



Company

31 July 2009 | 8 pages

Punjab National Bank (PNBK.BO)

1Q10 Result – Profits Don't Hide Pain

- Profits look great Asset quality does not The quarter has its hits, but the misses are big. A 62% profit growth (27% est. trading gain boost) is simply not enough to cover the balance-sheet crack that chunky restructured assets (unexpected and far worse than peers) have opened up. Management's relatively inconsistent disclosure and defense does not help either. While the restructured assets wound might not necessarily be deep, it will hurt.
- The P&L is quite good PNB has done a lot of things right in this quarter margins have held up well and are now even higher than industry averages, fee growth has been robust (45%+), PNB continues to build on its operating/technology platform, and asset and liability pricing is robust. Bottom line, PNB has been disciplined and effective on the P&L front.
- But balance-sheet bravado appears to have caught up Fortune doesn't always favor the brave PNB stood tall as a liquid and aggressive lender in the credit crunch (Nov-Dec 2008); this has possibly contributed to a doubling of restructured assets (6% of loans) in the current quarter (not flagged in March 09). This is well ahead of peers, is stark for a bank that had made strong asset quality gains in the recent past, and inconsistency in its disclosure is disappointing. This does not necessarily mean long-term pain or even near-term P&L pressures, but raises questions on quality and credibility.
- Maintain Buy, though near term stock performance will likely be muted We expect the stock to face near term pressures, but with a strong P&L, good franchise & a still fairly robust Balance-sheet, a reversal to its premium valuations clearly remains a possibility. New Mgmt (currently head-less, CEO expected soon), better disclosure & progress on fixing asset quality pressures, could be catalysts for a reversal to premium valuations.

Statistical Abstract

Year to	Net Profit	Diluted EPS	EPS growth	P/E	P/B	ROE	Yield
31 Mar	(RsM)	(Rs)	(%)	(x)	(x)	(%)	(%)
2008A	20,488	64.98	33.0	10.8	1.8	18.0	1.8
2009A	30,909	98.03	50.9	7.2	1.5	22.9	2.8
2010E	34,185	108.42	10.6	6.5	1.3	21.3	2.8
2011E	39,293	124.62	14.9	5.7	1.1	20.7	3.0
2012E	48,479	153.75	23.4	4.6	0.9	21.5	3.1

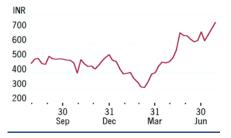
Source: Powered by dataCentral

See Appendix A-1 for Analyst Certification and important disclosures.

Buy/Medium Risk	1M
Price (30 Jul 09)	Rs704.80
Target price	Rs780.00
Expected share price return	10.7%
Expected dividend yield	2.8%
Expected total return	13.5%
Market Cap	Rs222,225M
	US\$4,603M

Equity 🗹

Price Performance (RIC: PNBK.BO, BB: PNB IN)



Aditya Narain, CFA

+91-22-6631-9879 aditya.narain@citi.com

Manish Chowdhary, CFA +91-22-6631-9853

manish.chowdhary@citi.com

Naveenan Ramachandran naveenan.ramachandran@citi.com

Citi Investment Research & Analysis is a division of Citigroup Global Markets Inc. (the "Firm"), which does and seeks to do business with companies covered in its research reports. As a result, 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.

	2008	2009	2010E	2011E	2012E
Valuation Ratios					
P/E adjusted (x)	10.8	7.2	6.5	5.7	4.6
P/E reported (x)	10.8	7.2	6.5	5.7	4.6
P/BV (x)	1.8	1.5	1.3	1.1	0.9
P/Adjusted BV diluted (x)	2.1	1.7	1.4	1.2	1.0
Dividend yield (%)	1.8	2.8	2.8	3.0	3.1
Per Share Data (Rs)					
EPS adjusted	64.98	98.03	108.42	124.62	153.75
EPS reported	64.98	98.03	108.42	124.62	153.75
BVPS	390.68	465.41	550.53	650.69	778.81
Tangible BVPS	390.68	465.41	550.53	650.69	778.81
Adjusted BVPS diluted	341.98	416.71	501.83	601.98	730.11
DPS	13.00	20.00	20.00	21.00	22.00
Profit & Loss (RsM)					
Net interest income	55,342	70,309	82,328	96,367	113,901
Fees and commissions	11,062	13,766	16,244	18,518	20,740
Other operating Income	8,913	16,431	12,222	13,592	15,047
Total operating income	75,317	100,506	110,793	128,477	149,688
Total operating expenses	-35,255	-42,062	-47,364	-52,554	-58,312
Oper. profit bef. provisions	40,062	58,444	63,429	75,923	91,376
Bad debt provisions	-5,156	-9,620	-13,343	-18,540	-20,870
Non-operating/exceptionals	-1,947	-1,154	-1,250	-1,250	-1,250
Pre-tax profit	32,959	47,669	48,836	56,133	69,256
Тах	-12,472	-16,760	-14,651	-16,840	-20,777
Extraord./Min. Int./Pref. Div.	0	0	0	0	0
Attributable profit	20,488	30,909	34,185	39,293	48,479
Adjusted earnings	20,488	30,909	34,185	39,293	48,479
Growth Rates (%)					
EPS adjusted	33.0	50.9	10.6	14.9	23.4
Oper. profit bef. prov.	13.4	45.9	8.5	19.7	20.4
Balance Sheet (RsM)					
Total assets	1,990,204	2,467,696	2,878,821	3,376,009	3,969,642
Avg interest earning assets	1,774,641	2,183,938	2,625,933	3,084,971	3,635,951
Customer loans	1,226,422	1,578,616	1,883,731	2,275,102	2,710,288
Gross NPLs	33,193	27,674	45,885	72,621	92,148
Liab. & shar. funds	1,990,204	2,467,696	2,878,821	3,376,009	3,969,642
Total customer deposits	1,664,572	2,097,600	2,472,317	2,927,290	3,468,749
Reserve for loan losses	31,407	31,586	42,161	56,113	69,721
Shareholders' equity	123,183	146,746	173,585	205,164	245,562
Profitability/Solvency Ratios (%)					
ROE adjusted	18.0	22.9	21.3	20.7	21.5
Net interest margin	3.12	3.22	3.14	3.12	3.13
Cost/income ratio	46.8	41.9	42.8	40.9	39.0
Cash cost/average assets	2.0	1.9	1.8	1.7	1.6
NPLs/customer loans	2.7	1.8	2.4	3.2	3.4
Reserve for loan losses/NPLs	94.6	114.1	91.9	77.3	75.7
Bad debt prov./avg. cust. loans	0.5	0.7	0.8	0.9	0.8
Loans/deposit ratio	73.7	75.3	76.2	77.7	78.1
-			0.1	0.1	0.0
Tier 1 capital ratio Total capital ratio	8.5 13.0	9.0 14.0	9.1 13.6	9.1 13.2	9.3 13.1

For further data queries on Citi's full coverage universe please contact CIR Data Services Asia Pacific at CIRDataServicesAsiaPacific@citi.com or +852-2501-2791



	1Q10	1009	YoY %	4009	QoQ%	CIRA Comments
Interest Income	52,074	41,385	25.8	52,426	-0.7	
Interest Expense	-33,456	(26,937)	24.2	(33,360)	0.3	
Net Interest Income	18,618	14,448	28.9	19,065	-2.3	Strong show - slight dip in QoQ margins, but distinctly better than peers, and commendable given high margin levels
Fee-Based Income	6,153	4,432	38.8	6,172	-0.3	Strong show - an area in which PNB is increasing consistency
Other Non-Interest Income	3,549	129	2650.9	2,384	48.9	Primarily trading gains, which is the key driver of strong profit expansion
Non Interest Income	9,702	4,561	112.7	8,556	13.4	
Operating Income	28,320	19,009	49.0	27,621	2.5	
Operating Expenses	(12,626)	(9,185)	37.5	(11,740)	7.6	Significant increase, and relatively surprising
Pre-Provision Profit	15,693	9,824	59.7	15,882	-1.2	
Charges for Bad Debts	(3,018)	(595)	407.0	(4,686)	-35.6	In Sync with restructuring pain, though partly offset by portfolio write-backs
Other Operating Items	0	(1,510)	NM	2,008	NM	
Pre-Tax Profit	12,676	7,719	64.2	13,203	-4.0	
Tax	(4,355)	(2,595)	67.8	(4,548)	-4.2	
Net Profit	8,321	5,124	62.4	8,656	-3.9	Well ahead of our 28% expectations
EPS	26.4	16.3	62.4	27.5	-3.9	
DPS	0.0	0.0	NM	20	NM	
Customer Loans	1,579,794	1,144,300	38.1	1,547,030	2.1	Continues to grow - after a spurt in the second of the more challenging year that was 2009
Customer Deposits	2,189,597	1,730,740	26.5	2,097,600	4.4	Has also been aggressive with deposit pricing
AIEA	2,206,831	1,763,855	25.1	2,167,673	1.8	
Total Assets	2,459,397	2,064,580	19.1	2,469,190	-0.4	
Avg Assets	2,464,293	2,035,071	21.1	2,392,427	3.0	
Non-Performing Loans (NPL)	28,647	32,647	-12.3	27,675	3.5	by upgrades - standalone, is quite an impressive
Restructured Loans	94,000			44,000	113.6	number A big disappointment - well ahead of guidance, significantly weaker than peers, and very poorly disclosed by management
Loan Loss Reserves (LLR)	(25,675)	(25,499)	0.7	(25,036)	2.6	
Shareholders' Funds	147,056	112,951	30.2	138,735	6.0	Comfortable with Capital, at over 14% cap adequacy
Book Value Per Share	466	358	30.2	440	6.0	
Key Ratios (%)	1Q10	1Q09	Bps ∆ YoY	4009	Bps ∆ QoQ	
ROAA (annualized)	1.35	1.01	34	1.45	-10	
ROAE (annualized)	22.63	18.15	449	24.96	-232	High on profitability - though trading gain boosted
Net Interest Margin (bps)	337	328	10	352	-14	Remains among the highest in the sector, and well managed over the quarter
Fee Inc/Operating Income	21.7	23.3	-159	22.3	-62	Strong performance on core fee growth
Other Non-Interest Inc/Op Inc	34.3	24.0	1026	31.0	328	
Op. Cost/ Operating Income	44.6	48.3	-373	42.5	208	
Loan-to-Deposit Ratio (LDR)	72.1	66.1	603	73.8	-160	
NPL/Loan Ratio	1.8	2.9	-104	1.8	2	Headline NPL's and coverage amongst the best in the sector, though rapid escalation of restructured loans takes the sheen of asset quality
LLR/NPL Ratio	90	78	1,152	90	-84	······································
Restructured % of loans	6.0%		_,	2.8%		Almost twice the level of peer banks

Punjab National Bank

Company description

Punjab National Bank (PNB) was established in 1943 and nationalized in the first round of nationalization in 1969. The bank is headquartered in Delhi, and the government has a 57.8% stake. PNB is among the top five banks in the country, with a 5% share of deposits and advances of the banking system. PNB has the second-largest branch network in the country with 4,668 branches including 238 extension counters.

Investment strategy

We rate PNB Buy/Medium Risk (1M). PNB is one of India's largest government-owned banks, with good profitability (ROEs of 18-19%) and relatively high net interest margins. We believe: a) PNB has been able to maintain its growth along with its higher than industry NIMs (350bps), and while we expect NIMs to drift downwards, they are likely to remain significantly above industry; b) PNB has shown significant growth in fee income, led by its strong technology platform and greater management focus; and c) PNB's asset quality has held up reasonably well despite its greater mid-market and agricultural focus. We expect the current environment to be relatively beneficial for PNB due to: a) Its larger deposit franchise; b) The low interest rate environment should support its NIMs; and c) Stabilising economic growth should ease pressures on its asset book.

Valuation

Our target price for PNB is Rs780, based on CIRA's EVA model, which captures the long-term value of the business, and is a standard valuation measure for the CIRA India Banking coverage. Our target price assumes: a) risk-free rate of 6.5% (in line with our assumptions for other banks); b) high longer term loan loss provisions of 125bps (given asset risk environment currently), c) loan spreads of 200bps which is in-line with industry levels, and d) long-term fee income growth of 9%.

Risks

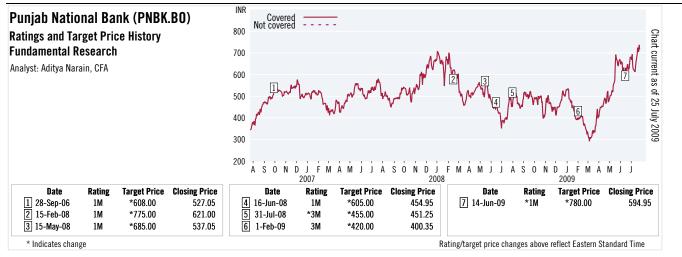
We rate PNB Medium Risk based on our quantitative risk-rating system, which tracks 260-day historical share price volatility. Key downside risks to our target price include: (1) Adverse changes in the interest rate or liquidity environment; (2) Sharp asset quality deterioration; (3) Significant reduction in its low cost deposit ratios, which will increase pressure on margins; and (4) Modest growth in fee incomes, increasing its dependence on volatile treasury gains.

Appendix A-1

Analyst Certification

Each research analyst(s) principally responsible for the preparation and content of all or any identified portion of this research report hereby certifies that, with respect to each issuer or security or any identified portion of the report with respect to an issuer or security that the research analyst covers in this research report, all of the views expressed in this research report accurately reflect their personal views about those issuer(s) or securities. Each research analyst(s) also certify that no part of their compensation was, is, or will be, directly or indirectly, related to the specific recommendation(s) or view(s) expressed by that research analyst in this research report.

IMPORTANT DISCLOSURES



Within the past 12 months, Citigroup Global Markets Inc. or its affiliates has acted as manager or co-manager of an offering of securities of Punjab National Bank. Citigroup Global Markets Inc. or its affiliates has received compensation for investment banking services provided within the past 12 months from Punjab National Bank.

Citigroup Global Markets Inc. or its affiliates expects to receive or intends to seek, within the next three months, compensation for investment banking services from Punjab National Bank.

Citigroup Global Markets Inc. or an affiliate received compensation for products and services other than investment banking services from Punjab National Bank in the past 12 months.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as investment banking client(s): Punjab National Bank.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, securitiesrelated: Punjab National Bank.

Citigroup Global Markets Inc. currently has, or had within the past 12 months, the following as clients, and the services provided were non-investment-banking, non-securities-related: Punjab National Bank.

Analysts' compensation is determined based upon activities and services intended to benefit the investor clients of Citigroup Global Markets Inc. and its affiliates ("the Firm"). Like all Firm employees, analysts receive compensation that is impacted by overall firm profitability which includes investment banking revenues.

For important disclosures (including copies of historical disclosures) regarding the companies that are the subject of this Citi Investment Research & Analysis product ("the Product"), please contact Citi Investment Research & Analysis, 388 Greenwich Street, 29th Floor, New York, NY, 10013, Attention: Legal/Compliance. In addition, the same important disclosures, with the exception of the Valuation and Risk assessments and historical disclosures, are contained on the Firm's disclosure website at www.citigroupgeo.com. Valuation and Risk assessments can be found in the text of the most recent research note/report regarding the subject company. Historical disclosures (for up to the past three years) will be provided upon request.

Citi Investment Research Ratings Distribution						
Data current as of 30 Jun 2009	Buy	Hold	Sell			
Citi Investment Research Global Fundamental Coverage	41%	38%	21%			
% of companies in each rating category that are investment banking clients	46%	45%	39%			
Outide to Fundamental Deserves Investment Defines						

Guide to Fundamental Research Investment Ratings:

 $\label{eq:citical} \mbox{Citi Investment Research's stock recommendations include a risk rating and an investment rating.}$

Risk ratings, which take into account both price volatility and fundamental criteria, are: Low (L), Medium (M), High (H), and Speculative (S).

Investment ratings are a function of Citi Investment Research's expectation of total return (forecast price appreciation and dividend yield within the next 12 months) and risk rating.

For securities in emerging markets (Asia Pacific, Emerging Europe/Middle East/Africa, and Latin America), investment ratings are: Buy (1) (expected total return of 15% or more for Low-Risk stocks, 20% or more for Medium-Risk stocks, 30% or more for High-Risk stocks, and 40% or more for Speculative stocks); Hold (2) (5%-15% for Low-

Risk stocks, 10%-20% for Medium-Risk stocks, 15%-30% for High-Risk stocks, and 20%-40% for Speculative stocks); and Sell (3) (5% or less for Low-Risk stocks, 10% or less for Medium-Risk stocks, 15% or less for High-Risk stocks, and 20% or less for Speculative stocks).

Investment ratings are determined by the ranges described above at the time of initiation of coverage, a change in investment and/or risk rating, or a change in target price (subject to limited management discretion). At other times, the expected total returns may fall outside of these ranges because of market price movements and/or other short-term volatility or trading patterns. Such interim deviations from specified ranges will be permitted but will become subject to review by Research Management. Your decision to buy or sell a security should be based upon your personal investment objectives and should be made only after evaluating the stock's expected performance and risk.

Guide to Corporate Bond Research Credit Opinions and Investment Ratings: Citi Investment Research's corporate bond research issuer publications include a fundamental credit opinion of Improving, Stable or Deteriorating and a complementary risk rating of Low (L), Medium (M), High (H) or Speculative (S) regarding the credit risk of the company featured in the report. The fundamental credit opinion reflects the CIR analyst's opinion of the direction of credit fundamentals of the issuer without respect to securities market vagaries. The fundamental credit opinion is not geared to, but should be viewed in the context of debt ratings issued by major public debt ratings companies such as Moody's Investors Service, Standard and Poor's, and Fitch Ratings. CBR risk ratings are approximately equivalent to the following matrix: Low Risk Triple A to Low Double A; Low to Medium Risk High Single A through High Triple B; Medium to High Risk Mid Triple B through High Double B; High to Speculative Risk Mid Double B and Below. The risk rating element illustrates the analyst's opinion of the relative likelihood of loss of principal when a fixed income security issued by a company is held to maturity, based upon both fundamental and market risk factors. Certain reports published by Citi Investment Research will also include investment ratings on specific issues of companies under coverage which have been assigned fundamental credit opinions and risk ratings. Investment ratings are a function of Citi Investment Research's expectations for total return, relative return (to publicly available Citigroup bond indices performance), and risk rating. These investment ratings are: Buy/Overweight the bond is expected to outperform the relevant Citigroup bond market sector index (Broad Investment Grade, High Yield Market or Emerging Market), performances of which are updated monthly and can be viewed at http://sd.ny.ssmb.com/ using the "Indexes" tab; Hold/Neutral Weight the bond is expected to perform in line with the relevant Citigroup bond

Non-US research analysts who have prepared this report are not registered/qualified as research analysts with the NYSE and/or NASD. Such research analysts may not be associated persons of the member organization and therefore may not be subject to the NYSE Rule 472 and NASD Rule 2711 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account. The legal entities employing the authors of this report are listed below:

Citigroup Global Markets India Private Limited Aditya Narain, CFA,Manish Chowdhary, CFA,Naveenan Ramachandran

OTHER DISCLOSURES

The subject company's share price set out on the front page of this Product is quoted as at 30 July 2009 04:00 PM on the issuer's primary market.

For securities recommended in the Product in which the Firm is not a market maker, the Firm is a liquidity provider in the issuers' financial instruments and may act as principal in connection with such transactions. The Firm is a regular issuer of traded financial instruments linked to securities that may have been recommended in the Product. The Firm regularly trades in the securities of the issuer(s) discussed in the Product. The Firm may engage in securities transactions in a manner inconsistent with the Product and, with respect to securities covered by the Product, will buy or sell from customers on a principal basis.

Securities recommended, offered, or sold by the Firm: (i) are not insured by the Federal Deposit Insurance Corporation; (ii) are not deposits or other obligations of any insured depository institution (including Citibank); and (iii) are subject to investment risks, including the possible loss of the principal amount invested. Although information has been obtained from and is based upon sources that the Firm believes to be reliable, we do not guarantee its accuracy and it may be incomplete and condensed. Note, however, that the Firm has taken all reasonable steps to determine the accuracy and completeness of the disclosures made in the Important Disclosures section of the Product. The Firm's research department has received assistance from the subject company(ies) referred to in this Product including, but not limited to, discussions with management of the subject company(ies). Firm policy prohibits research analysts from sending draft research to subject companies. However, it should be presumed that the author of the Product has had discussions with the subject company to ensure factual accuracy prior to publication. All opinions, projections and estimates constitute the judgment of the author as of the date of the Product and these, plus any other information contained in the Product, are subject to change without notice. Prices and availability of financial instruments also are subject to change without notice. Notwithstanding other department Research does not set a predetermined frequency for publication, if the Product is a fundamental research report, it is the intention of Citi Investment Research to provide research coverage of the/those issuer(s) mentioned therein, including in response to news affecting this issuer, subject to applicable quiet periods and capacity constraints. The Product is for informational purposes only and is not intended as an offer or solicitation for the purchase or sale of a security. Any decision to purchase securities mentioned in the Product must take into account existin

Investing in non-U.S. securities, including ADRs, may entail certain risks. The securities of non-U.S. issuers may not be registered with, nor be subject to the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on foreign securities. Foreign companies are generally not subject to uniform audit and reporting standards, practices and requirements comparable to those in the U.S. Securities of some foreign companies may be less liquid and their prices more volatile than securities of comparable U.S. companies. In addition, exchange rate movements may have an adverse effect on the value of an investment in a foreign stock and its corresponding dividend payment for U.S. investors. Net dividends to ADR investors are estimated, using withholding tax rates conventions, deemed accurate, but investors are urged to consult their tax advisor for exact dividend computations. Investors who have received the Product from the Firm may be prohibited in certain states or other jurisdictions from purchasing securities mentioned in the Product from the Firm. Please ask your Financial Consultant for additional details. Citigroup Global Markets Inc. takes responsibility for the Product in the United States. Any orders by US investors resulting from the information contained in the Product may be placed only through Citigroup Global Markets Inc.

Important Disclosures for Morgan Stanley Smith Barney LLC Customers: Morgan Stanley & Co. Incorporated (Morgan Stanley) research reports may be available about the companies that are the subject of this Citi Investment Research & Analysis (CIRA) research report. Ask your Financial Advisor or use smithbarney.com to view any available Morgan Stanley research reports in addition to CIRA research reports. In addition to the disclosures on this research report and on the CIRA disclosure website (https://www.citigroupgeo.com/geopublic/Disclosures/index_a.html), important disclosures regarding the relationship between the companies that are the subject of this report and Morgan Stanley Smith Barney LLC, Morgan Stanley or any of its affiliates, are available at www.morganstanley.com/researchdisclosures. This CIRA research report has been reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval was conducted by the same person who reviewed this research report on behalf of CIRA. This could create a conflict of interest.

The Citigroup legal entity that takes responsibility for the production of the Product is the legal entity which the first named author is employed by. The Product is made available in Australia through Citigroup Global Markets Australia Pty Ltd. (ABN 64 003 114 832 and AFSL No. 240992), participant of the ASX Group and regulated by the

Australian Securities & Investments Commission. Citigroup Centre, 2 Park Street, Sydney, NSW 2000. The Product is made available in Australia to Private Banking wholesale clients through Citigroup Pty Limited (ABN 88 004 325 080 and AFSL 238098). Citigroup Pty Limited provides all financial product advice to Australian Private Banking wholesale clients through bankers and relationship managers. If there is any doubt about the suitability of investments held in Citigroup Private Bank accounts, investors should contact the Citigroup Private Bank in Australia. Citigroup companies may compensate affiliates and their representatives for providing products and services to clients. The Product is made available in Brazil by Citigroup Global Markets Brasil - CCTVM SA, which is regulated by CVM - Comissão de Valores Mobiliários, BACEN - Brazilian Central Bank, APIMEC - Associação Associação dos Analistas e Profissionais de Investimento do Mercado de Capitais and ANBID - Associação Nacional dos Bancos de Investimento. Av. Paulista. 1111 - 11º andar - CEP. 01311920 - São Paulo - SP. If the Product is being made available in certain provinces of Canada by Citigroup Global Markets (Canada) Inc. ("CGM Canada"), CGM Canada has approved the Product. Citigroup Place, 123 Front Street West, Suite 1100, Toronto, Ontario M5J 2M3. The Product is made available in France by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 1-5 Rue Paul Cézanne, 8ème, Paris, France. The Product may not be distributed to private clients in Germany. The Product is distributed in Germany by Citigroup Global Markets Deutschland AG & Co. KGaA, which is regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin). Frankfurt am Main, Reuterweg 16, 60323 Frankfurt am Main. If the Product is made available in Hong Kong by, or on behalf of, Citigroup Global Markets Asia Ltd., it is attributable to Citigroup Global Markets Asia Ltd., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. Citigroup Global Markets Asia Ltd. is regulated by Hong Kong Securities and Futures Commission. If the Product is made available in Hong Kong by The Citigroup Private Bank to its clients, it is attributable to Citibank N.A., Citibank Tower, Citibank Plaza, 3 Garden Road, Hong Kong. The Citigroup Private Bank and Citibank N.A. is regulated by the Hong Kong Monetary Authority. The Product is made available in India by Citigroup Global Markets India Private Limited, which is regulated by Securities and Exchange Board of India. Bakhtawar, Nariman Point, Mumbai 400-021. The Product is made available in Indonesia through PT Citigroup Securities Indonesia. 5/F, Citibank Tower, Bapindo Plaza, JI. Jend. Sudirman Kav. 54-55, Jakarta 12190. Neither this Product nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens wherever they are domiciled or to Indonesian residents except in compliance with applicable capital market laws and regulations. This Product is not an offer of securities in Indonesia. The securities referred to in this Product have not been registered with the Capital Market and Financial Institutions Supervisory Agency (BAPEPAM-LK) pursuant to relevant capital market laws and regulations, and may not be offered or sold within the territory of the Republic of Indonesia or to Indonesian citizens through a public offering or in circumstances which constitute an offer within the meaning of the Indonesian capital market laws and regulations. The Product is made available in Italy by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. Foro Buonaparte 16, Milan, 20121, Italy. If the Product was prepared by Citi Investment Research and distributed in Japan by Nikko Citigroup Limited ("NCL"), it is being so distributed under license. If the Product was prepared by NCL and distributed by Nikko Cordial Securities Inc. or Citigroup Global Markets Inc. it is being so distributed under license. NCL is regulated by Financial Services Agency, Securities and Exchange Surveillance Commission, Japan Securities Dealers Association, Tokyo Stock Exchange and Osaka Securities Exchange. Shin-Marunouchi Building, 1-5-1 Marunouchi, Chiyoda-ku, Tokyo 100-6520 Japan. In the event that an error is found in an NCL research report, a revised version will be posted on Citi Investment Research's Global Equities Online (GEO) website. If you have questions regarding GEO, please call (81 3) 6270-3019 for help. The Product is made available in Korea by Citigroup Global Markets Korea Securities Ltd., which is regulated by Financial Supervisory Commission and the Financial Supervisory Service. Hungkuk Life Insurance Building, 226 Shinmunno 1-GA, Jongno-Gu, Seoul, 110-061. The Product is made available in Malaysia by Citigroup Global Markets Malaysia Sdn Bhd, which is regulated by Malaysia Securities Commission. Menara Citibank, 165 Jalan Ampang, Kuala Lumpur, 50450. The Product is made available in Mexico by Acciones y Valores Banamex, S.A. De C. V., Casa de Bolsa, Integrante del Grupo Financiero Banamex ("Accival") which is a wholly owned subsidiary of Citigroup Inc. and is regulated by Comision Nacional Bancaria y de Valores. Reforma 398, Col. Juarez, 06600 Mexico, D.F. In New Zealand the Product is made available through Citigroup Global Markets New Zealand Ltd. (Company Number 604457), a Participant of the New Zealand Exchange Limited and regulated by the New Zealand Securities Commission. Level 19, Mobile on the Park, 157 Lambton Quay, Wellington. The Product is made available in Pakistan by Citibank N.A. Pakistan branch, which is regulated by the State Bank of Pakistan and Securities Exchange Commission, Pakistan. AWT Plaza, 1.1. Chundrigar Road, P.O. Box 4889, Karachi-74200. The Product is made available in Poland by Dom Maklerski Banku Handlowego SA an indirect subsidiary of Citigroup Inc., which is regulated by Komisja Nadzoru Finansowego. Dom Maklerski Banku Handlowego S.A. ul. Chalubinskiego 8, 00-630 Warszawa. The Product is made available in the Russian Federation through ZAO Citibank, which is licensed to carry out banking activities in the Russian Federation in accordance with the general banking license issued by the Central Bank of the Russian Federation and brokerage activities in accordance with the license issued by the Federal Service for Financial Markets. Neither the Product nor any information contained in the Product shall be considered as advertising the securities mentioned in this report within the territory of the Russian Federation or outside the Russian Federation. The Product does not constitute an appraisal within the meaning of the Federal Law of the Russian Federation of 29 July 1998 No. 135-FZ (as amended) On Appraisal Activities in the Russian Federation. 8-10 Gasheka Street, 125047 Moscow. The Product is made available in Singapore through Citigroup Global Markets Singapore Pte. Ltd., a Capital Markets Services Licence holder, and regulated by Monetary Authority of Singapore. 1 Temasek Avenue, #39-02 Millenia Tower, Singapore 039192. The Product is made available by The Citigroup Private Bank in Singapore through Citibank, N.A., Singapore branch, a licensed bank in Singapore that is regulated by Monetary Authority of Singapore. Citigroup Global Markets (Pty) Ltd. is incorporated in the Republic of South Africa (company registration number 2000/025866/07) and its registered office is at 145 West Street, Sandton, 2196, Saxonwold. Citigroup Global Markets (Pty) Ltd. is regulated by JSE Securities Exchange South Africa, South African Reserve Bank and the Financial Services Board. The investments and services contained herein are not available to private customers in South Africa. The Product is made available in Spain by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. 29 Jose Ortega Y Gassef, 4th Floor, Madrid, 28006, Spain. The Product is made available in Taiwan through Citigroup Global Markets Taiwan Securities Company Ltd., which is regulated by Securities & Futures Bureau. No portion of the report may be reproduced or quoted in Taiwan by the press or any other person. No. 8 Manhattan Building, Hsin Yi Road, Section 5, Taipei 100, Taiwan. The Product is made available in Thailand through Citicorp Securities (Thailand) Ltd., which is regulated by the Securities and Exchange Commission of Thailand. 18/F. 22/F and 29/F. 82 North Sathorn Road. Silom. Bangrak, Bangkok 10500. Thailand. The Product is made available in Turkey through Citibank AS which is regulated by Capital Markets Board. Tekfen Tower, Eski Buyukdere Caddesi # 209 Kat 2B, 23294 Levent, Istanbul, Turkey. In the U.A.E, these materials (the "Materials") are communicated by Citigroup Global Markets Limited, DIFC branch ("CGML"), an entity registered in the Dubai International Financial Center ("DIFC") and licensed and regulated by the Dubai Financial Services Authority ("DFSA" to Professional Clients and Market Counterparties only and should not be relied upon or distributed to Retail Clients. A distribution of the different CIRA ratings distribution, in percentage terms for Investments in each sector covered is made available on request. Financial products and/or services to which the Materials relate will only be made available to Professional Clients and Market Counterparties. The Product is made available in United Kingdom by Citigroup Global Markets Limited, which is authorised and regulated by Financial Services Authority. This material may relate to investments or services of a person outside of the UK or to other matters which are not regulated by the FSA and further details as to where this may be the case are available upon request in respect of this material. Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB. The Product is made available in United States by Citigroup Global Markets Inc, which is regulated by NASD, NYSE and the US Securities and Exchange Commission. 388 Greenwich Street, New York, NY 10013. Unless specified to the contrary, within EU Member States, the Product is made available by Citigroup Global Markets Limited, which is regulated by Financial Services Authority. Many European regulators require that a firm must establish, implement and make available a policy for managing conflicts of interest arising as a result of publication or distribution of investment research. The policy applicable to Citi Investment Research's Products can be found at www.citigroupgeo.com. Compensation of equity research analysts is determined by equity research management and Citigroup's senior management and is not linked to specific transactions or recommendations. The Product may have been distributed simultaneously, in multiple formats, to the Firm's worldwide institutional and retail customers. The Product is not to be construed as providing investment services in any jurisdiction where the provision of such services would not be permitted. Subject to the nature and contents of

the Product, the investments described therein are subject to fluctuations in price and/or value and investors may get back less than originally invested. Certain highvolatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Certain investments contained in the Product may have tax implications for private customers whereby levels and basis of taxation may be subject to change. If in doubt, investors should seek advice from a tax adviser. The Product does not purport to identify the nature of the specific market or other risks associated with a particular transaction. Advice in the Product is general and should not be construed as personal advice given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. Prior to acquiring any financial product, it is the client's responsibility to obtain the relevant offer document for the product and consider it before making a decision as to whether to purchase the product.

© 2009 Citigroup Global Markets Inc. (© Nikko Citigroup Limited, if this Product was prepared by it). Citi Investment Research is a division and service mark of Citigroup Global Markets Inc. and its affiliates and is used and registered throughout the world. Citi and Citi with Arc Design are trademarks and service marks of Citigroup Inc and its affiliates and are used and registered throughout the world. Nikko is a registered trademark of Nikko Cordial Corporation. All rights reserved. Any unauthorized use, duplication, redistribution or disclosure is prohibited by law and will result in prosecution. Where included in this report, MSCI sourced information is the exclusive property of Morgan Stanley Capital International Inc. (MSCI). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, redisseminated or used to create any financial products, including any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. MSCI, Morgan Stanley Capital International and the MSCI indexes are services marks of MSCI and its affiliates. The information contained in the Product is intended solely for the recipient and may not be further distributed by the recipient. The Firm accepts no liability whatsoever for the actions of third parties. The Product may provide the addresses of, or contain hyperlinks to, websites. Except to the extent to which the Product refers to website material of the Firm, the Firm has not reviewed the linked site. Equally, except to the extent to which the Product refers to website material of the Firm, the Firm takes no responsibility for, and makes no representations or warranties whatsoever as to, the data and information contained therein. Such address or hyperlink (including addresses or hyperlinks to website material of the Firm) is provided solely for your convenience and information and the content of the linked site does not in anyway form part of this document. Accessing such website or following such link through the Product or the website of the Firm shall be at your own risk and the Firm shall have no liability arising out of, or in connection with, any such referenced website.

ADDITIONAL INFORMATION IS AVAILABLE UPON REQUEST