

# 補 充 財 務 資 料 Supplementary Financial Information

#### 1. 資本充足比率

1. Capital adequacy

	六月三十日	十二月三十一日
	As at	As at
	30 June	31 December
	2002	2001
Capital adequacy ratio	14.68%	14.38%
Adjusted capital adequacy ratio	15.02%	14.57%

二零零二年

二零零一年

資本充足比率

經調整之資本充足比率

二零零二年六月三十日及 二零零一年十二月三十一 日中銀香港之未經調整資 本充足比率是根據《銀行業 條例》附表三綜合計算之比 率。

The capital adequacy ratio represents the consolidated ratio of BOCHK as at 30 June 2002 and 31 December 2001 computed in accordance with the Third Schedule of the Banking Ordinance.

The adjusted capital adequacy ratio represents the consolidated ratio of the BOCHK as at 30 June 2002 and 31 December 2001 computed in accordance with the guideline "Maintenance of Adequate Capital Against Market Risks" issued by the Hong Kong Monetary Authority. The adjusted ratio takes into account both credit and market risk as at 30 June 2002 and 31 December 2001.



## Supplementary Financial Information (continued)

### 2. 扣減後的資本基礎成份

## 用於計算以上二零零二年 六月三十日及二零零一年 十二月三十一日之資本充 足比率及已匯報金管局之 扣減後的綜合資本基礎分 析如下:

### 2. Components of capital base after deductions

The consolidated capital base of BOCHK after deductions used in the calculation of the above capital adequacy ratios as at 30 June 2002 and 31 December 2001 and reported to the Hong Kong Monetary Authority is analysed as follows:

MINN		二零零二年	二零零一年
		六月三十日	十二月三十一日
		As at	As at
		30 June	31 December
		2002	2001
	_	港幣百萬元	———————— 港幣百萬元
		HK\$'m	HK\$'m
核心資本:	Core capital:		
繳足股款的普通股股本	Paid up ordinary share capital	43,043	43,043
儲備	Reserves	8,631	9,481
損益帳	Profit and loss account	1,610	(850)
少數股東權益	Minority interests	850	910
		54,134	52,584
附加資本:	Supplementary capital:		
一般呆帳準備金	General provisions for doubtful debts	4,990	4,943
附加資本總額	Gross value of supplementary capital	4,990	4,943
附加資本的可計算價值	Eligible value of supplementary capital	4,990	4,943
扣減前的資本基礎總額	Total capital base before deductions	59,124	57,527
扣減:	Deductions:		
持有附屬公司或	Shareholdings in subsidiaries or		
控股公司的股份	holding company	(360)	(375)
對有連繫公司的風險承擔	Exposures to connected companies	(230)	(347)
持有非附屬公司20%或	Equity investments of 20% or more	(200)	(011)
以上的股價	in non-subsidiary companies	(221)	(256)
在其他銀行或金融機構	Investments in the capital of other banks	(221)	(200)
的股本投資	or other financial institutions	(1)	(1)
	-	(2.12)	(070)
	-	(812)	(979)
扣減後的資本基礎總額	Total capital base after deductions	58,312	56,548



### Supplementary Financial Information (continued)

#### 3. 流動資金比率

### 3. Liquidity ratio

	二零零二年	二零零一年
	六月三十日止	十二月三十一日止
	六個月	三個月
	6 months	3 months
	ended	ended
	30 June	31 December
	2002	2001
Average liquidity ratio —		
ВОСНК	41.26%	39.88%

截至

截至

平均流動資金比率 一中銀香港

截至二零零二年六月三十 日止期間之平均流動資金 比率為中銀香港在有關期 間內每月之平均流動資金 比率之簡單平均數。

二零零一年之平均流動資金比率為中銀香港在二零零一年十月一日(重組合併日期)至二零零一年十二月三十一日止三個月內每月三十一日止三個月內每月之平均流動資金比率之簡單平均數。

流動資金比率是根據《銀行 業條例》附表四及以單獨基 準(即只包括香港辦事處) 計算。

於重組合併前,各前有實體之流動資金比率是以獨 自形式管理。 The average liquidity ratio for the period ended 30 June 2002 is calculated as the simple average of each calendar month's average liquidity ratio of Bank of China (Hong Kong) Limited ("BOCHK") for the period.

The average liquidity ratio for 2001 is calculated as the simple average of each calendar month's average liquidity ratio of BOCHK for the 3 months from 1 October 2001 (the date of the restructuring and merger) to 31 December 2001.

The liquidity ratio is computed on the solo basis (the Hong Kong offices only) and is in accordance with the Fourth Schedule of the Banking Ordinance.

Prior to the Restructuring and Merger, the liquidity ratio of each of the predecessor entities was managed on an individual basis.



### Supplementary Financial Information (continued)

#### 4. 外幣風險

下表列出因外匯自營交易及結構會 盤餘額而產生的主要外數 風險摘要。期權盤淨額是根據金管局「外幣持倉」申報表所載之最保守情況計算的。

### 4. Currency concentrations

The following is a summary of the major foreign currency exposures arising from trading, non-trading and structural positions. The net option position is calculated based on the "worst-case" approach set out in the prudential return "Foreign Currency Position" issued by the HKMA.

二零零二年六月三十日 As at 30 June 2002

			港幣百萬元	<b>元等值</b>			
		Equiva	alent in mil	lions of HK\$	3		
			新西蘭元				
	美元	英鎊	New	澳元	日元		
	US	Pound	Zealand	Australian	Japanese	其他貨幣	合計
	Dollars	Sterling	Dollars	Dollars	Yen	Others	Total
Spot assets	181,434	11,806	8,418	25,671	13,465	22,076	262,870
Spot liabilities	(134,844)	(17,922)	(15,035)	(26,722)	(2,953)	(19,567)	(217,043)
Forward purchases	109,340	11,365	8,528	8,142	17,557	18,990	173,922
Forward sales	(145,155)	(5,229)	(1,924)	(7,111)	(28,095)	(21,375)	(208,889)
Net options position	446	7	143	146		39	781
Net long/(short)							
position	11,221	27	130	126	(26)	163	11,641
	Spot liabilities Forward purchases Forward sales Net options position Net long/(short)	US Dollars  Spot assets 181,434 Spot liabilities (134,844) Forward purchases 109,340 Forward sales (145,155) Net options position 446  Net long/(short)	美元     英镑       US     Pound       Dollars     Sterling       Spot assets     181,434     11,806       Spot liabilities     (134,844)     (17,922)       Forward purchases     109,340     11,365       Forward sales     (145,155)     (5,229)       Net options position     446     7       Net long/(short)	Equivalent in mil 新西蘭元         美元       英鎊       New         US       Pound       Zealand         Dollars       Sterling       Dollars         Spot assets       181,434       11,806       8,418         Spot liabilities       (134,844)       (17,922)       (15,035)         Forward purchases       109,340       11,365       8,528         Forward sales       (145,155)       (5,229)       (1,924)         Net options position       446       7       143         Net long/(short)	新西蘭元         美元       英鎊       New       澳元         US       Pound       Zealand       Australian         Dollars       Sterling       Dollars       Dollars         Spot assets       181,434       11,806       8,418       25,671         Spot liabilities       (134,844)       (17,922)       (15,035)       (26,722)         Forward purchases       109,340       11,365       8,528       8,142         Forward sales       (145,155)       (5,229)       (1,924)       (7,111)         Net options position       446       7       143       146         Net long/(short)	Equivalent in millions of HK\$ 新西蘭元         美元 英鎊 New 澳元 日元         US Pound Zealand Australian Japanese         Dollars Sterling Dollars Dollars Yen         Spot assets       181,434 11,806 8,418 25,671 13,465         Spot liabilities       (134,844) (17,922) (15,035) (26,722) (2,953)         Forward purchases       109,340 11,365 8,528 8,142 17,557         Forward sales       (145,155) (5,229) (1,924) (7,111) (28,095)         Net options position       446 7 143 146 —         Net long/(short)	Equivalent in millions of HK\$         新西蘭元         美元       英鎊       New       澳元       日元         US       Pound       Zealand Australian Japanese 其他貨幣         Dollars       Sterling       Dollars       Dollars       Yen       Others         Spot assets       181,434       11,806       8,418       25,671       13,465       22,076         Spot liabilities       (134,844)       (17,922)       (15,035)       (26,722)       (2,953)       (19,567)         Forward purchases       109,340       11,365       8,528       8,142       17,557       18,990         Forward sales       (145,155)       (5,229)       (1,924)       (7,111)       (28,095)       (21,375)         Net options position       446       7       143       146       —       39         Net long/(short)



## Supplementary Financial Information (continued)

### 4. 外幣風險 (續)

現貨資產 現貨負債

遠期買入 遠期賣出 期權盤淨額

長/(短)盤淨額

### 4. Currency concentrations (continued)

\_零零-年十二月三十-日 As at 31 December 2001

港幣百萬元等值

Equivalent in millions of HK\$

### 新西蘭元

			机四闸儿				
	美元	英鎊	New	澳元	日元		
	US	Pound	Zealand	Australian	Japanese	其他貨幣	合計
	Dollars	Sterling	Dollars	Dollars	Yen	Others	Total
Spot assets	197,497	15,996	14,167	28,316	3,428	22,113	281,517
Spot liabilities	(134,348)	(17,971)	(14,550)	(27,380)	(2,081)	(18,859)	(215,189)
Forward purchases	70,500	5,230	1,211	1,623	10,834	12,726	102,124
Forward sales	(124,606)	(3,233)	(794)	(2,538)	(12,190)	(15,807)	(159,168)
Net options position	4,277	14	43	135	(7)	22	4,484
Net long/(short)							
position	13,320	36	77	156	(16)	195	13,768

於二零零二年六月三十日 及二零零一年十二月三十 一日,本集團並沒有重大 結構倉盤淨額。 There were no significant net structural positions for the Group as at 30 June 2002 and 31 December 2001.



# Supplementary Financial Information (continued)

### 5. 分類資料

### 5. Segmental information

(a) 按行業分類客戶貸款 總額 (a) Gross advances to customers by industry sector

		二零零二年	二零零一年
		六月三十日	十二月三十一日
		As at	As at
		30 June	31 December
		2002	2001
	_	港幣百萬元	港幣百萬元
		HK\$'m	HK\$'m
在香港使用的貸款	Loans for use in Hong Kong		
工商金融業	Industrial, commercial and financial		
一物業發展	- Property development	26,818	28,300
一物業投資	- Property investment	44,814	47,758
一金融企業	- Financial concerns	6,691	7,314
一股票經紀	- Stockbrokers	81	108
一批發及零售業	- Wholesale and retail trade	22,419	24,091
一製造業	- Manufacturing	11,140	11,477
<b>一運輸及運輸設備</b>	- Transport and transport equipment	9,780	8,778
一其他	- Others	51,487	51,054
個人	Individuals		
一購買「居者有其屋	- Loans for the purchase of flats in		
計劃」、「私人參	Home Ownership Scheme,		
建居屋計劃」和	Private Sector Participation Scheme		
「租者置其屋計	and Tenants Purchase Scheme	20,032	20,273
劃」樓宇的貸款			
-購買其他住宅	- Loans for purchase of other		
物業的貸款	residential properties	85,689	82,513
<b>-信用咭貸款</b>	- Credit card advances	3,462	3,019
一其他	- Others	9,280	9,735
在香港使用的	Total loans for use		
貸款總額	in Hong Kong	291,693	294,420
貿易融資	Trade finance	9,763	10,566
在香港以外使用	Loans for use outside		
的貸款	Hong Kong	16,178	18,052
客戶貸款總額	Total advances to customers	317,634	323,038



### Supplementary Financial Information (continued)

- 5. 分類資料(續)
- 5. Segmental information (continued)
- (b) 按地理區域分類之客 戶貸款、逾期貸款及 不履約貸款

下列關於客戶貸款總額、逾期超過三個內 之貸款及不履約貸間 之地理區域分析是根據交易對手的所關及有關負款 地,並已顧及有關貸款之轉移風險因素。 (b) Geographical analysis of gross advances to customers, overdue advances and non-performing loans

The following geographical analysis of gross advances to customers, overdue advances for more than three months and non-performing loans is based on the location of the counterparties, after taking into account of the transfer of risk in respect of such advances where appropriate.

- (i) 客戶貸款總額
- (i) Gross advances to customers

		二零零二年	二零零一年
		六月三十日	十二月三十一日
		As at	As at
		30 June	31 December
		2002	2001
		港幣百萬元	港幣百萬元
		HK\$'m	HK\$'m
香港	Hong Kong	305,892	310,953
中國內地	Mainland China	6,348	7,753
其他	Others	5,394	4,332
		317,634	323,038



## Supplementary Financial Information (continued)

- 5. 分類資料(續)
- 5. Segmental information (continued)
- (b) 按地理區域分類之客 戶貸款、逾期貸款及 不履約貸款 *(續)*
- (b) Geographical analysis of gross advances to customers, overdue advances and non-performing loans *(continued)*
- (ii) 逾期超過三個月 之貸款
- (ii) Overdue advances for over three months

二零零一年	二零零二年		
十二月三十一日	六月三十日		
As at	As at		
31 December	30 June		
2001	2002		
港幣百萬元	港幣百萬元		
HK\$'m	HK\$'m		
21,713	19,296	Hong Kong	香港
3,465	2,294	Mainland China	中國內地
120	137	Others	其他
25,298	21,727		
		(iii) Non-performing loans	(iii) 不履約貸款
二零零一年	二零零二年		
十二月三十一日	六月三十日		
As at	As at		
31 December	30 June		
2001	2002		
港幣百萬元	港幣百萬元		
HK\$'m	HK\$'m		
30,043	25,821	Hong Kong	香港
5,130	2,483	Mainland China	中國內地
339	194	Others	其他
35,512	28,498		



### Supplementary Financial Information (continued)

#### 6. 跨境債權

# 

#### 6. Cross-border claims

The information on cross-border claims discloses exposures to foreign counterparties on which the ultimate risk lies, and is derived according to the location of the counterparties after taking into account any transfer of risk. In general, such transfer of risk takes place if the claims are guaranteed by a party in a country which is different from that of the counterparty or if the claims are on an overseas branch of a bank whose head office is located in another country. Only regions constituting 10% or more of the aggregate cross-border claims are analysed by geographical areas and disclosed as follows:

		20,13,200			
		金融機構			
		Banks and	公共機構		
		other	Public		
		financial	sector	其他	合計
		institutions	entities	Others	Total
		港幣百萬元	—————— 港幣百萬元	—————— 港幣百萬元	港幣百萬元
於二零零二年六月三十日	As at 30 June 2002	HK\$'m	HK\$'m	HK\$'m	HK\$'m
亞洲,不包括	Asia, other than				
香港	Hong Kong	65,728	7,555	9,749	83,032
北美洲	North America	23,323	27,443	16,771	67,537
西歐	Western Europe	152,709	3,587	20,049	176,345
加勒比海國家	Caribbean			2,545	2,545
		241,760	38,585	49,114	329,459

銀行及



# Supplementary Financial Information (continued)

### 6. 跨境債權(續)

### 6. Cross-border claims (continued)

		銀行及			
		金融機構			
		Banks and	公共機構		
		other	Public		
		financial	sector	其他	合計
		institutions	entities	Others	Total
於二零零一年	As at	—————— 港幣百萬元	—————— 港幣百萬元	—————— 港幣百萬元	—————— 港幣百萬元
十二月三十一日	31 December 2001	HK\$'m	HK\$'m	HK\$'m	HK\$'m
亞洲,不包括	Asia, other than				
香港	Hong Kong	133,805	15,771	10,337	159,913
北美洲	North America	34,303	18,526	8,725	61,554
西歐	Western Europe	143,297	3,172	3,934	150,403
加勒比海國家	Caribbean			3,105	3,105
		311,405	37,469	26,101	374,975



## Supplementary Financial Information (continued)

#### 7. 逾期及經重組資產

- 7. Overdue and rescheduled assets
- (a) 客戶貸款
- (a) Advances to customers
- (i) 已逾期之總客戶 貸款
- (i) Gross amount of overdue advances

二零零二年

佔客戶貸款

佔客戶貸款

二零零一年

總額百分比	十二月三十一日	總額百分比	六月三十日		
t % of gross	As at	% of gross	As at		
r advances to	31 December	advances to	30 June		
1 customers	2001	customers	2002		
:	港幣百萬元		港幣百萬元		
١	HK\$'m		HK\$'m		
				Gross advances to	客戶貸款總額
				customers which	已逾期:
				have been	
				overdue for:	
				- six months or	一超過三個月
				less but over	但不超過
2 1.30%	4,212	0.77%	2,455	three months	六個月
				- one year or less	一超過六個月
				but over	但不超過一年
7 1.68%	5,427	1.82%	5,770	six months	
4.85%	15,659	4.25%	13,502	- over one year	-超過一年
7.83%	25,298	6.84%	21,727		
7 1	4,212 5,427 15,659	1.82% 4.25%	2,455 5,770 13,502	customers which have been overdue for: - six months or less but over three months - one year or less but over six months	已逾期:  一超過三個月 但不超過 六個月 一超過六個月 一超過六個月 但不超過一年

於月零十十,三十十,三人,一次個人一次個人一次個人一次個人一次個人一次個人一次個人會大學一個人一次。

At 30 June 2002 and 31 December 2001, there were no advances to banks and other financial institutions which were overdue for over three months.



# Supplementary Financial Information (continued)

- 7. 逾期及經重組資產(續)
- 7. Overdue and rescheduled assets (continued)
- (a) 客戶貸款 (續)
- (a) Advances to customers (continued)
- (ii) 逾期貸款與不履 約貸款:
- (ii) Overdue advances are reconciled to non-performing loans as follows:

		二零零二年	二零零一年
		六月三十日	十二月三十一日
		As at	As at
		30 June	31 December
		2002	2001
	_	港幣百萬元	———— 港幣百萬元
		HK\$'m	HK\$'m
逾期超過三個月	Advances which are overdue		
之貸款	for more than three months	21,727	25,298
加:逾期三個月或	Add: non-accrual advances which		
以下已停止	are overdue for three months		
累計利息	or less		
之貸款			
-包括在經重	- included in rescheduled		
組之貸款內	advances	1,480	1,315
一其他	- others	6,152	10,685
減:逾期超過三個月	Less: advances which are overdue		
並仍累計利息	for more than three months and on		
之貸款	which interest is still being accrued	(861)	(1,786)
不履約貸款	Non-performing loans	28,498	35,512



## Supplementary Financial Information (continued)

#### 7. 逾期及經重組資產(續)

- 7. Overdue and rescheduled assets (continued)
- (a) 客戶貸款 (續)
  - (iii) 經重組貸款(已 扣除上述細項(i) 逾期超過三個月 之貸款)如下:
- (a) Advances to customers (continued)
  - (iii) Rescheduled advances (net of amounts included in overdue advances for more than three months and reported in item (i) above) are as follows:

	二零零二年	佔客戶貸款	二零零一年	佔客戶貸款
	六月三十日	總額百分比	十二月三十一日	總額百分比
	As at	% of gross	As at	% of gross
	30 June	advances to	31 December	advances to
	2002	customers	2001	customers
	————— 港幣百萬元		————— 港幣百萬元	
	HK\$'m		HK\$'m	
Rescheduled				
advances	1,617	0.51%	1,814	0.56%

經重組貸款

 At 30 June 2002 and 31 December 2001, there were no rescheduled advances to banks and other financial institutions.

(b) 其他逾期資產

款。

(b) Other overdue assets

		二零零二年	二零零一年
		六月三十日	十二月三十一日
		As at	As at
		30 June	31 December
		2002	2001
		————— 港幣百萬元	港幣百萬元
		HK\$'m	HK\$'m
已逾期:	Overdue for:		
一超過三個月	- six months or less		
但不超過六個月	but over three months	10	9
一超過六個月	- one year or less		
但不超過一年	but over six months	21	5
一超過一年	- over one year	19	4
		50	18

# 中銀香港(控股)有限公司 BOC HONG KONG (HOLDINGS) LIMITED

### 補充財務資料(續)

### Supplementary Financial Information (continued)

#### 8. 風險管理

中銀香港風險管理的目標是將風險控制在可接取的前題下,獲取東的前題的後期的經風險調節後的東國險人。為保證風險管理人。為保證風險管理人。為保證則與大化。為保證則與大化。為保證則與大化。為保證則與大化。為保證則與大化。其所

- 建立了更加獨立、集中、全面的風險管理體系。該體系注重建立良好公司治理機制,強調股東利益與大化,平衡收益與可接受風險:
- 實行嚴格的風險管理 問責制;
- 採用國際銀行風險管理的原則和最佳做法:
- 完善風險管理信息系統、風險衡量技術及風險監控手段;
- 注重改善風險管理文 化。

#### 8. Risk management

BOCHK's goal in risk management is to maximise its long-term risk-adjusted return on capital as well as shareholders' wealth while maintaining its risk exposure within acceptable parameters. Our risk management philosophy seeks to achieve our goal by:

- establishing a more independent, centralised and comprehensive risk management system, which stresses on standardising corporate governance structure, maximising shareholders' value and balancing the risk and return level;
- emphasising the importance of risk control responsibility and accountability;
- adopting international risk management principles and best practices;
- improving our management information systems, risk measurement techniques and risk monitoring controls; and
- modernising our risk management culture on a continuous basis.

BOCHK has developed and implemented comprehensive risk management policies and procedures to identify, measure, monitor and control credit risk, market risk, liquidity risk and operational risk across the organisation. The Risk Management Committee under the Board of Directors has the responsibility of approving risk management policies and procedures.



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

中監向負授作三月會中官全風管番理事,風險風重出香在的,發險風風重問題,行險四軍管裁場工理管風報查司利並員際部理組風作狀管。首助和資。管,委織險,況理此席下流產理直員全和並,委外財監動負總接會行操就每員,務控性債

中一司業司策實管險般和際理香港、友院國風此一控理管風集情制主友亦它理爾與外套制控管可實的, 管南中程及範根現例, 管南中程及範根現極, 香一序內各的國人 大人 的公政已險風一商實管

#### 8. Risk management (continued)

Our Chief Risk Officer oversees and monitors the operations of the risk management department ("RMD") and reports directly to the Risk Management Committee. The Chief Risk Officer is also responsible for assisting the Chief Executive on bank-wide credit risk, market risk and operational risk management and submitting to the Risk Management Committee the independent risk management report each month. In addition, our Chief Financial Officer, with assistance of the Treasurer, monitors the bank-wide interest rate risk and liquidity risk and submits reports to the Asset and Liability Management Committee ("ALCO") on a regular basis.

BOCHK's principal banking subsidiaries, Nanyang and Chiyu Banking Corporation Limited ("Chiyu"), also face the same types of inherent business risks and they generally follow our risk management strategies and policies. In addition, Nanyang and Chiyu have generally implemented risk management controls and procedures that are in compliance with the risk management controls and procedures of BOCHK. Within this general risk management framework, Nanyang and Chiyu may conduct their existing risk management practices according to their own specific circumstances.



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

#### 信貸風險管理

信貸風險指客戶或交易對 手不能或不願履行其已與 中銀香港達成的承諾的風 險。信貸風險主要來自貸 款、貿易融資及財資業 務。

中銀香港相信體報用的管理的關鍵不可用的管理的關鍵,不可用的關鍵,不可用的關鍵,不可用的關鍵,不可用的關鍵,不可用的關鍵,不可用的關鍵,不可用的關鍵,不可能不可用的關鍵,不可能不可用的關鍵,不可能不可用。

#### 8. Risk management (continued)

#### Credit risk management

Credit risk is the risk that a customer or counterparty will be unable or unwilling to meet a commitment that it has entered into with BOCHK. Credit risk arises principally from BOCHK's lending, trade finance and treasury operations.

BOCHK considers that independence and proper checks-and-balances are of critical importance in carrying out effective risk management. To this purpose, BOCHK's managerial/organisational structure placed our RMD and Audit Department in a hierarchical position in which they report directly to the Risk Management Committee and Audit Committee respectively. These committees and departments form an independent line of control.

To avoid any potential conflicts of interest, the credit review functions are independent of the business development units. BOCHK's credit assessment emphasises a thorough understanding of the purpose and structure of the loan, the borrower's financial status, cash flow position and repayment ability as well as business management.

BOCHK exercises credit risk monitoring in a prudent manner with the involvement of multiple levels within our organisation. This process enables BOCHK to promptly detect any early signs of loan deterioration and identifies potential loan classification downgrades so that the appropriate actions can be taken to manage the loans. To improve the credit quality and control the non-performing loan ratio, BOCHK establishes a clear target to evaluate the performance of the credit initiation units and the Special Asset Management Department.

### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

#### 市場風險管理

市委行照利價額同計及過戶大照利價額同計及過數核整與本分類的匯細考後術度的匯細考後術度與限限,及體品種倉定管額額例股的的風限具產多持制的風限,及體品種倉定體品種倉定時期,及體品種倉定時期,及體品種倉定時期,及體品種倉定時期,及體品種倉定時期,

風險管理部設市場風險管理處,負責日常市場風險管理。該處透過每日監察程序,計算實際風險水平與經核准風險限額的差距,並提出具體措施,以確保整體和個別的市場風險均限制在可接受水平之內。

#### 8. Risk management (continued)

#### Market risk management

Market risk is the risk that the movements in interest rates or market prices will result in losses in on- and off-balance sheet positions. BOCHK's market risk arises from customer-related business and from position taking. Market risk trading positions are subject to daily mark-to market valuation.

Market risk is managed within risk limits approved by the Risk Management Committee. The overall risk limits are set into sub-limits by reference to different risk factors, which are interest rate, foreign exchange, commodity and equity prices. Considering the different nature of the products involved, limits are set by using a combination of risk measurement techniques, including position limits and sensitivity limits.

The Market Risk Division in the RMD is responsible for the daily market risk management. Through the daily risk monitoring process, the Market Risk Division measures risk exposures against approved limits and initiates specific action to ensure that the overall and individual market risks are managed within an acceptable level.

Value at Risk ("VaR") is a statistical technique which estimates the potential losses that could occur on risk positions taken due to movements in foreign exchange, interest rates, commodity and equity prices over a specified time horizon and to a given level of confidence. The model used by BOCHK to calculate portfolio and individual VaR on a variance/covariance basis, uses historical movements in market rates and prices, a 99% confidence level and a 1-day holding period and generally takes account of correlations between different markets and rates.



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

二零零二年六月三十日, 中銀香港所有自營市場風 險持倉的涉險值為 6,500,000港元(二零零一 年十二月三十一日之數值 為1,600,000港元),所有 自營利率風險持倉的涉險 值為7,800,000港元(二零 零一年十二月三十一日為 1,500,000港元),而所有 自營匯率風險持倉的涉險 值為900,000港元(二零零 一年十二月三十一日為 1,200,000港元)。二零零 二年上半年內平均涉險值 為2,500,000港元。

### 外匯風險管理

中存易幣須港匯透外外風險匯額匯銀款等市承透率過匯匯險管風,交香、服場擔過風設交風管理險並為的展。的率業。持虧。委負其制戶賣銀易險場中限限有會每止銀行人。活中額額限審日虧香與場中限限有會每止銀行人。活中額額限審日虧香資學,與大學,與大學,與大學,與大學,與大學,與大學,與大學,

#### 8. Risk management (continued)

The VaR for all trading market risk exposure of BOCHK at 30 June 2002 was HK\$6.5 million (HK\$1.6 million at 31 December 2001), the VaR for all trading interest rate risk exposure was HK\$7.8 million (HK\$1.5 million at 31 December 2001) and the VaR for all trading foreign exchange risk exposure was HK\$0.9 million (HK\$1.2 million at 31 December 2001). The average VaR for the period ended 30 June 2002 was HK\$2.5 million.

Prior to the restructuring and merger, market risk of each of the predecessor entities was managed on an individual basis. As a result, the average VaR from market risk-related trading activities of BOCHK for the period ended 30 June 2001 is not comparable and hence not presented.

### Foreign exchange risk management

BOCHK provides foreign exchange deposit, margin trading and forward transaction services to its customers. BOCHK's trading activities in the foreign currency markets expose it to exchange rate risk. BOCHK manages exchange rate risks through its interbank market activities. In particular, BOCHK mitigates exchange rate risks by establishing position limits and limits on the loss of the whole foreign exchange trading floor. All these limits are approved by the Risk Management Committee. The RMD is responsible for monitoring foreign exchange exposure and related stoploss limits on a day-to-day basis as well as controlling BOCHK's credit risk exposure arising from foreign exchange transactions.

### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

#### 利率風險管理

中銀香港司庫負責制訂利 率風險管理政策及發展風 險管理系統以協助中銀香 港的資產負債管理委員會 確定、量度、監察及控制 利率風險。司庫利用差距 分析量度在每段到期日子 或必須重訂價格的日子內 之計息資產與計息負債差 額,以反映在指定的日期 之資產負債表所含利率敏 感缺口特性。司庫以分貨 幣形式將中銀香港所有資 產、負債及表外項目,根 據合約到期日或預計重訂 價格日期,分別排入對應 的時段類別,計算在每個 時段內到期或重訂價格的 資產負債金額之差異,以 顯示中銀香港在新訂或重 訂價格的資產和負債息差 方面的潛在變動風險。利 率敏感缺口所帶來的潛在 風險可利用模擬利率的變 化以測試缺口對利差的影 響幅度是否可以控制,有 關的結果均反映在每天的 報告內。

#### 8. Risk management (continued)

#### Interest rate risk management

BOCHK's balance sheet consists predominantly of Hong Kong dollar denominated interest rate sensitive assets and liabilities. BOCHK's primary sources of interest rate risk are mismatches in the maturities or re-pricing periods of these assets and liabilities and movements in interest rates. In addition, different pricing bases for different transactions may also lead to interest rate risk for BOCHK's assets and liabilities within the same repricing period.

BOCHK's Treasurer is responsible for formulating the policy and developing risk management system to assist BOCHK's ALCO in identifying, measuring, monitoring and controlling interest rate risk. The Treasurer uses gap analysis to measure BOCHK's exposure to interest rate risk. The gap is the difference between the amount of interest-earning assets and interest-bearing liabilities that mature or must be re-priced within a specific time band. It provides BOCHK with a static view of the maturity and re-pricing characteristics of its balance sheet positions. The Treasurer measures the gaps by classifying all assets, liabilities and off-balance sheet items for each currency into appropriate time bands according to contracted maturities or anticipated re-pricing time bands to indicate the extent to which BOCHK is exposed to the risk of potential changes in the margins on new or re-priced assets and liabilities. The potential risks associated with these gaps are measured through simulated interest rate scenarios to testify that the interest income variations are within the manageable range and the results are reflected on daily reports.



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

#### 流動風險管理

中銀香港將所得資金大部份用於放貸、投資債券。 作同業拆放。一般而言時接受存款的平均到限為明別 資款或投資的期限為知期 並較同業拆放的平均到期 日為長。

#### 8. Risk management (continued)

#### Liquidity risk management

Liquidity risk arises in the funding of lending, trading and investment activities and in the management of trading positions. Liquidity risk includes both the risk of unexpected increase in the cost of funding to refinance the BOCHK's asset portfolio at appropriate maturities and the risk of being unable to liquidate a position in a timely manner and/or at a reasonable price. The goal of liquidity management is for BOCHK to be able, even under adverse market conditions, to meet all its maturing repayment obligations on time and fund all of its investment opportunities.

BOCHK maintains flexibility in meeting its funding requirements by maintaining diverse sources of liquidity. BOCHK funds its operations principally by accepting deposits from retail and corporate depositors. BOCHK may also borrow in the short-term interbank markets, although it is typically a net lender of funds. In addition, BOCHK may from time to time raise funds through the sale of investments.

BOCHK uses the majority of funds raised to extend loans, make investments in debt securities or conduct interbank placements. Generally, deposits are of shorter average maturity than that of loans or investments and are of longer average maturity compared with interbank placements.

BOCHK maintains a buffer portfolio of liquid, high quality securities that is managed by BOCHK's Treasurer. These securities may generally be sold at any time at market prices to meet BOCHK's emergent liquidity needs. BOCHK may also manage its liquidity by borrowing in the interbank markets on a short-term basis. The interbank markets generally provide an adequate amount of liquidity, at borrowing rates that are subject to market conditions.

# 中銀香港(控股)有限公司 BOC HONG KONG (HOLDINGS) LIMITED

### 補充財務資料(續)

### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

中銀香港資產負債管理策 略的主要目標是要保持足 夠的流動性和資本金水 平,在有效的風險管理機 制內及合理的融資成本要 求,爭取最大回報。中銀 香港的資產負債管理委員 會負責制定政策方針並誘 過司庫的職責確保中銀香 港有足夠的流動資金及能 取得最低融資成本,同時 緊密策劃及監察中銀香港 的資產負債表內外持倉量 所衍生的風險。中銀香港 司庫會按情況調整銀行的 流動資金及外匯管理盤的 持倉水平,以配合資產負 債管理委員會政策,並就 投資、融資和外匯管理盤 的現有水平和預計變化, 向資產負債管理委員會匯 報和分析。針對流動管 理,中銀香港已實施各項 措施以:

- 改善其管理資訊系統,分別在每日、每周及每月提供有關流動資產變動及客戶存款變動的最新資料;
- 監察流動比率,以符合香港金融管理局的規定;
- 定期編製到期差距分析,協助管理層及時檢討和監察中銀香港的流動資金狀況;

#### 8. Risk management (continued)

The primary goal of the BOCHK's asset and liability management strategy is to achieve an optimal return while ensuring adequate levels of liquidity and capital within an effective risk control framework and at reasonable cost of funding. BOCHK's ALCO is responsible for establishing these policy directives and works closely with the Treasurer to ensure that BOCHK maintains adequate levels of liquidity and secures the lowest possible cost of funding, while closely planning and monitoring BOCHK's on- and off-balance sheet assets and liabilities according to the risk incurred. The Treasurer adjusts, as necessary, BOCHK's liquidity and foreign exchange positions in line with the policies of ALCO, and also provides reporting and analytical services to ALCO with respect to current and planned positions taken for investment, funding and foreign exchange management purposes. In particular, BOCHK has implemented various measures to:

- improve its management information system to provide timely information on the movement of its liquid assets and that of its customer deposits on a daily, weekly and monthly basis;
- monitor liquidity ratios in compliance with the HKMA's requirements;
- prepare regular maturity gap analyses to enable management to review and monitor BOCHK's liquidity position on a timely basis;



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

- 進行處境分析,以評估不同風險因素對流動資金狀況的影響;
- 設定須受監察的一系列流動性風險因素和流動性風險預警系統,為不尋常情況作出預警報告;及
- 設立三級應變機制, 更有效處理緊急事件。

### 8. Risk management (continued)

- conduct scenario analysis to estimate the impact of various risk factors on the liquidity position;
- establish a range of liquidity risk factors to be monitored and a liquidity risk warning index system to detect early signs of any irregularities; and
- create a three-tier response system to effectively deal with any emergencies.

### 資本管理

本集團採用資本充足比率 (「CAR」)作為主要量度標 準以監控本身資本的充足 性,並須符合香港金管局 的法定要求。在報表披露 的經營期間,集團須維持 資本水平以符合各項法定 要求。按合併基礎計算, 未經調整的資本充足比率 為14.68%;而經調整了市 場風險的資本充足比率為 15.02%。兩項比率均較法 定最低要求為高。與上年 底比較,未經調整及經調 整後的比率分別有0.30% 及0.45%的增加。

### Capital management

The Group monitors the adequacy of its capital using the Capital Adequacy Ratio ("CAR") as one of the major measurements, which is subject to the Hong Kong Monetary Authority regulatory requirements. The Group maintained its capital to comply with all the statutory standards for all the periods presented in the report. On consolidated basis, BOCHK's unadjusted CAR and adjusted CAR incorporating market risk were improved from 14.38% and 14.57% as at the end of last year to 14.68% and 15.02% respectively. Both were well above the statutory minimum standards.



### Supplementary Financial Information (continued)

#### 8. 風險管理(續)

#### 操作風險管理

操作風險涉及因操作流程不完善、人為過失不完善、人為過失不動等因素造成的經濟損失。以類風險存在於各中中。此類風險不在於各中中,是中國險之一。

中銀香港主要透過內際主要透過內險等主要透過內險等。

中銀香港將進一步改善識別、衡量、監督及控制操 作風險的管理方法,以達 至國際水平。

### 8. Risk management (continued)

#### Operational risk management

Operational risk is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. It is one of the major risks to which BOCHK is exposed and is inherent to various businesses and back office processing.

BOCHK manages operational risk mainly through its internal controls to ensure all operations are conducted effectively. At the same time, BOCHK is enhancing its business continuity plan to ensure that the operation of critical functions can recover within a short time frame and minimise the impact to customers in the event of a disaster.

To be in line with international best practices, BOCHK will further enhance the methodologies in identifying, measuring, monitoring and controlling operational risk.