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Through the Looking Glass : Monetary Statistics

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Inside Monetary Statistics

- Consolidated Balance Sheet
 The true picture.
- 2. HKD Loan/Deposit Ratio, Liquidity & Reserves #How do banks deploy deposits ?
- **3. Changes in Total M3**

#Where does the money coming from ?



Trial Balance Sheet : Banks + DTCs (December 2002)

Liabilities		Assets	(HKD Bn)
Due to banks in HK	394	Cash	14
Due to banks abroad	1,394	Due from banks in HK	395
Deposits	3,318	Due from banks abroad	1,919
NCD outstanding	211	Loans	2,077
Debt instruments outstanding	39	NCD issued in HK	81
Capital, reserves & others	637	NCD issued outside HK	53
		Debt instruments	1,109
		Other assets	345
Total Liabilities	5,993	Total Assets	5,993
Source: HKMA			



The Consolidation Process

- Netting the interbank assets / liabilities igodol
- **Re-grouping of certain items** •

Liabilities

(HKD Bn) (14)Cash Due to banks in HK 394 (395) Due from banks in HK Due to banks abroad 1,394 3,318 Due from banks abroad 1,919 Deposits 211) NCD outstanding Loans 2,077 39) 81 NCD issued in HK **Debt instruments outstanding** 53 637 NCD issued outside HK Capital, reserves & others 1,109 **Debt instruments** 345 Other assets **Total Assets** 5.993 **Total Liabilities** 5.993



Exceed. Excel.

Assets

Consolidated Balance Sheet (December 2002)

Liabilities		Assets	(HKD Bn)
Deposits & NCD	3,449	Loans	2,077
Due to banks abroad	1,394	Due from banks abroad	1,919
Capital & others	676	Other assets	1,523
Total Liabilities	5,519	Total Assets	5,519
Source: HKMA			
HANG SENG	BANK	Exceed.	Excel.

The Last 5 Years

	Liabilities		(HKD Bn)
	Dec 97	Dec 00	Dec02
Deposits & NCD	2,791	3,601	3,449
Due to banks abroad	3,980	1,752	1,394
Capital & others	714	661	676
Total	7,485	6,014	5,519

	Assets		(HKD Bn)
	Dec 97	Dec 00	Dec02
Loans for use in HK	2,230	1,965	1,834
Loans for use outside HK	1,891	496	243
Due from banks abroad	2,310	2,450	1,919
Other assets	1,054	1,102	1,523
Total	7,485	6,014	5,519
Source: HKMA			



Observations :

1. The Shrinking Balance Sheet– Business is getting tough

2. Falling Offshore Items

 Diminishing presence of Japanese banks

3. Falling Loans and Rising Deposits

Excessive liquidity



HK Dollar Loan / Deposit Ratio Fell below 100% in December 1998





Why Did L/D Ratio > 100% ?

Where Did the Money Come From ?



Adjusted HK Dollar Loan / Deposit Ratio

Adjusted Loans = Customer Loans + Net borrowing to local banks

- Holding of acceptances and bills of exchange

Adjusted Deposits = Customer Deposits + Net HKD NCD issued Net HKD borrowing from abroad



Adjusted HK Dollar Loan / Deposit Ratio

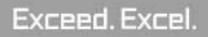




Observations :

- 1. When there is a loan, there is funding.
- 2. Foreign banks in Hong Kong may used HQ balance sheet to support local lending.





Liquidity Ratio Required by Banking Ordinance

Liquidity Ratio (%) = Liquefiable Assets / Qualifying Liabilities

Liquefiable Assets:

- Net interbank lending < 1 mth
- Export bills < 1 mth
- Loan repayments
- Marketable clebt securities

Qualifying liabilities:

- Net interbanking
 - borrowing < 1 mth
- Total of other 1 mth liabilities



Liquidity should exclude local interbank claims, i.e. Systemic Risk





Components of Estimated Reserves (June 2002)

Bank Balance Sheet Items :	(HKD Bn)
HKD cash in vault	12
Due from banks abroad	2,039
Due to banks abroad	-1,438
Adjustment item	
 FCY loans for use abroad 	242
- FCY loans, others	7
Acceptances & bills of exchange	48
Commercial papers	301
Foreign currency investments	366
Estimated Reserve Assets	1,578



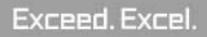
Estimated Reserves Ratio





Estimated Reserve Ratio > 40% reflects prolonged weak credit





Exchange Fund Balance Sheet (June 2002)

Liabilities		Assets (HKD Bn)
Certificate of indebtedness	113	Cash 16
Government notes & coins	6	Deposits with banks in HK 47
Clearing balance	1	Investment 879
Exchange Fund papers	118	Fixed assets 1
Deposits by banks in HK	38	Other assets 33
Government's Deposit	358	
Other liabilities	28	
Accumulated surplus	314	
Total Liabilities	976	Total Assets 976

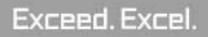
Required Reserve = Amount due from Monetary Authority



Classical Reserve Ratio

 = Due from Exchange Fund / Customer Deposits
 = (1+118+38) / (3318-47)
 = 4.8%





Money Supply Growth - Where Does it Come from ?





Balance Sheet of All Authorised Institutions (December 2002)

	Liabilities		Assets	(HKD Bn)
(A) -{ De	eposits & NCD	3,449	Loans	2,077
(B)	ue to banks abroad	1,394	Due from banks abroad	1,919 (C)
L Ca	apital & others	676	Other assets	1,523
Тс	otal Liabilities	5,519	Total Liabilities	5,519
	. ,		rin Public rency in Public	
So	urce: HKMA			
(HANG SENG BA	NK	Exceed.	Excel.



Total M3 = Total Assets - Total Non-deposit liabilities + Currency in Public

= Domestic Credit + Net Foreign Assets + Other HKD Assets



Components of M3

	(HKD Bn)
Components	As at end of Dec 2002
Domestic credit in HK	2,328
Coins issued	6
Loans and advance in HK	1,834
Investment in HKD	488
Interbank lending in HK	2
Net Foreign Assets	1,590
Net claims on banks abroad	578
Loans & advance abroad	243
Investment in FCY	720
Notes issued	118
Other FCY assets	104
Other FCY liabilities	-173
Other HKD Assets	-356
Other HKD assets	145
Other HKD liabilities	-501
Total M3	3,562



Source of Change in Money Supply

Change in	
M3	

Change in Domestic Credit Change in • Net Foreign + Assets

Change in Other HKD Assets

Money Supply growth comes :

- either through domestic credit expansion
- or Net inflow of funds to non-bank sectors



Changes in M3 Components Since 1998

Change in Total M3	Change in Domestic Credit	Change in Net Foreign Assets			Change in ers Assets
					(HKD Bn)
	1998	199	9 2000	2001	2002
Domestic Credit	-100	-11	8 +107	-43	-14
Net Foreign Assets	+372	+40	8 +187	-33	-19
Other HKD Assets	+25	-2	4 -36	-23	+1
Total M3	+297	+26	6 +258	-99	-32
Cash in Public Hand	s +1	+1	8 -8	+10	+12
HKD Deposits	+169	+7	7 +99	+6	-23
Swap Deposits	-13	-	1 -24	-2	-1
FCY Deposits	+140	+17	2 +191	-113	-20



Observations:

- 1. Money supply growth between 1998 1999 arose mainly from inflow of funds.
- 2. In 2000, credit expansion and funds inflow led to rising money supply.

3. A reverse in funds inflow in 2001 - 2002 led to contraction in money supply.



Balance of Payment vs Net Foreign Assets

					<u>(HKD Bn)</u>
	98	99	00	01	02(Q1-Q3)
Current Account	+34	+93	+71	+96	+90
Non-reserve Capital Account (Exclude banking sector)	+194	+296	+273	-148	-146
Capital Transfer	-18	-13	-12	-9	-12
Error & Omission	-3	-10	-13	+2	+44
Balance of Payment	+207	+366	+319	-59	-24
(Exclude banking sector)					
	98	99	00	01	02
Domestic Credit	-100	-118	+107	-43	-14
Net Foreign Assets	+372	+408	+187	-33	-19
Other HKD Assets	+25	-24	-36	-23	+1
Change in M3	+297	+266	+258	-99	-32



Thank You







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