

# 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 set out on pages 130 to 219, which comprise the balance sheets of the Exchange Fund and of the Group as at 31 December 2014, 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 2014, 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

8 April 2015

Audit Commission  
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# Exchange Fund – Income and Expenditure Account

for the year ended 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Group		Fund	
		2014	2013	2014	2013
<b>INCOME</b>					
Interest income		<b>16,270</b>	17,168	<b>14,980</b>	15,742
Dividend income		<b>13,498</b>	11,494	<b>15,250</b>	11,806
Income from investment properties		<b>2,323</b>	1,823	<b>-</b>	-
Net realised and unrealised gains		<b>68,080</b>	40,000	<b>61,589</b>	35,287
Net exchange gain/(loss)		<b>(51,649)</b>	1,420	<b>(52,759)</b>	1,555
Investment income	4(a)	<b>48,522</b>	71,905	<b>39,060</b>	64,390
Bank licence fees		<b>131</b>	131	<b>131</b>	131
Other income		<b>558</b>	592	<b>89</b>	98
<b>TOTAL INCOME</b>		<b>49,211</b>	72,628	<b>39,280</b>	64,619
<b>EXPENDITURE</b>					
Interest expense on placements by Fiscal Reserves, HKSAR government funds and statutory bodies	4(b)	<b>(36,147)</b>	(46,047)	<b>(36,147)</b>	(46,047)
Other interest expense	4(c)	<b>(2,110)</b>	(1,927)	<b>(1,418)</b>	(1,255)
Operating expenses	4(d)	<b>(4,020)</b>	(3,993)	<b>(3,324)</b>	(3,251)
Note and coin expenses	4(e)	<b>(447)</b>	(442)	<b>(447)</b>	(442)
Write back of/(Charge for) impairment losses on loans		<b>(1)</b>	3	<b>-</b>	-
<b>TOTAL EXPENDITURE</b>		<b>(42,725)</b>	(52,406)	<b>(41,336)</b>	(50,995)
<b>SURPLUS/(DEFICIT) BEFORE SHARE OF PROFIT OF ASSOCIATES AND JOINT VENTURES</b>					
		<b>6,486</b>	20,222	<b>(2,056)</b>	13,624
Share of profit of associates and joint ventures, net of tax		<b>1,730</b>	688	<b>-</b>	-
<b>SURPLUS/(DEFICIT) BEFORE TAXATION</b>					
		<b>8,216</b>	20,910	<b>(2,056)</b>	13,624
Income tax	5	<b>(83)</b>	(117)	<b>-</b>	-
<b>SURPLUS/(DEFICIT) FOR THE YEAR</b>					
		<b>8,133</b>	20,793	<b>(2,056)</b>	13,624
<b>ATTRIBUTABLE TO:</b>					
Owner of the Fund		<b>8,006</b>	20,721	<b>(2,056)</b>	13,624
Non-controlling interests		<b>127</b>	72	<b>-</b>	-
		<b>8,133</b>	20,793	<b>(2,056)</b>	13,624

The notes on pages 136 to 219 form part of these financial statements.

# Exchange Fund – Statement of Comprehensive Income

for the year ended 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Group		Fund	
		2014	2013	2014	2013
<b>SURPLUS/(DEFICIT) FOR THE YEAR</b>		<b>8,133</b>	20,793	<b>(2,056)</b>	13,624
<b>OTHER COMPREHENSIVE INCOME</b>					
<b>Items that may be reclassified subsequently to income and expenditure account</b>					
Available-for-sale securities					
fair value changes on revaluation	30	<b>(944)</b>	9,884	-	-
fair value changes on disposal transferred to income and expenditure account	30	<b>(63)</b>	(296)	-	-
tax effect	30	<b>(20)</b>	55	-	-
Cash flow hedges					
fair value changes transferred to income and expenditure account	30	<b>3</b>	4	-	-
tax effect	30	-	(1)	-	-
Exchange differences					
translation of financial statements of overseas subsidiaries, associates and joint ventures	30	<b>(906)</b>	38	-	-
release of translation reserve upon disposal of a subsidiary classified as assets held for sale	30	<b>(13)</b>	-	-	-
<b>OTHER COMPREHENSIVE INCOME FOR THE YEAR, NET OF TAX</b>		<b>(1,943)</b>	9,684	-	-
<b>TOTAL COMPREHENSIVE INCOME/(LOSS) FOR THE YEAR</b>		<b>6,190</b>	30,477	<b>(2,056)</b>	13,624
<b>TOTAL COMPREHENSIVE INCOME/(LOSS) FOR THE YEAR ATTRIBUTABLE TO:</b>					
Owner of the Fund		<b>6,079</b>	30,404	<b>(2,056)</b>	13,624
Non-controlling interests		<b>111</b>	73	-	-
		<b>6,190</b>	30,477	<b>(2,056)</b>	13,624

The notes on pages 136 to 219 form part of these financial statements.

# Exchange Fund – Balance Sheet

as at 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Group		Fund	
		2014	2013	2014	2013
<b>ASSETS</b>					
Cash and money at call	7	<b>196,701</b>	128,692	<b>195,528</b>	127,739
Placements with banks and other financial institutions	8	<b>138,239</b>	176,632	<b>120,080</b>	165,080
Assets held for sale	9	–	130	–	–
Financial assets designated at fair value	10	<b>2,731,215</b>	2,616,788	<b>2,719,373</b>	2,603,501
Available-for-sale securities	11	<b>87,656</b>	66,172	<b>493</b>	493
Derivative financial instruments	12(a)	<b>7,554</b>	5,000	<b>6,870</b>	3,492
Held-to-maturity securities	13	<b>9,169</b>	8,624	–	–
Loan portfolio	14	<b>15,572</b>	22,268	–	–
Gold	15	<b>621</b>	622	<b>621</b>	622
Other assets	16	<b>18,752</b>	61,168	<b>18,020</b>	60,232
Interests in subsidiaries	17	–	–	<b>84,922</b>	68,545
Interests in associates and joint ventures	18	<b>16,448</b>	9,431	–	–
Investment properties	19	<b>17,493</b>	17,695	–	–
Property, plant and equipment	20(a)	<b>3,281</b>	3,332	<b>3,088</b>	3,114
<b>TOTAL ASSETS</b>		<b>3,242,701</b>	3,116,554	<b>3,148,995</b>	3,032,818
<b>LIABILITIES AND EQUITY</b>					
Certificates of Indebtedness	21	<b>340,184</b>	327,372	<b>340,184</b>	327,372
Government-issued currency notes and coins in circulation	21	<b>11,028</b>	10,575	<b>11,028</b>	10,575
Balance of the banking system	22	<b>239,183</b>	164,093	<b>239,183</b>	164,093
Placements by banks and other financial institutions	23	<b>64,001</b>	50,734	<b>64,001</b>	50,734
Placements by Fiscal Reserves	24	<b>788,681</b>	773,862	<b>788,681</b>	773,862
Placements by Hong Kong Special Administrative Region government funds and statutory bodies	25	<b>261,139</b>	214,911	<b>261,139</b>	214,911
Exchange Fund Bills and Notes issued	26	<b>751,946</b>	782,605	<b>752,446</b>	782,605
Derivative financial instruments	12(a)	<b>5,676</b>	4,347	<b>3,585</b>	3,124
Bank loans	27	<b>8,778</b>	9,525	–	–
Other debt securities issued	28	<b>33,270</b>	31,335	–	–
Other liabilities	29	<b>60,233</b>	75,004	<b>53,296</b>	68,034
<b>Total liabilities</b>		<b>2,564,119</b>	2,444,363	<b>2,513,543</b>	2,395,310
Accumulated surplus	30	<b>665,995</b>	657,989	<b>635,452</b>	637,508
Revaluation reserve	30	<b>12,539</b>	13,563	–	–
Translation reserve	30	<b>(830)</b>	73	–	–
Total equity attributable to owner of the Fund		<b>677,704</b>	671,625	<b>635,452</b>	637,508
Non-controlling interests	30	<b>878</b>	566	–	–
<b>Total equity</b>		<b>678,582</b>	672,191	<b>635,452</b>	637,508
<b>TOTAL LIABILITIES AND EQUITY</b>		<b>3,242,701</b>	3,116,554	<b>3,148,995</b>	3,032,818

## Norman T. L. Chan

Monetary Authority  
8 April 2015

The notes on pages 136 to 219 form part of these financial statements.



# Exchange Fund – Statement of Changes in Equity

for the year ended 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Attributable to owner of the Fund			Total attributable to owner of the Fund	Non-controlling interests	Total
		Accumulated surplus	Revaluation reserve	Translation reserve			
<b>Group</b>							
At 1 January 2013		637,268	3,917	36	641,221	478	641,699
Surplus for the year	30	20,721	-	-	20,721	72	20,793
Other comprehensive income for the year	30	-	9,646	37	9,683	1	9,684
Total comprehensive income for the year		20,721	9,646	37	30,404	73	30,477
Capital injection by non-controlling interests	30	-	-	-	-	38	38
Dividends paid to non-controlling interests	30	-	-	-	-	(23)	(23)
At 31 December 2013		657,989	13,563	73	671,625	566	672,191
At 1 January 2014		<b>657,989</b>	<b>13,563</b>	<b>73</b>	<b>671,625</b>	<b>566</b>	<b>672,191</b>
Surplus for the year	30	8,006	-	-	8,006	127	8,133
Other comprehensive income for the year	30	-	(1,024)	(903)	(1,927)	(16)	(1,943)
Total comprehensive income/(loss) for the year		8,006	(1,024)	(903)	6,079	111	6,190
Capital injection by non-controlling interests	30	-	-	-	-	228	228
Disposal of a subsidiary classified as assets held for sale	30	-	-	-	-	(13)	(13)
Dividends paid to non-controlling interests	30	-	-	-	-	(14)	(14)
At 31 December 2014		<b>665,995</b>	<b>12,539</b>	<b>(830)</b>	<b>677,704</b>	<b>878</b>	<b>678,582</b>
<b>Fund</b>							
At 1 January 2013		623,884	-	-	623,884	-	623,884
Surplus and total comprehensive income for the year	30	13,624	-	-	13,624	-	13,624
At 31 December 2013		637,508	-	-	637,508	-	637,508
At 1 January 2014		<b>637,508</b>	-	-	<b>637,508</b>	-	<b>637,508</b>
Deficit and total comprehensive loss for the year	30	(2,056)	-	-	(2,056)	-	(2,056)
At 31 December 2014		<b>635,452</b>	-	-	<b>635,452</b>	-	<b>635,452</b>

The notes on pages 136 to 219 form part of these financial statements.

# Exchange Fund – Statement of Cash Flows

for the year ended 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Group		Fund	
		2014	2013	2014	2013
<b>Cash flows from operating activities</b>					
Surplus/(Deficit) before taxation		<b>8,216</b>	20,910	<b>(2,056)</b>	13,624
<b>Adjustments for:</b>					
Interest income	4(a)	<b>(16,270)</b>	(17,168)	<b>(14,980)</b>	(15,742)
Dividend income	4(a)	<b>(13,498)</b>	(11,494)	<b>(15,250)</b>	(11,806)
Change in fair value of investment properties	4(a)	<b>(1,272)</b>	(816)	-	-
Net gains on disposal of available-for-sale securities	4(a)	<b>(6,984)</b>	(2,590)	-	-
Interest expense	4(b) & 4(c)	<b>38,257</b>	47,974	<b>37,565</b>	47,302
Depreciation	4(d)	<b>189</b>	172	<b>136</b>	130
Share of profit of associates and joint ventures		<b>(1,730)</b>	(688)	-	-
Gain on disposal of a subsidiary classified as assets held for sale		<b>(13)</b>	-	-	-
Net loss on disposal of property, plant and equipment		-	1	-	-
Elimination of exchange differences and other non-cash items		<b>5,177</b>	(615)	<b>5,012</b>	(356)
Interest received		<b>16,140</b>	19,002	<b>14,813</b>	17,453
Interest paid		<b>(10,756)</b>	(48,011)	<b>(10,080)</b>	(47,336)
Dividends received		<b>13,401</b>	11,335	<b>12,532</b>	10,847
Income tax paid		<b>(72)</b>	(58)	-	-
		<b>30,785</b>	17,954	<b>27,692</b>	14,116
Change in fair value of derivatives and other debt securities issued		<b>(2,288)</b>	1,710	<b>(2,924)</b>	2,413
Change in carrying amount of:					
– placements with banks and other financial institutions		<b>(923)</b>	(2,616)	<b>(755)</b>	(1,149)
– cash transferred to assets held for sale		-	(129)	-	-
– financial assets designated at fair value		<b>(148,707)</b>	(206,503)	<b>(150,152)</b>	(206,337)
– loan portfolio		<b>6,696</b>	3,629	-	-
– gold		<b>1</b>	240	<b>1</b>	240
– other assets		<b>42,625</b>	(13,554)	<b>42,474</b>	(13,434)
– Certificates of Indebtedness, government-issued currency notes and coins in circulation		<b>13,265</b>	38,176	<b>13,265</b>	38,176
– balance of the banking system		<b>75,090</b>	(91,758)	<b>75,090</b>	(91,758)
– placements by banks and other financial institutions		<b>13,267</b>	50,734	<b>13,267</b>	50,734
– placements by Fiscal Reserves		<b>14,819</b>	56,326	<b>14,819</b>	56,326
– placements by Hong Kong Special Administrative Region government funds and statutory bodies		<b>46,228</b>	46,998	<b>46,228</b>	46,998
– Exchange Fund Bills and Notes issued		<b>(30,659)</b>	94,391	<b>(30,159)</b>	94,121
– other liabilities		<b>(42,226)</b>	42,054	<b>(42,214)</b>	42,062
<b>Net cash from operating activities</b>		<b>17,973</b>	37,652	<b>6,632</b>	32,508

# Exchange Fund – Statement of Cash Flows (continued)

for the year ended 31 December 2014

(Expressed in millions of Hong Kong dollars)	Note	Group		Fund	
		2014	2013	2014	2013
<b>Cash flows from investing activities</b>					
Increase in investments in subsidiaries		-	-	(167)	-
Loans to subsidiaries		-	-	(16,210)	(12,846)
Increase in interests in associates and joint ventures		(5,536)	(3,493)	-	-
Proceeds from sale or redemption of available-for-sale securities		17,983	12,180	-	-
Purchase of available-for-sale securities		(33,502)	(22,551)	-	-
Proceeds from sale or redemption of held-to-maturity securities		2,036	2,783	-	-
Purchase of held-to-maturity securities		(2,625)	(2,055)	-	-
Proceeds from disposal of a subsidiary classified as assets held for sale		117	-	-	-
Purchase of property, plant and equipment		(130)	(166)	(110)	(68)
Dividends received from subsidiaries		-	-	2,621	778
<b>Net cash used in investing activities</b>		<b>(21,657)</b>	<b>(13,302)</b>	<b>(13,866)</b>	<b>(12,136)</b>
<b>Cash flows from financing activities</b>					
Proceeds from issue of other debt securities		30,401	18,128	-	-
Redemption of mortgage-backed securities issued		-	(214)	-	-
Redemption of other debt securities issued		(27,505)	(21,966)	-	-
Capital injection by non-controlling interests		228	38	-	-
Dividends paid to non-controlling interests		(14)	(23)	-	-
<b>Net cash from/(used in) financing activities</b>		<b>3,110</b>	<b>(4,037)</b>	<b>-</b>	<b>-</b>
<b>Net increase/(decrease) in cash and cash equivalents</b>		<b>(574)</b>	<b>20,313</b>	<b>(7,234)</b>	<b>20,372</b>
<b>Cash and cash equivalents at 1 January</b>		<b>328,494</b>	<b>307,813</b>	<b>326,028</b>	<b>305,300</b>
<b>Effect of foreign exchange rate changes</b>		<b>(5,013)</b>	<b>368</b>	<b>(5,012)</b>	<b>356</b>
<b>Cash and cash equivalents at 31 December</b>	31	<b>322,907</b>	<b>328,494</b>	<b>313,782</b>	<b>326,028</b>

The notes on pages 136 to 219 form part of these financial statements.

# 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 Hong Kong Special Administrative Region (HKSAR) Government for the account of the Fund for strategic purposes. Operating segment information is set out in note 32.

## 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 17 and 18.

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 2.12); and
- investment properties (note 2.13).

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 19 contains information about the assumptions relating to fair value estimation of investment properties. Note 38 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 intra-group 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 2.15).

## **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 acquisition-date 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 2.15).

## **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 38.

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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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;
- (b) 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.



# Exchange Fund – Notes to the Financial Statements *(continued)*

(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 2.10) 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 2.11).

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.

# Exchange Fund – Notes to the Financial Statements *(continued)*

(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 2.11).

## 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 2.11). 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 2.11).

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.

# Exchange Fund – Notes to the Financial Statements *(continued)*

(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 note-issuing 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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.

## 2.9 Non-current assets held for sale

A non-current asset (or disposal group) is classified as held for sale if it is highly probable that its carrying amount will be recovered through a sale transaction rather than through continuing use and the asset (or disposal group) is available for sale in its present condition. A disposal group is a group of assets to be disposed of together as a group in a single transaction, and liabilities directly associated with those assets that will be transferred in the transaction.

# Exchange Fund – Notes to the Financial Statements (continued)

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

On initial classification as held for sale and until disposal, the non-current assets (except for certain assets as explained below), or disposal groups, are recognised at the lower of their carrying amount and fair value less costs of disposal. Deferred tax assets, financial assets (other than investments in subsidiaries, associates and joint ventures) and investment properties, even if held for sale, would continue to be measured in accordance with the policies set out elsewhere in note 2.

## **2.10 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.

### **2.10.1 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.

### **2.10.2 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

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.

## 2.11 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

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.

For available-for-sale securities carried at fair value, the cumulative loss – measured as 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, is removed from equity and 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 account. Impairment losses for equity securities 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.

## **2.12 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.

## **2.13 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. 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.

# Exchange Fund – Notes to the Financial Statements *(continued)*

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

## 2.14 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 2.15):

- 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 2 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.

## 2.15 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.



# Exchange Fund – Notes to the Financial Statements (continued)

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

## **2.16 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.

## **2.17 Revenue and expenditure recognition**

### **2.17.1 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 24 and 25). 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.

### **2.17.2 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.

### **2.17.3 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, income from the sale of withdrawn coins, 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 2.17.4 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.

## 2.17.5 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.

## 2.17.6 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.

## 2.18 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 profit or loss when the profit or loss on disposal is recognised.

## **2.19 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);
  - (ii) 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); or
  - (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).

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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 2.20 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 32.

## 3 CHANGES IN ACCOUNTING POLICIES

The HKICPA has issued certain new and revised HKFRSs that are first effective or available for early adoption for the current accounting period. Of these, the following are relevant to the Group financial statements:

- Amendments to HKFRS 10, Consolidated Financial Statements, HKFRS 12, Disclosure of Interests in Other Entities and HKAS 27 (2011), Separate Financial Statements – Investment Entities;
- Amendments to HKAS 32, Financial Instruments: Presentation – Offsetting Financial Assets and Financial Liabilities;
- Amendments to HKAS 36, Impairment of Assets – Recoverable Amount Disclosures for Non-Financial Assets; and
- Amendments to HKAS 39, Financial Instruments: Recognition and Measurement – Novation of Derivatives and Continuation of Hedge Accounting.

The Group has not applied any new standard or interpretation that is not yet effective for the current accounting period (note 39). Impact of the adoption of the above new or revised HKFRSs is discussed below.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## **3.1 Amendments to HKFRS 10, Consolidated Financial Statements, HKFRS 12, Disclosure of Interests in Other Entities and HKAS 27 (2011), Separate Financial Statements – Investment Entities**

The amendments provide consolidation relief to those parents which qualify to be an investment entity as defined in the amended HKFRS 10. Investment entities are required to measure their subsidiaries at fair value through profit or loss. These amendments do not have any impact on the Group's financial statements as the Fund does not qualify to be an investment entity.

## **3.2 Amendments to HKAS 32, Financial Instruments: Presentation – Offsetting Financial Assets and Financial Liabilities**

The amendments to HKAS 32 clarify the meaning of "currently has a legally enforceable right to set-off" and the criteria for non-simultaneous settlement mechanisms of clearing houses to qualify for offsetting. These amendments have no material impact on the Group's financial statements.

## **3.3 Amendments to HKAS 36, Impairment of Assets – Recoverable Amount Disclosures for Non-Financial Assets**

The amendments to HKAS 36 modify the disclosure requirements for impaired non-financial assets. Among them, the amendments expand the disclosures required for an impaired asset or a cash-generating unit whose recoverable amount is based on fair value less costs of disposal. These amendments have no impact on the disclosure of the Group's financial statements.

## **3.4 Amendments to HKAS 39, Financial Instruments: Recognition and Measurement – Novation of Derivatives and Continuation of Hedge Accounting**

The amendments to HKAS 39 introduce a relief to allow hedge accounting to continue in a situation where a derivative, which has been designated as a hedge instrument, is novated to effect clearing with a central counterparty as a result of changes in laws or regulation. These amendments have no impact on the Group's financial statements.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 4 INCOME AND EXPENDITURE

### (a) Investment income

	Group		Fund	
	2014	2013	2014	2013
Interest income:				
– from derivative financial instruments	435	403	435	403
– from financial assets designated at fair value	14,005	14,972	13,906	14,718
– from other financial assets	1,830	1,793	639	621
	<b>16,270</b>	17,168	<b>14,980</b>	15,742
Dividend income:				
– from financial assets designated at fair value	12,933	11,116	12,618	11,013
– from other financial assets	565	378	11	15
– from subsidiaries	–	–	2,621	778
	<b>13,498</b>	11,494	<b>15,250</b>	11,806
Income from investment properties:				
– rental income	1,051	1,007	–	–
– change in fair value on revaluation	1,272	816	–	–
	<b>2,323</b>	1,823	–	–
Net realised and unrealised gains/(losses):				
– on derivative financial instruments	(9,284)	(5,567)	(7,631)	(5,033)
– on financial assets and financial liabilities designated at fair value	70,380	42,977	69,220	40,320
– on disposal of available-for-sale securities	6,984	2,590	–	–
	<b>68,080</b>	40,000	<b>61,589</b>	35,287
Net exchange gain/(loss)	<b>(51,649)</b>	1,420	<b>(52,759)</b>	1,555
<b>TOTAL</b>	<b>48,522</b>	71,905	<b>39,060</b>	64,390

Net realised and unrealised gains/(losses) included HK\$1,056 million loss (2013: HK\$1,188 million) on hedging instruments designated as fair value hedge and HK\$1,060 million gain (2013: HK\$1,197 million) on hedged items.

# Exchange Fund – Notes to the Financial Statements (continued)

(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	
	2014	2013
Interest on placements by Fiscal Reserves:		
– at a fixed rate determined annually <sup>1</sup>	<b>27,487</b>	36,791
– at market-based rates	<b>–</b>	1
Interest on placements by HKSAR government funds and statutory bodies:		
– at a fixed rate determined annually <sup>1</sup>	<b>8,658</b>	9,253
– at market-based rates	<b>2</b>	2
<b>TOTAL</b>	<b>36,147</b>	46,047

<sup>1</sup> This rate was fixed at 3.6% per annum for 2014 (2013: 5%) – notes 24, 25 and 29.

## (c) Other interest expense

	Group		Fund	
	2014	2013	2014	2013
Interest on Exchange Fund Bills and Notes issued	<b>1,389</b>	1,251	<b>1,389</b>	1,251
Interest expense on derivative financial instruments	<b>224</b>	198	<b>22</b>	–
Interest expense on other debt securities issued designated at fair value and trading liabilities	<b>5</b>	4	<b>4</b>	3
Interest expense on other financial liabilities	<b>492</b>	474	<b>3</b>	1
<b>TOTAL</b>	<b>2,110</b>	1,927	<b>1,418</b>	1,255

## Exchange Fund – Notes to the Financial Statements (continued)

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

### (d) Operating expenses

	Group		Fund	
	2014	2013	2014	2013
Staff costs				
Salaries and other staff costs	1,165	1,093	955	910
Retirement benefit costs	98	91	86	80
Premises and equipment expenses				
Depreciation	189	172	136	130
Rental expenses under operating leases	91	70	61	51
Other premises expenses	68	67	57	51
General operating costs				
Maintenance of office and computer equipment	83	79	73	70
Financial information and communication services	53	54	46	48
External relations	41	37	34	30
Service fees for financial infrastructure	92	95	92	95
Professional and other services	89	98	28	28
Training	10	8	8	7
Operating expenses relating to investment properties	95	90	–	–
Others	37	26	29	30
Investment management and custodian fees				
Management and custodian fees	1,266	1,287	1,079	1,058
Transaction costs	145	239	142	176
Withholding tax	459	460	459	460
Others	39	27	39	27
<b>TOTAL</b>	<b>4,020</b>	<b>3,993</b>	<b>3,324</b>	<b>3,251</b>

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

	Group	
	2014	2013
Fixed pay	67.3	65.8
Variable pay	19.5	17.8
Other benefits	9.3	9.5
	<b>96.1</b>	<b>93.1</b>

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.



## Exchange Fund – Notes to the Financial Statements (continued)

(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. The number of senior staff posts remained at 16. The higher figure in 2013 reflected staff movements during that year.

HK\$	Group	
	2014	2013
1,500,001 to 2,000,000	-	1
2,000,001 to 2,500,000	-	1
2,500,001 to 3,000,000	-	1
3,000,001 to 3,500,000	-	2
4,000,001 to 4,500,000	4	3
4,500,001 to 5,000,000	3	1
5,000,001 to 5,500,000	2	2
5,500,001 to 6,000,000	1	2
6,000,001 to 6,500,000	1	1
6,500,001 to 7,000,000	1	-
7,500,001 to 8,000,000	-	1
8,000,001 to 8,500,000	2	2
8,500,001 to 9,000,000	1	-
9,500,001 to 10,000,000	1	1
	<b>16</b>	18

### (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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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	
	2014	2013	2014	2013
<b>Current tax</b>				
Hong Kong profits tax				
– Current year	<b>71</b>	84	-	-
– Over-provision in prior years	<b>(10)</b>	-	-	-
Taxation outside Hong Kong				
– Current year	<b>9</b>	9	-	-
<b>Deferred tax</b>				
Charge for current year	<b>13</b>	24	-	-
	<b>83</b>	117	-	-

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 2014, it is calculated at 16.5% (2013: 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	
	2014	2013	2014	2013
Surplus/(Deficit) before taxation	<b>8,216</b>	20,910	<b>(2,056)</b>	13,624
Surplus subject to tax in Hong Kong and elsewhere	<b>4,063</b>	3,442	-	-
Tax calculated at domestic tax rates in the respective countries	<b>487</b>	408	-	-
Tax effect of:				
non-deductible expenses	<b>49</b>	68	-	-
non-taxable income	<b>(463)</b>	(326)	-	-
tax losses not recognised	<b>2</b>	1	-	-
over-provision in prior years	<b>(10)</b>	-	-	-
recognition of previously unrecognised deferred tax positions	-	(42)	-	-
others	<b>18</b>	8	-	-
Actual tax expense	<b>83</b>	117	-	-

# Exchange Fund – Notes to the Financial Statements (continued)

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

## (b) Tax payable

	Note	Group		Fund	
		2014	2013	2014	2013
Tax payable	29	<b>151</b>	155	-	-

## (c) Deferred tax

	Note	Group		Fund	
		2014	2013	2014	2013
Net deferred tax assets	16	<b>(59)</b>	(63)	-	-
Net deferred tax liabilities	29	<b>121</b>	90	-	-
		<b>62</b>	27	-	-

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

		Group				Net deferred tax (assets)/liabilities
		Adjustments on bank loans and derivative financial instruments	Fair value change	Accelerated tax depreciation	Others	
At 1 January 2013	(117)	150	32	(8)	57	
Charged/(credited) to the income and expenditure account	54	(31)	(6)	7	24	
Charged/(credited) to other comprehensive income	-	(55)	-	1	(54)	
Exchange differences	6	(6)	-	-	-	
At 31 December 2013	(57)	58	26	-	27	
At 1 January 2014	<b>(57)</b>	<b>58</b>	<b>26</b>	<b>-</b>	<b>27</b>	
Charged/(credited) to the income and expenditure account	<b>1</b>	<b>-</b>	<b>(5)</b>	<b>17</b>	<b>13</b>	
Charged to other comprehensive income	<b>-</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>20</b>	
Exchange differences	<b>4</b>	<b>-</b>	<b>-</b>	<b>(2)</b>	<b>2</b>	
At 31 December 2014	<b>(52)</b>	<b>78</b>	<b>21</b>	<b>15</b>	<b>62</b>	

There was no significant unprovided deferred tax as at 31 December 2014 and 2013.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 6 CATEGORIES OF FINANCIAL ASSETS AND FINANCIAL LIABILITIES

	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	10	2,731,215	-	2,731,215	-	-	-	-
Available-for-sale securities	11	87,656	-	-	-	-	87,656	-
Derivative financial instruments	12(a)	7,554	7,554	-	-	-	-	-
Held-to-maturity securities	13	9,169	-	-	-	9,169	-	-
Loan portfolio	14	15,572	-	-	15,572	-	-	-
Others		18,564	-	-	18,564	-	-	-
<b>FINANCIAL ASSETS</b>		<b>3,204,670</b>	<b>7,554</b>	<b>2,731,215</b>	<b>369,076</b>	<b>9,169</b>	<b>87,656</b>	<b>-</b>
Certificates of Indebtedness	21	340,184	-	-	-	-	-	340,184
Government-issued currency notes and coins in circulation	21	11,028	-	-	-	-	-	11,028
Balance of the banking system	22	239,183	-	-	-	-	-	239,183
Placements by banks and other financial institutions	23	64,001	-	-	-	-	-	64,001
Placements by Fiscal Reserves	24	788,681	-	-	-	-	-	788,681
Placements by HKSAR government funds and statutory bodies	25	261,139	-	-	-	-	-	261,139
Exchange Fund Bills and Notes issued	26	751,946	-	751,946	-	-	-	-
Derivative financial instruments	12(a)	5,676	5,676	-	-	-	-	-
Bank loans	27	8,778	-	-	-	-	-	8,778
Other debt securities issued	28	33,270	-	336	-	-	-	32,934
Others		59,573	-	-	-	-	-	59,573
<b>FINANCIAL LIABILITIES</b>		<b>2,563,459</b>	<b>5,676</b>	<b>752,282</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,805,501</b>

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Group – 2013							
	Note	Total	Trading financial instruments and hedging instruments	Financial assets and 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	128,692	-	-	128,692	-	-	-
Placements with banks and other financial institutions	8	176,632	-	-	176,632	-	-	-
Financial assets designated at fair value	10	2,616,788	-	2,616,788	-	-	-	-
Available-for-sale securities	11	66,172	-	-	-	-	66,172	-
Derivative financial instruments	12(a)	5,000	5,000	-	-	-	-	-
Held-to-maturity securities	13	8,624	-	-	-	8,624	-	-
Loan portfolio	14	22,268	-	-	22,268	-	-	-
Others		61,135	-	-	61,135	-	-	-
<b>FINANCIAL ASSETS</b>		<b>3,085,311</b>	<b>5,000</b>	<b>2,616,788</b>	<b>388,727</b>	<b>8,624</b>	<b>66,172</b>	<b>-</b>
Certificates of Indebtedness	21	327,372	-	-	-	-	-	327,372
Government-issued currency notes and coins in circulation	21	10,575	-	-	-	-	-	10,575
Balance of the banking system	22	164,093	-	-	-	-	-	164,093
Placements by banks and other financial institutions	23	50,734	-	-	-	-	-	50,734
Placements by Fiscal Reserves	24	773,862	-	-	-	-	-	773,862
Placements by HKSAR government funds and statutory bodies	25	214,911	-	-	-	-	-	214,911
Exchange Fund Bills and Notes issued	26	782,605	-	782,605	-	-	-	-
Derivative financial instruments	12(a)	4,347	4,347	-	-	-	-	-
Bank loans	27	9,525	-	-	-	-	-	9,525
Other debt securities issued	28	31,335	-	325	-	-	-	31,010
Others		74,362	-	-	-	-	-	74,362
<b>FINANCIAL LIABILITIES</b>		<b>2,443,721</b>	<b>4,347</b>	<b>782,930</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,656,444</b>

## Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2014							Other financial liabilities
	Note	Total	Trading financial instruments	Financial assets and liabilities designated at fair value	Loans and receivables	Held-to-maturity securities	Available-for-sale securities	
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	10	2,719,373	-	2,719,373	-	-	-	-
Available-for-sale securities	11	493	-	-	-	-	493	-
Derivative financial instruments	12(a)	6,870	6,870	-	-	-	-	-
Others		17,994	-	-	17,994	-	-	-
<b>FINANCIAL ASSETS</b>		<b>3,060,338</b>	<b>6,870</b>	<b>2,719,373</b>	<b>333,602</b>	<b>-</b>	<b>493</b>	<b>-</b>
Certificates of Indebtedness	21	340,184	-	-	-	-	-	340,184
Government-issued currency notes and coins in circulation	21	11,028	-	-	-	-	-	11,028
Balance of the banking system	22	239,183	-	-	-	-	-	239,183
Placements by banks and other financial institutions	23	64,001	-	-	-	-	-	64,001
Placements by Fiscal Reserves	24	788,681	-	-	-	-	-	788,681
Placements by HKSAR government funds and statutory bodies	25	261,139	-	-	-	-	-	261,139
Exchange Fund Bills and Notes issued	26	752,446	-	752,446	-	-	-	-
Derivative financial instruments	12(a)	3,585	3,585	-	-	-	-	-
Others		53,199	-	-	-	-	-	53,199
<b>FINANCIAL LIABILITIES</b>		<b>2,513,446</b>	<b>3,585</b>	<b>752,446</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,757,415</b>

## Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2013							Other financial liabilities
	Note	Total	Trading financial instruments	Financial assets and liabilities designated at fair value	Loans and receivables	Held-to-maturity securities	Available-for-sale securities	
Cash and money at call	7	127,739	-	-	127,739	-	-	-
Placements with banks and other financial institutions	8	165,080	-	-	165,080	-	-	-
Financial assets designated at fair value	10	2,603,501	-	2,603,501	-	-	-	-
Available-for-sale securities	11	493	-	-	-	-	493	-
Derivative financial instruments	12(a)	3,492	3,492	-	-	-	-	-
Others		60,207	-	-	60,207	-	-	-
<b>FINANCIAL ASSETS</b>		<b>2,960,512</b>	<b>3,492</b>	<b>2,603,501</b>	<b>353,026</b>	<b>-</b>	<b>493</b>	<b>-</b>
Certificates of Indebtedness	21	327,372	-	-	-	-	-	327,372
Government-issued currency notes and coins in circulation	21	10,575	-	-	-	-	-	10,575
Balance of the banking system	22	164,093	-	-	-	-	-	164,093
Placements by banks and other financial institutions	23	50,734	-	-	-	-	-	50,734
Placements by Fiscal Reserves	24	773,862	-	-	-	-	-	773,862
Placements by HKSAR government funds and statutory bodies	25	214,911	-	-	-	-	-	214,911
Exchange Fund Bills and Notes issued	26	782,605	-	782,605	-	-	-	-
Derivative financial instruments	12(a)	3,124	3,124	-	-	-	-	-
Others		67,940	-	-	-	-	-	67,940
<b>FINANCIAL LIABILITIES</b>		<b>2,395,216</b>	<b>3,124</b>	<b>782,605</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,609,487</b>

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 7 CASH AND MONEY AT CALL

	Group		Fund	
	2014	2013	2014	2013
At amortised cost				
Balance with central banks	<b>101,365</b>	53,004	<b>101,365</b>	53,004
Balance with banks	<b>95,336</b>	75,688	<b>94,163</b>	74,735
<b>TOTAL</b>	<b>196,701</b>	128,692	<b>195,528</b>	127,739

## 8 PLACEMENTS WITH BANKS AND OTHER FINANCIAL INSTITUTIONS

	Group		Fund	
	2014	2013	2014	2013
At amortised cost				
Placements in respect of reverse repurchase agreements:				
– with central banks	<b>38,799</b>	38,794	<b>38,799</b>	38,794
– with banks and other financial institutions	<b>4,058</b>	8,018	<b>4,058</b>	8,018
Other placements:				
– with central banks	<b>2,326</b>	–	<b>2,326</b>	–
– with banks	<b>93,056</b>	129,820	<b>74,897</b>	118,268
<b>TOTAL</b>	<b>138,239</b>	176,632	<b>120,080</b>	165,080

## 9 ASSETS HELD FOR SALE

The assets and liabilities related to the Group's 90% interest in Bauhinia HKMC Corporation Limited were classified as held for sale in December 2013. The Group completed the sale of all its equity interest in January 2014.



# Exchange Fund – Notes to the Financial Statements (continued)

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

## 10 FINANCIAL ASSETS DESIGNATED AT FAIR VALUE

	Group		Fund	
	2014	2013	2014	2013
At fair value				
<b>Debt securities</b>				
<b>Treasury bills and commercial paper</b>				
Listed outside Hong Kong	17,800	2,325	17,800	2,325
Unlisted	701,366	1,075,359	701,366	1,075,359
<b>Certificates of deposit</b>				
Unlisted	59,648	48,846	59,648	48,846
<b>Other debt securities</b>				
Listed outside Hong Kong	1,176,642	742,967	1,176,586	742,455
Unlisted	201,428	221,768	190,860	211,039
<b>Total debt securities</b>	<b>2,156,884</b>	<b>2,091,265</b>	<b>2,146,260</b>	<b>2,080,024</b>
<b>Equity securities</b>				
Listed in Hong Kong	156,781	152,895	156,781	152,895
Listed outside Hong Kong	335,606	297,317	335,606	297,317
Unlisted	81,944	75,311	80,726	73,265
<b>Total equity securities</b>	<b>574,331</b>	<b>525,523</b>	<b>573,113</b>	<b>523,477</b>
<b>TOTAL</b>	<b>2,731,215</b>	<b>2,616,788</b>	<b>2,719,373</b>	<b>2,603,501</b>

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 11 AVAILABLE-FOR-SALE SECURITIES

	Group		Fund	
	2014	2013	2014	2013
<b>Debt securities, at fair value</b>				
Listed in Hong Kong	185	379	-	-
Listed outside Hong Kong	118	192	-	-
Unlisted	3,947	2,371	-	-
	<b>4,250</b>	2,942	-	-
<b>Equity securities</b>				
Listed in Hong Kong, at fair value	984	918	-	-
Unlisted, at cost	493	493	493	493
	<b>1,477</b>	1,411	493	493
<b>Investment funds, at fair value</b>				
Unlisted	81,929	61,819	-	-
<b>TOTAL</b>	<b>87,656</b>	66,172	<b>493</b>	493

The Group's investment in unlisted equity securities as at 31 December 2014 represents a holding of 4,285 shares (2013: 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 (also note 35). Investment in unlisted investment funds mainly represents the Group's holding of private equity funds under the Long-Term Growth Portfolio.

## 12 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 37.

# Exchange Fund – Notes to the Financial Statements (continued)

(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				Fund			
	2014		2013		2014		2013	
	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities	Assets	Liabilities
<b>Derivatives categorised as trading financial instruments</b>								
Interest rate derivatives								
Interest rate swap contracts	905	700	580	970	880	185	554	531
Interest rate futures contracts	1	2	1	1	1	2	1	1
Equity derivatives								
Equity contracts	127	-	677	-	-	-	-	-
Equity index futures contracts	948	283	92	224	948	283	92	224
Equity index option contracts	-	109	-	-	-	109	-	-
Currency derivatives								
Forward foreign exchange contracts	4,969	2,037	2,846	2,365	4,964	2,037	2,835	2,365
Bond derivatives								
Bond futures contracts	12	20	10	3	12	20	10	3
Bond option contracts	65	949	-	-	65	949	-	-
	<b>7,027</b>	<b>4,100</b>	4,206	3,563	<b>6,870</b>	<b>3,585</b>	3,492	3,124
<b>Derivatives designated as hedging instruments in fair value hedges</b>								
Interest rate derivatives								
Interest rate swap contracts	511	10	632	24	-	-	-	-
Currency derivatives								
Currency swap contracts	16	1,566	162	760	-	-	-	-
	<b>527</b>	<b>1,576</b>	794	784	-	-	-	-
<b>TOTAL</b>	<b>7,554</b>	<b>5,676</b>	5,000	4,347	<b>6,870</b>	<b>3,585</b>	3,492	3,124

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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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	2014				Total	2013			
3 months or less		1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	3 months or less		1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	
<b>Derivatives categorised as trading financial instruments</b>										
Interest rate derivatives										
Interest rate swap contracts	74,780	20,623	26,037	12,398	15,722	35,880	300	1,943	15,756	17,881
Interest rate futures contracts	17,738	3,967	4,788	8,983	-	7,068	-	1,448	5,620	-
Equity derivatives										
Equity contracts	938	-	938	-	-	1,068	-	-	1,068	-
Equity index futures contracts	101,902	101,902	-	-	-	79,951	79,951	-	-	-
Equity index option contracts	3,877	3,877	-	-	-	-	-	-	-	-
Currency derivatives										
Forward foreign exchange contracts	220,576	155,146	65,430	-	-	306,029	300,962	2,159	2,908	-
Bond derivatives										
Bond futures contracts	20,641	20,641	-	-	-	9,454	9,454	-	-	-
Bond option contracts	77,549	-	77,549	-	-	-	-	-	-	-
	<b>518,001</b>	<b>306,156</b>	<b>174,742</b>	<b>21,381</b>	<b>15,722</b>	<b>439,450</b>	<b>390,667</b>	<b>5,550</b>	<b>25,352</b>	<b>17,881</b>
<b>Derivatives designated as hedging instruments in fair value hedges</b>										
Interest rate derivatives										
Interest rate swap contracts	10,328	200	1,295	6,966	1,867	14,982	1,080	4,735	7,078	2,089
Currency derivatives										
Currency swap contracts	18,990	4,829	6,905	6,478	778	16,690	2,313	7,708	6,588	81
	<b>29,318</b>	<b>5,029</b>	<b>8,200</b>	<b>13,444</b>	<b>2,645</b>	<b>31,672</b>	<b>3,393</b>	<b>12,443</b>	<b>13,666</b>	<b>2,170</b>
<b>TOTAL</b>	<b>547,319</b>	<b>311,185</b>	<b>182,942</b>	<b>34,825</b>	<b>18,367</b>	<b>471,122</b>	<b>394,060</b>	<b>17,993</b>	<b>39,018</b>	<b>20,051</b>

## Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund									
	Notional amounts with remaining life of									
	Total	2014				Total	2013			
3 months or less		1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	3 months or less		1 year or less but over 3 months	5 years or less but over 1 year	Over 5 years	
<b>Derivatives categorised as trading financial instruments</b>										
Interest rate derivatives										
Interest rate swap contracts	64,692	19,775	25,987	3,330	15,600	23,790	-	1,000	8,390	14,400
Interest rate futures contracts	17,738	3,967	4,788	8,983	-	7,068	-	1,448	5,620	-
Equity derivatives										
Equity index futures contracts	101,902	101,902	-	-	-	79,951	79,951	-	-	-
Equity index option contracts	3,877	3,877	-	-	-	-	-	-	-	-
Currency derivatives										
Forward foreign exchange contracts	219,876	154,446	65,430	-	-	304,113	299,740	2,012	2,361	-
Bond derivatives										
Bond futures contracts	20,641	20,641	-	-	-	9,454	9,454	-	-	-
Bond option contracts	77,549	-	77,549	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>506,275</b>	<b>304,608</b>	<b>173,754</b>	<b>12,313</b>	<b>15,600</b>	<b>424,376</b>	<b>389,145</b>	<b>4,460</b>	<b>16,371</b>	<b>14,400</b>

### 13 HELD-TO-MATURITY SECURITIES

	Group		Fund	
	2014	2013	2014	2013
At amortised cost				
<b>Debt securities</b>				
Listed in Hong Kong	2,973	2,740	-	-
Listed outside Hong Kong	2,190	2,916	-	-
Unlisted	4,006	2,968	-	-
<b>TOTAL</b>	<b>9,169</b>	<b>8,624</b>	<b>-</b>	<b>-</b>

Fair value information of the above held-to-maturity securities is provided in note 38.2.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 14 LOAN PORTFOLIO

	Group		Fund	
	2014	2013	2014	2013
Mortgage loans, at amortised cost	<b>14,874</b>	21,455	-	-
Non-mortgage loans, at amortised cost	<b>699</b>	815	-	-
Allowance for loan impairment	<b>(1)</b>	(2)	-	-
<b>TOTAL</b>	<b>15,572</b>	22,268	-	-

## 15 GOLD

	Group and Fund	
	2014	2013
Gold, at fair value 66,798 ounces (2013: 66,798 ounces)	<b>621</b>	622

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.

## 16 OTHER ASSETS

	Group		Fund	
	2014	2013	2014	2013
Interest and dividends receivable	<b>7,133</b>	6,920	<b>6,818</b>	6,556
Unsettled sales and redemption of securities	<b>7,329</b>	45,817	<b>7,329</b>	45,817
Prepayments, receivables and other assets	<b>3,652</b>	7,703	<b>3,294</b>	7,194
Staff housing loans	<b>120</b>	138	<b>120</b>	138
Loan to the International Monetary Fund	<b>459</b>	527	<b>459</b>	527
Deferred tax assets	<b>59</b>	63	-	-
<b>TOTAL</b>	<b>18,752</b>	61,168	<b>18,020</b>	60,232

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 17 INTERESTS IN SUBSIDIARIES

	Fund	
	2014	2013
Unlisted shares, at cost	2,312	2,145
Loans to subsidiaries	82,610	66,400
<b>TOTAL</b>	<b>84,922</b>	<b>68,545</b>

The following is a list of the principal subsidiaries held directly by the Fund as at 31 December 2014:

Name of company	Place of incorporation and operation	Principal activities	Issued equity capital	Fund's interest in equity capital
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%
Hong Kong FMI Services Limited	Hong Kong	Performance of financial market infrastructure related operations	HK\$167,000,000	100%
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%
Real Avenue Investment Company Limited	Hong Kong	Investment properties holding	HK\$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 Summit Investment Company Limited	Hong Kong	Investment properties holding	HK\$1	100%
Stratosphere Finance Company Limited	Hong Kong	Investment holding	HK\$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 and income attributed to these companies not audited by the Audit Commission amounted to 6.36% and 20.18% of the Group's respective items.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 18 INTERESTS IN ASSOCIATES AND JOINT VENTURES

	Group		Fund	
	2014	2013	2014	2013
<b>Associates</b>				
Unlisted shares, at cost	-	-	-	-
Share of net assets	485	67	-	-
	485	67	-	-
<b>Joint ventures</b>				
Share of net assets	2,253	780	-	-
Due from joint ventures	13,710	8,584	-	-
	15,963	9,364	-	-
<b>TOTAL</b>	<b>16,448</b>	<b>9,431</b>	<b>-</b>	<b>-</b>

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	
	2014	2013
Share of profit for the year	10	10
Share of total comprehensive income	10	10
Aggregate carrying amount of interests in the associates	485	67

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

	Group	
	2014	2013
Commitments to contribute funds	860	-



# Exchange Fund – Notes to the Financial Statements (continued)

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

The Group holds investments in nine 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 2014, 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 still 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 2014, the aggregate interest in these joint ventures amounted to 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	
	2014	2013
Share of profit for the year	<b>1,720</b>	678
Share of other comprehensive income	<b>(247)</b>	4
Share of total comprehensive income	<b>1,473</b>	682
Aggregate carrying amount of interests in the joint ventures	<b>15,963</b>	9,364

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

	Group	
	2014	2013
Commitments to contribute funds	<b>487</b>	698

## 19 INVESTMENT PROPERTIES

	Group		Fund	
	2014	2013	2014	2013
<b>At fair value</b>				
At 1 January	<b>17,695</b>	16,380	-	-
Change in fair value on revaluation	<b>1,272</b>	816	-	-
Exchange differences	<b>(1,474)</b>	499	-	-
At 31 December	<b>17,493</b>	17,695	-	-

## Exchange Fund – Notes to the Financial Statements (continued)

(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	
	2014	2013	2014	2013
Held outside Hong Kong				
on freehold	<b>9,077</b>	9,444	-	-
on long-term lease (over 50 years)	<b>8,416</b>	8,251	-	-
<b>TOTAL</b>	<b>17,493</b>	17,695	-	-

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	
	2014	2013	2014	2013
Gross rental income	<b>1,051</b>	1,007	-	-
Direct expenses	<b>(95)</b>	(90)	-	-
Net rental income	<b>956</b>	917	-	-

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

	Group		Fund	
	2014	2013	2014	2013
Within one year	<b>917</b>	997	-	-
After one year but not later than five years	<b>3,576</b>	3,936	-	-
After five years but not later than ten years	<b>3,260</b>	3,871	-	-
After ten years but not later than fifteen years	<b>1,082</b>	1,855	-	-
After fifteen years but not later than twenty years	-	38	-	-
<b>TOTAL</b>	<b>8,835</b>	10,697	-	-

At 31 December 2014, investment properties with a fair value of HK\$17,493 million (2013: HK\$17,695 million) were pledged to secure general banking facilities granted to the Group (note 27).

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 19.1 Fair value measurement of investment properties

The Group's investment properties are revalued at the end of each financial year by independent professionally qualified valuers on an open market value basis. The valuers have valued such 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 5.5% to 6.85% (2013: 4.9% to 6.1%), net initial yields which ranged from 4.89% to 4.99% (2013: 5.15% to 5.41%) and terminal capitalisation rates which ranged from 4.0% to 4.8% (2013: 4.9% to 6.2%). 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.

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:

	Group		Fund	
	2014	2013	2014	2013
At 1 January	<b>17,695</b>	16,380	-	-
Change in fair value on revaluation recognised as "income from investment properties" in the income and expenditure account	<b>1,272</b>	816	-	-
Exchange differences recognised as "net exchange gain/(loss)" in the income and expenditure account	<b>(1,474)</b>	499	-	-
At 31 December	<b>17,493</b>	17,695	-	-
Net gains/(losses) recognised in the income and expenditure account held at the balance sheet date	<b>(202)</b>	1,315	-	-

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 20 PROPERTY, PLANT AND EQUIPMENT

(a)

	Group			Total
	Premises	Plant and equipment	Computer software licences and system development costs	
<b>Cost</b>				
At 1 January 2013	3,852	866	295	5,013
Additions	–	130	36	166
Disposals	–	(6)	–	(6)
At 31 December 2013	3,852	990	331	5,173
At 1 January 2014	<b>3,852</b>	<b>990</b>	<b>331</b>	<b>5,173</b>
Additions	–	<b>114</b>	<b>24</b>	<b>138</b>
Disposals	–	<b>(36)</b>	–	<b>(36)</b>
At 31 December 2014	<b>3,852</b>	<b>1,068</b>	<b>355</b>	<b>5,275</b>
<b>Accumulated depreciation</b>				
At 1 January 2013	809	611	254	1,674
Charge for the year	88	74	10	172
Written back on disposal	–	(5)	–	(5)
At 31 December 2013	897	680	264	1,841
At 1 January 2014	<b>897</b>	<b>680</b>	<b>264</b>	<b>1,841</b>
Charge for the year	<b>87</b>	<b>88</b>	<b>14</b>	<b>189</b>
Written back on disposal	–	<b>(36)</b>	–	<b>(36)</b>
At 31 December 2014	<b>984</b>	<b>732</b>	<b>278</b>	<b>1,994</b>
<b>Net book value</b>				
<b>At 31 December 2014</b>	<b>2,868</b>	<b>336</b>	<b>77</b>	<b>3,281</b>
At 31 December 2013	2,955	310	67	3,332

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund			Total
	Premises	Plant and equipment	Computer software licences and system development costs	
<b>Cost</b>				
At 1 January 2013	3,843	338	295	4,476
Additions	–	32	36	68
Disposals	–	(2)	–	(2)
At 31 December 2013	3,843	368	331	4,542
At 1 January 2014	<b>3,843</b>	<b>368</b>	<b>331</b>	<b>4,542</b>
Additions	–	<b>86</b>	<b>24</b>	<b>110</b>
Disposals	–	<b>(6)</b>	–	<b>(6)</b>
At 31 December 2014	<b>3,843</b>	<b>448</b>	<b>355</b>	<b>4,646</b>
<b>Accumulated depreciation</b>				
At 1 January 2013	804	242	254	1,300
Charge for the year	88	32	10	130
Written back on disposal	–	(2)	–	(2)
At 31 December 2013	892	272	264	1,428
At 1 January 2014	<b>892</b>	<b>272</b>	<b>264</b>	<b>1,428</b>
Charge for the year	<b>87</b>	<b>35</b>	<b>14</b>	<b>136</b>
Written back on disposal	–	<b>(6)</b>	–	<b>(6)</b>
At 31 December 2014	<b>979</b>	<b>301</b>	<b>278</b>	<b>1,558</b>
<b>Net book value</b>				
<b>At 31 December 2014</b>	<b>2,864</b>	<b>147</b>	<b>77</b>	<b>3,088</b>
At 31 December 2013	2,951	96	67	3,114

**(b) The net book value of premises comprises:**

	Group		Fund	
	2014	2013	2014	2013
In Hong Kong				
Leasehold land and the building situated thereon (leasehold between 10 and 50 years)	<b>2,845</b>	2,932	<b>2,841</b>	2,928
Outside Hong Kong				
Freehold land and the building situated thereon	<b>23</b>	23	<b>23</b>	23
<b>TOTAL</b>	<b>2,868</b>	2,955	<b>2,864</b>	2,951

# Exchange Fund – Notes to the Financial Statements (continued)

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

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

	Group and Fund			
	Certificates of Indebtedness		Government-issued currency notes and coins in circulation	
	2014	2013	2014	2013
Carrying amount	<b>340,184</b>	327,372	<b>11,028</b>	10,575
<b>Reconciliation with face value:</b>				
Hong Kong dollar face value	<b>342,165</b>	329,325	<b>11,092</b>	10,638
Linked exchange rate for calculating the US dollars required for redemption	<b>US\$1=HK\$7.80</b>	US\$1=HK\$7.80	<b>US\$1=HK\$7.80</b>	US\$1=HK\$7.80
US dollars required for redemption	<b>US\$43,867 million</b>	US\$42,221 million	<b>US\$1,422 million</b>	US\$1,364 million
Market exchange rate for translation into Hong Kong dollars	<b>US\$1=HK\$7.75485</b>	US\$1=HK\$7.75375	<b>US\$1=HK\$7.75485</b>	US\$1=HK\$7.75375
Carrying amount	<b>340,184</b>	327,372	<b>11,028</b>	10,575

## 22 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 23 PLACEMENTS BY BANKS AND OTHER FINANCIAL INSTITUTIONS

	Group and Fund	
	2014	2013
At amortised cost		
Placements by central banks	63,171	50,734
Placements by banks	830	–
<b>TOTAL</b>	<b>64,001</b>	<b>50,734</b>

## 24 PLACEMENTS BY FISCAL RESERVES

	Group and Fund	
	2014	2013
<b>Placements with interest payable at a fixed rate determined annually</b>		
General Revenue Account	447,930	407,622
Land Fund	219,730	219,730
Capital Works Reserve Fund	67,980	102,467
Civil Service Pension Reserve Fund	27,029	27,029
Disaster Relief Fund	8	33
Innovation and Technology Fund	1,156	2,011
Lotteries Fund	21,571	11,173
Capital Investment Fund	2,440	1,929
Loan Fund	834	1,821
	<b>788,678</b>	<b>773,815</b>
<b>Placements with interest payable at market-based rates</b>		
General Revenue Account	3	47
<b>TOTAL</b>	<b>788,681</b>	<b>773,862</b>

Placements by Fiscal Reserves are repayable on demand. Interest on the majority of the placements by Fiscal Reserves 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 3.6% per annum for 2014 (2013: 5.0%). As at 31 December 2014, interest payable on these placements, included in "Other liabilities" (note 29), amounted to HK\$27.5 billion (2013: Nil).

# Exchange Fund – Notes to the Financial Statements (continued)

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

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

	Group and Fund	
	2014	2013
<b>Placements with interest payable at a fixed rate<sup>1</sup> determined annually</b>		
Research Endowment Fund	25,805	25,979
Bond Fund	112,718	97,303
Housing Authority	37,923	36,605
West Kowloon Cultural District Authority	14,930	14,412
Trading Funds	7,472	5,280
Community Care Fund	16,512	15,938
Elite Athletes Development Fund	6,742	6,595
Samaritan Fund	6,581	6,352
Environment and Conservation Fund	4,971	4,798
Employees Retraining Board	12,882	–
Language Fund	5,142	–
Hospital Authority	7,491	–
	<b>259,169</b>	213,262
<b>Placements with interest payable at market-based rates</b>		
Deposit Protection Scheme Fund	1,970	1,649
<b>TOTAL</b>	<b>261,139</b>	214,911

<sup>1</sup> 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 3.6% per annum for 2014 (2013: 5.0%).



# Exchange Fund – Notes to the Financial Statements (continued)

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

## 26 EXCHANGE FUND BILLS AND NOTES ISSUED

	Group		Fund	
	2014	2013	2014	2013
At fair value				
<b>Exchange Fund Bills and Notes issued</b>				
Exchange Fund Bills	<b>683,905</b>	715,712	<b>683,905</b>	715,712
Exchange Fund Notes	<b>69,641</b>	68,892	<b>69,641</b>	68,892
	<b>753,546</b>	784,604	<b>753,546</b>	784,604
<b>Exchange Fund Bills held</b>	<b>(1,600)</b>	(1,999)	<b>(1,100)</b>	(1,999)
<b>TOTAL</b>	<b>751,946</b>	782,605	<b>752,446</b>	782,605

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.

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			
	2014		2013		2014		2013	
	Exchange Fund Bills	Exchange Fund Notes	Exchange Fund Bills	Exchange Fund Notes	Exchange Fund Bills	Exchange Fund Notes	Exchange Fund Bills	Exchange Fund Notes
Issued by Currency Board Operations segment								
Nominal value at 1 January	<b>715,813</b>	<b>68,100</b>	618,273	68,700	<b>715,813</b>	<b>68,100</b>	618,273	68,700
Issuance	<b>2,128,131</b>	<b>16,400</b>	2,110,221	16,400	<b>2,128,131</b>	<b>16,400</b>	2,110,221	16,400
Redemption	<b>(2,160,014)</b>	<b>(15,800)</b>	(2,012,681)	(17,000)	<b>(2,160,014)</b>	<b>(15,800)</b>	(2,012,681)	(17,000)
Nominal value at 31 December	<b>683,930</b>	<b>68,700</b>	715,813	68,100	<b>683,930</b>	<b>68,700</b>	715,813	68,100
Long positions held by Financial Stability and Other Activities segment								
Nominal value at 31 December	<b>(1,600)</b>	-	(2,000)	-	<b>(1,100)</b>	-	(2,000)	-
Total nominal value	<b>682,330</b>	<b>68,700</b>	713,813	68,100	<b>682,830</b>	<b>68,700</b>	713,813	68,100
Carrying amount, at fair value	<b>682,305</b>	<b>69,641</b>	713,713	68,892	<b>682,805</b>	<b>69,641</b>	713,713	68,892
Difference	<b>25</b>	<b>(941)</b>	100	(792)	<b>25</b>	<b>(941)</b>	100	(792)

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

## Exchange Fund – Notes to the Financial Statements (continued)

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

### 27 BANK LOANS

	Group		Fund	
	2014	2013	2014	2013
At amortised cost				
Bank loans repayable:				
After one year but not later than two years	1,954	–	–	–
After two years but not later than five years	6,824	6,248	–	–
After five years but not later than ten years	–	3,277	–	–
<b>TOTAL</b>	<b>8,778</b>	9,525	–	–

### 28 OTHER DEBT SECURITIES ISSUED

	Group		Fund	
	2014	2013	2014	2013
Debt securities issued, carried at amortised cost	5,109	2,225	–	–
Debt securities issued, designated as hedged items under fair value hedge	27,825	28,785	–	–
Debt securities issued, designated at fair value	336	325	–	–
<b>TOTAL</b>	<b>33,270</b>	31,335	–	–

# Exchange Fund – Notes to the Financial Statements (continued)

(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	
	2014	2013	2014	2013
Total debt securities issued				
Nominal value at 1 January	<b>31,425</b>	35,229	-	-
Issuance	<b>30,468</b>	18,162	-	-
Redemption	<b>(27,505)</b>	(21,966)	-	-
Foreign currency translation differences	<b>27</b>	-	-	-
Nominal value at 31 December	<b>34,415</b>	31,425	-	-
Carrying amount	<b>33,270</b>	31,335	-	-
Difference	<b>1,145</b>	90	-	-
Debt securities issued, designated at fair value				
Nominal value	<b>389</b>	389	-	-
Carrying amount, at fair value	<b>336</b>	325	-	-
Difference	<b>53</b>	64	-	-

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

## 29 OTHER LIABILITIES

	Group		Fund	
	2014	2013	2014	2013
Unsettled purchases of securities	<b>24,902</b>	67,349	<b>24,902</b>	67,349
Interest payable on placements by Fiscal Reserves <sup>1</sup>	<b>27,487</b>	-	<b>27,487</b>	-
Accrued charges and other liabilities	<b>7,219</b>	6,990	<b>741</b>	508
Other interest payable	<b>353</b>	420	<b>166</b>	177
Tax payable	<b>151</b>	155	-	-
Deferred tax liabilities	<b>121</b>	90	-	-
<b>TOTAL</b>	<b>60,233</b>	75,004	<b>53,296</b>	68,034

<sup>1</sup> In accordance with a directive made by the Financial Secretary in December 2014, the accrued interest on placements by Fiscal Reserves earned for the year shall not be payable on 31 December 2014. 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 24) and shall be payable to the fund accounts of the Fiscal Reserves on a date determined by the Financial Secretary.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 30 EQUITY

	Group		Fund	
	2014	2013	2014	2013
<b>Attributable to owner of the Fund</b>				
<b>Accumulated surplus</b>				
At 1 January	657,989	637,268	637,508	623,884
Surplus/(Deficit) for the year	8,006	20,721	(2,056)	13,624
At 31 December	665,995	657,989	635,452	637,508
<b>Revaluation reserve</b>				
At 1 January	13,563	3,917	-	-
Fair value changes on available-for-sale securities:				
– revaluation	(944)	9,884	-	-
– realisation on disposal	(63)	(296)	-	-
– tax effect	(20)	55	-	-
Fair value changes on cash flow hedges:				
– transferred to income and expenditure account	3	4	-	-
– tax effect	-	(1)	-	-
	(1,024)	9,646	-	-
At 31 December	12,539	13,563	-	-
<b>Translation reserve</b>				
At 1 January	73	36	-	-
Currency translation differences:				
– subsidiaries and joint ventures	(890)	37	-	-
– reserve released on disposal of a subsidiary classified as assets held for sale	(13)	-	-	-
	(903)	37	-	-
At 31 December	(830)	73	-	-
	677,704	671,625	635,452	637,508
<b>Non-controlling interests</b>				
At 1 January	566	478	-	-
Surplus for the year	127	72	-	-
Currency translation differences	(16)	1	-	-
Capital injection by non-controlling interests	228	38	-	-
Disposal of a subsidiary classified as assets held for sale	(13)	-	-	-
Dividends paid to non-controlling interests	(14)	(23)	-	-
At 31 December	878	566	-	-
<b>TOTAL</b>	<b>678,582</b>	<b>672,191</b>	<b>635,452</b>	<b>637,508</b>

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 31 ANALYSIS OF CASH AND CASH EQUIVALENTS IN THE STATEMENT OF CASH FLOWS

	Group		Fund	
	2014	2013	2014	2013
Cash and money at call	<b>196,701</b>	128,692	<b>195,528</b>	127,739
Placements with banks and other financial institutions	<b>125,726</b>	165,042	<b>117,774</b>	163,529
Treasury bills and commercial paper	<b>480</b>	34,760	<b>480</b>	34,760
<b>TOTAL</b>	<b>322,907</b>	328,494	<b>313,782</b>	326,028

### Reconciliation with the balance sheet

	Note	Group		Fund	
		2014	2013	2014	2013
<b>Amounts shown in the balance sheet</b>					
Cash and money at call	7	<b>196,701</b>	128,692	<b>195,528</b>	127,739
Placements with banks and other financial institutions	8	<b>138,239</b>	176,632	<b>120,080</b>	165,080
Financial assets designated at fair value					
Treasury bills and commercial paper	10	<b>719,166</b>	1,077,684	<b>719,166</b>	1,077,684
		<b>1,054,106</b>	1,383,008	<b>1,034,774</b>	1,370,503
Less: Amounts with original maturity beyond 3 months		<b>(731,199)</b>	(1,054,514)	<b>(720,992)</b>	(1,044,475)
<b>Cash and cash equivalents in the statement of cash flows</b>		<b>322,907</b>	328,494	<b>313,782</b>	326,028

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 32 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 2.20.

	Group							
	Currency Board Operations (note 32(a))		Reserves Management		Financial Stability and Other Activities		Total	
	2014	2013	2014	2013	2014	2013	2014	2013
<b>Income</b>								
Interest and dividend income	<b>3,738</b>	4,664	<b>24,862</b>	22,918	<b>1,168</b>	1,080	<b>29,768</b>	28,662
Investment gains/(losses)	<b>2,417</b>	(8,505)	<b>16,995</b>	51,386	<b>(658)</b>	362	<b>18,754</b>	43,243
Other income	-	-	<b>21</b>	42	<b>668</b>	681	<b>689</b>	723
	<b>6,155</b>	(3,841)	<b>41,878</b>	74,346	<b>1,178</b>	2,123	<b>49,211</b>	72,628
<b>Expenditure</b>								
Interest expense	<b>1,389</b>	1,251	<b>36,603</b>	46,468	<b>265</b>	255	<b>38,257</b>	47,974
Other expenses	<b>922</b>	922	<b>1,363</b>	1,455	<b>2,183</b>	2,055	<b>4,468</b>	4,432
	<b>2,311</b>	2,173	<b>37,966</b>	47,923	<b>2,448</b>	2,310	<b>42,725</b>	52,406
<b>Surplus/(Deficit) before share of profit of associates and joint ventures</b>	<b>3,844</b>	(6,014)	<b>3,912</b>	26,423	<b>(1,270)</b>	(187)	<b>6,486</b>	20,222
Share of profit of associates and joint ventures, net of tax	-	-	<b>1,713</b>	678	<b>17</b>	10	<b>1,730</b>	688
<b>Surplus/(Deficit) before taxation</b>	<b>3,844</b>	(6,014)	<b>5,625</b>	27,101	<b>(1,253)</b>	(177)	<b>8,216</b>	20,910

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Group									
	Currency Board Operations (note 32(a))		Reserves Management		Financial Stability and Other Activities		Re-allocation (note 32(b) & (c))		Total	
	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013
<b>Assets</b>										
Backing Assets										
Investment in designated US dollar assets	1,449,637	1,372,916	-	-	-	-	-	-	1,449,637	1,372,916
Interest receivable on designated US dollar assets	1,309	1,176	-	-	-	-	-	-	1,309	1,176
Net accounts receivable/(payable)	(7,750)	(25,188)	-	-	-	-	7,750	25,188	-	-
Other investments	-	-	1,607,178	1,532,082	157,899	143,726	(1,600)	(1,800)	1,763,477	1,674,008
Other assets	-	-	21,604	24,172	5,799	10,995	875	33,287	28,278	68,454
<b>TOTAL ASSETS</b>	<b>1,443,196</b>	<b>1,348,904</b>	<b>1,628,782</b>	<b>1,556,254</b>	<b>163,698</b>	<b>154,721</b>	<b>7,025</b>	<b>56,675</b>	<b>3,242,701</b>	<b>3,116,554</b>
<b>Liabilities</b>										
Monetary Base										
Certificates of Indebtedness	340,184	327,372	-	-	-	-	-	-	340,184	327,372
Government-issued currency notes and coins in circulation	11,028	10,575	-	-	-	-	-	-	11,028	10,575
Balance of the banking system	239,183	164,093	-	-	-	-	-	-	239,183	164,093
Exchange Fund Bills and Notes issued	753,546	784,604	-	-	-	-	(1,600)	(1,999)	751,946	782,605
Interest payable on Exchange Fund Notes	166	177	-	-	-	-	-	-	166	177
Net accounts (receivable)/payable	(727)	(32,968)	-	-	-	-	875	33,486	148	518
Other debt securities issued	-	-	-	-	33,270	31,335	-	-	33,270	31,335
Placements by banks and other financial institutions	-	-	830	-	63,171	50,734	-	-	64,001	50,734
Bank loans	-	-	8,778	9,525	-	-	-	-	8,778	9,525
Placements by Fiscal Reserves	-	-	788,681	773,862	-	-	-	-	788,681	773,862
Placements by HKSAR government funds and statutory bodies	-	-	259,169	213,262	1,970	1,649	-	-	261,139	214,911
Other liabilities	-	-	49,723	40,343	8,122	13,125	7,750	25,188	65,595	78,656
<b>TOTAL LIABILITIES</b>	<b>1,343,380</b>	<b>1,253,853</b>	<b>1,107,181</b>	<b>1,036,992</b>	<b>106,533</b>	<b>96,843</b>	<b>7,025</b>	<b>56,675</b>	<b>2,564,119</b>	<b>2,444,363</b>

# Exchange Fund – Notes to the Financial Statements (continued)

(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 107.27% as at 31 December 2014 (2013: 107.41%).

## **(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 2014, deductions from the Backing Assets comprised "Other liabilities" of HK\$7,750 million (2013: HK\$25,188 million).

The Monetary Base is also presented on a net basis. As at 31 December 2014, deductions from the Monetary Base comprising "other assets" of HK\$875 million (2013: HK\$33,486 million) consisted of three components:

- 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\$27 million (2013: HK\$21 million) and unrealised gains of HK\$848 million (2013: HK\$516 million) on these interest rate swaps are included in "net accounts (receivable)/payable" to reduce the Monetary Base.
- When Hong Kong dollar overnight advances secured on EFBN have been made to banks under the Discount Window Operations, the advances are included in "net accounts (receivable)/payable" to reduce the Monetary Base. There were no such advances at 31 December 2014 (2013: HK\$199 million).
- EFBN issued on tender date but not yet settled are included in "net accounts (receivable)/payable" to reduce the Monetary Base. There was no such receivable at 31 December 2014 (2013: HK\$32,750 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.**



# Exchange Fund – Notes to the Financial Statements (continued)

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

## 33 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.

	Note	Group		Fund	
		2014	2013	2014	2013
<b>Secured liabilities</b>					
Equity index futures contracts, at fair value	12(a)	-	132	-	132
Bond futures contracts, at fair value	12(a)	8	-	8	-
Interest rate futures contracts, at fair value	12(a)	1	-	1	-
Interest rate swap, at fair value		27	4	27	4
Bank loans	27	8,778	9,525	-	-
<b>Assets pledged</b>					
Cash and money at call		92	2	92	2
Financial assets designated at fair value		6,901	6,327	6,901	6,327
Investment properties		17,493	17,695	-	-

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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 34 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	
	2014	2013	2014	2013
Contracted for	6	14	6	9
Authorised but not yet contracted for	227	275	181	253
	233	289	187	262

### (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 2014, the Fund had an undertaking under the NAB to lend foreign currencies to the IMF up to HK\$3,820 million equivalent (2013: HK\$4,060 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\$459 million equivalent with a repayment term of five years (2013: HK\$527 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 (2013: 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 2014, there was no outstanding balance due from the HKDPB under this facility (2013: 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 (2013: HK\$30 billion) at prevailing market interest rates. As at 31 December 2014, there was no outstanding balance due from the HKMC under this facility (2013: 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\$44,590 million equivalent (2013: HK\$44,584 million equivalent). The arrangement allows each organisation to enhance the liquidity of its foreign reserve portfolio with minimal additional risk. As at 31 December 2014, there was no outstanding transaction with any central bank under this arrangement (2013: Nil).

# Exchange Fund – Notes to the Financial Statements (continued)

(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 (2013: US\$120 billion). Hong Kong, through the HKMA, participates in the CMIM and has undertaken to commit up to US\$8.4 billion (2013: US\$4.2 billion) out of the Fund. Hong Kong has the right to request liquidity support up to US\$6.3 billion (2013: US\$2.1 billion) from the CMIM in case of emergency. Up to 31 December 2014, there had been no request to activate the CMIM (2013: 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 2014 was RMB51.1 billion (2013: RMB40 billion).

## (h) Investment commitments

The Group's subsidiaries with principal activities of holding investments, including properties, had outstanding investment commitment of HK\$80,948 million equivalent as at 31 December 2014 (2013: HK\$80,211 million equivalent).

## (i) Lease commitments

As at 31 December 2014, the total future minimum lease payments payable under non-cancellable operating leases of premises were as follows:

	Group		Fund	
	2014	2013	2014	2013
Within one year	92	90	61	59
After one year but not later than five years	175	211	113	158
Later than five years	4	16	4	16
<b>TOTAL</b>	<b>271</b>	317	<b>178</b>	233

## (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\$4 million to FDRCL (2013: HK\$4 million). The outstanding commitment of the Fund to contribute to FDRCL as at 31 December 2014 was HK\$21 million (2013: HK\$14 million).

# Exchange Fund – Notes to the Financial Statements *(continued)*

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

## **35 CONTINGENT LIABILITIES**

As at 31 December 2014, the Fund had a contingent liability of up to 16.1 million Special Drawing Rights or HK\$181 million equivalent (2013: 16.1 million Special Drawing Rights or HK\$192 million equivalent), in respect of the uncalled portion of its 4,285 shares (2013: 4,285 shares) in the Bank for International Settlements (note 11).

## **36 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\$108 million (2013: HK\$151 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.

## **37 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.

### **37.1 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.

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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

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 (RC Department), which is independent of the Reserves Management Department, carries out the risk management activities of the Fund.

## 37.2 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:

	2014	2013
<b>Asset type</b>		
Bonds	73%	74%
Equities and related investments	27%	26%
	100%	100%
<b>Currency</b>		
US dollar and Hong Kong dollar	77%	77%
Others <sup>1</sup>	23%	23%
	100%	100%

<sup>1</sup> Other currencies included mainly Australian dollar, Canadian dollar, euro, sterling and 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 RC Department is responsible for risk management and compliance monitoring regarding the investments of the Fund. The RC Department monitors the risk exposure of the Fund, checks compliance of investment activities against established guidelines and reports and follows up any identified breaches.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.3 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.

### 37.3.1 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 RC 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 control the 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 control the overall exposure to each authorised counterparty based on its credit ratings, financial strength, the size of its total assets and capital, 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 caused by 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 RC 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 four-pronged 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.

### 37.3.2 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:

	Note	Group		Fund	
		2014	2013	2014	2013
Risk in force – mortgage insurance	37.6	<b>13,118</b>	14,454	-	-
Risk in force – other guarantees and insurance	37.6	<b>2,094</b>	1,625	-	-
Loan commitments, guarantees and other credit related commitments		<b>314,061</b>	280,908	<b>263,113</b>	230,697
<b>TOTAL</b>		<b>329,273</b>	296,987	<b>263,113</b>	230,697

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

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.3.3 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 2014, approximately 85% (2013: 91%) 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	
	2014	2013	2014	2013
<b>Cash and money at call, placements with banks and other financial institutions, by credit rating<sup>1</sup></b>				
AAA	14	273	14	273
AA- to AA +	86,141	104,560	79,398	100,677
A- to A +	131,487	144,704	120,007	137,188
Lower than A- or un-rated <sup>2</sup>	117,298	55,787	116,189	54,681
	<b>334,940</b>	305,324	<b>315,608</b>	292,819
<b>Debt securities, by credit rating<sup>1</sup></b>				
AAA	355,016	401,188	353,811	398,614
AA- to AA +	1,500,054	1,513,665	1,490,654	1,506,633
A- to A +	91,036	50,106	88,223	48,146
Lower than A- or un-rated <sup>2</sup>	224,197	137,872	213,572	126,631
	<b>2,170,303</b>	2,102,831	<b>2,146,260</b>	2,080,024
<b>Loan portfolio</b>				
Neither past due nor impaired (note 37.3.3(a))	15,212	21,969	-	-
Past due but not impaired (note 37.3.3(b))	359	299	-	-
Impaired (note 37.3.3(c))	2	2	-	-
Allowance for loan impairment	(1)	(2)	-	-
	<b>15,572</b>	22,268	-	-
<b>TOTAL</b>	<b>2,520,815</b>	2,430,423	<b>2,461,868</b>	2,372,843

<sup>1</sup> This is the lower of ratings designated by Moody’s and Standard & Poor’s.

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



## Exchange Fund – Notes to the Financial Statements (continued)

(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	
	2014	2013	2014	2013
Grades				
1 to 3	15,191	21,950	-	-
4	-	-	-	-
5	21	19	-	-
<b>TOTAL</b>	<b>15,212</b>	<b>21,969</b>	<b>-</b>	<b>-</b>

(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	
	2014	2013	2014	2013
Loans that were past due				
90 days or less	358	297	-	-
91 to 180 days	-	-	-	-
over 180 days	1	2	-	-
<b>TOTAL</b>	<b>359</b>	<b>299</b>	<b>-</b>	<b>-</b>
Fair value of collateral and other credit enhancements	2,584	2,156	-	-

# Exchange Fund – Notes to the Financial Statements (continued)

(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 2014, the fair value of related collateral held and credit enhancement was HK\$5 million (2013: HK\$4 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 2014, repossessed properties of the Group amounted to HK\$1 million (2013: HK\$2 million).

### 37.3.4 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		Fund	
	2014	2013	2014	2013
Governments and government agencies <sup>1</sup>	<b>1,977,746</b>	1,882,464	<b>1,977,462</b>	1,881,476
Supra-nationals	<b>159,847</b>	143,575	<b>159,847</b>	143,564
States, provinces and public-sector entities <sup>2</sup>	<b>166,689</b>	188,729	<b>196,008</b>	217,964
Financial institutions	<b>275,277</b>	282,407	<b>246,950</b>	262,969
Others <sup>3</sup>	<b>296,647</b>	304,954	<b>252,188</b>	227,666
<b>TOTAL</b>	<b>2,876,206</b>	2,802,129	<b>2,832,455</b>	2,733,639

<sup>1</sup> These included debt securities guaranteed by governments.

<sup>2</sup> These included debt securities guaranteed by states.

<sup>3</sup> These included debt securities issued by the Bank for International Settlements.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## **37.4 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.

### **37.4.1 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.4.2 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 to 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 RC 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 better the portfolio tracks its benchmark. The tracking error limit is established to prevent 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 controlled at the aggregate level through such measures as asset class approval, allocation limit and aggregate counterparty 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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.4.3 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.

	Group – 2014							Non-interest-bearing financial instruments
	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	
<b>Assets</b>								
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	-
<b>Interest-bearing assets</b>	<b>632,032</b>	<b>308,066</b>	<b>682,255</b>	<b>515,762</b>	<b>197,568</b>	<b>101,935</b>	<b>2,437,618</b>	
<b>Liabilities</b>								
Placements by banks and other financial institutions	830	-	-	-	-	-	830	63,171
Placements by Fiscal Reserves with interest payable at market-based rates <sup>1</sup>	3	-	-	-	-	-	3	-
Placements by HKSAR government funds and statutory bodies with interest payable at market-based rates <sup>1</sup>	1,970	-	-	-	-	-	1,970	-
Exchange Fund Bills and Notes issued	167,583	323,692	206,049	37,204	11,274	6,144	751,946	-
Bank loans	8,778	-	-	-	-	-	8,778	-
Other debt securities issued	8,168	10,010	4,002	8,040	3,050	-	33,270	-
<b>Interest-bearing liabilities</b>	<b>187,332</b>	<b>333,702</b>	<b>210,051</b>	<b>45,244</b>	<b>14,324</b>	<b>6,144</b>	<b>796,797</b>	
<b>Net interest-bearing assets/(liabilities)</b>	<b>444,700</b>	<b>(25,636)</b>	<b>472,204</b>	<b>470,518</b>	<b>183,244</b>	<b>95,791</b>	<b>1,640,821</b>	
<b>Interest rate derivatives (net position, notional amounts)</b>	<b>44,030</b>	<b>(49,894)</b>	<b>(15,411)</b>	<b>1,372</b>	<b>12,290</b>	<b>6,000</b>	<b>(1,613)</b>	
<b>Interest rate sensitivity gap</b>	<b>488,730</b>	<b>(75,530)</b>	<b>456,793</b>	<b>471,890</b>	<b>195,534</b>	<b>101,791</b>	<b>1,639,208</b>	

<sup>1</sup> 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 24 and 25). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million (2013: HK\$987,077 million).

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Group – 2013							Non-interest-bearing financial instruments
	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	
<b>Assets</b>								
Cash and money at call	76,884	-	-	-	-	-	76,884	51,808
Placements with banks and other financial institutions	157,219	12,234	7,160	-	-	-	176,613	19
Financial assets designated at fair value	370,298	459,236	523,917	416,935	206,131	96,888	2,073,405	543,383
Available-for-sale securities	217	571	1,215	939	-	-	2,942	63,230
Held-to-maturity securities	295	420	1,589	2,619	3,701	-	8,624	-
Loan portfolio	18,603	3,604	23	36	2	-	22,268	-
<b>Interest-bearing assets</b>	<b>623,516</b>	<b>476,065</b>	<b>533,904</b>	<b>420,529</b>	<b>209,834</b>	<b>96,888</b>	<b>2,360,736</b>	
<b>Liabilities</b>								
Placements by banks and other financial institutions	-	-	-	-	-	-	-	50,734
Placements by Fiscal Reserves with interest payable at market-based rates <sup>1</sup>	47	-	-	-	-	-	47	-
Placements by HKSAR government funds and statutory bodies with interest payable at market-based rates <sup>1</sup>	1,649	-	-	-	-	-	1,649	-
Exchange Fund Bills and Notes issued	200,841	323,698	205,106	37,260	9,871	5,829	782,605	-
Bank loans	9,525	-	-	-	-	-	9,525	-
Other debt securities issued	4,910	9,767	4,802	9,329	2,527	-	31,335	-
<b>Interest-bearing liabilities</b>	<b>216,972</b>	<b>333,465</b>	<b>209,908</b>	<b>46,589</b>	<b>12,398</b>	<b>5,829</b>	<b>825,161</b>	
<b>Net interest-bearing assets/(liabilities)</b>	<b>406,544</b>	<b>142,600</b>	<b>323,996</b>	<b>373,940</b>	<b>197,436</b>	<b>91,059</b>	<b>1,535,575</b>	
<b>Interest rate derivatives (net position, notional amounts)</b>	<b>3,972</b>	<b>[27,183]</b>	<b>5,733</b>	<b>3,532</b>	<b>7,374</b>	<b>6,000</b>	<b>[572]</b>	
<b>Interest rate sensitivity gap</b>	<b>410,516</b>	<b>115,417</b>	<b>329,729</b>	<b>377,472</b>	<b>204,810</b>	<b>97,059</b>	<b>1,535,003</b>	

<sup>1</sup> 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 24 and 25). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million (2013: HK\$987,077 million).

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2014							Non- interest- bearing financial instruments
	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	
<b>Assets</b>								
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
<b>Interest-bearing assets</b>	<b>607,092</b>	<b>298,301</b>	<b>678,440</b>	<b>510,113</b>	<b>193,952</b>	<b>101,935</b>	<b>2,389,833</b>	
<b>Liabilities</b>								
Placements by banks and other financial institutions	830	-	-	-	-	-	830	63,171
Placements by Fiscal Reserves with interest payable at market-based rates <sup>1</sup>	3	-	-	-	-	-	3	-
Placements by HKSAR government funds and statutory bodies with interest payable at market-based rates <sup>1</sup>	1,970	-	-	-	-	-	1,970	-
Exchange Fund Bills and Notes issued	168,083	323,692	206,049	37,204	11,274	6,144	752,446	-
<b>Interest-bearing liabilities</b>	<b>170,886</b>	<b>323,692</b>	<b>206,049</b>	<b>37,204</b>	<b>11,274</b>	<b>6,144</b>	<b>755,249</b>	
<b>Net interest-bearing assets/(liabilities)</b>	<b>436,206</b>	<b>(25,391)</b>	<b>472,391</b>	<b>472,909</b>	<b>182,678</b>	<b>95,791</b>	<b>1,634,584</b>	
<b>Interest rate derivatives (net position, notional amounts)</b>	<b>39,162</b>	<b>(37,775)</b>	<b>(19,387)</b>	<b>2,400</b>	<b>9,600</b>	<b>6,000</b>	<b>-</b>	
<b>Interest rate sensitivity gap</b>	<b>475,368</b>	<b>(63,166)</b>	<b>453,004</b>	<b>475,309</b>	<b>192,278</b>	<b>101,791</b>	<b>1,634,584</b>	

<sup>1</sup> 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 24 and 25). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million (2013: HK\$987,077 million).

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2013							Non- interest- bearing financial instruments
	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	
<b>Assets</b>								
Cash and money at call	76,418	-	-	-	-	-	76,418	51,321
Placements with banks and other financial institutions	153,905	11,175	-	-	-	-	165,080	-
Financial assets designated at fair value	369,916	459,010	523,794	416,485	206,070	96,888	2,072,163	531,338
<b>Interest-bearing assets</b>	<b>600,239</b>	<b>470,185</b>	<b>523,794</b>	<b>416,485</b>	<b>206,070</b>	<b>96,888</b>	<b>2,313,661</b>	
<b>Liabilities</b>								
Placements by banks and other financial institutions	-	-	-	-	-	-	-	50,734
Placements by Fiscal Reserves with interest payable at market-based rates <sup>1</sup>	47	-	-	-	-	-	47	-
Placements by HKSAR government funds and statutory bodies with interest payable at market-based rates <sup>1</sup>	1,649	-	-	-	-	-	1,649	-
Exchange Fund Bills and Notes issued	200,841	323,698	205,106	37,260	9,871	5,829	782,605	-
<b>Interest-bearing liabilities</b>	<b>202,537</b>	<b>323,698</b>	<b>205,106</b>	<b>37,260</b>	<b>9,871</b>	<b>5,829</b>	<b>784,301</b>	
<b>Net interest-bearing assets/(liabilities)</b>	<b>397,702</b>	<b>146,487</b>	<b>318,688</b>	<b>379,225</b>	<b>196,199</b>	<b>91,059</b>	<b>1,529,360</b>	
<b>Interest rate derivatives (net position, notional amounts)</b>	<b>-</b>	<b>(16,200)</b>	<b>1,000</b>	<b>800</b>	<b>8,400</b>	<b>6,000</b>	<b>-</b>	
<b>Interest rate sensitivity gap</b>	<b>397,702</b>	<b>130,287</b>	<b>319,688</b>	<b>380,025</b>	<b>204,599</b>	<b>97,059</b>	<b>1,529,360</b>	

<sup>1</sup> 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 24 and 25). The fixed rate is determined every January. As at 31 December 2014, such placements amounted to HK\$1,047,847 million (2013: HK\$987,077 million).



## Exchange Fund – Notes to the Financial Statements (continued)

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

### (b) Currency risk

The currency exposure of the Group is summarised below:

	Group			
	2014		2013	
	Assets (in HK\$ billion)	Liabilities (in HK\$ billion)	Assets (in HK\$ billion)	Liabilities (in HK\$ billion)
Hong Kong dollar	263.6	2,157.1	311.0	2,013.3
US dollar	2,405.7	382.1	2,281.8	408.8
Others <sup>1</sup>	2,669.3	2,539.2	2,592.8	2,422.1
	573.4	24.9	523.8	22.3
<b>TOTAL</b>	<b>3,242.7</b>	<b>2,564.1</b>	<b>3,116.6</b>	<b>2,444.4</b>

	Fund			
	2014		2013	
	Assets (in HK\$ billion)	Liabilities (in HK\$ billion)	Assets (in HK\$ billion)	Liabilities (in HK\$ billion)
Hong Kong dollar	228.9	2,133.7	278.6	1,992.1
US dollar	2,367.2	377.5	2,250.0	400.1
Others <sup>1</sup>	2,596.1	2,511.2	2,528.6	2,392.2
	552.9	2.3	504.2	3.1
<b>TOTAL</b>	<b>3,149.0</b>	<b>2,513.5</b>	<b>3,032.8</b>	<b>2,395.3</b>

<sup>1</sup> Other currencies included mainly Australian dollar, Canadian dollar, euro, renminbi, sterling and yen.

### (c) Equity price risk

As at 31 December 2014 and 2013, the majority of equity investments were reported as “financial assets designated at fair value” as shown in note 10.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.4.4 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	
	2014	2013
<b>Value-at-Risk</b>		
At 31 December <sup>1</sup>	<b>25,231</b>	26,736
During the year		
Average	<b>22,488</b>	29,431
Maximum	<b>27,265</b>	47,008
Minimum	<b>16,674</b>	20,523

<sup>1</sup> The amount represented 0.8% of the Fund's investments which were subject to VaR measurement as at 31 December 2014 (2013: 0.9%).

## 37.5 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.

### 37.5.1 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 liquidity assets to balance off investments of less liquid assets. Compliance with these limits is monitored by the RC Department and any breaches are reported to the ISC and the EFAC and are promptly followed up.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.5.2 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 – 2014						Total
	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	
<b>Non-derivative cash outflows</b>							
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
<b>TOTAL</b>	<b>2,053,827</b>	<b>342,579</b>	<b>301,198</b>	<b>131,394</b>	<b>42,853</b>	<b>6,340</b>	<b>2,878,191</b>
<b>Derivative cash (inflows)/outflows</b>							
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)
<b>TOTAL</b>	<b>1,492</b>	<b>1,220</b>	<b>983</b>	<b>1,065</b>	<b>157</b>	<b>49</b>	<b>4,966</b>

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Group – 2013							Total
	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		
<b>Non-derivative cash outflows</b>								
Certificates of Indebtedness	327,372	-	-	-	-	-	327,372	
Government-issued currency notes and coins in circulation	10,575	-	-	-	-	-	10,575	
Balance of the banking system	164,093	-	-	-	-	-	164,093	
Placements by banks and other financial institutions	50,734	-	-	-	-	-	50,734	
Placements by Fiscal Reserves	773,862	-	-	-	-	-	773,862	
Placements by HKSAR government funds and statutory bodies	112,261	-	-	84,150	18,500	-	214,911	
Exchange Fund Bills and Notes issued	200,841	323,938	205,893	38,818	11,057	6,329	786,876	
Bank loans	107	-	317	7,569	3,378	-	11,371	
Other debt securities issued	1,618	2,392	10,961	15,330	2,653	-	32,954	
Other liabilities	73,384	381	8	-	169	-	73,942	
Loan commitments and other credit related commitments	280,908	-	-	-	-	-	280,908	
<b>TOTAL</b>	<b>1,995,755</b>	<b>326,711</b>	<b>217,179</b>	<b>145,867</b>	<b>35,757</b>	<b>6,329</b>	<b>2,727,598</b>	
<b>Derivative cash (inflows)/outflows</b>								
Derivative financial instruments settled:								
– on net basis	227	(27)	(74)	30	614	175	945	
– on gross basis								
Total outflows	139,315	30,062	9,237	8,001	87	-	186,702	
Total inflows	(137,470)	(29,692)	(9,338)	(7,400)	(106)	-	(184,006)	
<b>TOTAL</b>	<b>2,072</b>	<b>343</b>	<b>(175)</b>	<b>631</b>	<b>595</b>	<b>175</b>	<b>3,641</b>	

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2014							Total
	Remaining maturity						Over 10 years	
	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			
<b>Non-derivative cash outflows</b>								
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	
<b>TOTAL</b>	<b>1,995,019</b>	<b>339,272</b>	<b>289,991</b>	<b>106,750</b>	<b>39,482</b>	<b>6,340</b>	<b>2,776,854</b>	
<b>Derivative cash (inflows)/outflows</b>								
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)	
<b>TOTAL</b>	<b>1,410</b>	<b>1,052</b>	<b>912</b>	<b>71</b>	<b>160</b>	<b>49</b>	<b>3,654</b>	

# Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2013							Total
	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		
<b>Non-derivative cash outflows</b>								
Certificates of Indebtedness	327,372	-	-	-	-	-	327,372	
Government-issued currency notes and coins in circulation	10,575	-	-	-	-	-	10,575	
Balance of the banking system	164,093	-	-	-	-	-	164,093	
Placements by banks and other financial institutions	50,734	-	-	-	-	-	50,734	
Placements by Fiscal Reserves	773,862	-	-	-	-	-	773,862	
Placements by HKSAR government funds and statutory bodies	112,261	-	-	84,150	18,500	-	214,911	
Exchange Fund Bills and Notes issued	200,841	323,938	205,893	38,818	11,057	6,329	786,876	
Other liabilities	67,376	379	8	-	-	-	67,763	
Loan commitments and other credit related commitments	230,697	-	-	-	-	-	230,697	
<b>TOTAL</b>	<b>1,937,811</b>	<b>324,317</b>	<b>205,901</b>	<b>122,968</b>	<b>29,557</b>	<b>6,329</b>	<b>2,626,883</b>	
<b>Derivative cash (inflows)/outflows</b>								
Derivative financial instruments settled:								
- on net basis	228	(29)	(69)	17	603	175	925	
- on gross basis								
Total outflows	137,102	28,498	1,039	1,213	-	-	167,852	
Total inflows	(135,215)	(28,103)	(979)	(1,159)	-	-	(165,456)	
<b>TOTAL</b>	<b>2,115</b>	<b>366</b>	<b>(9)</b>	<b>71</b>	<b>603</b>	<b>175</b>	<b>3,321</b>	

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 37.6 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 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 25% to 30% of the value of properties financed under mortgage loans with loan-to-value ratio below 90% at origination. The Group reinsures the exposure with approved reinsurers. As at 31 December 2014, the total risk-in-force was HK\$13.1 billion (2013: HK\$14.5 billion), of which HK\$11 billion (2013: HK\$12 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 2014, the total risk-in-force was HK\$2.1 billion (2013: HK\$1.6 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.

# Exchange Fund – Notes to the Financial Statements (continued)

(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.

## **37.7 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 manage operational risk cost-effectively 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 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 RC Department formalised its operational risk management framework for the Reserves Management Department in 2013. 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.



# Exchange Fund – Notes to the Financial Statements (continued)

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

## 38 FAIR VALUE MEASUREMENT OF FINANCIAL INSTRUMENTS

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

#### 38.1.1 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 – 2014			Total
	Level 1	Level 2	Level 3	
<b>Assets</b>				
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
<b>Liabilities</b>				
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

## Exchange Fund – Notes to the Financial Statements (continued)

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

	Group – 2013			Total
	Level 1	Level 2	Level 3	
<b>Assets</b>				
Financial assets designated at fair value				
Treasury bills and commercial paper	694,890	382,794	–	1,077,684
Certificates of deposit	–	48,846	–	48,846
Other debt securities	908,289	46,256	10,190	964,735
Equity securities	450,699	50,899	23,925	525,523
	2,053,878	528,795	34,115	2,616,788
Available-for-sale securities				
Debt securities	1,228	1,714	–	2,942
Equity securities	918	–	–	918
Investment funds	–	–	61,819	61,819
	2,146	1,714	61,819	65,679
Derivative financial instruments	103	4,220	677	5,000
	2,056,127	534,729	96,611	2,687,467
<b>Liabilities</b>				
Exchange Fund Bills and Notes issued	–	782,605	–	782,605
Derivative financial instruments	228	4,119	–	4,347
Other debt securities issued, designated at fair value	–	325	–	325
	228	787,049	–	787,277

## Exchange Fund – Notes to the Financial Statements (continued)

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

	Fund – 2014			
	Level 1	Level 2	Level 3	Total
<b>Assets</b>				
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
<b>Liabilities</b>				
Exchange Fund Bills and Notes issued	–	752,446	–	752,446
Derivative financial instruments	305	3,280	–	3,585
	305	755,726	–	756,031

	Fund – 2013			
	Level 1	Level 2	Level 3	Total
<b>Assets</b>				
Financial assets designated at fair value				
Treasury bills and commercial paper	694,890	382,794	–	1,077,684
Certificates of deposit	–	48,846	–	48,846
Other debt securities	908,289	45,205	–	953,494
Equity securities	450,699	50,899	21,879	523,477
	2,053,878	527,744	21,879	2,603,501
Derivative financial instruments	103	3,389	–	3,492
	2,053,981	531,133	21,879	2,606,993
<b>Liabilities</b>				
Exchange Fund Bills and Notes issued	–	782,605	–	782,605
Derivative financial instruments	228	2,896	–	3,124
	228	785,501	–	785,729

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.

## Exchange Fund – Notes to the Financial Statements (continued)

(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 fair value		Available-for-sale		Derivatives	
	2014	2013	2014	2013	2014	2013
At 1 January	<b>34,115</b>	27,831	<b>61,819</b>	37,572	<b>677</b>	303
Net gains/(losses) recognised in the income and expenditure account	<b>432</b>	3,584	–	112	<b>(550)</b>	374
Net gains/(losses) recognised in other comprehensive income	–	–	<b>(1,123)</b>	9,922	–	–
Purchases	<b>13,577</b>	10,217	<b>27,467</b>	17,274	–	–
Sales	<b>(10,223)</b>	(7,585)	<b>(6,234)</b>	(3,061)	–	–
Transfers into Level 3	<b>664</b>	355	–	–	–	–
Transfers out of Level 3	<b>(871)</b>	(287)	–	–	–	–
At 31 December	<b>37,694</b>	34,115	<b>81,929</b>	61,819	<b>127</b>	677
Net gains/(losses) recognised in the income and expenditure account relating to those assets held at the balance sheet date	<b>117</b>	3,868	–	–	<b>(550)</b>	374

  

	Fund			
	Designated at fair value		Available-for-sale	
	2014	2013	2014	2013
At 1 January	<b>21,879</b>	18,414	–	–
Net gains recognised in the income and expenditure account	<b>1,264</b>	2,079	–	–
Purchases	<b>8,774</b>	6,179	–	–
Sales	<b>(5,727)</b>	(4,888)	–	–
Transfers into Level 3	<b>589</b>	332	–	–
Transfers out of Level 3	<b>(871)</b>	(237)	–	–
At 31 December	<b>25,908</b>	21,879	–	–
Net gains recognised in the income and expenditure account relating to those assets held at the balance sheet date	<b>953</b>	2,353	–	–

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.

# Exchange Fund – Notes to the Financial Statements (continued)

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

## 38.1.2 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, equity contracts 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 and the associated equity contracts 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	
	2014	2013
Earning multiples of similar companies	<b>7.6 – 14.5</b>	10.1 – 19.3
Liquidity discount	<b>20%</b>	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\$3,782 million (2013: HK\$3,479 million) and in other comprehensive income of HK\$8,193 million (2013: HK\$6,182 million).

## Exchange Fund – Notes to the Financial Statements (continued)

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

### 38.2 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:

		Group – 2014			
	Note	Carrying value	Fair value		Total
			Level 1	Level 2	
<b>Financial assets</b>					
Held-to-maturity securities	13	9,169	7,348	2,096	9,444
<b>Financial liabilities</b>					
Other debt securities issued	28	32,934	–	32,936	32,936

  

		Group – 2013			
	Note	Carrying value	Fair value		Total
			Level 1	Level 2	
<b>Financial assets</b>					
Held-to-maturity securities	13	8,624	5,725	3,039	8,764
<b>Financial liabilities</b>					
Other debt securities issued	28	31,010	–	31,011	31,011

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 2014 and 2013.

# Exchange Fund – Notes to the Financial Statements (continued)

(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 2014

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 2014 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**

HKFRS 9, Financial Instruments

1 January 2018

### **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 8 April 2015.