accounting period (note 39).

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

4 INCOME AND EXPENDITURE

(a) Investment income

	Group)	Fund	
	2015	2014	2015	2014
Interest income:				
– from derivative financial instruments	460	435	460	435
– from financial assets designated at fair value	15,640	14,005	15,626	13,906
– from other financial assets	1,901	1,830	789	639
	18,001	16,270	16,875	14,980
Dividend income:				
– from financial assets designated at fair value	13,490	12,933	12,906	12,618
– from other financial assets	785	565	10	11
– from subsidiaries	-	-	487	2,621
	14,275	13,498	13,403	15,250
Income from investment properties:				
– rental income	982	1,051	-	-
– change in fair value on revaluation	1,703	1,272	-	-
	2,685	2,323	-	-
Net realised and unrealised gains/(losses):				
– on derivative financial instruments	(395)	(9,284)	(191)	(7,631)
– on financial assets and financial liabilities designated	(40,000)	50.004		(0.004
at fair value	(10,288)	70,381	(9,640)	69,221
– on disposal of available-for-sale securities	10,554	6,984	-	-
– on gold	(71)	(1)	(71)	(1)
	(200)	68,080	(9,902)	61,589
Net exchange loss	(43,870)	(51,649)	(44,937)	(52,759)
TOTAL	(9,109)	48,522	(24,561)	39,060

Net realised and unrealised gains/(losses) included a loss of HK\$332 million (2014: HK\$1,056 million) on hedging instruments designated as fair value hedge and a gain of HK\$328 million (2014: HK\$1,060 million) on hedged items.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(b) Interest expense on placements by Fiscal Reserves, HKSAR Government funds and statutory bodies

	Group and Fund	
	2015	2014
Interest on placements by Fiscal Reserves:		
– at a fixed rate determined annually ¹	46,667	27,487
Interest on placements by HKSAR Government funds and statutory bodies:		
– at a fixed rate determined annually ¹	14,722	8,658
– at market-based rates	-	2
TOTAL	61,389	36,147

¹ This rate was fixed at 5.5% per annum for 2015 (2014: 3.6%) – notes 23, 24 and 28.

(c) Other interest expense

	Group		Fund	
	2015	2014	2015	2014
Interest on Exchange Fund Bills and Notes issued	698	1,389	698	1,389
Interest expense on derivative financial instruments	296	224	96	22
Interest expense on other debt securities issued designated at fair value and trading liabilities	2	5	1	4
Interest expense on other financial liabilities	492	492	20	3
TOTAL	1,488	2,110	815	1,418

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(d) Operating expenses

	Group		Fund	
	2015	2014	2015	2014
Staff costs				
Salaries and other staff costs	1,231	1,165	990	955
Retirement benefit costs	105	98	91	86
Premises and equipment expenses				
Depreciation	198	189	151	136
Rental expenses under operating leases	93	91	62	61
Other premises expenses	69	68	60	57
General operating costs				
Maintenance of office and computer equipment	89	83	78	73
Financial information and communication services	55	53	48	46
External relations	30	29	28	27
Public education and publicity	21	12	12	7
Service fees for financial infrastructure	85	92	85	92
Professional and other services	114	89	29	28
Training	8	10	6	8
Operating expenses relating to investment properties	92	95	-	-
Others	36	37	25	29
Investment management and custodian fees				
Management and custodian fees	1,417	1,266	1,170	1,079
Transaction costs	180	145	179	142
Withholding tax	508	459	508	459
Others	62	39	59	39
TOTAL	4,393	4,020	3,581	3,324

The aggregate emoluments of senior staff (Executive Directors and above) of the Group were as follows:

	Gr	oup
	2015	2014
Fixed pay	73.9	67.3
Fixed pay Variable pay	18.8	19.5
Other benefits	10.3	9.3
	103.0	96.1

Other benefits shown above included provident funds, medical and life insurance, gratuity and annual leave accrued during the year. There were no other allowances or benefits-in-kind.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The numbers of senior staff (Executive Directors and above) of the Group whose emoluments including other benefits fell within the following bands were shown in the below table.

	Group	
HK\$	2015	2014
2,000,001 to 2,500,000	1	-
4,000,001 to 4,500,000	2	4
4,500,001 to 5,000,000	4	3
5,000,001 to 5,500,000	1	2
5,500,001 to 6,000,000	3	1
6,000,001 to 6,500,000	1	1
6,500,001 to 7,000,000	1	1
8,000,001 to 8,500,000	-	2
8,500,001 to 9,000,000	1	1
9,000,001 to 9,500,000	2	-
9,500,001 to 10,000,000	-	1
10,000,001 to 10,500,000	1	-
	17	16

(e) Note and coin expenses

These represent reimbursements to the note-issuing banks in respect of note-issuing expenses and expenses incurred directly by the Fund in issuing government-issued currency notes and coins.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

5 INCOME TAX

(a) Income tax charged in the income and expenditure account

	Group		Fund	
	2015	2014	2015	2014
Current tax				
Hong Kong profits tax				
– Current year	66	71	-	-
– Over-provision in prior years	(13)	(10)	-	-
Taxation outside Hong Kong				
– Current year	9	9	-	-
Deferred tax				
Charge for current year	61	13	-	-
	123	83	-	-

No provision for Hong Kong profits tax has been made for the Fund as it is an integral part of the government. The provision for Hong Kong profits tax relates to the tax liabilities of the Fund's subsidiaries. For 2015, it is calculated at 16.5% (2014: 16.5%) of the estimated assessable profits for the year. Tax for overseas subsidiaries is charged at the appropriate current rates of taxation ruling in the relevant countries.

Reconciliation between tax expense and accounting profit at applicable tax rates:

	Group		Fund		
	2015	2014	2015	2014	
(Deficit)/Surplus before taxation	(74,132)	8,216	(90,597)	(2,056)	
Surplus subject to tax in Hong Kong and elsewhere	5,666	4,063	-	-	
Tax calculated at domestic tax rates in the respective countries	754	487	-	-	
Tax effect of:					
non-deductible expenses	53	49	-	-	
non-taxable income	(713)	(463)	-	-	
tax losses not recognised	3	2	-	-	
over-provision in prior years	(13)	(10)	-	-	
others	39	18	-	-	
Actual tax expense	123	83	-	-	

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(b) Tax payable

		Group	1	Fund	
	Note	2015	2014	2015	2014
Tax payable	28	139	151	-	-

(c) Deferred tax

		Group		Fund		
	Note	2015	2014	2015	2014	
Net deferred tax assets	15	(32)	(59)	-	_	
Net deferred tax liabilities	28	115	121	-	-	
		83	62	-	-	

The major components of deferred tax (assets)/liabilities and the movements during the year are as follows:

			Group		
	Adjustments on bank loans and derivative financial instruments	Fair value change on financial instruments	Accelerated tax depreciation	Others	Net deferred tax (assets)/ liabilities
At 1 January 2014	(57)	58	26	-	27
Charged/(credited) to the income and expenditure account	1	_	(5)	17	13
Charged to other comprehensive income	-	20	-	-	20
Exchange differences	4	-	-	[2]	2
At 31 December 2014	(52)	78	21	15	62
At 1 January 2015	(52)	78	21	15	62
Charged to the income and expenditure account	18	-	6	37	61
Charged/(credited) to other comprehensive income	-	(40)	-	1	(39)
Exchange differences	2	-	-	(3)	(1)
At 31 December 2015	(32)	38	27	50	83

There was no significant unprovided deferred tax as at 31 December 2015 and 2014.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

6 CATEGORIES OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

					Group – 2015			
	Note	Total	Trading financial instruments and hedging instruments	Financial assets and financial liabilities designated at fair value	Loans and receivables	Held-to- maturity securities	Available- for-sale securities	Other financial liabilities
Cash and money at call	7	188,547	-	-	188,547	-	-	-
Placements with banks and other financial institutions	8	123,880	-	-	123,880	-	-	-
Financial assets designated at fair value	9	3,015,402	_	3,015,402	_	_	_	_
Available-for-sale securities	10	104,475	_		_	_	104,475	_
Derivative financial instruments	11(a)	5,831	5,831	_	_	_	-	_
Held-to-maturity securities	12	10,274	-	_	_	10,274	_	_
Loan portfolio	13	11,502	_	-	11,502	-	-	-
Others		22,689	-	-	22,689	-	-	-
FINANCIAL ASSETS		3,482,600	5,831	3,015,402	346,618	10,274	104,475	-
Certificates of Indebtedness	20	357,863	-	-	-	-	-	357,863
Government-issued currency notes								
and coins in circulation	20	11,335	-	-	-	-	-	11,335
Balance of the banking system	21	391,343	-	-	-	-	-	391,343
Placements by banks and other financial institutions	22	// 007						(/ 007
	22	66,907	-	-	-	-	-	66,907
Placements by Fiscal Reserves Placements by HKSAR Government	23	833,548	-	-	-	-	-	833,548
funds and statutory bodies	24	280,846	-	-	-	-	-	280,846
Exchange Fund Bills and								
Notes issued	25	827,792	-	827,792	-	-	-	-
Derivative financial instruments	11(a)	3,256	3,256	-	-	-	-	-
Bank loans	26	11,318	-	-	-	-	-	11,318
Other debt securities issued	27	33,463	-	343	-	-	-	33,120
Others		113,537	-	-	-	-	-	113,537
FINANCIAL LIABILITIES		2,931,208	3,256	828,135	-	-	-	2,099,817

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

	_				Group – 2014			
	Note	Total	Trading financial instruments and hedging instruments	Financial assets and financial liabilities designated at fair value	Loans and receivables	Held-to- maturity securities	Available- for-sale securities	Other financial liabilities
Cash and money at call	7	196,701	_	-	196,701	_	_	-
Placements with banks and other financial institutions	8	138,239	-	-	138,239	_	_	-
Financial assets designated at fair value	9	2,731,215	_	2,731,215	_	_	_	-
Available-for-sale securities	10	87,656	-	-	-	-	87,656	-
Derivative financial instruments	11(a)	7,554	7,554	-	-	-	-	-
Held-to-maturity securities	12	9,169	-	-	-	9,169	-	-
Loan portfolio	13	15,572	-	-	15,572	-	-	-
Others		18,564	-	-	18,564	-	-	-
FINANCIAL ASSETS		3,204,670	7,554	2,731,215	369,076	9,169	87,656	-
Certificates of Indebtedness	20	340,184	_	-	-	-	-	340,184
Government-issued currency notes and coins in circulation	20	11,028	_	_	-	_	_	11,028
Balance of the banking system	21	239,183	-	-	-	-	-	239,183
Placements by banks and other financial institutions	22	64,001	_	_	_	_	_	64,001
Placements by Fiscal Reserves	23	788,681	_	_	_	_	_	788,681
Placements by HSAR Government funds and statutory bodies	26	261,139	-	_	_	_	_	261,139
Exchange Fund Bills and Notes issued	25	751,946	_	751,946	-	_	_	-
Derivative financial instruments	11(a)	5,676	5,676	-	_	-	-	-
Bank loans	26	8,778	-	-	-	-	-	8,778
Other debt securities issued	27	33,270	-	336	-	-	-	32,934
Others		59,573	-	-	-	-	-	59,573
FINANCIAL LIABILITIES		2,563,459	5,676	752,282	_	-	-	1,805,501

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

					Fund – 2015			
	Note	Total	Trading financial instruments	Financial assets and financial liabilities designated at fair value	Loans and receivables	Held-to- maturity securities	Available- for-sale securities	Other financial liabilities
Cash and money at call	7	187,835	-	-	187,835	-	-	-
Placements with banks and other financial institutions Financial assets designated at	8	102,681	-	-	102,681	-	-	-
fair value	9	3,002,620	-	3,002,620	-	-	-	-
Available-for-sale securities	10	493	-	-	-	-	493	-
Derivative financial instruments	11(a)	5,357	5,357	-	-	-	-	-
Others		21,966	-	-	21,966	-	-	-
FINANCIAL ASSETS		3,320,952	5,357	3,002,620	312,482	-	493	-
Certificates of Indebtedness	20	357,863	-	-	-	-	-	357,863
Government-issued currency notes and coins in circulation	20	11,335	-	-	-	-	-	11,335
Balance of the banking system	21	391,343	-	-	-	-	-	391,343
Placements by banks and other financial institutions	22	66,907	-	-	-	-	-	66,907
Placements by Fiscal Reserves	23	833,548	-	-	-	-	-	833,548
Placements by HKSAR Government funds and statutory bodies	24	280,846	-	-	-	-	-	280,846
Exchange Fund Bills and Notes issued	25	827,792	-	827,792	-	-	-	-
Derivative financial instruments	11(a)	1,102	1,102	-	-	-	-	-
Others		107,182	-	-	-	-	-	107,182
FINANCIAL LIABILITIES		2,877,918	1,102	827,792	-	-	-	2,049,024

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

					F I 001/			
	Note	Total	Trading financial instruments	Financial assets and financial liabilities designated at fair value	Fund – 2014 Loans and receivables	Held-to- maturity securities	Available- for-sale securities	Other financial liabilities
Cash and money at call	7	195,528	_	_	195,528	-	-	-
Placements with banks and other financial institutions	8	120,080	-	_	120,080	-	_	-
Financial assets designated at fair value	9	2,719,373	_	2,719,373	-	_	_	-
Available-for-sale securities	10	493	-	-	-	-	493	-
Derivative financial instruments	11(a)	6,870	6,870	-	-	-	-	-
Others		17,994	-	-	17,994	-	-	-
FINANCIAL ASSETS		3,060,338	6,870	2,719,373	333,602	_	493	-
Certificates of Indebtedness	20	340,184	-	_	-	-	_	340,184
Government-issued currency notes and coins in circulation	20	11,028	_	_	-	_	_	11,028
Balance of the banking system	21	239,183	-	-	-	-	-	239,183
Placements by banks and other financial institutions	22	64,001	_	_	_	_	_	64,001
Placements by Fiscal Reserves	23	788,681	-	-	-	-	-	788,681
Placements by HKSAR Government funds and statutory bodies	24	261,139	-	-	_	-	-	261,139
Exchange Fund Bills and Notes issued	25	752,446	_	752,446	-	_	_	-
Derivative financial instruments	11(a)	3,585	3,585	-	-	-	-	-
Others		53,199	-	-	-	-	-	53,199
FINANCIAL LIABILITIES		2,513,446	3,585	752,446	_	_	-	1,757,415

7 CASH AND MONEY AT CALL

	Group		Fund	I
	2015	2014	2015	2014
At amortised cost				
Balance with central banks	67,376	101,365	67,376	101,365
Balance with banks	121,171	95,336	120,459	94,163
TOTAL	188,547	196,701	187,835	195,528

8 PLACEMENTS WITH BANKS AND OTHER FINANCIAL INSTITUTIONS

	Grou	p	Fund	I
	2015	2014	2015	2014
At amortised cost				
Placements in respect of reverse repurchase agreements:				
– with central banks	38,729	38,799	38,729	38,799
– with banks and other financial institutions	2,368	4,058	2,368	4,058
Other placements:				
– with central banks	-	2,326	-	2,326
– with banks	82,783	93,056	61,584	74,897
TOTAL	123,880	138,239	102,681	120,080

9 FINANCIAL ASSETS DESIGNATED AT FAIR VALUE

	Grou	dr	Fun	nd	
	2015	2014	2015	2014	
At fair value					
Debt securities					
Treasury bills and commercial paper					
Listed outside Hong Kong	20,460	17,800	20,460	17,800	
Unlisted	937,545	701,366	937,545	701,366	
Certificates of deposit					
Unlisted	56,357	59,648	56,357	59,648	
Other debt securities					
Listed in Hong Kong	222	-	222	-	
Listed outside Hong Kong	1,057,009	1,176,642	1,056,995	1,176,586	
Unlisted	401,700	201,428	390,420	190,860	
Total debt securities	2,473,293	2,156,884	2,461,999	2,146,260	
Equity securities					
Listed in Hong Kong	148,224	156,781	148,224	156,781	
Listed outside Hong Kong	308,412	335,606	308,412	335,606	
Unlisted	85,473	81,944	83,985	80,726	
Total equity securities	542,109	574,331	540,621	573,113	
TOTAL	3,015,402	2,731,215	3,002,620	2,719,373	

10 AVAILABLE-FOR-SALE SECURITIES

	Group		Fund	
	2015	2014	2015	2014
Debt securities, at fair value				
Listed in Hong Kong	1,650	185	-	-
Listed outside Hong Kong	808	118	-	-
Unlisted	3,267	3,947	-	-
	5,725	4,250	-	-
Equity securities				
Listed in Hong Kong, at fair value	913	984	-	-
Unlisted, at cost	493	493	493	493
	1,406	1,477	493	493
Investment funds, at fair value				
Unlisted	97,344	81,929	-	-
TOTAL	104,475	87,656	493	493

The Group's investment in unlisted equity securities as at 31 December 2015 represents a holding of 4,285 shares (2014: 4,285 shares) in the Bank for International Settlements. The nominal value of each share is 5,000 Special Drawing Rights and is 25% paid up (note 34(a)). Investment in unlisted investment funds mainly represents the Group's holding of private equity funds under the Long-Term Growth Portfolio.

11 DERIVATIVE FINANCIAL INSTRUMENTS

Derivative financial instruments refer to financial contracts whose value depends on the value of one or more underlying assets or indices with settlement at a future date.

The Group uses derivative financial instruments to manage its exposures to market risk and to facilitate the implementation of investment strategies. The principal derivative financial instruments used are interest rate and currency swap contracts, forward foreign exchange contracts, currency and bond options contracts, and equity contracts, which are primarily over-the-counter derivatives, as well as exchange-traded futures contracts.

Market risk arising from derivative financial instruments is included as part of the overall market risk exposure. The credit risk arising from these transactions is marked against the overall credit exposure to individual counterparties. The financial risk management approaches are outlined in note 36.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(a) Fair values of derivative financial instruments

An analysis of the fair values of derivative financial instruments held by product type is set out below:

		Group	0		Fund				
	201	15	201	4	201	15	201	4	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	
Derivatives categorised as trading financial instruments									
Interest rate derivatives									
Interest rate swap contracts	1,242	365	905	700	1,223	33	880	185	
Interest rate futures contracts	-	1	1	2	-	1	1	2	
Equity derivatives									
Equity contracts	-	-	127	-	-	-	-	-	
Equity index futures contracts	485	186	948	283	485	186	948	283	
Equity index option contracts	-	-	-	109	-	-	-	109	
Currency derivatives									
Forward foreign exchange contracts	3,194	794	4,969	2,037	3,194	794	4,964	2,037	
Currency option contracts	406	27	-	-	406	27	-	-	
Bond derivatives									
Bond futures contracts	11	49	12	20	11	49	12	20	
Bond option contracts	-	-	65	949	-	-	65	949	
Commodity derivatives									
Commodity futures contracts	38	12	-	-	38	12	-	-	
	5,376	1,434	7,027	4,100	5,357	1,102	6,870	3,585	
Derivatives designated as hedging instruments in fair value hedges									
Interest rate derivatives									
Interest rate swap contracts	455	2	511	10	-	-	-	-	
Currency derivatives									
Currency swap contracts	-	1,820	16	1,566	-	-	-	-	
	455	1,822	527	1,576	-	-	-	-	
TOTAL	5,831	3,256	7,554	5,676	5,357	1,102	6,870	3,585	

The fair value hedges consist of currency and interest rate swap contracts that are used to protect against changes in the fair value of certain fixed-rate securities due to movements in market interest rates.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(b) Notional amounts of derivative financial instruments

An analysis of the notional amounts of derivative financial instruments held at the balance sheet date based on the remaining periods to settlement is set out below. The notional amounts of these instruments indicate the volume of outstanding transactions and do not represent the amounts at risk.

	Group Notional amounts with remaining life of									
	Total	3 months or less	2015 1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	Total	3 months or less	2014 1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years
Derivatives categorised as trading financial instruments	Totat	01 (035	o montaio	i your	o jeuro	Totat	01 (633	0 months	i jeui	U years
Interest rate derivatives										
Interest rate swap contracts	42,476	-	273	27,828	14,375	74,780	20,623	26,037	12,398	15,722
Interest rate futures contracts	9,274	1,579	4,046	3,649	-	17,738	3,967	4,788	8,983	-
Equity derivatives										
Equity contracts	-	-	-	-	-	938	-	938	-	-
Equity index futures contracts	72,710	72,710	-	-	-	101,902	101,902	-	-	-
Equity index option contracts	-	-	-	-	-	3,877	3,877	-	-	-
Currency derivatives										
Forward foreign exchange contracts	252,777	173,414	79,363	-	-	220,576	155,146	65,430	-	-
Currency option contracts	48,293	48,293	-	-	-	-	-	-	-	-
Bond derivatives										
Bond futures contracts	34,939	34,939	-	-	-	20,641	20,641	-	-	-
Bond option contracts	-	-	-	-	-	77,549	-	77,549	-	-
Commodity derivatives										
Commodity futures contracts	4,746	2,980	1,766	-	-	-	-	-	-	-
	465,215	333,915	85,448	31,477	14,375	518,001	306,156	174,742	21,381	15,722
Derivatives designated as hedging instruments in fair value hedges										
Interest rate derivatives										
Interest rate swap contracts	14,228	445	5,428	7,002	1,353	10,328	200	1,295	6,966	1,867
Currency derivatives										
Currency swap contracts	14,568	7,041	1,828	5,002	697	18,990	4,829	6,905	6,478	778
	28,796	7,486	7,256	12,004	2,050	29,318	5,029	8,200	13,444	2,645
TOTAL	494,011	341,401	92,704	43,481	16,425	547,319	311,185	182,942	34,825	18,367

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

					Fun	d					
		Notional amounts with remaining life of									
			2015			<u> </u>		2014			
	Total	3 months or less	1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	Total	3 months or less	1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	
Derivatives categorised as trading financial instruments											
Interest rate derivatives											
Interest rate swap contracts	33,846	-	-	19,593	14,253	64,692	19,775	25,987	3,330	15,600	
Interest rate futures contracts	9,274	1,579	4,046	3,649	-	17,738	3,967	4,788	8,983	-	
Equity derivatives											
Equity index futures contracts	72,710	72,710	-	-	-	101,902	101,902	-	-	-	
Equity index option contracts	-	-	-	-	-	3,877	3,877	-	-	-	
Currency derivatives											
Forward foreign exchange contracts	252,777	173,414	79,363	-	-	219,876	154,446	65,430	-	-	
Currency option contracts	48,293	48,293	-	-	-	-	-	-	-	-	
Bond derivatives											
Bond futures contracts	34,939	34,939	-	-	-	20,641	20,641	-	-	-	
Bond option contracts	-	-	-	-	-	77,549	-	77,549	-	-	
Commodity derivatives											
Commodity futures contracts	4,746	2,980	1,766	-	-	-	-	-	-	-	
TOTAL	456,585	333,915	85,175	23,242	14,253	506,275	304,608	173,754	12,313	15,600	

12 HELD-TO-MATURITY SECURITIES

	Group		Fund	
	2015	2014	2015	2014
At amortised cost				
Debt securities				
Listed in Hong Kong	4,431	2,973	-	-
Listed outside Hong Kong	1,685	2,190	-	-
Unlisted	4,158	4,006	-	-
TOTAL	10,274	9,169	-	-

Fair value information of the above held-to-maturity securities is provided in note 37.2.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

13 LOAN PORTFOLIO

	Group		Fund	
	2015	2014	2015	2014
Mortgage loans, at amortised cost	10,935	14,874	-	-
Non-mortgage loans, at amortised cost	568	699	-	-
Allowance for loan impairment	(1)	(1)	-	-
TOTAL	11,502	15,572	-	-

14 GOLD

	Group and F	und
	2015	2014
Gold, at fair value		
66,798 ounces (2014: 66,798 ounces)	550	621

The fair value of gold is based on quoted price in an active market. It is classified under Level 1 of the fair value hierarchy.

15 OTHER ASSETS

	Group		Group		Fund	
	2015	2014	2015	2014		
Interest and dividends receivable	7,653	7,133	7,343	6,818		
Unsettled sales and redemption of securities	7,016	7,329	7,016	7,329		
Prepayments, receivables and other assets	7,633	3,652	7,122	3,294		
Staff housing loans	158	120	158	120		
Loan to the International Monetary Fund	355	459	355	459		
Deferred tax assets	32	59	-	-		
TOTAL	22,847	18,752	21,994	18,020		

16 INTERESTS IN SUBSIDIARIES

	Fund	
	2015	2014
Unlisted shares, at cost	2,312	2,312
Loans to subsidiaries	96,019	82,610
TOTAL	98,331	84,922

The following is a list of the principal subsidiaries held directly by the Fund as at 31 December 2015:

Name of company	Place of incorporation and operation	Principal activities	Issued equity capital	Fund's interest in equity capital
The Hong Kong Mortgage Corporation Limited	Hong Kong	Investment in mortgages and loans, mortgage securitisation and guarantee	HK\$2,000,000,000	100%
Hong Kong Note Printing Limited	Hong Kong	Banknote printing	HK\$255,000,000	55%
Hong Kong FMI Services Limited	Hong Kong	Performance of financial market infrastructure related operations	HK\$167,000,000	100%
Debt Capital Solutions Company Limited	Hong Kong	Investment holding	HK\$1	100%
Drawbridge Investment Limited	Hong Kong	Investment holding	HK\$1	100%
Eight Finance Investment Company Limited	Hong Kong	Investment holding	HK\$1	100%
Stratosphere Finance Company Limited	Hong Kong	Investment holding	HK\$1	100%
Real Avenue Investment Company Limited	Hong Kong	Investment properties holding	HK\$1	100%
Real Boulevard Investment Company Limited	Hong Kong	Investment properties holding	НК\$1	100%
Real Gate Investment Company Limited	Hong Kong	Investment properties holding	HK\$1	100%
Real Horizon Investment Company Limited	Hong Kong	Investment properties holding	HK\$1	100%
Real Plaza Investment Company Limited	Hong Kong	Investment properties holding	НК\$1	100%
Real Summit Investment Company Limited	Hong Kong	Investment properties holding	НК\$1	100%

Loans to subsidiaries which principally hold investments including properties are unsecured, interest-free and repayable on demand.

The financial statements of these subsidiaries have been audited by firms other than the Audit Commission. The aggregate net assets of these companies not audited by the Audit Commission amounted to 9.09% (2014: 6.36%) of the Group's net assets.

17 INTERESTS IN ASSOCIATES AND JOINT VENTURES

	Group		Fund	
	2015	2014	2015	2014
Associates				
Unlisted shares, at cost	-	_	-	-
Share of net assets	670	485	-	-
	670	485	-	-
Joint ventures				
Share of net assets	3,995	2,253	-	-
Due from joint ventures	16,523	13,710	-	-
	20,518	15,963	-	-
TOTAL	21,188	16,448	-	_

The Group holds investments in two associates. One of the associates is incorporated in Hong Kong which provides interbank clearing services. The other associate is incorporated outside Hong Kong which holds overseas investment properties. The Group holds equity interest in these associates ranging from 30% to 50%.

Aggregate information of the Group's associates that are not individually material is summarised below:

	Group	
	2015	2014
Share of (loss)/profit for the year	(18)	10
Share of total comprehensive (loss)/income	(18)	10
Aggregate carrying amount of interests in the associates	670	485

The Group's share of outstanding investment commitments to associates is shown below:

	Group	
	2015	2014
Commitments to contribute funds	3,962	860

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The Group holds investments in eleven joint ventures, which are all incorporated outside Hong Kong. The principal activities of these joint ventures are the holding of overseas investment properties. At the end of 2015, the Group holds equity interest in these joint ventures ranging from 48% to 51%. Although the Group's equity interest in some of these joint ventures exceeds 50%, they are categorised as joint ventures because important business decisions relating to these joint ventures are required to be made with the consent of all parties. At 31 December 2015, the aggregate interest in these joint ventures amounted to 0.58% (2014: 0.49%) of the Group's total assets.

Aggregate information of the Group's joint ventures that are not individually material is summarised below:

	Group	
	2015	2014
Share of profit for the year	1,995	1,720
Share of other comprehensive loss	(253)	(247)
Share of total comprehensive income	1,742	1,473
Aggregate carrying amount of interests in the joint ventures	20,518	15,963

The Group's share of outstanding investment commitments to joint ventures is shown below:

	Group	
	2015	2014
Commitments to contribute funds	1,698	487

18 INVESTMENT PROPERTIES

	Group		Fund	
	2015	2014	2015	2014
At fair value				
At 1 January	17,493	17,695	-	-
Additions	5,694	_	-	-
Change in fair value on revaluation	1,703	1,272	-	-
Exchange differences	(1,269)	(1,474)	-	-
At 31 December	23,621	17,493	-	-

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The carrying amount of the Group's investment properties is analysed as follows:

	Group		Fund	
	2015	2014	2015	2014
Held outside Hong Kong				
on freehold	9,291	9,077	-	-
on long-term lease (over 50 years)	14,330	8,416	-	-
TOTAL	23,621	17,493	-	-

The Group's investment properties are leased to third parties under operating leases. The gross rental income received and receivable by the Group and the related expenses in respect of these investment properties are summarised as follows:

	Group		Fund	
	2015	2014	2015	2014
Gross rental income	982	1,051	-	-
Direct expenses	(92)	(95)	-	-
Net rental income	890	956	-	_

The Group's total future minimum lease payments receivable under non-cancellable operating leases are as follows:

	Group		Fund	
	2015	2014	2015	2014
Within one year	1,156	917	-	-
After one year but not later than five years	4,394	3,576	-	-
After five years but not later than ten years	3,497	3,260	-	-
After ten years but not later than fifteen years	625	1,082	-	-
After fifteen years but not later than twenty years	8	-	-	-
TOTAL	9,680	8,835	-	-

At 31 December 2015, investment properties with a fair value of HK\$23,621 million (2014: HK\$17,493 million) were pledged to secure general banking facilities granted to the Group (note 26).

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

18.1 Fair value measurement of investment properties

The Group's investment properties are revalued by independent professional valuers on an open market value basis at the end of each financial year, except for the additions in 2015 (HK\$5,694 million) which were valued by management based on the valuation made by independent professional valuers in November 2015 prior to recognition. The valuers have valued the Group's investment properties based on income approach with reference to comparable market evidence. The market value which is considered as the fair value of each investment property reflects, among other things, rental income from current leases and assumptions about rental income from future leases in light of the current market conditions. The fair value also reflects, on a similar basis, any cash outflows that could be expected in respect of the property. For all properties, their current use equates to the highest and best use. There has been no change to the valuation technique during the year.

Under the income approach, fair value is estimated using assumptions regarding the benefits and liabilities of ownership over the asset's life including the terminal value. This method involves the projection of a series of cash flows on a real property interest. To this projected cash flow series, a market-derived discount rate is applied to establish the present value of the income stream associated with the asset. The significant unobservable inputs used in the income approach are the selection of discount rates which ranged from 4.75% to 5.00% (2014: 5.50% to 6.85%), net initial yields which ranged from 4.50% to 5.16% (2014: 4.89% to 4.99%) and terminal capitalisation rates which ranged from 3.75% to 4.20% (2014: 4.0% to 4.8%). Significant increases or decreases in any of those inputs in isolation would result in significantly lower or higher fair value measurements, respectively.

All of the Group's investment properties are classified under Level 3 of the fair value hierarchy. There were no transfers into or out of Level 3 during the year.

	Group		Fund	
	2015	2014	2015	2014
At 1 January	17,493	17,695	-	-
Additions	5,694	-	-	-
Change in fair value on revaluation recognised as "income from investment properties" in the income and expenditure account	1,703	1,272	_	-
Exchange differences recognised in other comprehensive income	(1,269)	(1,474)	-	-
At 31 December	23,621	17,493	-	_
Net gains recognised in the income and expenditure account held at the balance sheet date	1,703	1,272	-	_

An analysis of the movement between opening and closing balances of Level 3 investment properties, measured at fair value using a valuation technique with significant unobservable inputs, is shown below:

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

19 PROPERTY, PLANT AND EQUIPMENT

(a)

	Group				
	Premises	Plant and equipment	Computer software licences and system development costs	Total	
Cost					
At 1 January 2014	3,852	990	331	5,173	
Additions	-	114	24	138	
Disposals	_	(36)	_	(36)	
At 31 December 2014	3,852	1,068	355	5,275	
At 1 January 2015	3,852	1,068	355	5,275	
Additions	-	85	29	114	
Disposals	-	(23)	-	(23)	
At 31 December 2015	3,852	1,130	384	5,366	
Accumulated depreciation					
At 1 January 2014	897	680	264	1,841	
Charge for the year	87	88	14	189	
Written back on disposal	-	(36)	_	(36)	
At 31 December 2014	984	732	278	1,994	
At 1 January 2015	984	732	278	1,994	
Charge for the year	89	91	18	198	
Written back on disposal	-	(18)	-	(18)	
At 31 December 2015	1,073	805	296	2,174	
Net book value					
At 31 December 2015	2,779	325	88	3,192	
At 31 December 2014	2,868	336	77	3,281	

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

	Fund				
	Premises	Plant and equipment	Computer software licences and system development costs	Total	
Cost					
At 1 January 2014	3,843	368	331	4,542	
Additions	_	86	24	110	
Disposals	-	[6]	-	[6]	
At 31 December 2014	3,843	448	355	4,646	
At 1 January 2015	3,843	448	355	4,646	
Additions	-	43	29	72	
Disposals	-	(4)	-	(4)	
At 31 December 2015	3,843	487	384	4,714	
Accumulated depreciation					
At 1 January 2014	892	272	264	1,428	
Charge for the year	87	35	14	136	
Written back on disposal	_	[6]	-	[6]	
At 31 December 2014	979	301	278	1,558	
At 1 January 2015	979	301	278	1,558	
Charge for the year	88	45	18	151	
Written back on disposal	-	(4)	-	(4)	
At 31 December 2015	1,067	342	296	1,705	
Net book value					
At 31 December 2015	2,776	145	88	3,009	
At 31 December 2014	2,864	147	77	3,088	

(b) The net book value of premises comprises:

	Group		Fund	
	2015	2014	2015	2014
In Hong Kong				
Leasehold land and the building situated thereon (leasehold between 10 and 50 years)	2,757	2,845	2,754	2,841
Outside Hong Kong				
Freehold land and the building situated thereon	22	23	22	23
TOTAL	2,779	2,868	2,776	2,864

20 CERTIFICATES OF INDEBTEDNESS, GOVERNMENT-ISSUED CURRENCY NOTES AND COINS IN CIRCULATION

	Group and Fund				
	Certifica	tes of Indebtedness		ent-issued currency d coins in circulation	
	2015	2014	2015	2014	
Carrying amount	357,863	340,184	11,335	11,028	
Reconciliation with face value:					
Hong Kong dollar face value	360,165	342,165	11,408	11,092	
Linked exchange rate for calculating the US dollars required for redemption	US\$1=HK\$7.80	US\$1=HK\$7.80	US\$1=HK\$7.80	US\$1=HK\$7.80	
US dollars required for redemption	US\$46,175 million	US\$43,867 million	US\$1,463 million	US\$1,422 million	
Market exchange rate for translation into Hong Kong dollars	US\$1=HK\$7.75015	US\$1=HK\$7.75485	US\$1=HK\$7.75015	US\$1=HK\$7.75485	
Carrying amount	357,863	340,184	11,335	11,028	

21 BALANCE OF THE BANKING SYSTEM

Under the interbank payment system based on Real Time Gross Settlement principles, all licensed banks maintain a Hong Kong dollar clearing account with the Hong Kong Monetary Authority (HKMA) for the account of the Fund. The aggregate amount in these clearing accounts, which must not have a negative balance, represents the total level of liquidity in the interbank market.

Under the weak-side Convertibility Undertaking, the HKMA undertakes to convert Hong Kong dollars in these clearing accounts into US dollars at the fixed exchange rate of US\$1=HK\$7.85. Likewise, under the strong-side Convertibility Undertaking, licensed banks can convert US dollars into Hong Kong dollars in these accounts, as the HKMA undertakes to buy US dollars at the fixed exchange rate of US\$1=HK\$7.75. Within the Convertibility Zone bounded by the two Convertibility Undertakings, the HKMA may choose to conduct market operations in a manner consistent with Currency Board principles. Such operations can result in matching changes in the balances of these accounts.

The balance of the banking system is repayable on demand, non-interest-bearing and is shown at its Hong Kong dollar amount.

22 PLACEMENTS BY BANKS AND OTHER FINANCIAL INSTITUTIONS

	Group and	Fund
	2015	2014
At amortised cost		
Placements by central banks	60,664	63,171
Placements by banks	6,243	830
TOTAL	66,907	64,001

23 PLACEMENTS BY FISCAL RESERVES

	Group and Fund	
	2015	2014
Placements with interest payable at a fixed rate determined annually		
General Revenue Account	496,365	447,930
Land Fund (note 38)	219,730	219,730
Capital Works Reserve Fund	64,105	67,980
Civil Service Pension Reserve Fund	27,129	27,029
Disaster Relief Fund	17	8
Innovation and Technology Fund	184	1,156
Lotteries Fund	22,026	21,571
Capital Investment Fund	1,864	2,440
Loan Fund	2,124	834
	833,544	788,678
Placements with interest payable at market-based rates		
General Revenue Account	4	3
TOTAL	833,548	788,681

Placements by Fiscal Reserves are repayable on demand. Interest on the majority of these placements is payable at a fixed rate determined every January. The rate is the average annual investment return of the Fund's Investment Portfolio for the past six years or the average annual yield of three-year Exchange Fund Notes for the previous year subject to a minimum of zero percent, whichever is the higher. This rate was fixed at 5.5% per annum for 2015 (2014: 3.6%). The accrued interest on these placements for 2015 amounting to HK\$45.2 billion (2014: HK\$27.5 billion) was earmarked for the establishment of a Housing Reserve in accordance with the directive made by the Financial Secretary and included in "other liabilities" (note 28).

24 PLACEMENTS BY HONG KONG SPECIAL ADMINISTRATIVE REGION GOVERNMENT FUNDS AND STATUTORY BODIES

	Group and Fund	
	2015	2014
Placements with interest payable at a fixed rate ¹ determined annually		
Research Endowment Fund	26,351	25,805
Bond Fund	127,501	112,718
Housing Authority	40,008	37,923
West Kowloon Cultural District Authority	15,751	14,930
Trading Funds	7,883	7,472
Community Care Fund	17,420	16,512
Elite Athletes Development Fund	6,761	6,742
Samaritan Fund	6,943	6,581
Environment and Conservation Fund	5,245	4,971
Employees Retraining Board	13,591	12,882
Language Fund	5,424	5,142
Hospital Authority	7,903	7,491
	280,781	259,169
Placements with interest payable at market-based rates		
Deposit Protection Scheme Fund	65	1,970
TOTAL	280,846	261,139

¹ The rate is the average annual investment return of the Fund's Investment Portfolio for the past six years or the average annual yield of three-year Exchange Fund Notes for the previous year subject to a minimum of zero percent, whichever is the higher. This rate was fixed at 5.5% per annum for 2015 (2014: 3.6%).

25 EXCHANGE FUND BILLS AND NOTES ISSUED

	Group		Fund	
	2015	2014	2015	2014
At fair value				
Exchange Fund Bills and Notes issued				
Exchange Fund Bills	769,784	683,905	769,784	683,905
Exchange Fund Notes	60,007	69,641	60,007	69,641
	829,791	753,546	829,791	753,546
Exchange Fund Bills held	(1,999)	(1,600)	(1,999)	(1,100)
TOTAL	827,792	751,946	827,792	752,446

EFBN issued are unsecured obligations of the Fund and are one of the components of the Monetary Base in the Currency Board Account. Exchange Fund Bills are issued by the Fund for maturities not exceeding one year. Exchange Fund Notes are issued by the Fund with 2-year, 3-year, 5-year, 7-year, 10-year and 15-year maturities. EFBN issued are valued at offer prices derived from the "HKMA EFBN Closing Reference" adjusted by observed market spreads.

Since January 2015, the Fund has ceased to issue Exchange Fund Notes with tenors of three years or above to avoid overlapping with Government Bonds of the same tenors. To maintain the overall size of Exchange Fund paper, the Fund has issued additional Exchange Fund Bills to replace maturing Exchange Fund Notes of those tenors.

Exchange Fund Bills held by the Fund as a result of market making activities are considered as redemption of the bills issued and are derecognised.

An analysis of the nominal value of EFBN issued at the beginning and the end of year is set out below:

		Group			Fund			
	20	15	20	14	20	15	20	14
	Exchange Fund Bills	Exchange Fund Notes						
Issued by Currency Board Operations segment								
Nominal value at 1 January	683,930	68,700	715,813	68,100	683,930	68,700	715,813	68,100
Issuance	2,237,406	4,800	2,128,131	16,400	2,237,406	4,800	2,128,131	16,400
Redemption	(2,151,515)	(14,900)	(2,160,014)	(15,800)	(2,151,515)	(14,900)	(2,160,014)	(15,800)
Nominal value at 31 December	769,821	58,600	683,930	68,700	769,821	58,600	683,930	68,700
Long positions held by Financial Stability and Other Activities segment								
Nominal value at 31 December	(2,000)	-	(1,600)	-	(2,000)	-	(1,100)	-
Total nominal value	767,821	58,600	682,330	68,700	767,821	58,600	682,830	68,700
Carrying amount, at fair value	767,785	60,007	682,305	69,641	767,785	60,007	682,805	69,641
Difference	36	(1,407)	25	(941)	36	(1,407)	25	[941]

The fair value changes of EFBN issued are attributable to changes in benchmark interest rates.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

26 BANK LOANS

	Group		Fund	
	2015	2014	2015	2014
At amortised cost				
Bank loans repayable:				
Within one year	76	-	-	-
After one year but not later than two years	3,728	1,954	-	-
After two years but not later than five years	4,408	6,824	-	-
More than ten years	3,106	-	-	-
TOTAL	11,318	8,778	-	-

27 OTHER DEBT SECURITIES ISSUED

	Group		Fund	
	2015	2014	2015	2014
Debt securities issued, carried at amortised cost	5,682	5,109	-	-
Debt securities issued, designated as hedged items under fair value hedge	27,438	27,825	-	_
Debt securities issued, designated at fair value	343	336	-	-
TOTAL	33,463	33,270	-	-

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

An analysis of the nominal value of other debt securities issued at the beginning and the end of year is set out below:

	Group		Fund	
	2015	2014	2015	2014
Total debt securities issued				
Nominal value at 1 January	34,415	31,425	-	-
Issuance	23,047	30,468	-	-
Redemption	(22,527)	(27,505)	-	-
Foreign currency translation differences	3	27	-	-
Nominal value at 31 December	34,938	34,415	-	-
Carrying amount	33,463	33,270	-	-
Difference	1,475	1,145	-	_
Debt securities issued, designated at fair value				
Nominal value	389	389	-	-
Carrying amount, at fair value	343	336	-	-
Difference	46	53	-	_

The fair value changes of debt securities issued designated at fair value are attributable to changes in benchmark interest rates.

28 OTHER LIABILITIES

	Group		Fund	
	2015	2014	2015	2014
Interest payable on placements by Fiscal Reserves ¹	74,154	27,487	74,154	27,487
Unsettled purchases of securities	32,275	24,902	32,275	24,902
Accrued charges and other liabilities	7,238	7,219	705	741
Other interest payable	362	353	145	166
Tax payable	139	151	-	-
Deferred tax liabilities	115	121	-	-
TOTAL	114,283	60,233	107,279	53,296

¹ In accordance with the directives made by the Financial Secretary in December 2014 and December 2015, the accrued interest on placements by Fiscal Reserves earned for 2014 (HK\$27,487 million) and 2015 (HK\$45,155 million) shall not be payable on 31 December of the respective years. The arrangement is intended to earmark for the establishment of a Housing Reserve a sum which may be made available for appropriation under the Public Finance Ordinance for the purpose of financing the development of public housing and public housing-related projects and infrastructure. The sum shall earn interest at the fixed rate (note 23) and shall be payable to the fund accounts of the Fiscal Reserves on a date determined by the Financial Secretary. The interest accrued in 2015 on the portion of Housing Reserve earmarked in December 2014 (HK\$27,487 million) was HK\$1,512 million.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

29 EQUITY

	Group	2	Fund	I
	2015	2014	2015	2014
Attributable to owner of the Fund				
Accumulated surplus				
At 1 January	665,995	657,989	635,452	637,508
(Deficit)/Surplus for the year	(74,473)	8,006	(90,597)	(2,056)
At 31 December	591,522	665,995	544,855	635,452
Revaluation reserve				
At 1 January	12,539	13,563	-	-
Fair value changes on available-for-sale securities:				
– revaluation	(3,923)	(944)	-	-
– realisation on disposal	(157)	(63)	-	-
– tax effect	40	(20)	-	-
Fair value changes on cash flow hedges:				
- transferred to income and expenditure account	3	3	-	-
– tax effect	(1)	-	-	_
	(4,038)	(1,024)	-	-
At 31 December	8,501	12,539	-	-
Translation reserve				
At 1 January	(830)	73	-	-
Currency translation differences:		r		
– subsidiaries, associates and joint ventures	(923)	(890)	-	-
– reserve released on disposal of a subsidiary classified		(
as assets held for sale	-	(13)	-	_
	(923)	(903)	-	
At 31 December	(1,753)	(830)	-	_
	598,270	677,704	544,855	635,452
Non-controlling interests				
At 1 January	878	566	-	-
Surplus for the year	218	127	-	-
Currency translation differences	(12)	(16)	-	-
Capital injection by non-controlling interests	14	228	-	-
Disposal of a subsidiary classified as assets held for sale	-	(13)	-	-
Dividends paid to non-controlling interests	(13)	(14)	-	_
At 31 December	1,085	878	-	_
TOTAL	599,355	678,582	544,855	635,452

30 ANALYSIS OF CASH AND CASH EQUIVALENTS IN THE STATEMENT OF CASH FLOWS

	Grou	Group		I
	2015	2014	2015	2014
Cash and money at call	188,547	196,701	187,835	195,528
Placements with banks and other financial institutions	106,734	125,726	98,795	117,774
Treasury bills and commercial paper	79,475	480	79,475	480
TOTAL	374,756	322,907	366,105	313,782

Reconciliation with the balance sheet

		Group		Fund	
	Note	2015	2014	2015	2014
Amounts shown in the balance sheet					
Cash and money at call	7	188,547	196,701	187,835	195,528
Placements with banks and other financial institutions	8	123,880	138,239	102,681	120,080
Treasury bills and commercial paper	9	958,005	719,166	958,005	719,166
		1,270,432	1,054,106	1,248,521	1,034,774
Less: Amounts with original maturity beyond 3 months		(895,676)	(731,199)	(882,416)	(720,992)
Cash and cash equivalents in the statement of cash flows		374,756	322,907	366,105	313,782

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

31 OPERATING SEGMENT INFORMATION

The Group determines its operating segments based on the reports reviewed by the chief operating decision maker. As a central banking institution, the HKMA is responsible for managing the Exchange Fund and maintaining the monetary and banking stability of Hong Kong. The Group comprises operating segments as stated in note 2.19.

	Group							
	Currency Board Operations (note 31(a))					ncial Stability and Other Activities		ι
	2015	2014	2015	2014	2015	2014	2015	2014
Income								
Interest and dividend income	5,056	3,738	25,822	24,862	1,398	1,168	32,276	29,768
Investment gains/(losses)	(1,068)	2,417	(38,056)	16,995	(2,261)	(658)	(41,385)	18,754
Other income	-	_	42	21	692	668	734	689
	3,988	6,155	(12,192)	41,878	(171)	1,178	(8,375)	49,211
Expenditure								
Interest expense	698	1,389	61,907	36,603	272	265	62,877	38,257
Other expenses	1,063	922	1,463	1,363	2,331	2,183	4,857	4,468
	1,761	2,311	63,370	37,966	2,603	2,448	67,734	42,725
(Deficit)/Surplus before share of profit of associates and								
joint ventures	2,227	3,844	(75,562)	3,912	(2,774)	(1,270)	(76,109)	6,486
Share of profit of associates and joint ventures, net of tax	-	_	1,958	1,713	19	17	1,977	1,730
(Deficit)/Surplus before taxation	2,227	3,844	(73,604)	5,625	(2,755)	(1,253)	(74,132)	8,216

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

					Grou	up				
	Currency Opera (note 3	tions	Reserves Management		Financial Stability and Other Activities		Re-allocation (note 31(b) & (c))		Total	
	2015	2014	2015	2014	2015	2014	2015	2014	2015	2014
Assets										
Backing Assets										
Investment in designated US dollar assets	1,695,018	1,449,637	-	-	-	-	-	-	1,695,018	1,449,637
Interest receivable on designated US dollar assets	1,310	1,309	-	-	-	-	-	-	1,310	1,309
Net accounts receivable/(payable)	(3,872)	(7,750)	-	-	-	-	3,872	7,750	-	-
Other investments	-	-	1,646,893	1,607,178	159,527	157,899	(1,999)	(1,600)	1,804,421	1,763,477
Other assets	-	-	23,261	21,604	6,144	5,799	1,155	875	30,560	28,278
TOTAL ASSETS	1,692,456	1,443,196	1,670,154	1,628,782	165,671	163,698	3,028	7,025	3,531,309	3,242,701
Liabilities										
Monetary Base										
Certificates of Indebtedness	357,863	340,184	-	-	-	-	-	-	357,863	340,184
Government-issued currency notes and coins in circulation	11,335	11,028	-	-	-	_	-	_	11,335	11,028
Balance of the banking system	391,343	239,183	-	-	-	-	-	-	391,343	239,183
Exchange Fund Bills and Notes issued	829,791	753,546	-	-	-	-	(1,999)	(1,600)	827,792	751,946
Interest payable on Exchange Fund Notes	145	166	-	-	-	-	-	-	145	166
Net accounts (receivable)/payable	(1,128)	(727)	-	-	-	-	1,155	875	27	148
Other debt securities issued	-	-	-	-	33,463	33,270	-	-	33,463	33,270
Placements by banks and other financial institutions	-	-	6,243	830	60,664	63,171	-	-	66,907	64,001
Bank loans	-	-	11,318	8,778	-	-	-	-	11,318	8,778
Placements by Fiscal Reserves	-	-	833,548	788,681	-	-	-	-	833,548	788,681
Placements by HKSAR Government funds and statutory bodies	-	-	280,781	259,169	65	1,970	-	-	280,846	261,139
Other liabilities	-	-	105,294	49,723	8,201	8,122	3,872	7,750	117,367	65,595
TOTAL LIABILITIES	1,589,349	1,343,380	1,237,184	1,107,181	102,393	106,533	3,028	7,025	2,931,954	2,564,119

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(a) Currency Board Operations

Starting from 1 October 1998, specific US dollar assets of the Fund have been designated to back the Monetary Base, which comprises Certificates of Indebtedness, government-issued currency notes and coins in circulation, the balance of the banking system and EFBN issued. While specific assets of the Fund have been earmarked for backing the Monetary Base, all the Fund's assets are available for the purpose of supporting the Hong Kong dollar exchange rate under the Linked Exchange Rate system.

In accordance with an arrangement approved by the Financial Secretary in January 2000, assets can be transferred between the Backing Portfolio and general reserves when the Backing Ratio reaches either the upper trigger point (112.5%) or the lower trigger point (105%). This arrangement allows transfer of excess assets out of the Backing Portfolio to maximise their earning potential while ensuring that there are sufficient liquid assets in the Backing Portfolio. The Backing Ratio stood at 106.33% as at 31 December 2015 (2014: 107.27%).

(b) Re-allocation of assets and liabilities

For the purpose of the Currency Board Operations segment, certain liabilities of the Fund are deducted from the Backing Assets and certain assets are deducted from the Monetary Base in order to allow proper computation of the Backing Ratio. This re-allocation adjustment adds back these items in order to reconcile the segmental information to the Group balance sheet.

The Backing Assets are presented on a net basis in the Currency Board Operations. Accounts payable for unsettled purchases of securities are included in "net accounts payable" to offset corresponding investments in the Backing Assets. As at 31 December 2015, deductions from the Backing Assets comprised "other liabilities" of HK\$3,872 million (2014: HK\$7,750 million).

The Monetary Base is also presented on a net basis. As Hong Kong dollar interest rate swaps have been used as a means to manage the cost of issuing Exchange Fund Notes, interest receivable of HK\$30 million (2014: HK\$27 million) and unrealised gains of HK\$1,125 million (2014: HK\$848 million) on these interest rate swaps are included in "net accounts (receivable)/payable" to reduce the Monetary Base. As at 31 December 2015, deductions from the Monetary Base comprised "other assets" of HK\$1,155 million (2014: HK\$875 million).

(c) EFBN held by the Financial Stability and Other Activities segment are treated as redemption of EFBN issued in the Currency Board Operations segment.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

32 PLEDGED ASSETS

Assets are pledged as margin for equity index contracts, bond futures contracts and securities lending agreements and as collateral for securing general banking facilities. Securities lent do not include EFBN in issue. There are no financial assets pledged against contingent liabilities.

		Group		Fund	
	Note	2015	2014	2015	2014
Secured liabilities					
Bond futures contracts, at fair value	11(a)	38	8	38	8
Interest rate futures contracts, at fair value	11(a)	1	1	1	1
Interest rate swap contracts, at fair value		5	27	5	27
Bank loans	26	11,318	8,778	-	-
Assets pledged					
Cash and money at call		307	92	307	92
Financial assets designated at fair value		7,550	6,901	7,550	6,901
Investment properties		23,621	17,493	-	_

During the year, the Group entered into collateralised reverse repurchase agreements, repurchase agreements and securities lending transactions that may result in credit exposure in the event that the counterparty to the transaction is unable to fulfil its contractual obligations. The Group controls credit risk associated with these activities by monitoring counterparty credit exposure and collateral values on a daily basis and requiring additional collateral to be deposited with or returned to the Group when deemed necessary.

These transactions are conducted under terms that are usual and customary to standard lending, and securities borrowing and lending activities.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

33 COMMITMENTS

(a) Capital commitments

Capital expenditure authorised but not provided for in the financial statements at the balance sheet date was as follows:

	Group)	Fund	
	2015	2014	2015	2014
Contracted for	16	6	-	6
Authorised but not yet contracted for	343	227	242	181
	359	233	242	187

(b) Credit facility to the International Monetary Fund

The Fund has participated in the New Arrangements to Borrow (NAB), a standby credit facility provided to the International Monetary Fund (IMF) for the purpose of managing instability in the international monetary system. The facility is subject to periodic review and renewal. As at 31 December 2015, the Fund had an undertaking under the NAB to lend foreign currencies to the IMF up to HK\$3,651 million equivalent (2014: HK\$3,820 million equivalent), in the form of a loan bearing prevailing market interest rates. The outstanding principal due from the IMF under the NAB amounted to HK\$355 million equivalent with a repayment term of five years (2014: HK\$459 million equivalent).

(c) Credit facility to the Hong Kong Deposit Protection Board

The Fund has provided the Hong Kong Deposit Protection Board (HKDPB) with a standby credit facility of HK\$120 billion (2014: HK\$120 billion) at prevailing market interest rates for meeting the necessary liquidity required for payment of compensation in the event of a bank failure. As at 31 December 2015, there was no outstanding balance due from the HKDPB under this facility (2014: Nil).

(d) Credit facility to The Hong Kong Mortgage Corporation Limited

The Fund has provided the HKMC with a revolving credit facility of HK\$30 billion (2014: HK\$30 billion) at prevailing market interest rates. As at 31 December 2015, there was no outstanding balance due from the HKMC under this facility (2014: Nil).

(e) Repurchase agreements with other central banks

The Fund has entered into bilateral repurchase agreements with various central banks in Asia and Australasia amounting up to HK\$44,563 million equivalent (2014: HK\$44,590 million equivalent). The arrangement allows each organisation to enhance the liquidity of its foreign reserve portfolio with minimal additional risk. As at 31 December 2015, there was no outstanding transaction with any central bank under this arrangement (2014: Nil).

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(f) Chiang Mai Initiative Multilateralisation Agreement

The Chiang Mai Initiative Multilateralisation (CMIM) was established under the aegis of the 10 Association of Southeast Asian Nations (ASEAN) member countries together with China, Japan and Korea (ASEAN+3) to provide short-term US dollars through currency swap transactions to participants facing balance-of-payments and liquidity difficulties with a total size of US\$240 billion (2014: US\$240 billion). Hong Kong, through the HKMA, participates in the CMIM and has undertaken to commit up to US\$8.4 billion (2014: US\$8.4 billion) out of the Fund. Hong Kong has the right to request liquidity support up to US\$6.3 billion (2014: US\$6.3 billion) from the CMIM in case of emergency. Up to 31 December 2015, there had been no request to activate the CMIM (2014: Nil).

(g) Bilateral swap agreement

The People's Bank of China and the HKMA renewed a bilateral swap agreement in November 2014 for another three years, with a size of RMB400 billion/HK\$505 billion. This currency swap agreement helps facilitate the development of offshore renminbi business in Hong Kong. The bilateral swap outstanding as at 31 December 2015 was RMB55.6 billion (2014: RMB51.1 billion).

(h) Investment commitments

The Group's subsidiaries with principal activities of holding investments, including properties, had outstanding investment commitment of HK\$122,405 million equivalent as at 31 December 2015 (2014: HK\$80,948 million equivalent).

(i) Lease commitments

As at 31 December 2015, the total future minimum lease payments payable under non-cancellable operating leases of premises were as follows:

	Group		Fund	
	2015	2014	2015	2014
Within one year	94	92	61	61
After one year but not later than five years	87	175	57	113
Later than five years	-	4	-	4
TOTAL	181	271	118	178

(j) Financial Dispute Resolution Centre Limited

The HKMA signed a Memorandum of Understanding together with the Financial Services and the Treasury Bureau and the Securities and Futures Commission on 21 December 2011 regarding the funding arrangement on the set-up and operating costs of the Financial Dispute Resolution Centre Limited (FDRCL). The funding arrangement has been extended for three years to December 2017. During the year, the Fund contributed HK\$7 million to FDRCL (2014: HK\$4 million). The outstanding commitment of the Fund to contribute to FDRCL as at 31 December 2015 was HK\$14 million (2014: HK\$21 million).

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

34 CONTINGENT LIABILITIES

(a) Uncalled portion of investment in the Bank for International Settlements

As at 31 December 2015, the Fund had a contingent liability of up to 16.1 million Special Drawing Rights (SDRs) or HK\$173 million equivalent (2014: 16.1 million SDRs or HK\$181 million equivalent), in respect of the uncalled portion of its 4,285 shares (2014: 4,285 shares) in the Bank for International Settlements (note 10).

SDR is an international reserve asset created by the International Monetary Fund. Its value is based on a basket of four major currencies comprising US dollar, euro, Japanese yen and pound sterling. As at 31 December 2015, SDR 1 was valued at US\$1.38573 (2014: US\$1.44881).

(b) Financial guarantee

The Group has provided guarantees in respect of bank loans granted to joint ventures. The maximum liability as at 31 December 2015 was HK\$687 million equivalent (2014: Nil).

35 MATERIAL RELATED PARTY TRANSACTIONS

Transactions with related parties are conducted at rates determined by the Monetary Authority taking into account the nature of each transaction on a case-by-case basis.

In addition to the transactions and balances disclosed elsewhere in these financial statements, during the year, the Group, through the HKMC, purchased HK\$209 million (2014: HK\$108 million) of mortgage loans from the HKSAR Government.

The Exchange Fund Advisory Committee (EFAC) through its Sub-Committees advises the Financial Secretary in his control of the Fund. Members of the EFAC and its Sub-Committees are appointed in a personal capacity by the Financial Secretary for the expertise and experience that they can bring to the Committees. Transactions with companies related to members of the EFAC and its Sub-Committees, if any, have been conducted as a normal part of the operation of the Group and on terms consistent with its ongoing operations.

36 FINANCIAL RISK MANAGEMENT

This note presents information about the nature and extent of risks to which the Group is exposed, in particular those arising from financial instruments, and the risk management framework of the Group. The principal financial risks the Group is exposed to are credit risk, market risk and liquidity risk.

36.1 Governance

The Financial Secretary is advised by the EFAC in his control of the Fund. The EFAC is established under section 3(1) of the Exchange Fund Ordinance, which requires the Financial Secretary to consult the Committee in his exercise of control of the Fund. Members of the EFAC are appointed in a personal capacity by the Financial Secretary under the delegated authority of the Chief Executive of the HKSAR for the expertise and experience that they can bring to the Committee. Such expertise and experience include knowledge of monetary, financial and economic affairs and of investment issues, as well as of accounting, management, business and legal matters.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The EFAC is assisted in its work by five Sub-Committees, which monitor specific areas of the HKMA's work and report and make recommendations to the Financial Secretary through the EFAC.

Among these Sub-Committees, the Investment Sub-Committee (ISC) monitors the HKMA's investment management activities and makes recommendations on the investment policy and strategy of the Fund and on risk management and other related matters. Operating within the policies and guidelines endorsed by the EFAC, the Reserves Management Department of the HKMA conducts the day-to-day investment management of the Fund while the Risk and Compliance Department, which is independent of the Reserves Management Department, carries out the risk management activities of the Fund.

36.2 Investment management and control

Investment activities of the Fund are conducted in accordance with the investment benchmark derived from the Fund's investment objectives. The investment benchmark directs the strategic asset allocation of the Fund and is reviewed on a regular basis to ensure that it consistently meets the investment objectives. Changes to the investment benchmark, if required, must be endorsed by the EFAC.

The Fund's target asset and currency mix were as follows:

	2015	2014
Asset type		
Bonds	72%	73%
Equities and related investments	28%	27%
	100%	100%
Currency		
US dollar and Hong Kong dollar	81%	77%
Others ¹	19%	23%
	100%	100%

¹ Other currencies included mainly Australian dollar, Canadian dollar, euro, pound sterling and Japanese yen.

In addition to the investment benchmark, the EFAC determines the tactical deviation limits governing the extent to which the Fund's asset and currency mix may deviate from the investment benchmark. The tactical deviation limits are used to guide the medium term investments of the Fund. The tactical deviation limits are derived from a risk-based approach, taking into account the risk tolerance level set by the EFAC and risk contributions of the asset classes and markets that the Fund is allowed to invest in. These risk contributions reflect the neutral allocations of asset markets within the investment benchmark, and the volatility of and correlation across asset markets. Authority to take medium term investment decisions is delegated to senior management of the HKMA down to the Executive Director level.

The Risk and Compliance Department is responsible for risk management and compliance monitoring regarding the investments of the Fund. It monitors the risk exposure of the Fund, checks compliance of investment activities against established guidelines and reports and follows up any identified breaches.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.3 Credit risk

Credit risk is the risk of financial loss when a counterparty or a borrower fails to meet its contractual obligations. The Group's credit risk arises principally from the investments of the Fund and the loan portfolio of the HKMC.

36.3.1 Management of credit risk

The HKMA maintains effective credit risk management over the investments of the Fund. Based on the delegated authority of the EFAC, the Credit Review and Compliance Committee (CRCC) was established within the HKMA with the following responsibilities: (i) to establish and maintain the Credit Exposure Policy to govern the investments of the Fund; (ii) to review the adequacy of the existing credit risk management practices and, where necessary, formulate proposals for amendments; (iii) to conduct analysis of credit risk issues; (iv) to establish and review credit limits for the approved issuers and counterparties; and (v) to monitor the compliance of the investments of the Fund with the established policies and limits, and report and follow up any identified breaches. The CRCC is chaired by the Deputy Chief Executive (Monetary) whose responsibilities are independent of the day-to-day investment activities of the Fund, and includes representatives from the Reserves Management Department, the Monetary Management Department, the Research Department and the Risk and Compliance Department of the HKMA.

In light of the rapidly evolving risk environment, the HKMA will remain vigilant in monitoring and managing the Fund's credit risk exposure, and will sustain the impetus for better credit risk management practices to support the investment activities of the Fund.

Credit limits are established in accordance with in-house methodologies as set out in the Exchange Fund Investment Policy and Credit Exposure Policy to limit exposures to counterparty, issuer and country risks arising from the investments of the Fund.

(a) Counterparty risk

The Fund selects its counterparties in lending, placement, derivatives and trading transactions prudently and objectively. Since the Fund conducts transactions with a counterparty for a range of financial instruments, credit limits are established to limit the overall exposure to each authorised counterparty based on its credit ratings, financial strength and other relevant information.

Counterparty credit exposures are measured according to the risk nature of financial products involved in the transaction. Counterparty credit exposures of derivatives include an estimate for the potential future credit exposure of the derivative contracts, in addition to their positive mark-to-market replacement value.

(b) Issuer risk

Issuer risk arises from investments in debt securities. Credit limits for approved issuers are set on both individual and group levels to control the risk of loss arising from the default of debt securities issuers and to prevent undue risk concentration.

Moreover, to be qualified as an approved investment, a new market or financial instrument must meet the minimum credit, security and liquidity requirements of the Fund.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(c) Country risk

Country risk is broadly defined to include both the sovereign risk and the transfer risk. Sovereign risk denotes a government's ability and willingness to repay its obligations. Transfer risk is the risk that a borrower may not be able to secure foreign exchange to service its external obligations, for example, due to an action by the government to impose restrictions on the transfer of funds from the debtors in the country to foreign creditors. Under the existing framework, country limits are established to control the Fund's overall credit risk exposures to the countries endorsed by the CRCC.

The above credit limits are reviewed regularly. Credit exposure is monitored against these limits on a daily basis. To ensure prompt identification, proper approval and consistent monitoring of credit risk, the Fund has implemented a unified automated credit monitoring system which provides fully-integrated straight-through-processing linking the front, middle and back office functions. The pre-deal checking takes place in the front office prior to the commitment of any transaction to ensure that the intended transaction will not exceed the credit limits. The end-of-day compliance checking further verifies that the Fund complies with the established credit policies and procedures.

Any breaches of credit limits are reported to the CRCC, the ISC and the EFAC, and are followed up by the Risk and Compliance Department in a timely manner. The approval authorities to sanction these breaches are set out in the Credit Exposure Policy.

To manage the exposure to credit risk arising from the loan portfolio and mortgage insurance business, a fourpronged approach is established for (i) selecting Approved Sellers carefully, (ii) adopting prudent mortgage purchasing criteria and insurance eligibility criteria, (iii) conducting effective due diligence reviews and (iv) ensuring adequate protection for higher-risk mortgages.

36.3.2 Exposure to credit risk

The maximum exposure to credit risk of the financial assets of the Group and the Fund are equal to their carrying amounts. The maximum exposures to credit risk of off-balance sheet exposures are as follows:

		Group		Fund	
	Note	2015	2014	2015	2014
Risk in force – mortgage insurance	36.6	13,409	13,118	-	-
Risk in force – other guarantees and insurance	36.6	2,996	2,094	-	-
Loan commitments, guarantees and other credit related commitments		356,067	314,061	262,975	263,113
TOTAL		372,472	329,273	262,975	263,113

The loan portfolio is secured by mortgages on properties. Reserve funds and deferred consideration are also used as an additional form of credit enhancement.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.3.3 Credit quality

The Group predominantly invests in liquid Organisation for Economic Co-operation and Development (OECD) government bonds and other quasi-government debt securities issues. As at 31 December 2015, approximately 85% (2014: 85%) of the debt securities held by the Group were rated "double-A" or above by both Moody's and Standard & Poor's. The credit quality of major financial assets is analysed below:

	Group		Fund	
	2015	2014	2015	2014
Cash and money at call, placements with banks and other financial institutions, by credit rating ¹				
AAA	259	14	259	14
AA- to AA+	61,345	86,141	60,108	79,398
A- to A+	163,817	131,487	144,871	120,007
Lower than A– or un-rated ²	87,006	117,298	85,278	116,189
	312,427	334,940	290,516	315,608
Debt securities, by credit rating ¹				
AAA	445,772	355,016	444,554	353,811
AA- to AA+	1,666,126	1,500,054	1,656,063	1,490,654
A- to A+	127,737	91,036	124,445	88,223
Lower than A- or un-rated ²	249,657	224,197	236,937	213,572
	2,489,292	2,170,303	2,461,999	2,146,260
Loan portfolio				
Neither past due nor impaired (note 36.3.3(a))	11,191	15,212	-	-
Past due but not impaired (note 36.3.3(b))	311	359	-	-
Impaired (note 36.3.3(c))	1	2	-	-
Allowance for loan impairment	(1)	[1]	-	-
	11,502	15,572	-	-
TOTAL	2,813,221	2,520,815	2,752,515	2,461,868

¹ This is the lower of ratings designated by Moody's and Standard & Poor's.

² These included mainly balances with central banks and debt securities issued by the Bank for International Settlements which are not rated.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(a) Loans that are neither past due nor impaired

An internal rating system is used for assessing the credit quality of the loan portfolio. Grades 1 to 3 include loans with no previous past due experience and with different levels of credit enhancements in addition to the collateral. Grade 4 includes loans with previous past due experience and with further credit enhancements in addition to collateral. Grade 5 includes loans with previous past due experience and collateral but without further credit enhancement. The credit quality of loans that were neither past due nor impaired at the balance sheet date is analysed below:

	Group)	Fund	
	2015	2014	2015	2014
Grades				
1 to 3	11,170	15,191	-	-
4	1	_	-	-
5	20	21	-	-
TOTAL	11,191	15,212	-	-

(b) Loans that are past due but not impaired

These are loans where contractual interest or principal payments are past due but the Group believes that recognising an impairment loss is not appropriate on the basis of the level of collateral held. The loans that were past due but not impaired at the balance sheet date are analysed below:

	Group		Fund	
	2015	2014	2015	2014
Loans that were past due				
90 days or less	310	358	-	-
91 to 180 days	-	-	-	-
over 180 days	1	1	-	-
TOTAL	311	359	-	-
Fair value of collateral and other credit enhancements	3,110	2,584	-	-

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(c) Impaired loans

These are loans where the Group determines on an individual basis that it is probable that it will be unable to collect all principal and interest due according to the contractual terms of the loan agreements. As at 31 December 2015, there was no related collateral held and credit enhancement (2014: HK\$5 million).

(d) Repossessed collateral

The Group obtained assets by taking possession of collateral held as security. Repossessed properties are sold as soon as practicable, with the proceeds used to reduce the outstanding indebtedness. As at 31 December 2015, there were no repossessed properties held by the Group (2014: HK\$1 million).

36.3.4 Concentration of credit risk

The majority of the Group's debt holdings are highly liquid securities issued or guaranteed by OECD governments and other quasi-government entities. The maximum credit risk exposure by industry groups is analysed below:

	Group		Fun	d
	2015	2014	2015	2014
Governments and government agencies ¹	2,177,277	1,977,746	2,177,031	1,977,462
Supra-nationals	198,275	159,847	198,275	159,847
States, provinces and public-sector entities ²	183,428	166,689	212,734	196,008
Financial institutions	301,461	275,277	270,527	246,950
Others ³	353,772	296,647	280,265	252,188
TOTAL	3,214,213	2,876,206	3,138,832	2,832,455

¹ These included debt securities guaranteed by governments.

² These included debt securities guaranteed by states.

³ These included debt securities issued by the Bank for International Settlements.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.4 Market risk

Market risk is the risk that changes in market variables such as interest rates, exchange rates and equity prices may affect the fair values or cash flows of investments.

36.4.1 Types of market risk

(a) Interest rate risk

Interest rate risk refers to the risk of loss arising from changes in market interest rates. This can be further classified into fair value interest rate risk and cash flow interest rate risk.

Fair value interest rate risk is the risk that the fair value of a financial instrument will fluctuate because of changes in market interest rates. The Group is exposed to fair value interest rate risk since a substantial portion of its investments is in fixed-rate debt securities. These securities are subject to interest rate risk as their fair values will fall when market interest rates increase. Other significant financial assets and financial liabilities with a fixed interest rate, and therefore subject to interest rate risk, include placements with banks and other financial institutions and EFBN issued.

Cash flow interest rate risk is the risk that future cash flows of a financial instrument will fluctuate because of changes in market interest rates. Because the Group has no significant floating-rate investments and liabilities, the Group's future cash flows are not materially affected by potential changes in market interest rates.

(b) Currency risk

Currency risk is the risk of loss arising from changes in foreign exchange rates. A large portion of the Group's foreign currency assets is held in US dollars with the remaining mainly in other major international currencies. When the exchange rates of the relevant foreign currencies against the Hong Kong dollar fluctuate, the value of these foreign currency assets expressed in Hong Kong dollar will vary accordingly.

Due to the linked exchange rate of the US dollar relative to the Hong Kong dollar, the Group's currency risk principally arises from its assets and liabilities denominated in foreign currencies other than the US dollar.

(c) Equity price risk

Equity price risk is the risk of loss arising from changes in prices or valuation. The Group's equity and related investments are subject to price risk since the value of these investments will decline if market prices or valuation fall.

The majority of the equity securities held by the Group are constituent stocks of major stock market indexes and companies with large market capitalisation.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.4.2 Management of market risk

The market risk of the Fund as a whole is regularly measured and monitored to prevent excessive risk exposure. The investment benchmark and tactical deviation limits of the Fund govern the asset allocation strategies. This, together with the volatility of asset markets, will affect the Fund's market risk exposure. The Fund uses derivative financial instruments to manage its exposures to market risk and facilitate the implementation of investment strategies. The market risk of the Fund is mainly measured and monitored using a Value-at-Risk (VaR) methodology.

VaR is calculated using the parametric approach based on a 95% confidence level and one-month time horizon. The result represents the maximum expected loss of the Fund over a one-month period under normal market conditions, with a 5% chance that the actual loss may exceed the calculated VaR. The Fund's absolute VaR and the relative VaR (i.e. the VaR of the Fund relative to its investment benchmark), expressed in dollar amounts, are measured by the Risk and Compliance Department and reported to management, the ISC and the EFAC on a regular basis.

The relative VaR of the Fund is also used to calculate the actual tracking error of the Fund against its investment benchmark. This is regularly monitored against the tracking error limit endorsed by the EFAC to ensure that the market risk exposure of the Fund is within its limit. The tracking error of a portfolio indicates how well the portfolio tracks its investment benchmark. The smaller the tracking error, the closer the portfolio tracks its benchmark. The tracking error of the Fund from taking unduly large market risk with respect to its investment benchmark. The actual tracking error of the Fund is regularly reported to the ISC and the EFAC, and any breach of the limit is followed up in a timely manner.

VaR is a widely accepted measure of market risk within the financial services industry. It provides users with a single amount to measure market risk and takes into account multiple risks. VaR should however be assessed in the context of some of its inherent limitations. The calculation of VaR involves a number of assumptions that may or may not be valid in a real life scenario, in particular in extreme market conditions. The calculation of VaR assumes that future events can be predicted by historical data, and that changes in risk factors follow a normal distribution. The end-of-day basis does not reflect intraday exposures. In addition, the confidence level on which calculation of VaR is based needs to be taken into account as it indicates the possibility that a larger loss could be realised.

To compensate for some of the limitations of VaR, the HKMA also conducts stress tests to estimate the potential losses under extremely adverse market conditions. This serves to identify the major attributes of market risk under extreme market conditions, and helps to prevent the Fund from being exposed to excessive market risk. The results of the stress tests are also reported to the ISC and the EFAC on a regular basis.

To manage the interest rate risk arising from the fixed-rate debt securities issued by the Group to fund the purchase of portfolios of loans, a major portion of the risk is hedged using fair value hedges in the form of interest rate swaps by swapping into floating-rate funding to better match the floating-rate assets.

The Fund's investment in less liquid assets (i.e. private equity and real estate) is grouped under the Long-Term Growth Portfolio. The investment risks of the less liquid assets are managed at the aggregate level through such measures as asset class approval, allocation limit and aggregate general partner exposure. As determined by the EFAC, the maximum size of the Long-Term Growth Portfolio is at one-third of the Accumulated Surplus of the Exchange Fund.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.4.3 Exposure to market risk

(a) Interest rate risk

The interest rate gap position in respect of the Group's major interest-bearing assets and liabilities, including the net repricing effect of interest rate derivatives is shown below. The assets and liabilities are stated at carrying amounts at the balance sheet date and categorised by the earlier of contractual repricing dates or maturity dates.

			.		o – 2015			
-	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	·bearing financial 10 years or less but over 5 years	Over 10 years	Total	Non- interest- bearing financial instruments
Assets								
Cash and money at call	121,904	-	-	-	-	-	121,904	66,643
Placements with banks and other financial institutions	103,262	10,331	10,268	-	-	-	123,861	19
Financial assets designated at fair value	615,829	470,674	425,812	625,251	194,364	122,485	2,454,415	560,987
Available-for-sale securities	602	1,365	810	1,522	-	-	4,299	100,176
Held-to-maturity securities	177	233	551	5,241	4,072	-	10,274	-
Loan portfolio	11,426	36	13	27	-	-	11,502	-
Interest-bearing assets	853,200	482,639	437,454	632,041	198,436	122,485	2,726,255	-
Liabilities								-
Placements by banks and other financial institutions	6,243	-	-	-	-	-	6,243	60,664
Placements by Fiscal Reserves with interest payable at market-based rates ¹	4	-	-	-	-	-	4	-
Placements by HKSAR Government funds and statutory bodies with interest payable at market-based rates!	65				_	_	65	_
Exchange Fund Bills and Notes issued	185,864	407,366	189,857	28,511	11,172	5,022	827,792	_
Bank loans	8,212		-		-	3,106	11,318	_
Other debt securities issued	7,031	9,017	6,690	7,564	2,178	983	33,463	-
Interest-bearing liabilities	207,419	416,383	196,547	36,075	13,350	9,111	878,885	-
Net interest-bearing assets/(liabilities)	645,781	66,256	240,907	595,966	185,086	113,374	1,847,370	-
Interest rate derivatives (net position, notional amounts)	18,675	(30,938)	6,593	(12,507)	11,502	4,800	(1,875)	
Interest rate sensitivity gap	664,456	35,318	247,500	583,459	196,588	118,174	1,845,495	-

¹ Placements by Fiscal Reserves, HKSAR Government funds and statutory bodies with interest payable at a fixed rate determined annually are excluded because their interest rate is not fixed directly on the basis of market interest rates (notes 23 and 24). The fixed rate is determined every January. As at 31 December 2015, such placements amounted to HK\$1,114,325 million.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

				Group	- 2014			
			Repricing pe		bearing financial	instruments		
	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	10 years or less but over 5 years	Over 10 years	Total	Non- interest- bearing financial instruments
Assets								
Cash and money at call	132,002	-	-	-	-	-	132,002	64,699
Placements with banks and other financial institutions	128,422	8,054	1,744	-	-	_	138,220	19
Financial assets designated at fair value	356,282	297,577	678,489	510,146	193,976	101,935	2,138,405	592,810
Available-for-sale securities	849	1,134	1,073	1,194	-	-	4,250	83,406
Held-to-maturity securities	12	250	929	4,388	3,590	-	9,169	-
Loan portfolio	14,465	1,051	20	34	2	-	15,572	-
Interest-bearing assets	632,032	308,066	682,255	515,762	197,568	101,935	2,437,618	-
Liabilities								-
Placements by banks and other financial institutions	830	-	-	-	-	_	830	63,171
Placements by Fiscal Reserves with interest payable at market-based rates ¹	3	-	-	-	_	_	3	-
Placements by HKSAR Government funds and statutory bodies with interest payable at	4.050						4.050	
market-based rates ¹	1,970	-	-	-	-	-	1,970	-
Exchange Fund Bills and Notes issued Bank loans	167,583 8,778	323,692	206,049	37,204	11,274	6,144	751,946 8,778	-
Other debt securities issued	8,778 8,168	- 10,010	- 4,002	- 8,040	- 3,050	-	8,778 33,270	-
								-
Interest-bearing liabilities	187,332	333,702	210,051	45,244	14,324	6,144	796,797	-
Net interest-bearing assets/(liabilities)	444,700	(25,636)	472,204	470,518	183,244	95,791	1,640,821	
Interest rate derivatives (net position, notional amounts)	44,030	(49,894)	(15,411)	1,372	12,290	6,000	(1,613)	_
Interest rate sensitivity gap	488,730	(75,530)	456,793	471,890	195,534	101,791	1,639,208	

¹ Placements by Fiscal Reserves, HKSAR Government funds and statutory bodies with interest payable at a fixed rate determined annually are excluded because their interest rate is not fixed directly on the basis of market interest rates (notes 23 and 24). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

		Fund – 2015 Repricing period of interest-bearing financial instruments									
	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	10 years or less but over 5 years	Over 10 years	Total	Non- interest- bearing financial instruments			
Assets											
Cash and money at call	121,368	-	-	-	-	-	121,368	66,467			
Placements with banks and											
other financial institutions	98,837	1,891	1,953	-	-	-	102,681	-			
Financial assets designated at fair value	615,829	470,605	425,748	625,251	194,364	122,485	2,454,282	548,338			
Interest-bearing assets	836,034	472,496	427,701	625,251	194,364	122,485	2,678,331	_			
Liabilities								_			
Placements by banks and other financial institutions	6,243	-	-	-	-	-	6,243	60,664			
Placements by Fiscal Reserves with interest payable at market-based rates ¹	4	-	-	-	-	-	4	-			
Placements by HKSAR Government funds and statutory bodies with interest payable at											
market-based rates ¹	65	-	-	-	-	-	65	-			
Exchange Fund Bills and Notes issued	185,864	407,366	189,857	28,511	11,172	5,022	827,792	-			
Interest-bearing liabilities	192,176	407,366	189,857	28,511	11,172	5,022	834,104	_			
Net interest-bearing assets/(liabilities)	643,858	65,130	237,844	596,740	183,192	117,463	1,844,227	_			
Interest rate derivatives (net position, notional amounts)	15,500	(18,253)	-	(11,500)	9,453	4,800	-				
Interest rate sensitivity gap	659,358	46,877	237,844	585,240	192,645	122,263	1,844,227	-			

Placements by Fiscal Reserves, HKSAR Government funds and statutory bodies with interest payable at a fixed rate determined annually are excluded because their interest rate is not fixed directly on the basis of market interest rates (notes 23 and 24). The fixed rate is determined every January. As at 31 December 2015, such placements amounted to HK\$1,114,325 million.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

					- 2014			
			Repricing pe	eriod of interest-	bearing financial	instruments		
	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	10 years or less but over 5 years	Over 10 years	Total	Non- interest- bearing financial instruments
Assets								
Cash and money at call	131,534	-	-	-	-	-	131,534	63,994
Placements with banks and other financial institutions	119,305	775	-	-	-	-	120,080	-
Financial assets designated at fair value	356,253	297,526	678,440	510,113	193,952	101,935	2,138,219	581,154
Interest-bearing assets	607,092	298,301	678,440	510,113	193,952	101,935	2,389,833	-
Liabilities								-
Placements by banks and other financial institutions	830	-	_	-	-	-	830	63,171
Placements by Fiscal Reserves with interest payable at market-based rates ¹	3	-	-	-	-	-	3	-
Placements by HKSAR Government funds and statutory bodies with interest payable at								
market-based rates ¹	1,970	-	-	-	-	-	1,970	-
Exchange Fund Bills and Notes issued	168,083	323,692	206,049	37,204	11,274	6,144	752,446	-
Interest-bearing liabilities	170,886	323,692	206,049	37,204	11,274	6,144	755,249	_
Net interest-bearing assets/(liabilities)	436,206	(25,391)	472,391	472,909	182,678	95,791	1,634,584	_
Interest rate derivatives (net position, notional amounts)	39,162	(37,775)	(19,387)	2,400	9,600	6,000	-	
Interest rate sensitivity gap	475,368	(63,166)	453,004	475,309	192,278	101,791	1,634,584	-

¹ Placements by Fiscal Reserves, HKSAR Government funds and statutory bodies with interest payable at a fixed rate determined annually are excluded because their interest rate is not fixed directly on the basis of market interest rates (notes 23 and 24). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

(b) Currency risk

The currency exposure of the Group is summarised below:

	Group							
	20	15	201	14				
	Assets	Liabilities	Assets	Liabilities				
	(in HK\$ billion)	(in HK\$ billion)	(in HK\$ billion)	(in HK\$ billion)				
Hong Kong dollar	258.9	2,503.7	263.6	2,157.1				
US dollar	2,813.9	403.2	2,405.7	382.1				
	3,072.8	2,906.9	2,669.3	2,539.2				
Others ¹	458.5	25.1	573.4	24.9				
TOTAL	3,531.3	2,932.0	3,242.7	2,564.1				

	Fund							
	20	15	201	14				
	Assets	Liabilities	Assets	Liabilities				
	(in HK\$ billion)	(in HK\$ billion)	(in HK\$ billion)	(in HK\$ billion)				
Hong Kong dollar	222.9	2,475.2	228.9	2,133.7				
US dollar	2,767.6	401.8	2,367.2	377.5				
	2,990.5	2,877.0	2,596.1	2,511.2				
Others ¹	432.4	1.0	552.9	2.3				
TOTAL	3,422.9	2,878.0	3,149.0	2,513.5				

¹ Other currencies included mainly Australian dollar, Canadian dollar, euro, renminbi, pound sterling and Japanese yen.

(c) Equity price risk

As at 31 December 2015 and 2014, the majority of equity investments were reported as "financial assets designated at fair value" as shown in note 9.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.4.4 Sensitivity analysis

The Value-at-Risk positions of the Fund at 31 December and during the year, based on a 95% confidence level and one-month time horizon, were as follows:

	Fund	
	2015	2014
Value-at-Risk		
At 31 December ¹	30,222	25,231
During the year		
Average	33,136	22,488
Maximum	46,167	27,265
Minimum	23,906	16,674

¹ The amount represented 0.9% of the Fund's investments which were subject to VaR measurement as at 31 December 2015 (2014: 0.8%).

36.5 Liquidity risk

Liquidity risk refers to the risk that the Group may not have sufficient funds available to meet its liabilities as they fall due. In addition, the Group may not be able to liquidate its financial assets at a price close to fair value within a short period of time.

36.5.1 Management of liquidity risk

To ensure sufficient liquidity to meet liabilities and the ability to raise funds to meet exceptional needs, the Group invests primarily in liquid financial markets and instruments that are readily saleable to meet liquidity needs. There are internal investment restrictions to prevent undue concentrations in individual debt securities issues, debt securities issuers, and groups of closely related debt securities issuers. Such restrictions are derived based on various factors such as the nature or maturity of the securities. There are also limitations on the maximum proportion of assets that can be placed in fixed term deposits and less liquid assets, and requirements regarding the ability to convert foreign currency assets into cash. All these restrictions and limits are designed to promote the liquidity of assets and consequently minimise the liquidity risk. The liquidity risk for the Exchange Fund investment is monitored on an aggregate basis through appropriate portfolio mix with sufficient liquid assets to offset investments of less liquid assets. Compliance with these limits is monitored by the Risk and Compliance Department and any breaches are reported to the ISC and the EFAC and are promptly followed up.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.5.2 Exposure to liquidity risk

The remaining contractual maturities at the balance sheet date of major financial liabilities, commitments and derivative financial liabilities, which are based on contractual undiscounted cash flows and the earliest date on which the Group can be required to pay, are shown below:

	Group – 2015 Remaining maturity									
	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	10 years or less but over 5 years	Over 10 years	Total			
Non-derivative cash outflows										
Certificates of Indebtedness	357,863	-	-	-	-	-	357,863			
Government-issued currency notes and coins in circulation	11,335	-	-	-	-	-	11,335			
Balance of the banking system	391,343	-	-	-	-	-	391,343			
Placements by banks and other financial institutions	6,243	-	60,664	-	-	-	66,907			
Placements by Fiscal Reserves	833,548	-	-	-	-	-	833,548			
Placements by HKSAR Government funds and statutory bodies	157,556	-	6,050	82,240	35,000	-	280,846			
Exchange Fund Bills and Notes issued	185,863	407,541	190,405	29,893	11,719	5,019	830,440			
Bank loans	77	-	445	9,477	612	3,163	13,774			
Other debt securities issued	4,151	4,266	9,279	13,610	2,463	1,615	35,384			
Other liabilities	112,375	404	9	252	135	-	113,175			
Loan commitments, guarantees and other credit related commitments	356,060	-	-	7	-	-	356,067			
TOTAL	2,416,414	412,211	266,852	135,479	49,929	9,797	3,290,682			
Derivative cash (inflows)/outflows										
Derivative financial instruments settled:										
– on net basis	249	18	(30)	4	49	21	311			
– on gross basis										
Total outflows	24,623	38,589	13,735	5,097	758	-	82,802			
Total inflows	(24,230)	(38,109)	(13,701)	(3,741)	(665)	-	(80,446)			
TOTAL	642	498	4	1,360	142	21	2,667			

				Group – 2014			
				emaining matur			
	4 11	3 months or	1 year or	5 years or	10 years or	0	
	1 month or less	less but over 1 month	less but over 3 months	less but over 1 year	less but over 5 years	Over 10 years	Total
	0, 1000		0 111011110	, jour	o jouro	. o jour o	, otat
Non-derivative cash outflows							
Certificates of Indebtedness	340,184	-	-	-	-	-	340,184
Government-issued currency notes and coins in circulation	11,028	-	-	-	_	_	11,028
Balance of the banking system	239,183	-	-	-	-	-	239,183
Placements by banks and other financial institutions	830	-	63,171	_	_	_	64,001
Placements by Fiscal Reserves	788,681	-	-	-	-	-	788,681
Placements by HKSAR Government funds and statutory bodies	131,349	15,000	20,000	67,650	27,140	_	261,139
Exchange Fund Bills and Notes issued	167,581	323,895	206.734	39,100	12.342	6.340	755,992
Bank loans	99	_	294	9,669	_	_	10,062
Other debt securities issued	2,331	3,307	10,913	14,975	3,114	-	34,640
Other liabilities	58,500	377	86	-	257	-	59,220
Loan commitments and other credit related commitments	314,061	-	-	-	-	_	314,061
TOTAL	2,053,827	342,579	301,198	131,394	42,853	6,340	2,878,191
Derivative cash (inflows)/outflows							
Derivative financial instruments settled:							
– on net basis	305	98	895	81	162	49	1,590
– on gross basis							
Total outflows	25,498	38,236	7,391	6,706	873	-	78,704
Total inflows	(24,311)	(37,114)	(7,303)	(5,722)	(878)	-	(75,328)
TOTAL	1,492	1,220	983	1,065	157	49	4,966

				Fund – 2015			
			R	emaining matur	rity		
	1 month or less	3 months or less but over 1 month	1 year or less but over 3 months	5 years or less but over 1 year	10 years or less but over 5 years	Over 10 years	Total
Non-derivative cash outflows							
Certificates of Indebtedness	357,863	-	-	-	-	-	357,863
Government-issued currency notes and coins in circulation	11,335	-	-	-	-	-	11,335
Balance of the banking system	391,343	-	-	-	-	-	391,343
Placements by banks and other financial institutions	6,243	-	60,664	-	-	-	66,907
Placements by Fiscal Reserves	833,548	-	-	-	-	-	833,548
Placements by HKSAR Government funds and statutory bodies	157,556	-	6,050	82,240	35,000	-	280,846
Exchange Fund Bills and Notes issued	185,863	407,541	190,405	29,893	11,719	5,019	830,440
Other liabilities	106,669	360	8	-	-	-	107,037
Loan commitments and other credit related commitments	262,968	-	-	7	-	-	262,975
TOTAL	2,313,388	407,901	257,127	112,140	46,719	5,019	3,142,294
Derivative cash (inflows)/outflows							
Derivative financial instruments settled:							
– on net basis	248	18	(20)	2	49	21	318
– on gross basis							
Total outflows	21,687	34,461	11,841	-	-	-	67,989
Total inflows	(21,369)	(34,150)	(11,764)	-	-	-	(67,283)
TOTAL	566	329	57	2	49	21	1,024

				Fund – 2014			
			R	emaining matur	ity		
		3 months or	1 year or	5 years or	10 years or		
	1 month	less but over	less but over	less but over	less but over	Over	
	or less	1 month	3 months	1 year	5 years	10 years	Total
Non-derivative cash outflows							
Certificates of Indebtedness	340,184	-	-	-	-	-	340,184
Government-issued currency notes and coins in circulation	11,028	-	-	-	_	_	11,028
Balance of the banking system	239,183	-	-	-	-	-	239,183
Placements by banks and other							
financial institutions	830	-	63,171	-	-	-	64,001
Placements by Fiscal Reserves	788,681	-	-	-	-	-	788,681
Placements by HKSAR Government funds and statutory bodies	131,349	15,000	20,000	67,650	27,140	-	261,139
Exchange Fund Bills and Notes issued	168,081	323,895	206,734	39,100	12,342	6,340	756,492
Other liabilities	52,570	377	86	-	-	-	53,033
Loan commitments and other credit related commitments	263,113	-	-	-	-	-	263,113
TOTAL	1,995,019	339,272	289,991	106,750	39,482	6,340	2,776,854
Derivative cash (inflows)/outflows							
Derivative financial instruments settled:							
– on net basis	305	97	904	71	160	49	1,586
– on gross basis							
Total outflows	23,636	34,546	414	-	_	-	58,596
Total inflows	(22,531)	(33,591)	(406)	-	-	-	(56,528)
TOTAL	1,410	1,052	912	71	160	49	3,654

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

36.6 Insurance risk

The Group provides (i) mortgage insurance cover to authorized institutions in respect of mortgage loans originated by such authorized institutions and secured on residential properties in Hong Kong; (ii) insurance cover to authorized institutions in respect of reverse mortgage loans originated by such authorized institutions to elderly people; (iii) financial guarantee cover to authorized institutions in respect of loans originated by such authorized by such authorized institutions to small and medium sized enterprises (SMEs) in Hong Kong. The Group faces insurance risk of the possibility of the insured event occurring and the uncertainty of the amount of the resulting claim.

Under the Mortgage Insurance Programme, the Group, through the HKMC, offers mortgage insurance that covers approved sellers for credit losses of up to 30% of the value of properties financed under mortgage loans with loan-to-value ratio 90% or below at origination. The Group reinsures the exposure with approved reinsurers. As at 31 December 2015, the total risk-in-force was HK\$13.4 billion (2014: HK\$13.1 billion), of which HK\$11.3 billion (2014: HK\$11.0 billion) was retained by the Group after reinsurance. The Group also provides financial guarantee cover to authorized institutions up to 50% to 70% of the banking facilities granted to SMEs in Hong Kong and insurance cover to authorized institutions in respect of reverse mortgage loans originated by such authorized institutions and secured on residential properties. As at 31 December 2015, the total risk-in-force was HK\$3.0 billion (2014: HK\$2.1 billion).

For a portfolio of insurance contracts where the theory of probability is applied to pricing and provisioning, the principal risk that the Group faces under its insurance contracts is that the actual claims exceed the carrying amount of the insurance liabilities. This could occur because the frequency or severity of claims is greater than estimated. Insurance events are random and the actual number and amount of claims and benefits will vary from year to year from the estimate established using statistical techniques.

Experience shows that the larger the portfolio of similar insurance contracts, the smaller the relative variability about the expected outcome will be. In addition, a more diversified portfolio is less likely to be affected across the board by a change in any subset of the portfolio. The Group has developed a business strategy to diversify the type of insurance risks accepted and within each of the key categories to achieve a sufficiently large population of risks to reduce the variability of the expected outcome.

The frequency and severity of claims can be affected by several factors. The most significant are a downturn in the economy, a slump in local property market and a low mortality rate of borrowers. Economic downturn, which may cause a rise in defaulted payment, affects the frequency of claims and collateral value. A drop in property prices, where the collateral values fall below the outstanding balance of the mortgage loans, will increase the severity of claims. Low mortality rate of borrowers means longer payout period and larger loan balance over time. This will affect the frequency and severity of claims as there is a risk of the property value being insufficient to cover the outstanding loan balance in the future.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

The Group manages these risks by adopting a set of prudent insurance eligibility criteria. To ensure sufficient provision is set aside for meeting future claim payments, the Group calculates technical reserves on prudent liability valuation assumptions and the methods prescribed in the regulatory guidelines. The Group also takes out quota-share reinsurance from its approved mortgage reinsurers and excess-of-loss reinsurance arrangements in an effort to limit its risk exposure. The reinsurers are selected according to prudent criteria and their credit ratings are reviewed regularly. For financial guarantee cover provided to authorized institutions, the Group relies on the lenders' prudent credit assessment on the borrowers to mitigate default risk and any loss in the loan facility will be shared proportionately between the Group and the lender on a pari passu basis to minimise moral hazards. The mortality assumptions of reverse mortgages are also reviewed on a regular basis, to assess the risk of larger deviation between the actual and expected operating results.

36.7 Operational risk

Operational risk is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. Operational risk is inherent in all aspects of the Group's operations covering all business segments.

The Group's objective is to cost-effectively manage operational risk to prevent financial losses or damage to the Group's reputation.

The primary responsibility for the development and implementation of controls to address operational risk rests with line management, with oversight by an internal high-level Risk Committee. The Committee is chaired by the Chief Executive of the HKMA with the three Deputy Chief Executives as members. The Risk Committee provides direction and guidance for line management in managing operational risk.

Operational risk management is supported by a formal risk assessment process. This is conducted annually and supplemented with quarterly updates. It requires each division to assess and rank the potential impact and likelihood of occurrence of financial and operational risks. It also requires divisions to review the procedures and controls in place for addressing the identified risks. This risk and control self-assessment is reviewed by Internal Audit to ensure consistency and reasonableness before submission to the Risk Committee, which has the responsibility for ensuring that the identified risks are properly addressed. Results of this risk assessment also form the basis for the development of an annual Internal Audit work plan. Internal Audit will audit the risk areas at various frequencies depending on the levels of risks and the results of past audits. It reports its findings regularly to the EFAC Audit Sub-Committee and the Chief Executive of the HKMA and follows up on outstanding issues to ensure that they are resolved in a proper manner.

Operational risk is also inherent in the investment activities and processes of the Reserves Management Department. To enhance its operational risk oversight, the Risk and Compliance Department formalised its operational risk management framework for the Reserves Management Department. The key elements of the framework include identification and monitoring of key risk indicators; reporting to the senior management of the HKMA on the operational risk profile of the Reserves Management Department; and handling of operational risk incidents.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

37 FAIR VALUE MEASUREMENT OF FINANCIAL INSTRUMENTS

37.1 Fair value of financial instruments measured at fair value on a recurring basis

37.1.1 Fair value hierarchy

The carrying values of financial instruments measured at fair value at the balance sheet date across the three levels of the fair value hierarchy are shown below:

	Group – 2015				
	Level 1	Level 2	Level 3	Total	
Assets					
Financial assets designated at fair value					
Treasury bills and commercial paper	474,488	483,517	-	958,005	
Certificates of deposit	-	56,357	-	56,357	
Other debt securities	1,390,804	56,846	11,281	1,458,931	
Equity securities	456,636	49,405	36,068	542,109	
	2,321,928	646,125	47,349	3,015,402	
Available-for-sale securities					
Debt securities	3,690	2,035	-	5,725	
Equity securities	913	-	-	913	
Investment funds	-	-	97,344	97,344	
	4,603	2,035	97,344	103,982	
Derivative financial instruments	534	5,297	-	5,831	
	2,327,065	653,457	144,693	3,125,215	
Liabilities					
Exchange Fund Bills and Notes issued	-	827,792	-	827,792	
Derivative financial instruments	248	3,008	-	3,256	
Other debt securities issued, designated at fair value	-	343	-	343	
	248	831,143	-	831,391	

	Group – 2014			
	Level 1	Level 2	Level 3	Total
Assets				
Financial assets designated at fair value				
Treasury bills and commercial paper	278,753	440,413	_	719,166
Certificates of deposit	_	59,648	_	59,648
Other debt securities	1,327,592	39,910	10,568	1,378,070
Equity securities	493,768	53,437	27,126	574,331
	2,100,113	593,408	37,694	2,731,215
Available-for-sale securities				
Debt securities	2,524	1,726	_	4,250
Equity securities	984	_	_	984
Investment funds	-	-	81,929	81,929
	3,508	1,726	81,929	87,163
Derivative financial instruments	961	6,466	127	7,554
	2,104,582	601,600	119,750	2,825,932
Liabilities				
Exchange Fund Bills and Notes issued	_	751,946	-	751,946
Derivative financial instruments	305	5,371	-	5,676
Other debt securities issued, designated at fair value	-	336	-	336
	305	757,653	_	757,958

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

	Fund – 2015			
	Level 1	Level 2	Level 3	Total
Assets				
Financial assets designated at fair value				
Treasury bills and commercial paper	474,488	483,517	-	958,005
Certificates of deposit	-	56,357	-	56,357
Other debt securities	1,390,804	56,833	-	1,447,637
Equity securities	456,636	49,405	34,580	540,621
	2,321,928	646,112	34,580	3,002,620
Derivative financial instruments	534	4,823	-	5,357
	2,322,462	650,935	34,580	3,007,977
Liabilities				
Exchange Fund Bills and Notes issued	-	827,792	-	827,792
Derivative financial instruments	248	854	-	1,102
	248	828,646	-	828,894

	Fund – 2014			
	Level 1	Level 2	Level 3	Total
Assets				
Financial assets designated at fair value				
Treasury bills and commercial paper	278,753	440,413	-	719,166
Certificates of deposit	-	59,648	-	59,648
Other debt securities	1,327,592	39,854	-	1,367,446
Equity securities	493,768	53,437	25,908	573,113
	2,100,113	593,352	25,908	2,719,373
Derivative financial instruments	961	5,909	_	6,870
	2,101,074	599,261	25,908	2,726,243
Liabilities				
Exchange Fund Bills and Notes issued	_	752,446	_	752,446
Derivative financial instruments	305	3,280	-	3,585
	305	755,726	-	756,031

The Group's policy is to recognise transfers between levels of fair value hierarchy as at the end of the reporting period in which they occur. During the year, there were no transfers of financial instruments between Level 1 and Level 2 of the fair value hierarchy.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

An analysis of the movement between opening and closing balances of Level 3 assets, measured at fair value using a valuation technique with significant unobservable inputs, is shown below:

	Group					
	Designated at	Designated at fair value		or-sale	Derivatives	
	2015	2014	2015	2014	2015	2014
At 1 January	37,694	34,115	81,929	61,819	127	677
Net gains/(losses) recognised in the income and expenditure account	(1,899)	432	_	_	(127)	(550)
Net losses recognised in other comprehensive income	-	_	(3,811)	(1,123)	-	_
Purchases	20,548	13,577	28,708	27,467	-	-
Sales	(9,445)	(10,223)	(9,482)	(6,234)	-	-
Transfers into Level 3	1,062	664	-	-	-	-
Transfers out of Level 3	(611)	(871)	-	-	-	-
At 31 December	47,349	37,694	97,344	81,929	-	127
Net gains/(losses) recognised in the income and expenditure account relating to those		117				
assets held at the balance sheet date	(1,724)	117	-	-	-	(550)

	Fund			
	Designated at fair value		Available-for-sale	
	2015	2014	2015	2014
At 1 January	25,908	21,879	-	-
Net gains/(losses) recognised in the income and expenditure account	(481)	1,264	-	_
Purchases	16,397	8,774	-	-
Sales	(7,695)	(5,727)	-	-
Transfers into Level 3	1,062	589	-	-
Transfers out of Level 3	(611)	(871)	-	-
At 31 December	34,580	25,908	-	-
Net gains/(losses) recognised in the income and expenditure account relating to those assets held at the balance sheet date	(306)	953	-	_

During the year, certain financial instruments were transferred between Level 2 and Level 3 of the fair value hierarchy reflecting changes in transparency of observable market data for these instruments.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

37.1.2 Valuation techniques and key inputs

The fair value of financial instruments classified under Level 1 is based on quoted market prices in active markets for identical assets or liabilities at the balance sheet date.

In the absence of quoted market prices in active markets, the fair value of financial instruments classified under Level 2 is estimated using present value or other valuation techniques, using inputs based on market conditions existing at the balance sheet date. Specific valuation techniques and key inputs used to value these financial instruments include:

- i) quoted market price or broker quotes for similar instruments;
- ii) derivative financial instruments are priced using models with observable market inputs including interest rate swaps and foreign exchange contracts; and
- iii) commercial paper and debt securities are priced using discounted cash flow techniques with observable yield curves.

For investments in unlisted investment funds, certain unlisted equity securities and certain unlisted debt securities which are classified under Level 3, their fair values are estimated by making reference to valuation reports provided by investment managers. It is not practicable to quote a range of key unobservable inputs.

For certain unlisted equity securities valued by the Group, which are classified under Level 3, their fair values are derived from Comparable Company Valuation Model, which derives the valuation of an investment through the product of its earnings, earning multiples of comparable public companies and a discount factor for a lack of liquidity. Significant unobservable inputs used under this valuation method include earning multiples of similar companies and liquidity discount:

Significant unobservable inputs	Quantitative amount	
	2015	2014
Earning multiples of similar companies	5.1 - 13.8	7.6 – 14.5
Liquidity discount	20%	20%

If the prices of these investments had increased/decreased by 10%, it would have resulted in an increase/ decrease in the Group's surplus for the year of HK\$4,735 million (2014: HK\$3,782 million) and in other comprehensive income of HK\$9,734 million (2014: HK\$8,193 million).

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

37.2 Fair value of debt securities not measured at fair value on a recurring basis

The fair values of held-to-maturity securities and other debt securities issued that were not designated at fair value are shown below:

			5		
	Note	Carrying value Fair value			
			Level 1	Level 2	Total
Financial assets					
Held-to-maturity securities	12	10,274	10,206	300	10,506
Financial liabilities					
Other debt securities issued	27	33,120	-	33,335	33,335

		Group – 2014			
	Note	Carrying value	Fair value		
			Level 1	Level 2	Total
Financial assets					
Held-to-maturity securities	12	9,169	7,348	2,096	9,444
Financial liabilities					
Other debt securities issued	27	32,934	-	32,936	32,936

In the absence of quoted market prices in active markets, the fair values of debt securities classified under Level 2 are estimated using present value or other valuation techniques, using inputs based on market conditions existing at the balance sheet date. Specific valuation techniques and key inputs used to value these debt securities include quoted market prices for securities with similar credit, maturity and yield characteristics for held-to-maturity securities, discounted cash flow model based on a current yield curve appropriate for the remaining term to maturity for other debt securities issued.

All other financial instruments of the Group and the Fund are stated at fair value or carried at amounts not materially different from their fair values as at 31 December 2015 and 2014.

38 NON-ADJUSTING POST BALANCE SHEET EVENT

As directed by the Financial Secretary in December 2015, the HKMA shall manage the investment of a part of the Fiscal Reserves to be called the "Future Fund". The Future Fund will be placed with the Exchange Fund (i.e. the Future Fund placement) for ten years from 1 January 2016 to 31 December 2025, unless otherwise directed by the Financial Secretary. The Future Fund placement comprises an initial placement, being the balance of placements by the Land Fund of HK\$219.7 billion as at 31 December 2015 (note 23), periodic top-ups from the General Revenue Account which the Financial Secretary may decide once each year, and interest¹ thereon. The Future Fund placement, together with the accrued interest, will be released to the Land Fund and the General Revenue Account upon completion of this arrangement.

¹ Such interest includes (a) interest arising from that part of the Future Fund placement linked with the Investment Portfolio of the Exchange Fund, calculated at the fixed rate determined annually for placements by Fiscal Reserves (note 23); and (b) interest arising from that part of the Future Fund placement linked with the Long-Term Growth Portfolio, calculated based on a formula linked to the current year time-weighted rate of the return of the Long-Term Growth Portfolio. The accrued interest on the Future Fund placement will be rolled over and compounded on an annual basis.

(Amounts expressed in millions of Hong Kong dollars, unless otherwise stated.)

39 POSSIBLE IMPACT OF AMENDMENTS, NEW STANDARDS AND INTERPRETATIONS ISSUED BUT NOT YET EFFECTIVE FOR THE YEAR ENDED 31 DECEMBER 2015

Up to the date of issue of the financial statements, the HKICPA has issued a number of amendments and new standards which are not yet effective for the year ended 31 December 2015 and which have not been early adopted in the financial statements. The Group is in the process of making an assessment of what the impact of these amendments and new standards is expected to be in the period of initial adoption. So far it has concluded that the adoption of them is unlikely to have a significant impact on the Group's results of operations and financial position, except the following, which may have an impact on the classification and measurement of the Group's financial instruments:

Effective for accounting periods beginning on or after

1 January 2018

HKFRS 9, Financial Instruments

HKFRS 9, Financial Instruments

HKFRS 9 addresses the classification, measurement and recognition of financial assets and financial liabilities. It replaces the guidance in HKAS 39 that relates to the classification and measurement of financial instruments. HKFRS 9 retains but simplifies the mixed measurement model and establishes three primary measurement categories for financial assets: amortised cost, fair value through other comprehensive income and fair value through profit or loss. The basis of classification depends on the entity's business model and contractual cash flow characteristics of the financial assets. Investment in equity instruments are required to be measured at fair value through profit or loss with the irrevocable option at inception to present changes in fair value in other comprehensive income. Any such changes in fair value cannot subsequently be transferred to profit or loss.

HKFRS 9 also introduces a new expected credit loss model that replaces the incurred loss impairment model used in HKAS 39. For financial liabilities there are no changes to classification and measurement except that, in respect of liabilities designated at fair value through profit or loss, any changes in fair value due to a change in own credit risk should be recognised in other comprehensive income. In addition, the hedge accounting framework has been refined, creating a stronger link between it and risk management practices and permitting the application of hedge accounting to a greater variety of hedging instruments and risks.

40 APPROVAL OF FINANCIAL STATEMENTS

The financial statements were approved by the Financial Secretary on the advice of the Exchange Fund Advisory Committee on 7 April 2016.