

CROSS-ASSET ROADMAPS

Renminbi Revaluation Roadmap

We expect the CNY to be revalued during the summer. Secretary Geithner's announcement that the Treasury's semiannual currency manipulation report will be delayed a few months suggests to us a cooling off of recent tensions between US and Chinese officials over the renminbi's USD peg. In our view, this opens up a "sweet spot" for a mid-summer revaluation—with increasing odds of an earlier move—of 2-3% initially, with ongoing "crawling-peg" appreciation for a cumulative total of 4-5% in 2010. By comparison, the forward market is currently pricing in a more modest appreciation.

The market implications are asymmetric. The revaluation we expect would help extend the rally in risky assets because it would underscore China's commitment to its G20 rebalancing responsibilities and could allow the PBoC to tighten less aggressively. In contrast, were Chinese officials to balk at adjusting the currency, it could heighten trade tensions and might require more tightening. Thus, while a revaluation itself is not likely to have a significant direct effect on most risky assets, the absence of any adjustment would be a headwind.

A revaluation would reinforce our existing views and recommendations. Equity markets—China particularly—should react favorably, in our view, as they did in 2005. Commodities would benefit, but the impact on prices would be more likely in the medium rather than near term. AXJ currencies stand to benefit the most, especially those that serve as CNY proxies.

Morgan Stanley does and seeks to do business with companies covered in Morgan Stanley Research. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of Morgan Stanley Research. Investors should consider Morgan Stanley Research as only a single factor in making their investment decision. For analyst certification and other important disclosures, refer to the Disclosure Section, located at the end of this report.

April 6, 2010

Greg Peters

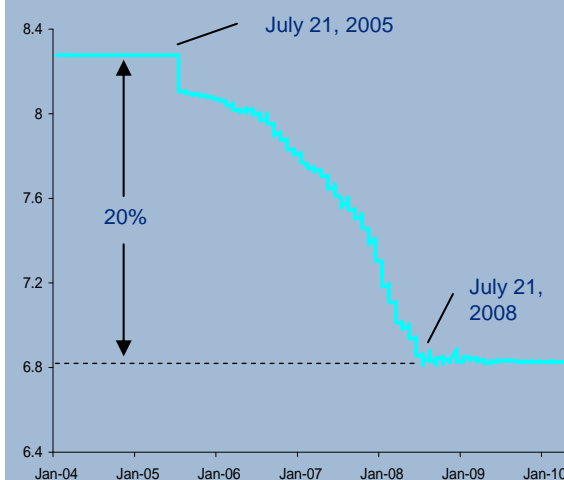
Greg.Peters@morganstanley.com

+1 212 761-1488

Morgan Stanley & Co. Incorporated

Global Cross-Asset Strategy

Exhibit 1: USD/CNY historical spot rate

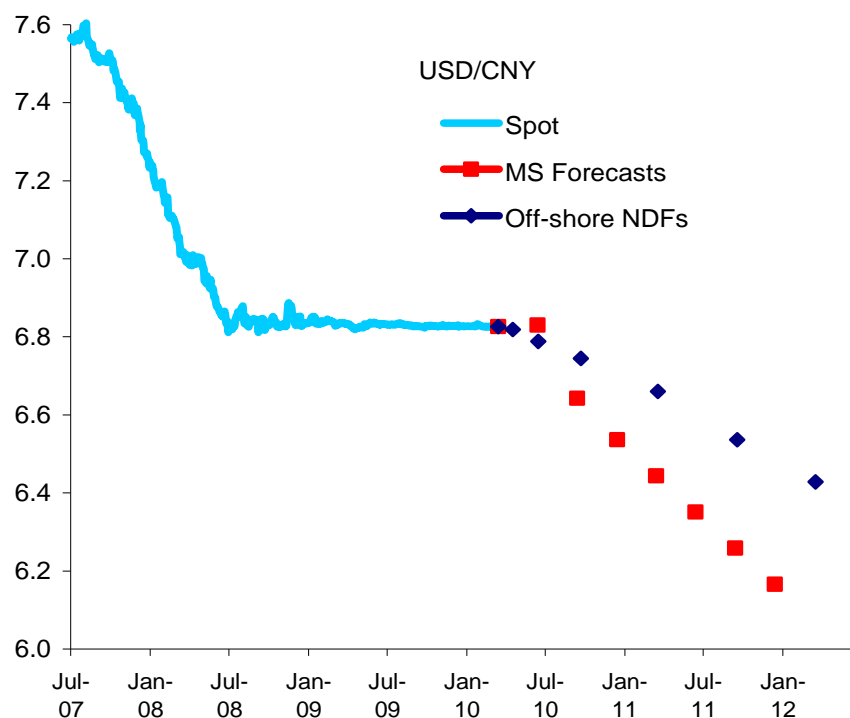


Source: Bloomberg, Morgan Stanley Research

What the market expects vs. what's likely

The revaluation priced in the market appears too low. Our China economist Qing Wang expects the revaluation to start in July, with an appreciation from the current 6.825 to 6.54 by year end and 6.17 by the end of 2011 (Exhibit 2, see [Renminbi Exit from USD Peg: Whether, Why, When, How](#), April 5, 2010). By comparison, the non-deliverable forward rates for USD/RMB imply less appreciation. Technical factors account for some of the difference, and anecdotes from China suggest that many business people expect a revaluation of at least a few percent by the summer. But this possibility is less appreciated by global investors.

Exhibit 2: USD/CNY spot, forecast, and market-implied through 2011



Source: Bloomberg, Morgan Stanley Research

The market is too focused on the likelihood of China being named a currency manipulator. Escalating statements throughout March by US and Chinese officials raised concerns that the US Treasury would designate China a currency manipulator in its semiannual report to Congress on international economics. The prospect of elevated tensions—at worst a trade war—between the two countries had investors looking at the consequences of a manipulator designation and for ways to hedge this risk.

The risk of China being named a currency manipulator is quite low and the odds of a modest revalue happening fairly soon are rising. The phone conversation last week between Presidents Obama and Hu suggests that the probability of manipulator designation is actually very low and a de-peg of the CNY from the USD now appears highly likely to take place. Treasury Secretary Geithner's decision this past weekend to delay the publication of the currency report for a few months gives China time to move on the revaluation. While we expect a modest revaluation to occur in the summer after a series of high level meetings between China and the US, the prospect of a revaluation as soon as May is increasing.

The benefits of a revalue apply to both the real economy and risky assets. Aside from the obvious political benefit of avoiding a trade war with the US, de-pegging the CNY would help to rebalance the Chinese economy. It would also reduce the need to raise interest rates to combat inflation. The alternative—higher rates and a pegged currency—would be a negative for risky assets. Moving quickly to revalue removes policy and political uncertainty, a positive for asset values. Thus, “buy the hike” applies to the CNY revaluation.

Why an orderly revaluation makes the most sense

Political considerations are as important as economic fundamentals in the revaluation decision

- China's major trading partners consider the CNY undervalued and its hard peg against the USD a symbol of a “mercantilist bias” in China's foreign trade policy.
- While Chinese authorities have made a strong case for the *status quo*, they also recognize that allowing at least a modest revaluation reduces the risk of trade protection measures from major trading partners.
- The revaluation size and timing must balance two political constituencies: trading partners who expect a meaningful gesture and domestic policymakers who strongly oppose CNY appreciation for fear of its negative impact on exporters.
- Data over the next few months showing that China's Y-o-Y export growth is in the low to mid-teens would help to build internal consensus for a modest revaluation.

Economic fundamentals also justify a revaluation

- The CNY exchange rate is fundamentally undervalued—estimates range from 10-40% undervaluation—and should appreciate over the medium term.
- Headline CPI inflation rate could climb to over 4% by mid-year. CNY revaluation could help contain “imported” inflationary pressures stemming from the rapid increase in commodity prices. This could reduce the need to hike interest rates to contain domestic inflation pressures.
- A stronger CNY helps to rebalance the economy away from an over-reliance on external trade as a growth driver toward more domestic-demand, non-tradable-sector-driven growth.
- Allowing the CNY to appreciate now should help China eventually move toward a more flexible exchange rate arrangement, which is a prerequisite for an independent monetary policy.

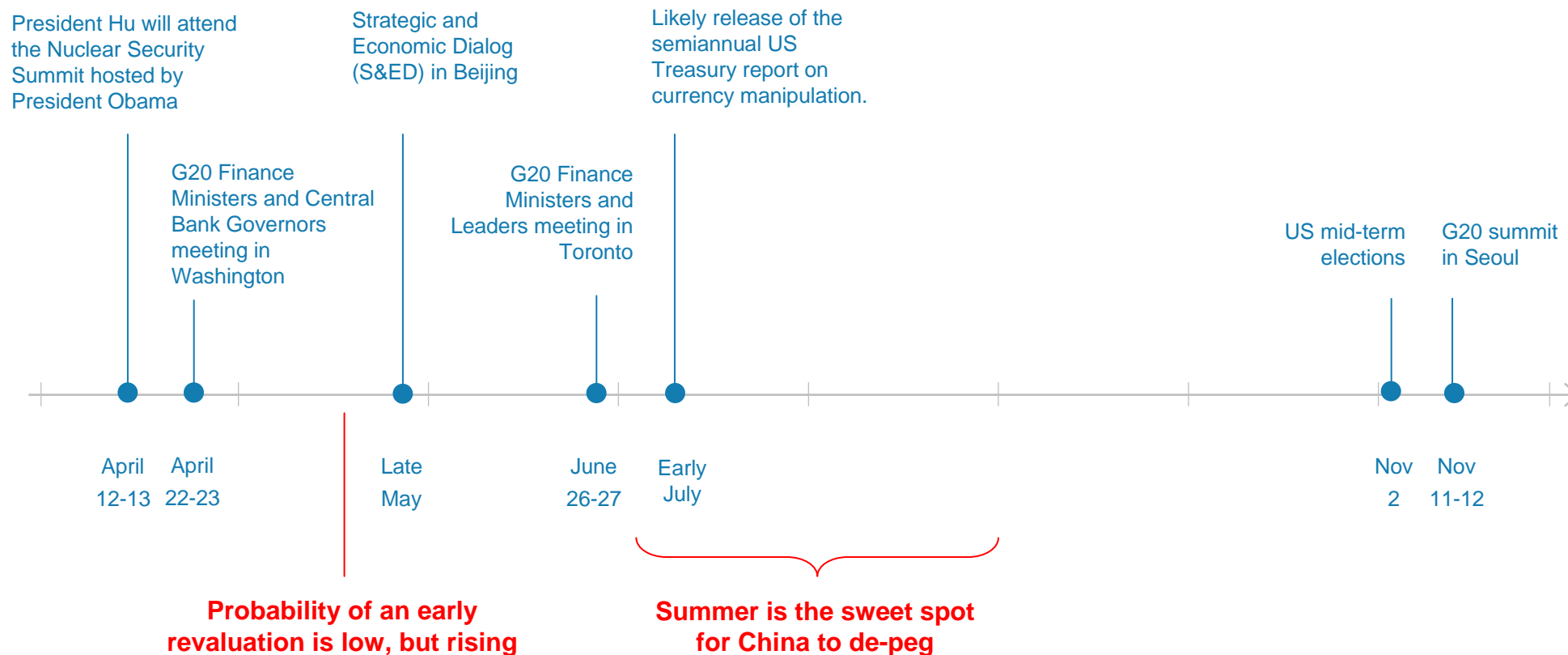
Political event calendar suggests mid-summer revaluation

Political considerations will drive the revaluation timing

- With elevated political tensions between the US and China, the message conveyed by a revaluation to domestic constituencies will be a major determinant of when and how much of a revalue occurs.
- A mid-summer revaluation is most plausible to use, but a move prior to that is becoming more likely as it would mitigate potentially increasing US political pressure, especially from Congress.

The “win-win” strategy of a mid-summer revaluation makes it most likely:

- A successful series of meetings between Chinese and US officials and no “currency manipulation” designation from US treasury.
- The Obama administration could claim credit in the run-up to the mid-term election in November.
- The Chinese government could demonstrate global cooperation in the run-up to the G20 summit in November.



Possible revaluation scenarios entail different risks

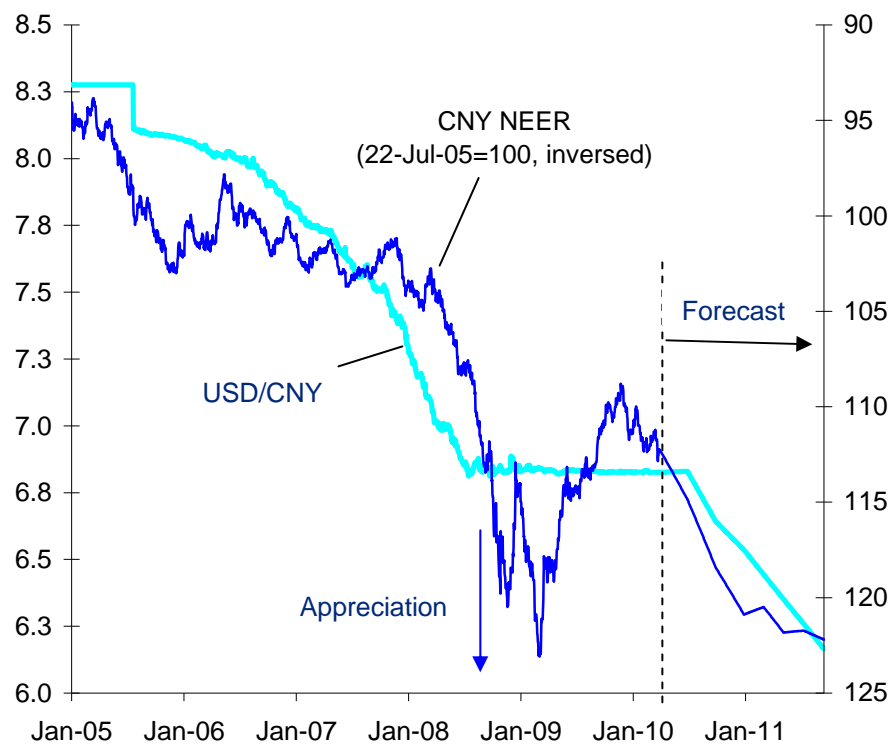
Scenarios for Revaluation

	Description	Risks
Adjust and crawl probability 80%	<p>An initial one-time revaluation of 2-3% versus the USD in the summer followed by gradual appreciation—total cumulative appreciation versus the USD by year end is 4-5%</p> <ul style="list-style-type: none"> The initial revaluation of 2-3% could involve a high-profile announcement or alternatively the spot rate could simply be allowed to appreciate in the weeks immediately after exiting the peg without any announcement Instead of an initial adjustment, the CNY may just begin to gradually crawl higher, with the same cumulative total by year end 	<ul style="list-style-type: none"> A small initial adjustment, or the absence of one, could attract hot money inflows as investors expect continued CNY appreciation—fueling asset price inflation Any adjustment ideally needs to create a two-way risk market; that is, the upside and downside risks to the CNY are more symmetric A small or gradual adjustment may be viewed as insufficient by US officials, thereby failing to reduce protectionism risk
Passive to TWI 10%	<p>On a trade-weighted basis, CNY continues to appreciate as the euro and other major currencies weaken; there is no one-time revaluation, with a maximum of 1% appreciation vs. the USD by year end</p>	<ul style="list-style-type: none"> The lack of any active appreciation increases the risk of trade frictions with the US
Big one off 9-10%	<p>A large one-time revaluation of 10-15% versus the USD, but no change in capital controls</p>	<ul style="list-style-type: none"> An unexpected large revaluation could hurt exporters, and consequently the domestic economy
Free float <1%	<p>Free float, including the abolition of capital controls</p>	<ul style="list-style-type: none"> The CNY may overshoot on the downside; such an unexpected move could create additional policy uncertainty

Passive revaluation and smaller trade surplus may limit RMB action

On a trade-weighted basis, the CNY has already begun to passively appreciate... (Exhibit 3). Active revaluation amplifies this passive appreciation against the trade-weighted index. Our China economist Qing Wang expects the nominal effective exchange rate (NEER) for the CNY to continue to appreciate, roughly in line with the appreciation relative to the USD.

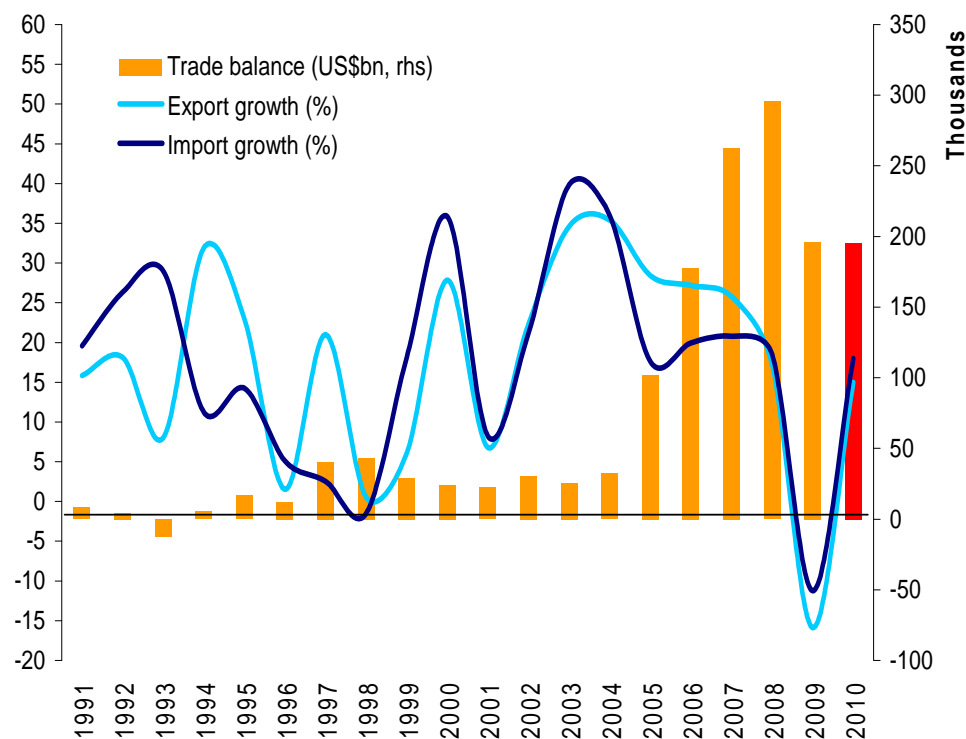
Exhibit 3: CNY NEER has tracked the USD/CNY rate



Source: CEIC, Morgan Stanley Research forecasts

...and any corresponding shrinkage in the trade surplus could alleviate some pressure to revalue the CNY. With imports growing faster than exports (Exhibit 4), our forecast is for China's trade surplus to fall to 2.9% of GDP in 2011. Some Chinese officials may point to this development to argue for limited revaluation.

Exhibit 4: High import growth is moderating China's trade surplus



Source: CEIC, Morgan Stanley Research forecasts

Revaluation implications for risky assets are asymmetric

A revaluation will benefit specific asset classes, but leaving the peg unchanged would negatively impact risky assets generally.

A revaluation would help extend the rally in risky assets because it would underscore China's commitment to its G20 rebalancing responsibilities and could allow the PBoC to tighten less aggressively. In contrast, were Chinese officials to balk at adjusting the currency, it could heighten trade tensions and might require more tightening.

Equities

- Positive for Chinese equities, provided the revaluation is moderate
- Good for AXJ ex-China equities, as investors will look to play the trade through almost all the currencies in the region
- Positive for US equities with a producer perspective – industrials, construction, machinery, and healthcare equipment – and potential negative for consumer-focused stocks in retail, apparel, and footwear

Rates

- A slower accumulation of Chinese reserves would reduce the demand for US Treasuries, mainly of shorter-term maturities, leading to curve flattening

Implications across asset classes

- Commodity prices should respond positively, if modestly, even if Chinese exports are somewhat impaired as domestic use is more intensive
- Commodities should benefit indirectly from a more sustainable China, as it was responsible for nearly all of the demand growth in aluminum, copper, zinc, and cotton from 2003 to 2008

Commodities

- AXJ currencies that track the CNY and have large current-account surpluses stand to benefit as CNY proxies
- CNY appreciation should result in a slower accumulation of FX reserves by China, removing a key pillar of support for EUR

FX

Chinese equities have the most to gain from a revalue

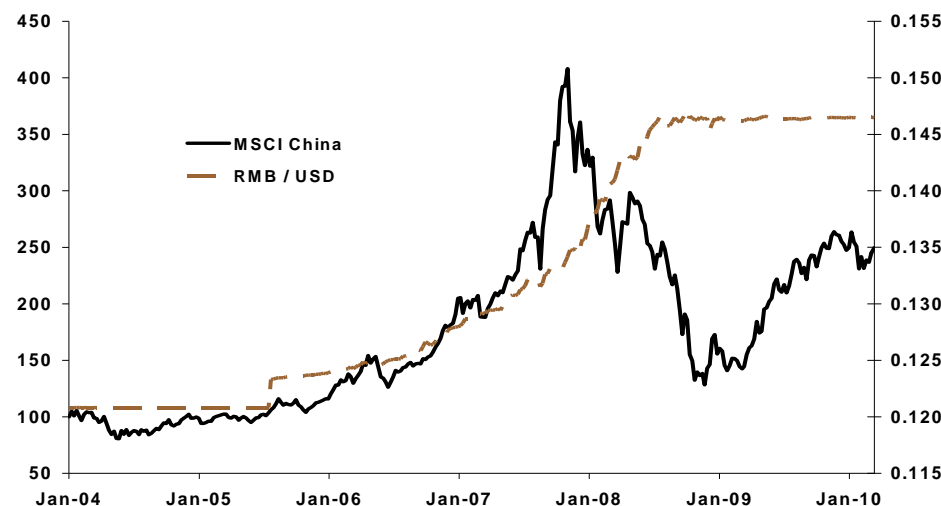
thesis

- EM markets reacted very positively to the start of the last revaluation in 2005, continuing through to 2008.
- Beginning the week of the initial revaluation, MSCI China traded up 13% one month thereafter, the MSCI EM was up 7%, and MSCI World (i.e., DM) was up 3% (all USD terms). Prior to that revaluation, the Chinese and EM markets had been moving sideways (Exhibit 5).
- Our China Strategist Jerry Lou believes a revaluation is positive for Chinese equities provided it is moderate and does not fundamentally hurt Chinese exporters. The expectation of further appreciation could also be positive for equities (Exhibit 6, for more details see [A Revisit to RMB Reval's Market Implications](#), March 18, 2010).
- But an unexpectedly large revalue will likely trigger some immediate profit-taking and capital outflows, causing a short-lived market correction.

trade idea

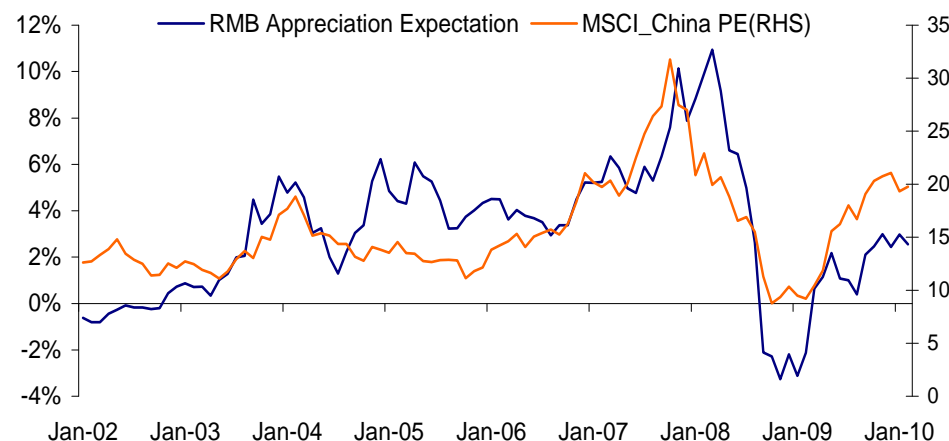
- Sectors that stand to benefit the most include airlines, oil refiners, and steel makers, while on the downside are mostly exporters and those with *de facto* dollar-pegged revenue, such as nonferrous refiners.
- Companies with assets in CNY financed by foreign debt would benefit from a revaluation, and vice versa. Potential beneficiaries could be property developers that have sizable land banks financed by HKD debt and airlines that have large foreign currency debt obligations.

Exhibit 5: MSCI performance (US\$)



Source: FactSet, Morgan Stanley Research

Exhibit 6: CNY appreciation expectation correlates with market valuation



Source: CEIC, FactSet, Morgan Stanley Research

AXJ currencies stand to benefit the most

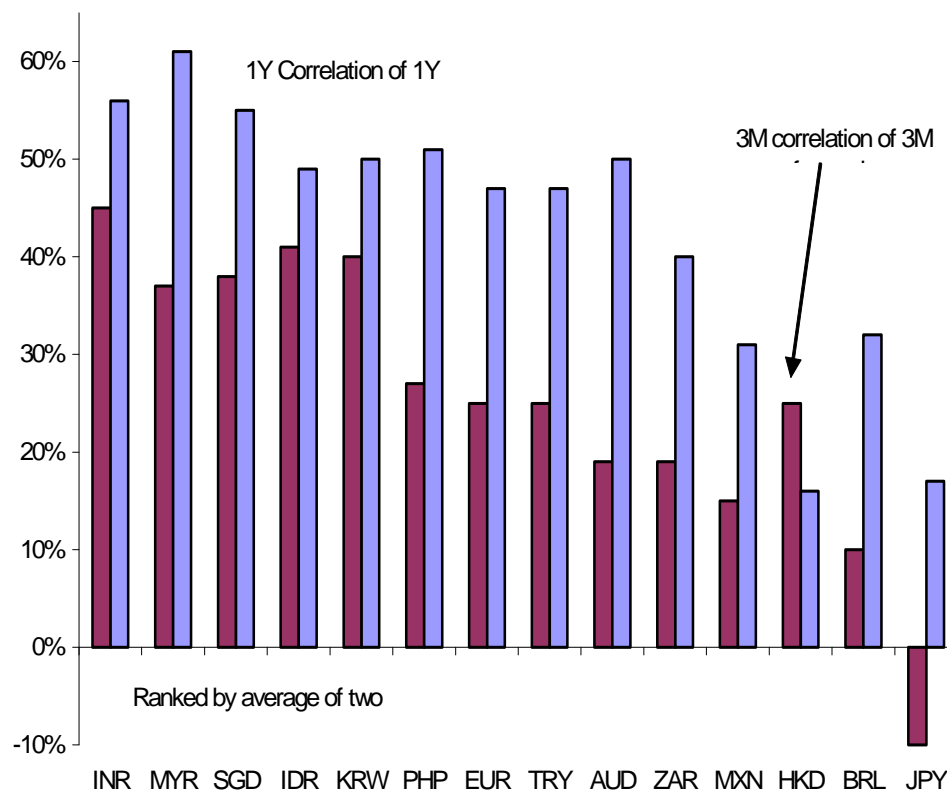
thesis

- Should China revalue its currency in the near future, we believe there is better value in owning CNY proxies.
- Short USD/MYR is our favorite trade as Malaysia's fundamental backdrop is simultaneously improving as its central bank engages in pre-emptive tightening. These dual pillars of support should underpin MYR in our view.
- MYR and CNY correlation is not only high, but is also rising (Exhibit 7). 1-year correlation between MYR and CNY forwards has breached 60%.
- MYR vols are roughly in line with longer-term averages and among the lowest in the AXJ space, making USD/MYR puts attractive.

trade idea

- Buy a 6M ATMS MYR Call USD Put (3.2150 spot reference) with a topside MYR3.28 knockout. This structure takes advantage of the forward MYR discount.
- Structure costs 1.17% of notional. The option has unlimited profit potential with investor risk restricted to the up-front premium.

Exhibit 7: Correlations with the CNY and various currencies have fallen



Source: Bloomberg, Morgan Stanley Research

CNY appreciation leads to FX rebalancing: sell EUR

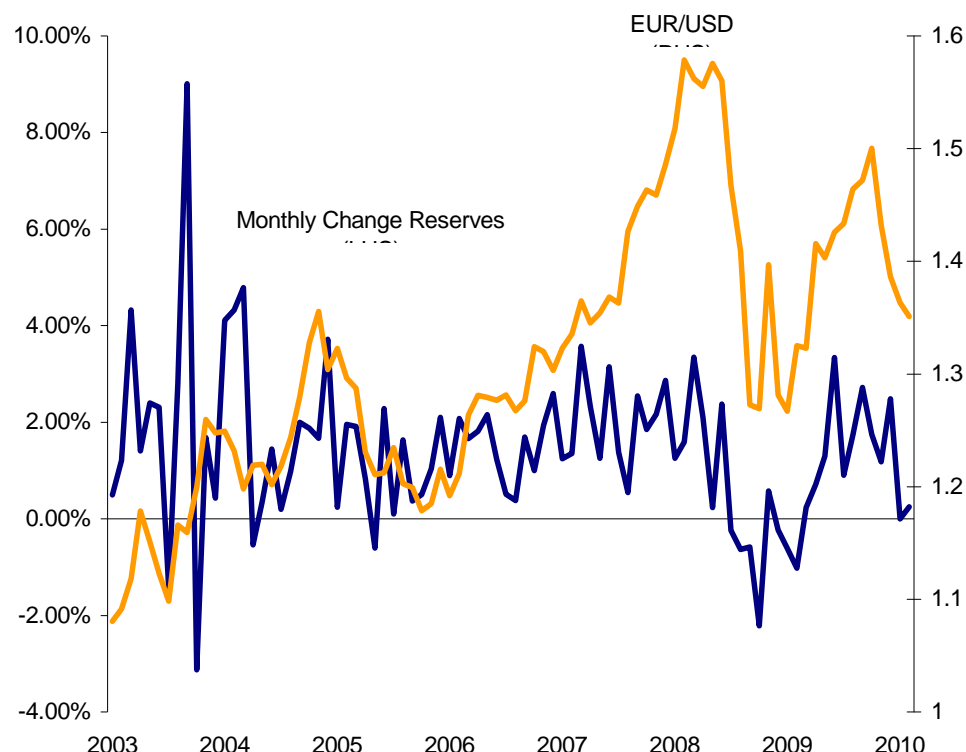
thesis

- Allowing more RMB appreciation should result in a slower accumulation of FX reserves by China. This should take away a key pillar of support for EUR.
- EUR has disproportionately benefitted from reserve flows as official institutions look to diversify their holdings (Exhibit 8). EUR offers the second most liquid investment market after the USD.
- The RMB peg has created valuation distortions in global currency markets as some floating exchange rates have absorbed a disproportionate amount of USD weakness. If RMB is allowed to appreciate versus USD, currencies that are overvalued are likely to move back toward fair value, such as EUR.

trade idea

- Sell EUR/USD (current spot at 1.35) with a stop at 1.3850 and a target at 1.24
- This trade offers a nearly 4:1 reward to risk ratio

Exhibit 8: Demand for EUR reserves has been correlated with its value



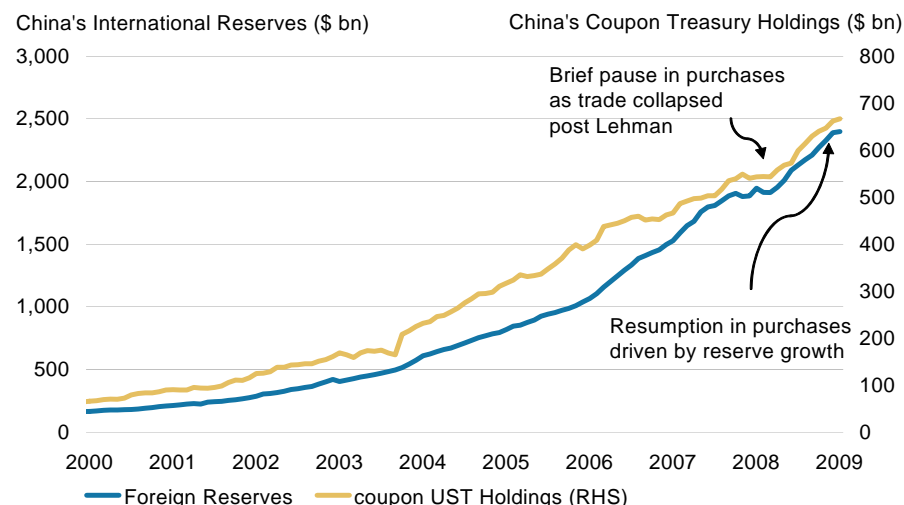
Source: Bloomberg, Morgan Stanley Research

Rates at the front end of the curve most susceptible to a revaluation

thesis

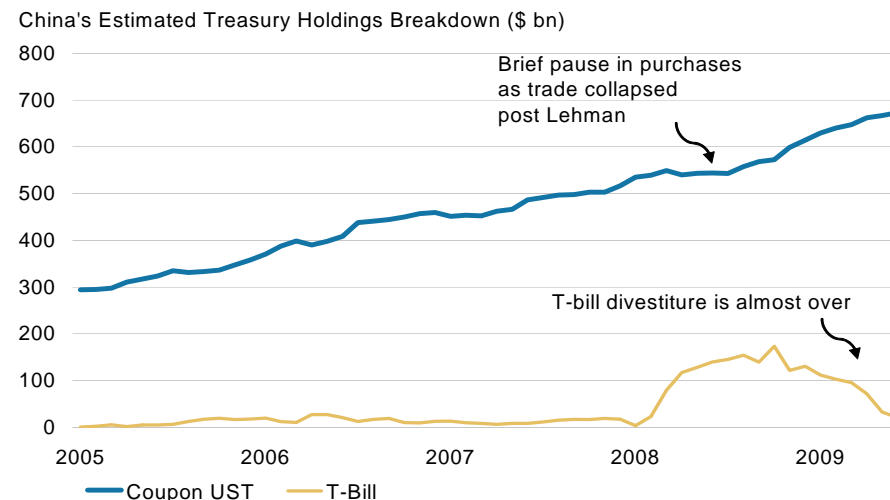
- Foreign central bank demand is often inelastic, and is essentially determined by the amount of trade and the associated trade gap the US experiences with the world.
- A lower USD/RMB will reduce the accumulation of USD reserves by the PBoC, and thus their holdings of US Treasuries (Exhibit 9).
- Post Lehman, China accommodated the Treasury's heavy T-Bill issuance. After peaking in May 2009, China's T-Bill holdings have reversed most of the increase (Exhibit 10).
- The likely sell-off in Treasuries would be led mainly by shorter-term maturities, as the Chinese have primarily been buying in the front end of the curve. This would lead to curve flattening.

Exhibit 9: China UST accumulation driven by reserve growth



Source: Treasury, Morgan Stanley Research

Exhibit 10: Breaking down China's Treasury holdings



Source: Treasury, Morgan Stanley Research

Commodities will benefit from a revaluation, primarily indirectly

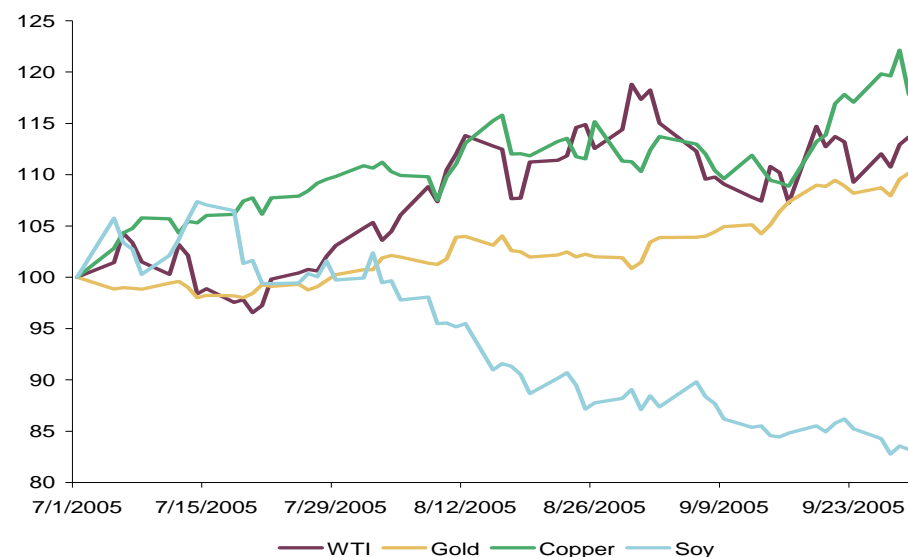
thesis

- An upward revaluation of the RMB will be mildly constructive for commodities, in our view, with those in which China is a big importer benefitting the most.
- However, we do not anticipate commodity prices to respond significantly if the revaluation is modest.
- Instead, we expect underlying global supply and demand fundamentals to have the biggest influence on price, as was the case in 2005 when China last revalued (Exhibit 11)—copper and oil continued to march higher as balances tightened, while bean prices eased, despite China's rank as the world's largest bean importer, as balances softened on increased production
- Over the medium term, a revaluation is likely to lead to a more sustainable China, and this should benefit commodity demand and prices—China has accounted for the entire increase in global demand in some commodities over '03-'08 (Exhibit 12).

trade idea

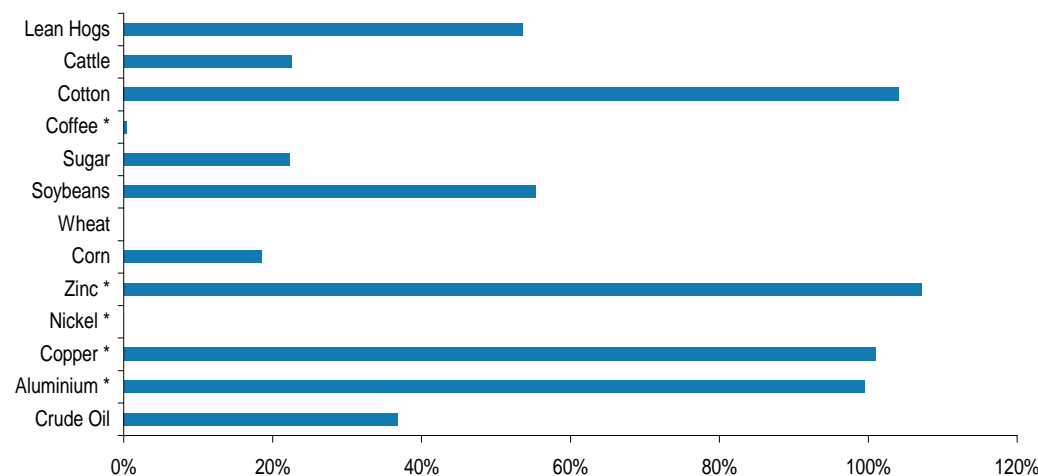
- Given our constructive view on energy, specifically crude oil, we would add to our deferred exposure (Dec 11 WTI) directly or via options, a position that we believe stands to gain from a stronger RMB.

Exhibit 11: Major commodity prices around the first RMB revaluation



Source: Bloomberg

Exhibit 12: China's contribution to commodity demand growth '03-'08



Source: IEA, USDA, and CRU

Disclosure Section

The information and opinions in Morgan Stanley Research were prepared by Morgan Stanley & Co. Incorporated, and/or Morgan Stanley C.T.V.M. S.A. and their affiliates (collectively, "Morgan Stanley").

For important disclosures, stock price charts and equity rating histories regarding companies that are the subject of this report, please see the Morgan Stanley Research Disclosure Website at www.morganstanley.com/researchdisclosures, or contact your investment representative or Morgan Stanley Research at 1585 Broadway, (Attention: Research Management), New York, NY, 10036 USA.

Analyst Certification: The following analysts hereby certify that their views about the companies and their securities discussed in this report are accurately expressed and that they have not received and will not receive direct or indirect compensation in exchange for expressing specific recommendations or views in this report: Greg Peters.

Unless otherwise stated, the individuals listed on the cover page of this report are research analysts.

Global Research Conflict Management Policy

Morgan Stanley Research has been published in accordance with our conflict management policy, which is available at www.morganstanley.com/institutional/research/conflictolicies.

Important US Regulatory Disclosures on Subject Companies

The equity research analysts or strategists principally responsible for the preparation of Morgan Stanley Research have received compensation based upon various factors, including quality of research, investor client feedback, stock picking, competitive factors, firm revenues and overall investment banking revenues.

The fixed income research analysts or strategists principally responsible for the preparation of Morgan Stanley Research have received compensation based upon various factors, including quality, accuracy and value of research, firm profitability or revenues (which include fixed income trading and capital markets profitability or revenues), client feedback and competitive factors. Fixed Income Research analysts' or strategists' compensation is not linked to investment banking or capital markets transactions performed by Morgan Stanley or the profitability or revenues of particular trading desks.

Morgan Stanley and its affiliates do business that relates to companies/instruments covered in Morgan Stanley Research, including market making, providing liquidity and specialized trading, risk arbitrage and other proprietary trading, fund management, commercial banking, extension of credit, investment services and investment banking. Morgan Stanley sells to and buys from customers the securities/instruments of companies covered in Morgan Stanley Research on a principal basis. Morgan Stanley may have a position in the debt of the Company or instruments discussed in this report.

Certain disclosures listed above are also for compliance with applicable regulations in non-US jurisdictions.

STOCK RATINGS

Morgan Stanley uses a relative rating system using terms such as Overweight, Equal-weight, Not-Rated or Underweight (see definitions below). Morgan Stanley does not assign ratings of Buy, Hold or Sell to the stocks we cover. Overweight, Equal-weight, Not-Rated and Underweight are not the equivalent of buy, hold and sell. Investors should carefully read the definitions of all ratings used in Morgan Stanley Research. In addition, since Morgan Stanley Research contains more complete information concerning the analyst's views, investors should carefully read Morgan Stanley Research, in its entirety, and not infer the contents from the rating alone. In any case, ratings (or research) should not be used or relied upon as investment advice. An investor's decision to buy or sell a stock should depend on individual circumstances (such as the investor's existing holdings) and other considerations.

Global Stock Ratings Distribution (as of March 31, 2010)

For disclosure purposes only (in accordance with NASD and NYSE requirements), we include the category headings of Buy, Hold, and Sell alongside our ratings of Overweight, Equal-weight, Not-Rated and Underweight. Morgan Stanley does not assign ratings of Buy, Hold or Sell to the stocks we cover. Overweight, Equal-weight, Not-Rated and Underweight are not the equivalent of buy, hold, and sell but represent recommended relative weightings (see definitions below). To satisfy regulatory requirements, we correspond Overweight, our most positive stock rating, with a buy recommendation; we correspond Equal-weight and Not-Rated to hold and Underweight to sell recommendations, respectively.

Disclosure Section (Cont.)

Stock Rating Category	Coverage Universe		Investment Banking Clients (IBC)		
	Count	% of Total	Count	% of Total IBC	% of Rating Category
Overweight/Buy	1042	41%	325	43%	31%
Equal-weight/Hold	1095	43%	348	46%	32%
Not-Rated/Hold	15	1%	4	1%	27%
Underweight/Sell	373	15%	87	11%	23%
Total	2,525		764		

Data include common stock and ADRs currently assigned ratings. An investor's decision to buy or sell a stock should depend on individual circumstances (such as the investor's existing holdings) and other considerations. Investment Banking Clients are companies from whom Morgan Stanley or an affiliate received investment banking compensation in the last 12 months.

Analyst Stock Ratings

Overweight (O). The stock's total return is expected to exceed the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Equal-weight (E). The stock's total return is expected to be in line with the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Not-Rated (NR). Currently the analyst does not have adequate conviction about the stock's total return relative to the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Underweight (U). The stock's total return is expected to be below the average total return of the analyst's industry (or industry team's) coverage universe, on a risk-adjusted basis, over the next 12-18 months.

Unless otherwise specified, the time frame for price targets included in Morgan Stanley Research is 12 to 18 months.

Analyst Industry Views

Attractive (A): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be attractive vs. the relevant broad market benchmark, as indicated below.

In-Line (I): The analyst expects the performance of his or her industry coverage universe over the next 12-18 months to be in line with the relevant broad market benchmark, as indicated below.

Cautious (C): The analyst views the performance of his or her industry coverage universe over the next 12-18 months with caution vs. the relevant broad market benchmark, as indicated below.

Benchmarks for each region are as follows: North America - S&P 500; Latin America - relevant MSCI country index or MSCI Latin America Index; Europe - MSCI Europe; Japan - TOPIX; Asia - relevant MSCI country index.

Important Disclosures for Morgan Stanley Smith Barney LLC Customers

Citi Investment Research & Analysis (CIRA) research reports may be available about the companies or topics that are the subject of Morgan Stanley Research. Ask your Financial Advisor or use Research Center to view any available CIRA research reports in addition to Morgan Stanley research reports.

Important disclosures regarding the relationship between the companies that are the subject of Morgan Stanley Research and Morgan Stanley Smith Barney LLC, Morgan Stanley and Citigroup Global Markets Inc. or any of their affiliates, are available on the Morgan Stanley Smith Barney disclosure website at www.morganstanleysmithbarney.com/researchdisclosures.

Disclosure Section (Cont.)

For Morgan Stanley and Citigroup Global Markets, Inc. specific disclosures, you may refer to www.morganstanley.com/researchdisclosures and https://www.citigroupgeo.com/geopublic/Disclosures/index_a.html.

Each Morgan Stanley Equity Research report is reviewed and approved on behalf of Morgan Stanley Smith Barney LLC. This review and approval is conducted by the same person who reviews the Equity Research report on behalf of Morgan Stanley. This could create a conflict of interest.

Other Important Disclosures

Morgan Stanley produces an equity research product called a "Tactical Idea." Views contained in a "Tactical Idea" on a particular stock may be contrary to the recommendations or views expressed in research on the same stock. This may be the result of differing time horizons, methodologies, market events, or other factors. For all research available on a particular stock, please contact your sales representative or go to Client Link at www.morganstanley.com.

For a discussion, if applicable, of the valuation methods and the risks related to any price targets, please refer to the latest relevant published research on these stocks.

Morgan Stanley Research does not provide individually tailored investment advice. Morgan Stanley Research has been prepared without regard to the individual financial circumstances and objectives of persons who receive it. Morgan Stanley recommends that investors independently evaluate particular investments and strategies, and encourages investors to seek the advice of a financial adviser. The appropriateness of a particular investment or strategy will depend on an investor's individual circumstances and objectives. The securities, instruments, or strategies discussed in Morgan Stanley Research may not be suitable for all investors, and certain investors may not be eligible to purchase or participate in some or all of them.

Morgan Stanley Research is not an offer to buy or sell or the solicitation of an offer to buy or sell any security/instrument or to participate in any particular trading strategy. The "Important US Regulatory Disclosures on Subject Companies" section in Morgan Stanley Research lists all companies mentioned where Morgan Stanley owns 1% or more of a class of common equity securities of the companies. For all other companies mentioned in Morgan Stanley Research, Morgan Stanley may have an investment of less than 1% in securities/instruments or derivatives of securities/instruments of companies and may trade them in ways different from those discussed in Morgan Stanley Research. Employees of Morgan Stanley not involved in the preparation of Morgan Stanley Research may have investments in securities/instruments or derivatives of securities/instruments of companies mentioned and may trade them in ways different from those discussed in Morgan Stanley Research. Derivatives may be issued by Morgan Stanley or associated persons.

With the exception of information regarding Morgan Stanley, Morgan Stanley Research is based on public information. Morgan Stanley makes every effort to use reliable, comprehensive information, but we make no representation that it is accurate or complete. We have no obligation to tell you when opinions or information in Morgan Stanley Research change apart from when we intend to discontinue equity research coverage of a subject company. Facts and views presented in Morgan Stanley Research have not been reviewed by, and may not reflect information known to, professionals in other Morgan Stanley business areas, including investment banking personnel.

Morgan Stanley Research personnel conduct site visits from time to time but are prohibited from accepting payment or reimbursement by the company of travel expenses for such visits.

The value of and income from your investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities/instruments prices, market indexes, operational or financial conditions of companies or other factors. There may be time limitations on the exercise of options or other rights in securities/instruments transactions. Past performance is not necessarily a guide to future performance. Estimates of future performance are based on assumptions that may not be realized. If provided, and unless otherwise stated, the closing price on the cover page is that of the primary exchange for the subject company's securities/instruments.

Morgan Stanley may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report.

To our readers in Taiwan: Information on securities/instruments that trade in Taiwan is distributed by Morgan Stanley Taiwan Limited ("MSTL"). Such information is for your reference only. Information on any securities/instruments issued by a company owned by the government of or incorporated in the PRC and listed in on the Stock Exchange of Hong Kong ("SEHK"), namely the H-shares, including the component company stocks of the Stock Exchange of Hong Kong ("SEHK")'s Hang Seng China Enterprise Index; or any securities/instruments issued by a company that is 30% or more directly- or indirectly-owned by the government of or a company incorporated in the PRC and traded on an exchange in Hong Kong or Macau, namely SEHK's Red Chip shares, including the component company of the SEHK's China-affiliated Corp Index is distributed only to Taiwan Securities Investment Trust Enterprises ("SITE"). The reader should independently evaluate the investment risks and is solely responsible for their investment decisions. Morgan Stanley Research may not be distributed to the public media or quoted or used by the public media without the express written consent of Morgan Stanley. Information on securities/instruments that do not trade in Taiwan is for informational purposes only and is not to be construed as a recommendation or a solicitation to trade in such securities/instruments. MSTL may not execute transactions for clients in these securities/instruments.

Disclosure Section (Cont.)

To our readers in Hong Kong: Information is distributed in Hong Kong by and on behalf of, and is attributable to, Morgan Stanley Asia Limited as part of its regulated activities in Hong Kong. If you have any queries concerning Morgan Stanley Research, please contact our Hong Kong sales representatives.

Morgan Stanley Research is disseminated in Japan by Morgan Stanley Japan Securities Co., Ltd.; in Hong Kong by Morgan Stanley Asia Limited (which accepts responsibility for its contents); in Singapore by Morgan Stanley Asia (Singapore) Pte. (Registration number 199206298Z) and/or Morgan Stanley Asia (Singapore) Securities Pte Ltd (Registration number 200008434H), regulated by the Monetary Authority of Singapore, which accepts responsibility for its contents; in Australia to "wholesale clients" within the meaning of the Australian Corporations Act by Morgan Stanley Australia Limited A.B.N. 67 003 734 576, holder of Australian financial services license No. 233742, which accepts responsibility for its contents; in Australia to "wholesale clients" and "retail clients" within the meaning of the Australian Corporations Act by Morgan Stanley Smith Barney Australia Pty Ltd (A.B.N. 19 009 145 555, holder of Australian financial services license No. 240813, which accepts responsibility for its contents; in Korea by Morgan Stanley & Co International plc, Seoul Branch; in India by Morgan Stanley India Company Private Limited; in Canada by Morgan Stanley Canada Limited, which has approved of, and has agreed to take responsibility for, the contents of Morgan Stanley Research in Canada; in Germany by Morgan Stanley Bank AG, Frankfurt am Main and Morgan Stanley Private Wealth Management Limited, Niederlassung Deutschland, regulated by Bundesanstalt fuer Finanzdienstleistungsaufsicht (BaFin); in Spain by Morgan Stanley, S.V., S.A., a Morgan Stanley group company, which is supervised by the Spanish Securities Markets Commission (CNMV) and states that Morgan Stanley Research has been written and distributed in accordance with the rules of conduct applicable to financial research as established under Spanish regulations; in the United States by Morgan Stanley & Co. Incorporated, which accepts responsibility for its contents. Morgan Stanley & Co. International plc, authorized and regulated by the Financial Services Authority, disseminates in the UK research that it has prepared, and approves solely for the purposes of section 21 of the Financial Services and Markets Act 2000, research which has been prepared by any of its affiliates. Morgan Stanley Private Wealth Management Limited, authorized and regulated by the Financial Services Authority, also disseminates Morgan Stanley Research in the UK. Private U.K. investors should obtain the advice of their Morgan Stanley & Co. International plc or Morgan Stanley Private Wealth Management representative about the investments concerned. RMB Morgan Stanley (Proprietary) Limited is a member of the JSE Limited and regulated by the Financial Services Board in South Africa. RMB Morgan Stanley (Proprietary) Limited is a joint venture owned equally by Morgan Stanley International Holdings Inc. and RMB Investment Advisory (Proprietary) Limited, which is wholly owned by FirstRand Limited.

The information in Morgan Stanley Research is being communicated by Morgan Stanley & Co. International plc (DIFC Branch), regulated by the Dubai Financial Services Authority (the DFSA), and is directed at Professional Clients only, as defined by the DFSA. The financial products or financial services to which this research relates will only be made available to a customer who we are satisfied meets the regulatory criteria to be a Professional Client.

The information in Morgan Stanley Research is being communicated by Morgan Stanley & Co. International plc (QFC Branch), regulated by the Qatar Financial Centre Regulatory Authority (the QFCRA), and is directed at business customers and market counterparties only and is not intended for Retail Customers as defined by the QFCRA.

As required by the Capital Markets Board of Turkey, investment information, comments and recommendations stated here, are not within the scope of investment advisory activity. Investment advisory service is provided in accordance with a contract of engagement on investment advisory concluded between brokerage houses, portfolio management companies, non-deposit banks and clients. Comments and recommendations stated here rely on the individual opinions of the ones providing these comments and recommendations. These opinions may not fit to your financial status, risk and return preferences. For this reason, to make an investment decision by relying solely to this information stated here may not bring about outcomes that fit your expectations.

The trademarks and service marks contained in Morgan Stanley Research are the property of their respective owners. Third-party data providers make no warranties or representations of any kind relating to the accuracy, completeness, or timeliness of the data they provide and shall not have liability for any damages of any kind relating to such data. The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property of MSCI and S&P.

Morgan Stanley Research, or any portion thereof may not be reprinted, sold or redistributed without the written consent of Morgan Stanley.

Morgan Stanley Research is disseminated and available primarily electronically, and, in some cases, in printed form.

Additional information on recommended securities/instruments is available on request.

04-06-10 sm

The Americas
1585 Broadway
New York, NY 10036-8293
United States
Tel: +1 (1)212 761 4000

Europe
20 Bank Street, Canary Wharf
London E14 4AD
United Kingdom
Tel: +44 (0)20 7425 8000

Japan
4-20-3, Ebisu Shibuya-ku
Tokyo 150-6008
Japan
Tel: +81 (0)3 5424 5000

Asia/Pacific
International Commerce Center
1 Austin Road West
Kowloon, Hong Kong
Tel: +852 2848 5200