

8 March 2012

# China Macro Strategy Three upside risks

We raised our 2012 GDP growth forecast from 8.3% to 8.6% on three upside risks to market and our earlier expectations:

## 1) Exports likely to outperform expectations

We raised our 2012 export growth forecast to 13% from 8%. The upward revision reflects stronger-than-expected demand from G3, a rise in China's export orders, and improvement in the operating environment for export firms.

## 2) Small businesses are outperforming expectations

Small businesses, accounting for over 70% of the employment for more than 90% of the firms in the manufacturing sector, have witnessed significant improvement in their operating environment in the past months. Small business PMI rose sharply from 45 in June 2011 to 55.2 in February 2012, the highest reading since the index's inception. This improvement is supported by falling accounts receivables, lower raw materials inflation, increasing profit margin, and rising export orders.

## 3) The economy is more insulated from real estate risk than market perception

Our study shows that the economy is much more insulated from the weakness in the real estate industry than the market's perception. In the current cycle (from January 2010 to February 2012), the correlation between the manufacturing PMI and the real estate PMI was only 0.12, vs. a correlation of 0.81 during the period of July 2008-June 2009. We estimate that the fall in the leading indicator for residential construction (floor space started) by 55ppt in recent months will likely translate into only a 2ppt deceleration in total real gross capital formation for a limited period of time this year.

**Market implications:** We believe that these developments are positive for the overall economy, and will provide more solid support to EPS growth. Given the valuation (forward PE at 9.1x) is still very attractive and the reduced downside risk to growth, we continue to have a very positive outlook for China's equity markets. We expect another 15-20% upside to MSCI China for the remainder of this year, despite a rally of 11% year to date.

Among sectors, we prefer: 1) container shipping and ports, due to our upward revision in export forecasts; 2) banks, due to reduced credit risks from small business failures and economic hard landing; and 3) power, which should benefit from stronger commitment by the government to resource pricing reform this year.

Jun Ma, Ph.D Chief Economist (+852) 2203 8308 jun.ma@db.com Hui Miao, Ph.D Strategist (+852) 2203 5934 hui.miao@db.com

## Deutsche Bank AG/Hong Kong

All prices are those current at the end of the previous trading session unless otherwise indicated. Prices are sourced from local exchanges via Reuters, Bloomberg and other vendors. Data is sourced from Deutsche Bank and subject companies. Deutsche Bank does and seeks to do business with companies covered in its research reports. Thus, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision. DISCLOSURES AND ANALYST CERTIFICATIONS ARE LOCATED IN APPENDIX 1. MICA(P) 146/04/2011.

## We have raised 2012 GDP growth forecast to 8.6%

We raised our GDP growth forecast for 2012 to 8.6% from 8.3% (8.3% is about the consensus estimate). Given that the market estimates China's GDP growth range from 7.9% to 8.7%, we have one of the highest estimates on the Street. The main source of our upward revision is the upgrade to our export growth forecast to 13% from 8%. The recent improvement in the operating environment for small businesses and our increased confidence that the downside risk posed by weak property activities to the broader economy will be limited also contributed to our conviction on the improving growth outlook.

We made several other changes to our annual economic forecasts: 1) we raised our nominal import growth forecast to 15% (from the previous 9%), reflecting the increase in import of raw materials and components for export production, and an increase in our global commodity inflation forecast; 2) we raised our CPI inflation forecast to 3.1% from the previous 2.8% largely on the back of stronger-than-expected food inflation in January and higher-than-expected oil prices; 3) we marginally raised our IP (on stronger exports) and retail sales forecasts (on slightly stronger inflation forecast); and 4) we lowered our RMB appreciation expectation for 2012 from the previous 3.5% as policy concerns on export competitiveness and US reactions appear to be stronger than we thought initially. Our updated macro forecasts are shown in Figure 1.

Figure 1: Summary of macroeconomic forecasts, yoy%								
	2010	2011	2012F	2013F				
Real GDP	10.3	9.2	8.6	8.6				
CPI	3.3	5.4	3.1	3.5				
Broad money (M2)	19.7	13.6	14.0	14.5				
Bank credit	19.9	15.8	15.0	14.0				
Budget surplus (%of GDP)	-1.7	-2.0	-1.5	-1.3				
Fixed asset inv't	23.8	23.8	17.0	17.0				
Retail sales	18.4	17.1	14.2	15.0				
Industrial production (real)	15.7	13.9	12.3	12.0				
Merch exports (USD)	31.3	20.3	13.0	14.0				
Merch imports (USD)	38.7	24.9	15.0	16.0				
1-year deposit rate	3.50	3.50	3.50	3.50				
CNY/USD (eop)	6.59	6.30	6.14	5.93				

Source: Deutsche Bank, CEIC

The reason that we did not raise our GDP growth forecast more than 0.3ppt is that part of the positive impact of higher export growth on GDP was offset by a similar increase in import growth. Note that we now forecast the export volume growth would be 10% in 2012, the same as last year. In 2011, half of the 20% rise in nominal export growth was due to an increase in unit value (reflecting currency appreciation and an increase in the unit cost of production).

As for quarterly profile of GDP growth forecast, we further raised our Q1 GDP growth forecast (qoq, saar) to 7.8% from 7% (Figure 2), largely reflecting the stronger-than-expected trade and small business performance and our increased confidence that the overall economy is better insulated from the real estate shock.

Figure 2: Quarterly real GDP growth fore	ecasts, yoy and qo	q (saar), in %	
	yoy%	qoq%, saar	
2011Q1	9.7%	8.7%	
2011Q2	9.5%	9.1%	
2011Q3	9.1%	9.5%	
2011Q4	8.9%	8.2%	
2012Q1F	8.6%	7.8%	
2012Q2F	8.0%	8.5%	
2012Q3F	8.7%	9.0%	
2012Q4F	8.8%	8.5%	
Source: Deutsche Bank, CEIC			

## Exports likely to outperform expectations

We raised our 2012 export growth forecast to 13% yoy, up from our previous forecast of 8% and market expectation of 10%. This reflects stronger-than-expected leading indicators from the US, Europe and Japan in recent weeks and improvement in the new export orders index in the recent Chinese PMI report. Arguments for this forecast change are:

 Stronger global leading indicators. We constructed a composite G3 leading index for Chinese exports growth (Figure 3), using a weighted average of US manufacturing ISM, Euroland manufacturing PMI and Japan manufacturing PMI. Historically, this leading index had a correlation of 85% with Chinese yoy export growth, with a lead time of five months. The January-February average of this index rose to 51.2, up from 49.6 in Q4 of last year. A 1.6ppt rise in the G3 leading index is significant, and typically suggests an increase in G3 GDP growth by 0.7ppt.

Figure 3: Global leading indicators (manufacturing ISM or PMI)								
		US	Japan	Euroland	G3 index			
	2011Q1	59.7	46.4	57.5	57.4			
	2011Q2	55.8	50.7	52.0	54.6			
	Jul-11	51.4	52.1	50.4	51.2			
	Aug-11	52.5	51.9	49.0	51.1			
	Sep-11	52.5	49.3	48.5	50.5			
	Oct-11	51.8	50.6	47.1	49.9			
	Nov-11	52.2	49.1	46.4	49.6			
	Dec-11	53.1	50.2	46.9	50.3			
	Jan-12	54.1	50.7	48.8	51.6			
	Feb-12	52.4	50.5	49.0	50.8			

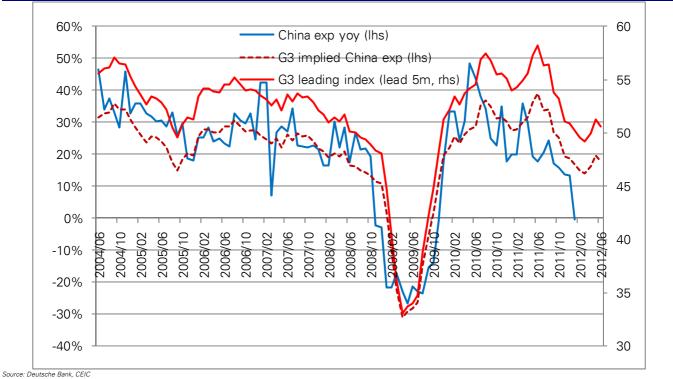
Source: Deutsche Bank

2) Stronger G3 leading index implies higher demand for Chinese exports. Our correlation analysis (between G3 leading index and Chinese export growth) suggests that a 1.5ppt rise in the G3 leading index tends to lift Chinese yoy

export growth by 5ppt. On the basis of our previous forecast of 8% export growth, it translates into export growth potential of 13%.

Based on a simple regression analysis, Figure 4 shows that the G3 leading index would in fact suggest that the Chinese export growth can reach 18% this year, i.e. up massively from January's -0.5% yoy. However, after taking into account the structural weakness (by roughly 5ppt below the potential export growth rate implied by the leading index since 2011 - as can be seen in Figure 4 - due to structural reasons such as rising labor costs and faster relocation of low-end export manufacturing to other countries), we believe that 13% is probably the best export growth forecast for 2012.





**3) G3 GDP upgrade also supports our upward revision to Chinese export forecast.** Our economists have revised up US 2012 GDP forecast to 2.7% from 2.4% in February, and raised Japan's GDP forecast to 2.5% from 0.7%. The new and old quarterly GDP growth forecasts are listed in Figure 5.

Figure 5: DB′s G3 GDP growth forecasts, new vs. old (qoq saar)									
		US	Japan	Euroland	G3	US	Japan	Euroland	G3
2011	Q1	0.4	-6.8	3.1	0.2	0.4	-6.6	3.1	0.3
	Q2	1.3	-1.5	0.6	0.6	1.3	-2.0	0.6	0.5
	Q3	1.8	7.0	0.5	2.2	1.8	5.6	0.5	1.9
	Q4	3.0	-2.3	-1.3	0.4	3.0	-0.1	-1.2	0.8
2012	Q1F	2.8	4.3	-1.6	1.3	2.0	-0.4	-1.6	0.2
	Q2F	2.9	3.8	-1.2	1.5	2.7	0.7	-1.2	0.8
	Q3F	3.2	2.3	1.0	2.2	3.0	0.5	1.0	1.8
	Q4F	3.3	1.6	1.2	2.2	3.0	1.5	1.2	2.0

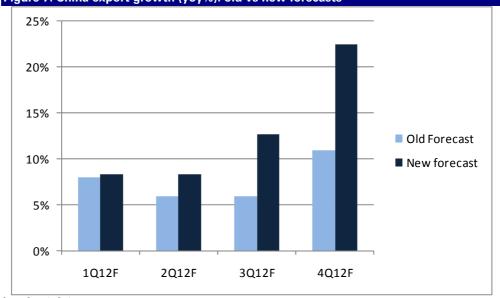
Source: Deutsche Bank

Based on these three forecasts, we calculated the weighted average G3 GDP forecasts. For 2012 as a whole, we raised G3 GDP growth by 0.6ppt. Historically, every 0.6ppt increase in G3 GDP tends to raise Chinese export growth by 4-5ppt.

Based on the above analysis, and the latest quarterly profile of G3 GDP growth, we revised our China quarterly (yoy) export forecasts. Figure 6 shows both the revised and the old forecasts. It is important to note that the yoy export growth will likely accelerate by quarter – i.e. outperformance will likely be back-loaded – the Q3 and Q4 export growth rates are revised up by 7ppt and 12ppt, respectively. The larger upward revisions for later part of this year reflect the cumulative impact of upward revisions to gog growth.

Figure 6: China export value	ina export value growth forecasts (in USD terms), yoy %						
	Old Forecast New forecast						
1Q12F	8%	8%					
2Q12F	6%	8%					
3Q12F	6%	13%					
4Q12F	11%	23%					
2012 annua	l 8%	13%					

Source: Deutsche Bank



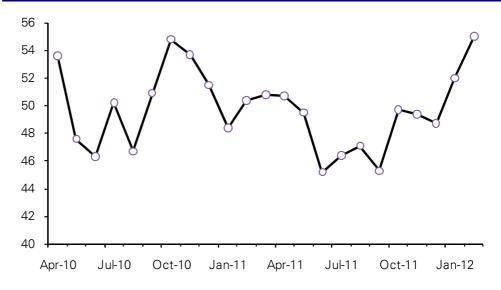
# Figure 7: China export growth (yoy%): old vs new forecasts

Source: Deutsche Bank

# Small businesses are outperforming expectations

Small businesses (defined as small and micro firms in the manufacturing sector, with annual revenue below RMB20m), accounting for over 70% of the employment for more than 90% of firms in the manufacturing sector, have witnessed a significant improvement in their operating environment in the past months. The small business PMI rose sharply from 45 in June 2011 to 55.2 in February 2012, the highest reading since the index's inception two years ago. This improvement is consistent with anecdotal stories and suggests that financing constraints have eased, demand for labor is strong, and new export orders are healthier.





Source: NBS and Confederation of Federation of Logistics.

In Q3 last year, there was widespread media coverage about "runaway bosses" and private entrepreneurs committing suicide in places such as Wenzhou. This coincided with the very weak PMI reading of about 46. At that time, small businesses were indeed simultaneously suffering from several shocks: 1) very tight credit conditions, as evidenced by a surge in informal market lending rate to about 25% by June 2011 (vs. levels of 10-15% historically); 2) a strong increase in inflation (note that CPI inflation reached 6.5% yoy in July 2011), which exacerbated the upward pressure on labor costs; and 3) an increase of 23% yoy in raw materials price index in July 2011.

The operating environment for small businesses has indeed improved significantly since, as evidenced by the following:

1) The ratio of accounts receivables to sales has declined. As large companies (especially infrastructure companies) are better funded due to policy easing, they have begun to clear their arrears to suppliers including many small companies. This is particularly evident in the case of railway projects. Our railway analyst estimates that the railway sector owed about RMB150bn in arrears to suppliers at the end of Q3 last year. Most of these arrears have been cleared according to the latest estimate of our railway analyst. In addition, our banking analysts estimate that the LGFV loans of RMB300-400bn were rolled over by the end of last year (largely in Q4), again indirectly benefiting smaller suppliers and service providers.

Based on the CEIC data, the ratio of accounts receivables to monthly sales for non-state owned manufacturing companies declined to 93% in Q4 from the peak of 98% in Q3 last year. As most SMEs are non-state owned firms, this trend should confirm the improvement in the cash flow situation due to the clearance of payments arrears and the general improvement in liquidity.

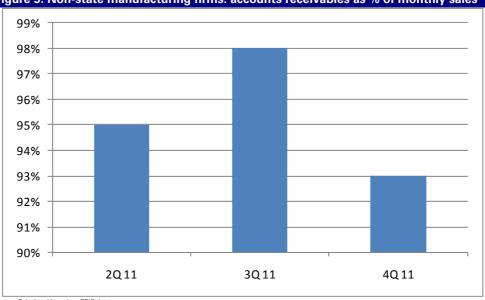
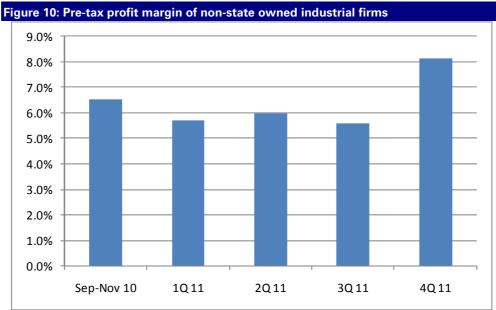


Figure 9: Non-state manufacturing firms: accounts receivables as % of monthly sales

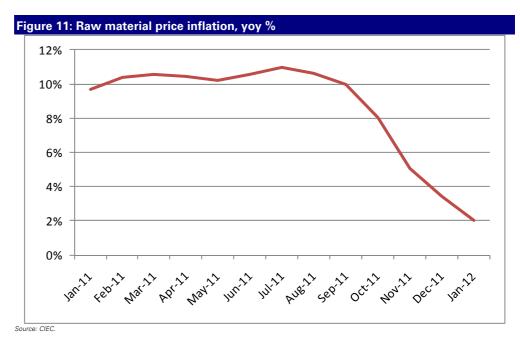
Source: Calculated based on CEIC data.

**2)** Profit margin of non-state owned manufacturing firms has improved. While nationwide statistics on small company profits are not available, we can calculate the pre-tax profit margin of non-state-owned industrial firms based on the official data from the NBS. Note that that the majority of small companies are privately owned so we can use non-SOEs as a good proxy. Figure 10 shows that the pre-tax profit margin of non-SOEs rose to 8.1% in Q4 of last year, up visibly from the trough of 5.6% in Q3. Note that the Q4 margin is also significantly higher than 6.4% in September-November of 2010 (NBS changed its reporting period this year) or the historical Q4 average (where Q4 numbers were reported) of 6-7%. Therefore the improvement in Q4 2011 was not entirely due to seasonal factors.



Source: Calculated using NBS data.

**3)** Raw material inflation has eased significantly. By the middle of 2011, the yoy inflation in raw material prices was 10–11%. It has declined steadily since and is currently only 2%, much lower than the historical average of 6–7% (Figure 11). Even if broad money supply growth is only about 13% yoy now, it is in fact an easier monetary condition (i.e. M2 growth minus inflation) for manufacturing firms relative to the time when raw material price inflation was 11% but M2 growth was 15%.



4) Export orders improved recently. The new export orders index in the PMI report rose to 51 in February, up sharply from the worst reading of 45.6 in November. As a very high percentage of small companies are operating in export-related sectors, this improvement in export demand is positive for them.

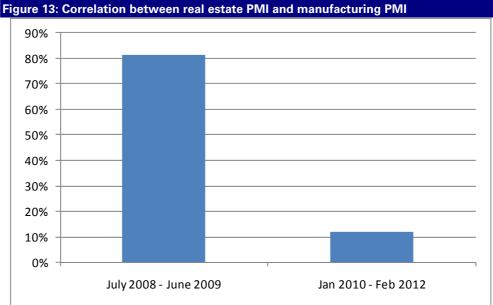


# The economy is more insulated from the real estate risk than market perception

With export weakness and small business failures becoming much less of a concern, the only outstanding major risk to the economy is from the real estate industry. But even on the real estate industry, we believe that the downside risk it poses to the overall economy is significantly smaller than the perception of many investors.

Many investors are concerned that given the inter-relationship between the real estate sector and a large number of related industries such as raw materials, machinery, furniture, auto, and even luxury consumption (due to the negative wealth effect), weakness in property sales and investment would have a serious ripple effect on the overall economy. However, our study shows that the broader economy is in fact highly insulated from the weakness in the real estate industry. We found that in the current cycle (from January 2010 to February 2012), the correlation between the manufacturing PMI and the real estate PMI was only 0.12, vs. the correlation of 0.81 for the period of July 2008-June 2009 (Figure 13). This is because the high correlation between real estate and overall PMI during the 2008-09 crisis was mainly due to the resonance effect of other major contributors (especially inventory destocking and export decline) to the economic downturn during the Lehman crisis.

Fortunately, this time around, inventory and exports are performing much better and thus real estate per se is unlikely to lead to a hard landing of the economy. In fact, the PMI's raw materials inventory index remained largely stable during the past two quarters (at about 50 now, vs 39.5 in November 2008), while the new export orders index recovered to over 51 in February (compared with 29 in November 2008). Therefore, even though the most recent trough of real estate PMI (at 39 in January 2012) was as low as that in January 2009, the overall manufacturing sector is much more stable now than in 2008-09.

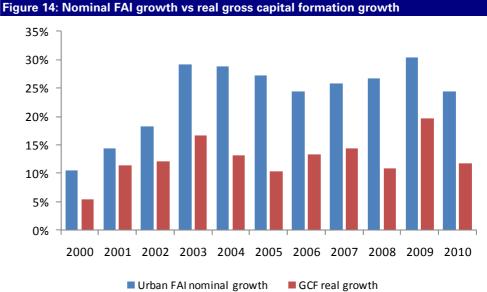


Source: Deutsche Bank calculation based on data from NBS and Confederation of Logistics.

A particular worry among investors is that a leading indicator for real estate construction – residential floor space started – has dropped sharply from a 30% yoy growth in August 2011 to 25% yoy in December 2011. Some view this as an indication of overall real estate investment growth slowing by 50-60ppt in the coming months, and believe it could be a serious blow to the economy given real estate FAI is about one-fourth of total FAI and investment is about half of the economy. A simple calculation based on these assumptions would result in an extremely bearish view – GDP growth may slow by as much as 5ppt

This view grossly exaggerates the likely impact of real estate weakness on the economy. There are several problems with the assumptions used in the above calculation. **Firstly, residential floor space started is not a perfect predictor of total real estate FAI.** Based on the correlation analyses using data from 2000 to 2011, we note that the fall in the leading indicator for residential construction (floor space started) by 55ppt in recent months will likely translate into only 15-20ppt deceleration in nominal real estate FAI growth (rather than by 55ppt). This relative weak correlation is partly because the "residential floor space started" figures do not capture or do not fully reflect the changes in construction activities in commercial real estate, rural housing, and some residential projects built by work units (rather than be developers). And we know construction activities of these types remain strong.

Secondly, the nominal change in FAI is typically much more violent than the real change in gross capital formation due to the volatility of land and raw materials prices and the double counting of items such as land transfers in FAI (Figure 14). Based on data from 2000, a 10ppt change in FAI growth implies only a 5.3ppt change in real gross capital formation. Applying this ratio (0.53) to the likely 15-20ppt deceleration in nominal real estate FAI growth, it means that the real gross capital formation (GCF) in the real estate sector may slow only by 8-11ppt. Given that the real estate GCF is about 25% of the overall GCF, it implies that weaker investment growth in the real estate sector may slow the overall real GCF growth by about 2ppt. Therefore, its impact on GDP growth would be around 1ppt, rather than by 5ppt.



Source: Deutsche Bank

Thirdly, investments in the infrastructure and public housing sector may partly offset the real estate investment slowdown. Given the government's assurance for funding the ongoing infrastructure projects, the increase in local bond issuance quota (by 25% to RMB250bn this year from RMB200bn last year), rollover of some LGFV loans (already by RMB300-400bn by the end of last year, likely 7% increase in new lending (to RMB8tn this year from RMB7.5tn last year), we expect transport FAI growth to recover to 5–7% this year, up from last year's 1.8%. In addition, investment in public housing may rise 20–30% this year. Finally, the recent indication from the government to "ensure the supply of ordinary commodity housing" implies that the financing policies for some developers may be somewhat more relaxed later this year. These factors may, in our view, offset 3–4ppt of the real estate FAI deceleration.

Finally, the weakness indicated by the leading indicator is short-term in nature. It is quite likely that the property sales may recover later this year due to improved affordability and

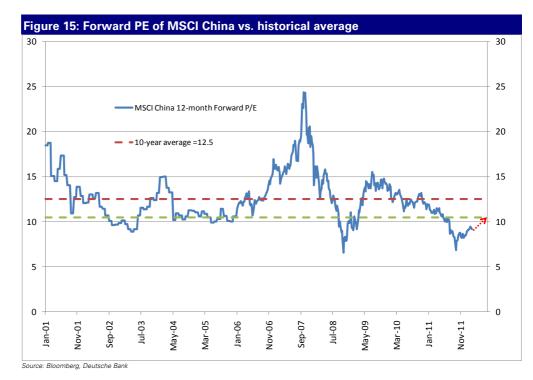
policy incentives for first-time home buyers, and therefore, real estate FAI growth may recover from the middle of this year.

Our conclusion is that although the real estate FAI deceleration remains a risk to the economy in the short term, its magnitude is quite manageable and its full-year impact is partially offset by many other factors. Our annual GDP growth forecast of 8.6% is therefore quite achievable despite the drag from the real estate sector.

# Market implications: We remain bullish on MSCI China for the rest of this year

We continue to have a bullish outlook for China's equity markets, and expect another 15–20% upside to the MSCI China index for the rest of this year. The market rallied in the first two months of this year – with MSCI China up 17% in January-February, but experienced some technical corrections in the past week. We think the recent pullback (by about six percent since 1 March) is healthy, and should provide a better entry point for investors than just a few weeks ago.

Despite the ytd increase of 11% in the index, MSCI China is still trading at an attractive forward PE of 9.1x, compared with the average of 12.5x for the past ten years (Figure 15). Given our expectation of very healthy 8.5-9% GDP growth and 3-3.5% CPI inflation in 2H this year, we believe macro fundamentals should easily justify a further rerating of the forward PE to 10.5x by the end of this year. This valuation re-rating alone should imply 15% upside to MSCI China from its current level.



In addition, we believe that the stronger-than-expected GDP growth (as discussed in the previous sections of this report) should provide more solid support to our EPS growth forecasts of 11% for this year and 13% for the next year. Expectation of continued +10% EPS growth by the end of this year should support further index upside than just multiple expansion.

On sectors, we see potential earnings upside from three factors:

- 1. The likely outperformance of exports this year may provide upside to **container shipping, ports and export manufacturing industries**.
- The diminishing risk of small business failures (and default probability in the informal lending market) and the better-than-expected insulation of the economy to weakness in real estate sector will also allay market concern on **banks**' NPLs. Stronger GDP growth and the resulting upside to overall corporate earnings growth should also lower the asset quality risk to the banking system.
- 3. The determination of the government to implement resource pricing reform, as emphasized by the Premier at the NPC that the 4% CPI inflation target is to reserve room for the reform, bodes well for further improvement in margin outlook for the **power sector**.

Given the above reasons, we prefer container shipping, banks and power in our sector picks. We also added CNOOC to our top picks list as a hedge against potential upside surprises to global oil prices. Figure 16 presents the updated top Buys from China stocks covered by our analysts.

Figure 16: Our top	Buys									
	6-Mar Price M. ca		М. сар	PE		PB	EPS CAGR	PEG (11- 13EPS		
Company	Ticker Sector Rating	Rating	Ratina	(US\$m)	2012E	2013E	2012E	11-13 E	/2012PE)	
Baidu	BIDU.OQ	Software & Services	Buy	133.3	46,582	27.9	19.9	11.6	48%	0.59
China Shipping Container	2866.HK	Transportation	Buy	2.7	4,048	97.7	13.0	1.0	-4%	N.A.
China Construction Bank	0939.HK	Banks	Buy	6.2	200,629	6.9	6.3	1.4	10%	0.70
ICBC	1398.HK	Banks	Buy	5.3	236,473	6.7	6.1	1.3	9%	0.74
ZTE	0763.HK	TechHardware & Equipment	Buy	22.2	8,096	17.1	14.4	2.3	15%	1.16
Huaneng Power Intl	0902.HK	Utilities	Buy	4.8	7,423	9.3	9.0	0.9	86%	0.11
CNOOC	0883.HK	Energy	Buy	17.0	97,486	8.4	8.1	2.0	6%	1.47
China Resources Land	1109.HK	Real Estate	Buy	13.7	10,249	10.1	5.7	1.3	50%	0.20
Mindray Medical	MR.N	Health Care Equipment & Services	Buy	31.1	3,575	17.3	15.0	2.7	15%	1.19
Belle Int'L Holding	1880.HK	Retailing	Buy	13.0	14,113	16.9	14.0	4.0	21%	0.79
Ping An	2318.HK	Insurance	Buy	61.8	61,073	16.3	NA	2.7	32%	0.51
Dongfeng Motor	0489.HK	Automobiles & Components	Buy	13.9	15,471	7.6	6.7	1.7	13%	0.59
Average						20.2	10.7	2.7	25%	0.81
MSCI China						9.2	8.4	1.4	12%	0.77

Source: Deutsche Bank

As a final remark, we believe many investors' concerns on the Chinese government cutting its GDP growth target to 7.5% is overdone. Note that, historically, China's actual growth rates have almost always been higher than the official targets (for example, the targets were overshot by an average of 2ppt in the past decade). For this year, we believe China's official target is likely to be easily exceeded by 1ppt, i.e. actual growth would reach or even slightly exceed 8.5%. For all the reasons we stated for the past years, an 8.5% GDP growth rate is much healthier than 10% GDP growth, as the former would help reduce the risks of economic overheating, asset bubbles and NPLs. In other words, the likely outcome implied

by the conservative 7.5% GDP target should imply a more sustainable growth trajectory than before.

# **Appendix 1**

## **Important Disclosures**

Additional information available upon request

For disclosures pertaining to recommendations or estimates made on a security mentioned in this report, please see the most recently published company report or visit our global disclosure look-up page on our website at <a href="http://gm.db.com/ger/disclosure/DisclosureDirectory.egsr">http://gm.db.com/ger/disclosure/DisclosureDirectory.egsr</a>.

# **Analyst Certification**

The views expressed in this report accurately reflect the personal views of the undersigned lead analyst(s). In addition, the undersigned lead analyst(s) has not and will not receive any compensation for providing a specific recommendation or view in this report. Jun Ma

## Equity rating key

**Buy:** Based on a current 12- month view of total shareholder return (TSR = percentage change in share price from current price to projected target price plus projected dividend yield ), we recommend that investors buy the stock.

**Sell:** Based on a current 12-month view of total shareholder return, we recommend that investors sell the stock

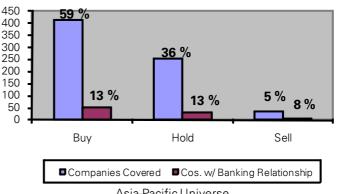
**Hold:** We take a neutral view on the stock 12-months out and, based on this time horizon, do not recommend either a Buy or Sell.

## Notes:

1. Newly issued research recommendations and target prices always supersede previously published research.

 Ratings definitions prior to 27 January, 2007 were: Buy: Expected total return (including dividends) of 10% or more over a 12-month period Hold: Expected total return (including dividends) between -10% and 10% over a 12-month period Sell: Expected total return (including dividends) of -10% or worse over a 12-month period

## Equity rating dispersion and banking relationships





## **Regulatory Disclosures**

## 1. Important Additional Conflict Disclosures

Aside from within this report, important conflict disclosures can also be found at https://gm.db.com/equities under the "Disclosures Lookup" and "Legal" tabs. Investors are strongly encouraged to review this information before investing.

# 2. Short-Term Trade Ideas

Deutsche Bank equity research analysts sometimes have shorter-term trade ideas (known as SOLAR ideas) that are consistent or inconsistent with Deutsche Bank's existing longer term ratings. These trade ideas can be found at the SOLAR link at <a href="http://gm.db.com">http://gm.db.com</a>.

# **3. Country-Specific Disclosures**

Australia and New Zealand: This research, and any access to it, is intended only for "wholesale clients" within the meaning of the Australian Corporations Act and New Zealand Financial Advisors Act respectively.

**Brazil:** The views expressed above accurately reflect personal views of the authors about the subject company(ies) and its(their) securities, including in relation to Deutsche Bank. The compensation of the equity research analyst(s) is indirectly affected by revenues deriving from the business and financial transactions of Deutsche Bank.

**EU countries:** Disclosures relating to our obligations under MiFiD can be found at <u>http://www.globalmarkets.db.com/riskdisclosures</u>.

Japan: Disclosures under the Financial Instruments and Exchange Law: Company name - Deutsche Securities Inc. Registration number - Registered as a financial instruments dealer by the Head of the Kanto Local Finance Bureau (Kinsho) No. 117. Member of associations: JSDA, Type II Financial Instruments Firms Association, The Financial Futures Association of Japan, Japan Securities Investment Advisers Association. Commissions and risks involved in stock transactions - for stock transactions, we charge stock commissions and consumption tax by multiplying the transaction amount by the commission rate agreed with each customer. Stock transactions can lead to losses as a result of share price fluctuations and other factors. Transactions in foreign stocks can lead to additional losses stemming from foreign exchange fluctuations. "Moody's", "Standard & Poor's", and "Fitch" mentioned in this report are not registered credit rating agencies in Japan unless "Japan" or "Nippon" is specifically designated in the name of the entity.

**Russia:** This information, interpretation and opinions submitted herein are not in the context of, and do not constitute, any appraisal or evaluation activity requiring a license in the Russian Federation.

# Deutsche Bank

**Deutsche Securities Inc.** 

Chiyoda-ku, Tokyo 100-6171

2-11-1 Nagatacho

Sanno Park Tower

Tel: (81) 3 5156 6770

**Deutsche Bank AG** 

One Raffles Quay

Tel: (65) 6423 8001

Singapore

South Tower Singapore 048583

Japan

### **Deutsche Bank AG/Hong Kong**

## **Asia-Pacific locations**

#### Deutsche Bank AG

Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia Tel: (61) 2 8258 1234

#### Deutsche Bank (Malaysia) Berhad

Level 18-20 Menara IMC 8 Jalan Sultan Ismail Kuala Lumpur 50250 Malaysia Tel: (60) 3 2053 6760

#### **Deutsche Securities Asia Ltd**

Taiwan Branch Level 6 296 Jen-Ai Road, Sec 4 Taipei 106 Taiwan Tel: (886) 2 2192 2888

#### International locations

#### **Deutsche Bank Securities Inc.**

60 Wall Street New York, NY 10005 United States of America Tel: (1) 212 250 2500

#### **Deutsche Bank AG**

Filiale Hongkong International Commerce Centre, 1 Austin Road West,Kowloon, Hong Kong Tel: (852) 2203 8888 Deutsche Bank AG Filiale Hongkong International Commerce Centre, 1 Austin Road West,Kowloon, Hong Kong tel: (852) 2203 8888

In association with Deutsche Regis Partners, Inc. Level 23, Tower One Ayala Triangle, Ayala Avenue Makati City, Philippines Tel: (63) 2 894 6600

#### In association with **TISCO Securities Co., Ltd** TISCO Tower 48/8 North Sathorn Road Bangkok 10500 Thailand Tel: (66) 2 633 6470

#### **Deutsche Equities India Pte Ltd**

3rd Floor, Kodak House 222, Dr D.N. Road Fort, Mumbai 400 001 SEBI Nos: INB231196834 INB011196830, INF231196834 Tel: (91) 22 6658 4600

#### Deutsche Securities Korea Co.

17th Floor, YoungPoong Bldg., 33 SeoRin-Dong, Chongro-Ku, Seoul (110-752) Republic of Korea Tel: (82) 2 316 8888

In association with **PT Deutsche Verdhana Indonesia** Deutsche Bank Building, 6th Floor, Jl. Imam Bonjol No.80, Central Jakarta, Indonesia Tel: (62 21) 318 9541

**Deutsche Bank AG** 

Tel: (49) 69 910 00

Germany

Große Gallusstraße 10-14

60272 Frankfurt am Main

#### Deutsche Bank AG

Deutsche Bank Place Level 16 Corner of Hunter & Phillip Streets Sydney, NSW 2000 Australia Tel: (61) 2 8258 1234

Deutsche Bank AG London 1 Great Winchester Street London EC2N 2EQ United Kingdom Tel: (44) 20 7545 8000

### Deutsche Securities Inc.

2-11-1 Nagatacho Sanno Park Tower Chiyoda-ku, Tokyo 100-6171 Japan Tel: (81) 3 5156 6770

**Global Disclaimer** 

The information and opinions in this report were prepared by Deutsche Bank AG or one of its affiliates (collectively "Deutsche Bank"). The information herein is believed to be reliable and has been obtained from public sources believed to be reliable. Deutsche Bank makes no representation as to the accuracy or completeness of such information.

Deutsche Bank may engage in securities transactions, on a proprietary basis or otherwise, in a manner inconsistent with the view taken in this research report. In addition, others within Deutsche Bank, including strategists and sales staff, may take a view that is inconsistent with that taken in this research report.

Opinions, estimates and projections in this report constitute the current judgement of the author as of the date of this report. They do not necessarily reflect the opinions of Deutsche Bank and are subject to change without notice. Deutsche Bank has no obligation to update, modify or amend this report or to otherwise notify a recipient thereof in the event that any opinion, forecast or estimate set forth herein, changes or subsequently becomes inaccurate. Prices and availability of financial instruments are subject to change without notice. This report is provided for informational purposes only. It is not an offer or a solicitation of an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Target prices and a product of the analyst judgement.

As a result of Deutsche Bank's March 2010 acquisition of BHF-Bank AG, a security may be covered by more than one analyst within the Deutsche Bank group. Each of these analysts may use differing methodologies to value the security; as a result, the recommendations may differ and the price targets and estimates of each may vary widely.

In August 2009, Deutsche Bank instituted a new policy whereby analysts may choose not to set or maintain a target price of certain issuers under coverage with a Hold rating. In particular, this will typically occur for "Hold" rated stocks having a market cap smaller than most other companies in its sector or region. We believe that such policy will allow us to make best use of our resources. Please visit our website at http://gm.db.com to determine the target price of any stock.

The financial instruments discussed in this report may not be suitable for all investors and investors must make their own informed investment decisions. Stock transactions can lead to losses as a result of price fluctuations and other factors. If a financial instrument is denominated in a currency other than an investor's currency, a change in exchange rates may adversely affect the investment. Past performance is not necessarily indicative of future results. Deutsche Bank may with respect to securities covered by this report, sell to or buy from customers on a principal basis, and consider this report in deciding to trade on a proprietary basis.

Unless governing law provides otherwise, all transactions should be executed through the Deutsche Bank entity in the investor's home jurisdiction. In the U.S. this report is approved and/or distributed by Deutsche Bank AG Frankfurt authorized by the BaFin. In the United Kingdom this report is approved and/or communicated by Deutsche Bank AG Frankfurt authorized by the BaFin. In the United Kingdom this report is approved and/or communicated by Deutsche Bank AG Frankfurt authorized by the BaFin. In the United Kingdom this report is approved and/or communicated by Deutsche Bank AG Frankfurt authorized by the BaFin. This report is distributed in Hong Kong by Deutsche Bank AG, Hong Kong Branch, in Korea by Deutsche Back AG. Transfurt authorized by the BaFin. This report is distributed in Hong Kong by Deutsche Bank AG, Singapore Branch, and recipients in Singapore of this report is distributed in Singapore and/or contact Deutsche Bank AG, Singapore Branch, and recipients in son accredited investor, expert investor or institutional investor (as defined in the applicable Singapore laws and regulated by Deutsche Bank AG. Singapore Branch authorized by the applicable Singapore laws and regulations). Deutsche Bank AG, Singapore Branch cas defined in the applicable Singapore laws and regulations). Deutsche Bank AG, Singapore Branch auch experiment autivies. In Australia, retail clients should obtain a copy of a Product Disclosure Statement (PDS) relating to any financial product referred to in this report and consider the PDS before making any decision about whether to acquire the product. Deutsche Bank AG Singapore Statement (PDS) relating to any (Branch Register Number in South Africa: 1998/003298/10). Additional information consent. Please cite source when quoting.

Copyright @ 2012 Deutsche Bank AG