



INDIA

Savings deposit proportion

Private Banks	Savings deposit proportion
Axis Bank	25%
HDFC Bank	32%
ICICI Bank	30%
Kotak Bank	12%
PSU banks	
BOB	28%
BOI	26%
Canara	22%
PNB	31%
SBI	38%
Union	25%

Source: Company data, Macquarie Research, March 2011

Earnings impact for savings rate=5.5%

FY12E	Impact	
Private Banks	EPS	BVPS
Axis Bank	-16%	-3%
HDFC Bank	-17%	-3%
ICICI Bank	-16%	-2%
Kotak Bank	-3%	0%
PSU banks		
BOB	-21%	-5%
BOI	-26%	-5%
Canara	-25%	-6%
PNB	-26%	-6%
SBI	-36%	-4%
Union	-25%	-5%

Source: Company data, Macquarie Research, March 2011

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India Banks

Savings rate deregulation? – Be prepared for an all-out fight

Deregulation to compress margins in the near term

We believe the savings rate deregulation, if it happens, could result in banks' margins coming under severe pressure in the near term as some irrational competition could occur in the market and we could see banks, especially those with poor deposit franchises, trying to woo customers by offering attractive rates. The liquidity situation may not be the key factor determining savings rates in the near term in our view. There could also be some ALM mismatches in the near term due to savings deposits being switched from one bank to other as the banks start competing. Assuming all else remains constant, margins could come down on average by 25-30bps for every 100bps increase in savings rate, by our assumptions.

High fragmentation, renewed focus of PSU banks on CASA the key culprits

The Indian banking industry is highly fragmented, and with new banking licenses also likely to be offered, we believe there could be increased competition. New entrants and those banks with weak funding franchises, in particular, could resort to desperate measures to attract savings deposits. PSU banks have also been given well-defined CASA targets by the government, which was not the case in the past, and having a high CASA ratio is an important performance metric for the PSU banks' top management. This is evident in the renewed focus of all the PSU banks on CASA over the past two years.

Regional experience reveals that savings rate deregulation impacted bank market values negatively

A study on deregulation of the savings rate in Hong Kong reveals that deregulation wasn't taken well by the markets, and bank market values declined post announcement of the regulation. Larger banks were impacted more than smaller ones. The conclusion was that the regulated savings rate subsidised bank earnings at the expense of depositors. However interactions with our regional analysts suggest that over the longer term, offering higher interest rates acted as a poor hook to capture customers, and service levels and accessibility were more key in determining the ability to garner savings deposits.

Large PSU banks impacted the most

Contrary to the popular perception that private banks, especially HDFC Bank, will be impacted the most by savings rate deregulation, it's likely to be the large PSU banks that are impacted the most. Firstly the savings deposit proportion across all banks is not materially different. HDFC Bank's exceptionally high CASA is mainly due to its higher current account balance. Secondly the contribution of NII (Net Interest Income) to overall income and profits for PSU banks is higher than for private banks. Private Banks have a large dependence on non-interest income. Hence the earnings impact on average for the large PSU banks is around 13% for every 100bps increase in savings rate compared to 8% for private banks. Amongst PSU banks, SBI is impacted the most due to its very high savings deposit proportion of 38%, followed by PNB at 31%. Among private banks, the earnings impact for the top 3 – HDFC Bank, ICICI Bank and Axis Bank – is more or less similar.

Savings rate deregulation? – Be prepared for an all-out fight

Margins to come down due to competition in the near term

We believe the savings rate deregulation, if it happens, could result in banks' margins coming under severe pressure in the near term as there could be some irrational competition in the market, and we could see banks, especially those with low CASA, trying to woo customers by offering attractive rates. Assuming all else remains constant, margins could come down on average by 25-30bps for every 100bps increase in savings rate by our assumptions.

Fig 1 Margin impact due to increase in savings rate

Private Banks	CA	SA	CASA	NIM Pressure: Case- I	NIM Pressure - Case II
Axis Bank	17%	25%	42%	0.25%	0.50%
HDFC Bank	19%	32%	51%	0.32%	0.64%
ICICI Bank	15%	30%	44%	0.30%	0.59%
Kotak Bank	16%	12%	28%	0.12%	0.24%
PSU banks					
BOB	7%	28%	35%	0.28%	0.56%
BOI	7%	26%	33%	0.26%	0.52%
Canara	8%	22%	31%	0.22%	0.44%
PNB	8%	31%	39%	0.31%	0.62%
SBI	10%	38%	48%	0.38%	0.77%
Union	8%	25%	33%	0.25%	0.50%

Source: Company data, Macquarie Research, March 2011

Note: Case I assumes savings rate at 4.5% and case – II assumes savings rate at 5.5%. Current savings rate is regulated and is fixed at 3.5%. Data is as of 3QFY11.

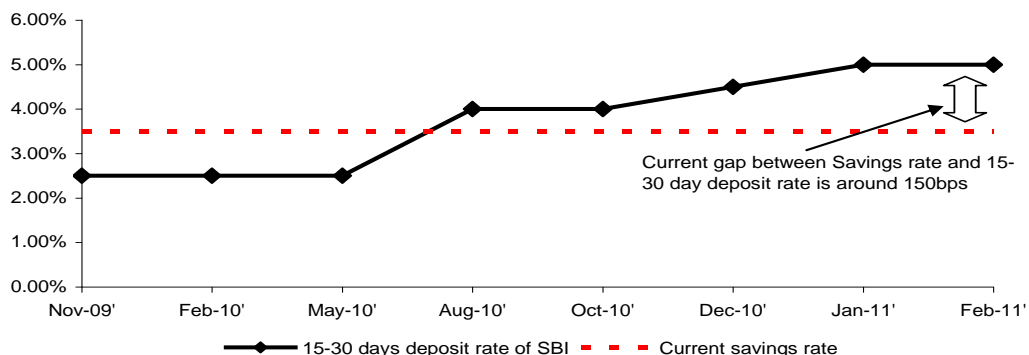
Some of the reasons why we believe, in the near term, that savings rate deregulation could push up interest rates are as follows:

- ⇒ The Indian banking system is very fragmented and we believe deregulation could result in banks, especially those with weaker deposit franchises, trying to jack up rates
- ⇒ With more banking licenses likely to be awarded, the new entrants could be desperate and could resort to irrational behaviour in the near term
- ⇒ Over the past few years PSU banks have become aggressive with respect to their CASA mobilisation. They have been given explicit targets by the Government, unlike 2-3 years ago. This is also reflected in their rapid scale-up of liabilities franchises over the past few years.
- ⇒ The CASA ratio is also an important performance metric for the PSU banks' top management.
- ⇒ Though corporate deposits with less than a 30day maturity are available at 4-5%, we don't believe that a bank can replace its entire savings account proportion with corporate deposits. Moreover, it would further result in significant ALM mismatches as savings accounts are sticky and banks can quite often prove the longer term nature of such liabilities.
- ⇒ Though liquidity conditions would eventually determine rates at the shorter end of the curve, we believe there could be a tendency by banks in the near term to keep rates at irrational levels in order to attract savings deposits even if there is plenty of liquidity. Acquisition of savings deposits by offering higher rates could be perceived as a good customer acquisition strategy that banks can resort to so that they can eventually cross-sell other products.

Free market pricing could result in savings rate going up by 150bps

In an ideal scenario assuming there is no irrational competition the savings rate should mirror short term rates i.e. rates at the lower end of the yield curve. If we take SBI's 15-30 day deposit rate as the reference point for free market pricing of savings deposits, then interest on savings deposits is currently around 150bps lower than SBI's 15-30 day deposit rate of 5%.

Fig 2 Savings rate vs. 15-30 day deposit rate of SBI

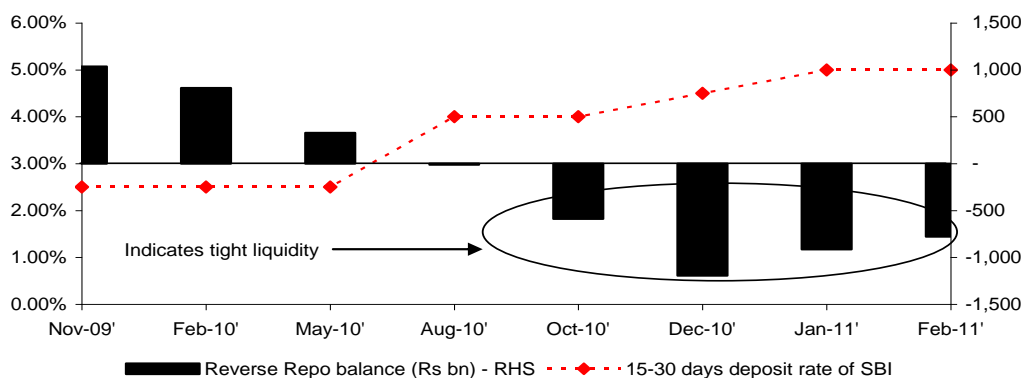


Source: Company data, Macquarie Research, March 2011

Longer term profitability would not be impacted much in our view

Over the longer term, we believe profitability is unlikely to be impacted structurally for banks as we believe the deregulation will result in more product innovation and would also enable banks to price their savings products appropriately. Service levels and accessibility would be other key factors that we expect would eventually determine banks' ability to attract savings deposits. Higher rates alone cannot be the hook to attract customers as savings accounts are mainly transactional. Banks could also eventually fix hidden charges to protect their margins. Eventually, as discussed above, the savings rate would be a function of liquidity in the market and free market pricing would then price these deposits in accordance with the liquidity situation prevailing. For example, if we take 15-30 deposits as the closest proxy to free market pricing of the savings deposit rate, we see that the rates were exceptionally low when liquidity was abundant and the current tight liquidity has resulted in a sharp 250bps upward movement in this bucket. The chart below reflects the liquidity situation (bank borrowings from RBI) vs. SBI's 15-30 day deposit rate observed over the period. However as discussed above, in the interim there could be an upward bias on rates irrespective of the liquidity dynamics.

Fig 3 SBI 15-30 day deposit rate vs. liquidity conditions



Source: Company data, Macquarie Research, March 2011

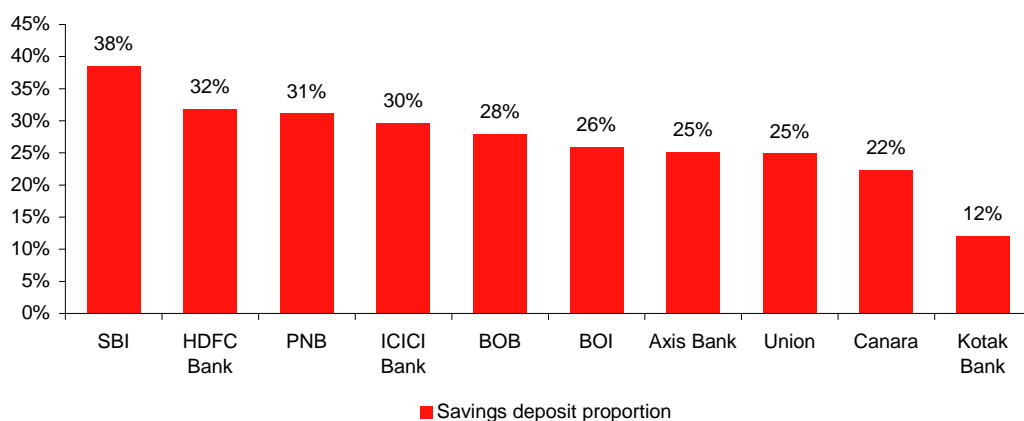
Note: The reverse repo balance indicates net balance of banks with RBI. A negative balance indicates banks are borrowing from RBI and reflects a tight liquidity situation

PSU banks impacted the most, HDFC Bank amongst private banks

PSU banks affected more than private sector banks

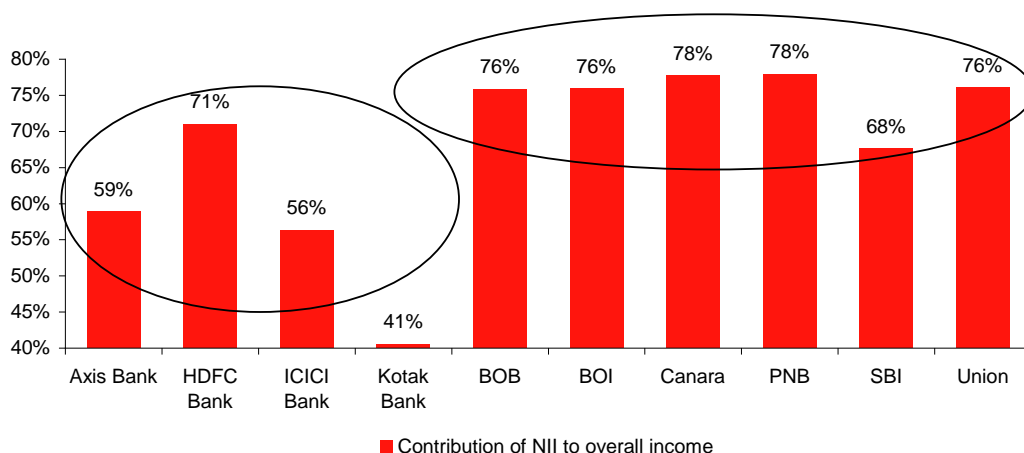
Contrary to the popular perception that private banks, especially HDFC Bank, will be impacted the most by savings rate deregulation, we believe it's actually the large PSU banks that would be impacted the most. Firstly, the savings deposit proportion among banks is not materially different. HDFC Bank's exceptionally high CASA is mainly due to its higher current account balance. Secondly, the contribution of NII (Net Interest Income) to overall income and profits for PSU banks is higher than for private banks. Private banks have a large dependence on non-interest income. Hence the earnings impact on average for the large PSU banks is higher than private sector banks due to margin compression arising out of deregulation of the savings rate.

Fig 4 Savings deposit proportion of various banks



Source: Company data, Macquarie Research, March 2011
 Note: Data is as of 3QFY11

Fig 5 PSU banks have higher contribution from NII to overall income



Source: Company data, Macquarie Research, March 2011

Earnings impact: PSUs around 13% on average and private banks around 8% for every 100bps increase

For PSU banks, the earnings impact is around 13% for every 100bps increase in savings rate compared to 8% for private banks. Amongst PSU banks, SBI is impacted the most due to its very high savings deposit proportion of 38%, followed by PNB. Among private banks, the earnings impact for the top 3 – HDFC Bank, ICICI Bank and Axis Bank – is more or less similar.

Fig 6 Impact on banks due to higher savings rate

FY12E	Case- I: 4.5% Savings rate		Case – II: 5.5% Savings rate	
	EPS	BVPS	EPS	BVPS
Private Banks				
Axis Bank	-8%	-1%	-16%	-3%
HDFC Bank	-9%	-2%	-17%	-3%
ICICI Bank	-8%	-1%	-16%	-2%
Kotak Bank	-1%	0%	-3%	0%
PSU banks				
BOB	-11%	-2%	-21%	-5%
BOI	-13%	-3%	-26%	-5%
Canara	-13%	-3%	-25%	-6%
PNB	-13%	-3%	-26%	-6%
SBI	-18%	-2%	-36%	-4%
Union	-13%	-3%	-25%	-5%

Source: Company data, Macquarie Research, March 2011

Regional experience – Savings rate deregulation hampered stock performance

HK savings rate deregulation study suggests bank stocks reacted negatively

Background – Savings rate deregulation happened in two stages

The following table provides the key event dates associated with the deregulation of deposit interest rate ceilings in Hong Kong which span a six-year period. It can be described as a two-stage process that is neatly separated by the 1997 takeover of Hong Kong by China. Stage one of the deregulation occurred between 1994 and 1995 when Hong Kong was still a British territory. The second stage took place between 1998 and 2000 after the sovereignty of Hong Kong was returned to China.

Stage one – Partial deregulation

During the first stage of deregulation, the HKMA deregulated time deposits of greater than 7 days maturity but didn't touch demand and savings deposits and time deposits with less than 7 days' maturity.

Stage two – complete deregulation

On May 30, 2000, the HKMA announced the deregulation of the remaining time deposits with a maturity of less than 7 days. More significantly, it also announced that the interest rate caps on demand and savings deposits would be removed in July 2001. Successful implementation of these two phases of interest rate deregulation completely abolished the 36-year-old IRRs (Interest rate rules). This was a significant announcement because, as of 1999, total HK\$ demand and savings deposits accounted for 32% of total HK\$ deposits held by licensed banks.

Back in 1994 when time deposits were partially deregulated, HK\$ time deposits subject to the IRRs constituted only 4% of HK\$ deposits. Thus, compared to the deregulation of time deposits, the deregulation of demand and savings deposit rates represented a much more important economic event.

Fig 7 Savings rate deregulation in HK: Event descriptions

Date	Stage one of the IRRs deregulation
28/02/1994	The Consumer Council released the report "An evaluation of the banking policies and practices in Hong Kong"
04/07/1994	The HKMA released the "Study on the Consumer Council Report: Are Hong Kong depositors fairly treated?"
26/07/1994	The Hong Kong government officially adopted HKMA's study in response to Consumer Council's Report on the IRRs
26/08/1994	The HKAB announced a program for the removal of time deposits from the IRRs starting from October 1, 1994
14/03/1995	The HKMA postponed the third phase of deregulation of time deposits
26/09/1995	In announcing the removal of interest rate cap on time deposits fixed for 7 days, the government decided that there should be no further move below 7 days and that the current program of deregulation should come to an end
Date	Stage two of the IRRs deregulation
18/12/1998	The HKMA released the commissioned study, "Hong Kong banking into the new millennium," which recommended the phased deregulation of the remaining IRRs
14/07/1999	The HKMA issued a policy initiative to adopt a two-phase approach to deregulate the remaining IRRs
30/05/2000	The HKMA announced the deregulation of the remaining IRRs on time deposits with maturity of less than 7 days, savings deposits, and demand deposits

Source: Journal of banking and finance, Macquarie Research, March 2011

Striking similarity of HK market with Indian market in terms of competition

While there were 156 licensed banks in Hong Kong at the end of 1999, 97 of them were single-office, wholesale financial institutions that did not engage in retail deposit taking. Almost all of these wholesale institutions were branches or representative offices of foreign banks that established a presence in this Asian financial centre. Of the remaining 59 multi-branch banks, 46 were wholly owned subsidiaries of foreign financial institutions. This left only 13 locally incorporated commercial banks whose revenues derived largely from their Hong Kong operations. All of the 13 Hong Kong banks were publicly held and their common stocks were traded on the stock exchange. These 13 listed banks, including some of the largest institutions in Hong Kong, together accounted for 48% of all deposits held by licensed banks in 1999.

This clearly shows that the HK market was as fragmented as the Indian market, which also has around close to 40+ domestic banks and 60+ foreign banks (with their branch offices).

Study done by Simon Kwan revealed negative impact on bank market values post deregulation

The study done by Mr. Kwan from the Federal Bank of San Francisco revealed that on average the total abnormal return (of stock prices of listed banks) due to interest rate deregulation was around negative 4%. There is some evidence that large banks and banks with high deposit-to-asset ratios suffered a bigger drop in value, suggesting that these banks enjoyed a bigger subsidy under the IRRs. The key conclusions in this study are summarised below

- ⇒ In the first stage, though only a small fraction of the total deposit base was freed from the IRRs (interest rate rules), all the evidence suggests that banks earned rents under the IRRs and news about potential relaxation of the rules lowered bank values.
- ⇒ After the sovereignty of Hong Kong was returned to China, a series of events led the new Hong Kong government to abolish the 36-year-old IRRs completely. Compared to the first stage, these were more significant economic events as the IRRs on the more important demand and savings deposits would be removed. On average, bank stocks were found to suffer a total AR (abnormal return) of around negative 4%. The significant decline in bank market values due to the interest rate deregulation confirms that the IRRs subsidized bank earnings at the expense of depositors. Removal of deposit rate restrictions lowered bank profits and hence bank shareholders' wealth.
- ⇒ Finally, there is some evidence that the effects of the interest rates deregulation on bank stock returns were proportional to bank size and the deposit-to-asset ratio. The results suggest that large banks and banks with high deposit-to-asset ratios earned a larger subsidy under the IRRs than small banks and banks with relatively less deposits.

Fig 8 Abnormal returns for sample of 13 publicly traded HK commercial banks

Events	Abnormal returns (AR)	
	Mean	Median
(1) 18-12-1998 HKMA released commissioned study on HK banking	-2.0%	-2.1%
(2) 14-07-1999: HKMA responded to commissioned study	1.3%	1.1%
(3) 30-05-2000: HKMA announced deregulation of remaining IRRs	-3.3%	-3.6%
Total	-4.0%	-3.6%

Source: Journal of Banking and Finance, Macquarie Research, March 2011

Note: Abnormal return is a term used to describe the returns generated by a given security or portfolio over a period of time that is different from the expected rate of return. The expected rate of return is the estimated return based on an asset pricing model, using a long run historical average or multiple valuation

Experience in other markets – US and UK

The deregulation of deposit interest rates in the US has been studied extensively in banking literature. For example, Dann and James (1982) found that stockholder-owned savings and loan associations (S&Ls) experienced statistically significant declines in equity market values at the announcement of the removal of rate ceilings on certain consumer certificate accounts and the introduction of short-term variable rate money market certificates, suggesting that S&Ls had earned economic rents from interest rate restrictions.

As far as the UK is concerned, our UK colleague Edward Firth indicates that in broad terms current accounts do not compete on interest rates. Banks have tried offering higher rates but generally it proves to be a poor hook with which to attract customers. Service quality, availability of overdraft and fee charges are the key drivers in this market, with customers generally only moving when their existing bank messes something up rather than when they are attracted by better rates. This dynamic changed a little during the internet boom, but most customers either didn't move or have returned to one of the high street providers.

Appendix I – Comments of various banking industry personnel/experts

In this section we present below comments from various experts from the banking industry.

Dr D Subbarao, RBI Governor

All interest rates except those on export credit, NRI deposits and savings bank (SB) accounts have been deregulated. There are several pros and cons of the deregulation and these needs to be discussed at length in order to arrive at a consensus. SB accounts comprise almost 25% of banks' total liabilities and this is still regulated and has remained constant at 3.5% for the last seven years since March 2003. Despite the change in monetary policy rates, this 25% remains unchanged. It is therefore difficult to assess the extent of impact of monetary policy changes. While deregulation would give more flexibility to banks, lead to product innovation and allow banks to have access to a larger base of savings thereby enabling them to handle asset liability issues, it might, however, discourage banks to open accounts with low balance thereby working against the principle of financial inclusion and a possible decline in interest rates might also have an adverse impact on the vulnerable sections of society. (Source: *Hindubusiness Line*)

Mr Aditya Puri, MD, HDFC Bank

Excerpts from interview with a news channel (Source: *Moneycontrol*)

Q: Very soon perhaps we are going to have the savings rate deregulated. How much will it hurt HDFC Bank? How much do you think your margins can be affected, even if temporarily?

A: If the savings rate is freed in a normal environment, the rate of interest on savings will go down. After the initial flurry of everybody trying to take market share, the rate will go down because at 3.5% it becomes an overnight deposit with a 2.5% servicing cost. One can get a 30-day deposit at 4%.

Q: If that was the case, why is the entire banking industry lobbying against it?

A: Banking industry is not lobbying against it. To break even on a savings account, one needs a balance in that account of somewhere between Rs.7, 500-10,000. Add a 3% interest rate, you make it to 5%—to break even you will need Rs.12, 500. What will happen is that the charges that they charge for cheques, the charges that they charge in terms of giving you free ATM (automatic teller machine), the balance requirements, transfers etc will all go up. Number two, I have an option saying that I will just take a 30-day fixed deposit rather than the savings account. There is no free lunch for the banks but there is no free lunch for you as well as the market and forces have to be realistic. On behalf of the banking industry, I would like to say that we are always for a fair deal for the customer. We are not against savings rate deregulation. Deregulation has to be under normal circumstances. If you do it under tight liquidity, that's what we are all saying is an issue. We want a clear understanding that if you deregulate then you will have to deregulate charges as well.

Q: You would say don't do a savings rate deregulation unless the inter-bank rate is operating at the reverse repo window?

A: That's one way of putting it. I am just saying don't do it in an atmosphere of scarcity. If it is done in an atmosphere of scarcity, it could always be Rs400bn. A 1% net demand and time liabilities shortage could always be there, that is steady state.

Q: But you won't get more balances in the savings account.

A: What you will also do is, you will make saving accounts volatile for the banks, among the system and you will completely stop any term lending by banks.

Q: Term lending would stop?

A: Naturally. If I don't want an asset liability mismatch and I can't prove that savings have got stability with me, then it will have to be classified in the overnight bucket.

Mr O P Bhatt, Chairman, SBI

Within the savings bank product, there could be a range of sub-products offering different facilities to the customer depending upon what kind of business they have with the bank. So, while it would be very good for the customer, for the bank it would be challenging to retain their share of CASA. (Source: Moneycontrol)

Ms Shikha Sharma, MD and CEO, Axis Bank

Deregulation is unlikely to impact margins in a big way. It will give greater flexibility in product design. The savings account is the operating account for the customer and to the extent that the customer is interest sensitive on what he does with the deposits, the seven day deposit allows him to reflect that any way today. The seven day deposit is a deregulated rate. (Source: Moneycontrol)

Mr Rana Kapoor, MD, Yes Bank (YES IN, CMP Rs273, Unrated)

Deregulating savings rates will benefit the consumer most of all. After the recent change in moving towards a daily interest rate computation, the consumer is effectively gaining 1%. From an average cost of 2.5% on a savings account, the banks are now paying 3.5% and its sticky, stable money and long-term money. Banks should be permitted to actually free up these rates and offer more market based savings rate. (Source: Moneycontrol)

Appendix 2 – Valuation and Recommendations

Fig 9 Recommendations and TP

	Ticker	Target	Price	Upside/Downside	Reco
Axis Bank	AXSB IN	Restricted	1,285	NA	Restricted
Bank of Baroda	BOB IN	1,100	892	23%	Outperform
Bank of India	BOI IN	530	463	14%	Outperform
Canara Bank	CBK IN	650	621	5%	Neutral
HDFC	HDFC IN	775	651	19%	Outperform
HDFC Bank	HDFCB IN	2,570	2,139	20%	Outperform
ICICI Bank	ICICIB IN	1,400	1,026	36%	Outperform
IDBI	IDBI IN	120	137	-13%	Underperform
IDFC	IDFC IN	170	154	11%	Outperform
Kotak Mahindra Bank	KMB IN	515	414	24%	Outperform
PFC	POWF IN	362	255	42%	Outperform
Punjab National Bank	PNB IN	1,300	1,094	19%	Outperform
Reliance Capital	RCFT IN	600	480	25%	Outperform
REC	RECL IN	309	250	24%	Outperform
State Bank of India	SBIN IN	2,750	2,705	2%	Neutral
Union Bank of India	UNBK IN	405	325	25%	Outperform

Source: Company data, Bloomberg, Macquarie Research, March 2011

Note: Prices as of 3rd March 2011

Fig 10 Valuation matrix of our coverage universe

	EPS growth			P/E			P/BV			RoE (%)		
	FY10	FY11E	FY12E	FY10	FY11E	FY12E	FY10	FY11E	FY12E	FY10	FY11E	FY12E
Private banks												
Axis Bank	30.0	25.3	20.0	19.7	15.7	13.1	3.3	2.8	2.4	19.2	19.2	19.8
HDFC Bank	28.7	25.6	30.3	31.6	25.2	19.3	4.5	4.0	3.4	16.1	16.9	18.9
ICICI Bank	7.1	31.9	28.3	28.4	21.5	16.8	2.2	2.1	1.9	8.0	9.9	11.8
Kotak Bank	99.4	10.3	18.7	22.3	20.2	17.1	3.7	2.8	2.4	18.3	16.0	15.7
Avg Private banks	23.8	27.3	27.1	27.4	21.5	16.9	3.3	2.9	2.5	13.5	14.5	15.4
PSU banks												
BOB	37.3	32.6	13.9	10.7	8.0	7.1	2.4	1.9	1.6	21.9	24.3	22.8
Bank of India	(44.4)	56.0	32.0	14.6	9.3	7.1	1.9	1.7	1.4	12.1	17.0	19.3
Canara	45.8	36.1	8.0	8.4	6.2	5.7	2.0	1.6	1.3	22.5	24.9	21.9
IDBI Bank	20.1	(13.3)	22.1	9.6	9.0	9.1	1.2	1.1	1.0	13.2	14.4	14.2
PNB	26.3	10.5	21.5	8.8	8.0	6.6	2.1	1.7	1.4	24.1	22.1	22.3
SBI	6.8	5.7	20.7	14.6	13.8	11.4	2.1	1.9	1.6	15.6	14.6	15.0
Union Bank	20.2	2.1	29.3	7.9	7.7	6.0	1.9	1.6	1.3	21.7	18.7	20.3
Avg PSU banks	12.4	14.6	20.4	12.6	11.1	9.3	2.1	1.8	1.5	17.7	17.6	17.7
Non banks												
HDFC Ltd	22.9	14.0	18.5	33.0	28.9	24.4	6.1	5.5	4.8	19.9	20.0	21.0
IDFC Ltd	41.4	15.2	11.0	18.8	16.3	14.7	2.8	2.1	1.8	16.1	14.7	13.3
PFC	20.2	12.2	13.5	12.4	11.1	9.8	2.2	1.9	1.5	19.0	18.6	18.3
REC	46.2	17.4	25.5	11.5	9.8	7.8	2.2	1.9	1.6	23.2	21.0	22.5
Reliance Capital	(57.2)	28.1	24.5	27.2	21.2	17.0	1.5	1.5	1.4	5.7	7.1	8.3
Average non banks	24.4	16.2	18.7	18.1	15.5	13.1	2.9	2.5	2.1	18.6	17.7	18.1

Source: Company data, Bloomberg, Macquarie Research, March 2011

Note: Valuations priced as of 3rd March 2011

Important disclosures:

Recommendation definitions

Macquarie - Australia/New Zealand

Outperform – return >3% in excess of benchmark return
 Neutral – return within 3% of benchmark return
 Underperform – return >3% below benchmark return

Benchmark return is determined by long term nominal GDP growth plus 12 month forward market dividend yield

Macquarie – Asia/Europe

Outperform – expected return >+10%
 Neutral – expected return from -10% to +10%
 Underperform – expected return <-10%

Macquarie First South - South Africa

Outperform – expected return >+10%
 Neutral – expected return from -10% to +10%
 Underperform – expected return <-10%

Macquarie - Canada

Outperform – return >5% in excess of benchmark return
 Neutral – return within 5% of benchmark return
 Underperform – return >5% below benchmark return

Macquarie - USA

Outperform (Buy) – return >5% in excess of Russell 3000 index return
 Neutral (Hold) – return within 5% of Russell 3000 index return
 Underperform (Sell) – return >5% below Russell 3000 index return

Volatility index definition*

This is calculated from the volatility of historical price movements.

Very high-highest risk – Stock should be expected to move up or down 60–100% in a year – investors should be aware this stock is highly speculative.

High – stock should be expected to move up or down at least 40–60% in a year – investors should be aware this stock could be speculative.

Medium – stock should be expected to move up or down at least 30–40% in a year.

Low-medium – stock should be expected to move up or down at least 25–30% in a year.

Low – stock should be expected to move up or down at least 15–25% in a year.

* Applicable to Australian/NZ/Canada stocks only

Recommendations – 12 months

Note: Quant recommendations may differ from Fundamental Analyst recommendations

Financial definitions

All "Adjusted" data items have had the following adjustments made:

Added back: goodwill amortisation, provision for catastrophe reserves, IFRS derivatives & hedging, IFRS impairments & IFRS interest expense
 Excluded: non recurring items, asset revals, property revals, appraisal value uplift, preference dividends & minority interests

EPS = adjusted net profit / epowa*

ROA = adjusted ebit / average total assets

ROA Banks/Insurance = adjusted net profit / average total assets

ROE = adjusted net profit / average shareholders funds

Gross cashflow = adjusted net profit + depreciation

*equivalent fully paid ordinary weighted average number of shares

All Reported numbers for Australian/NZ listed stocks are modelled under IFRS (International Financial Reporting Standards).

Recommendation proportions – For quarter ending 31 December 2010

	AU/NZ	Asia	RSA	USA	CA	EUR	
Outperform	46.38%	62.62%	52.17%	44.99%	67.57%	50.90%	(for US coverage by MCUSA, 13.59% of stocks covered are investment banking clients)
Neutral	37.68%	18.58%	34.78%	50.61%	28.83%	35.48%	(for US coverage by MCUSA, 15.22% of stocks covered are investment banking clients)
Underperform	15.94%	18.80%	13.04%	4.40%	3.60%	13.62%	(for US coverage by MCUSA, 0.00% of stocks covered are investment banking clients)

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