AEJ Quantitative outlook and investment strategies

Introducing revision-based and high dividend yield strategies



Equity Research



Equity Research, Asia ex-Japan

Equity Quantitative Strategies

Sandy Lee – NIHK +852 2252 2101 sandy.lee@nomura.com See Appendix A-1 for analyst certification, important disclosures and the status of non-US analysts.

Any authors named on this report are research analysts unless otherwise indicated.

May 2013

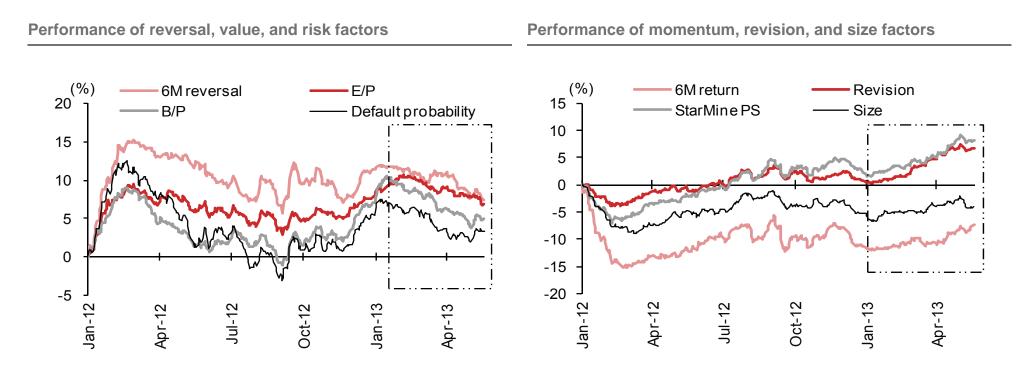
Quantitative outlook H2 2013: Focus on earnings prospect

- A distinct 'tale of two halves' in 2013 a largely constructive first half of better growth, supportive policies, and declining real interest rates, while inflation risk still likely to remain subdued. But policy challenges are building in the region in H2 as the financial cycle heats up, despite a fairly muted business cycle. China growth will likely slow through this year as policy tightens to control financial risks and property prices.
- From a style valuation viewpoint, we are still positive on risk style on a medium-term basis as high-risk stocks remain inexpensive on z-score. But notably dividend yield and value styles currently look relatively more expensive than the momentum, revision, and profitability styles.
- The phase of the earnings revision cycle is important for style selection. As we believe the Asia earnings expectations are unlikely to enter an expansion phase but could move sideways or slow through this year, we expect earnings revision-based investment strategies are likely to continue the positive momentum as we progress through 2013.

Introducing quantitative strategies:

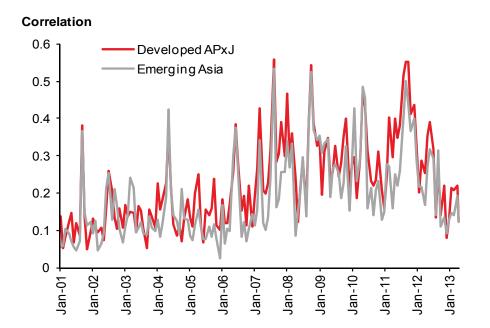
- A revision-based strategy the power of consensus change in Asia.
- High dividend yield strategy in a market rally excluding stocks that over-pay dividends is the key.

The performance of revision-related factors deteriorated in 4Q12 but has recovered since January. In contrast, high-risk and value stocks have underperformed since the latter half of January.



Note: Universe is based on MSCI AC Asia Pacific ex-Japan. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies Note: Universe is based on MSCI AC Asia Pacific ex-Japan. Source: Worldscope, I/B/E/S, StarMine, MSCI, Nomura Quantitative Strategies The latest stock and factor correlations are at much lower levels compared with 2H 2011 and 2012.

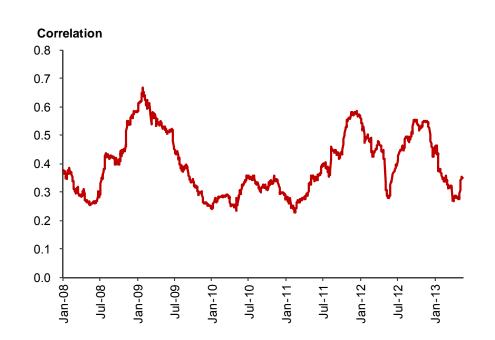
Average pair-wise stock correlation



Note: Average pair-wise correlation between all the stocks in the MSCI AC Asia Pacific ex Japan Index, based on daily prices over past one-month.

Source: Thomson Reuters Datastream, MSCI, Nomura Quantitative Strategies

Average correlation of quant factors



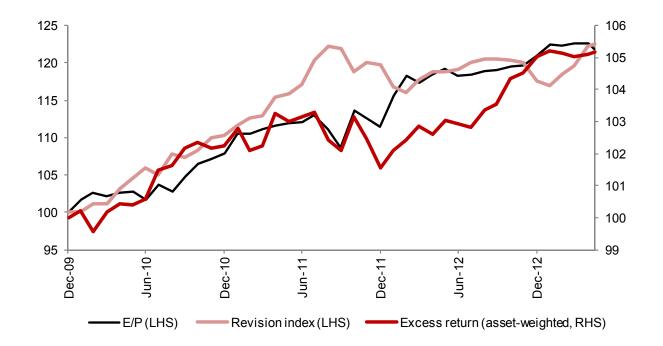
Note: Chart shows short-term (60-day) rolling average (absolute) correlation of returns for 12 typical quant factors. Factor performance is calculated by cumulating the return spread between group #1 and #3. Factor portfolios are rebalanced monthly with country diversification. Source: Worldscope, I/B/E/S, StarMIne, MSCI, Nomura Quantitative Strategies

NO/MURA

Gauging the state of the Asian quant investment industry

Asia long-only active equity quant funds outperformed their benchmarks in Q4 2012. Thus far in 2013, performance of these funds was in line with their benchmarks on asset-weighted basis.

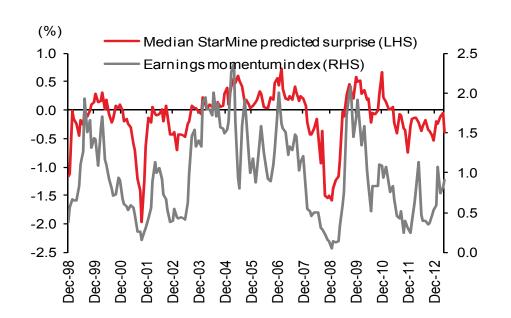
Asia-focused quant funds average excess performance versus EP and revision factor performance



Note: Chart shows the performance of 30 long-only active equity funds that primarily invest using quantitative approaches in Asia Pacific (excluding Japan and the domestic China) region. Data run to 30 April 2013. Source: Bloomberg, Nomura Quantitative Strategies

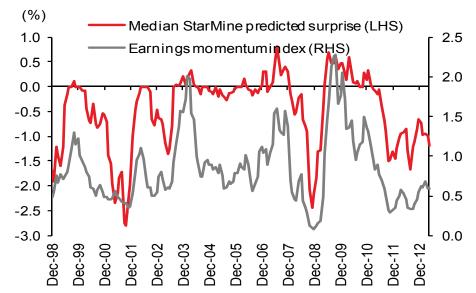
NO/MURA

Our Asia earnings momentum index is recovering since 4Q12, but the recent median StarMine predicted surprise scores remain negative and have seen a downturn, particularly in Asia emerging markets.



Asia EMI and StarMine predicted surprise – DM Asia

Asia EMI and StarMine predicted surprise – EM Asia



Note: Our earnings momentum index looks at the degree of the revision to consensus forecasts of FY2 EPS and assesses how the prevailing consensus estimate differs from the past threemonth average. The median StarMine predicted surprise (forward 12-month) is defined as the percentage difference between the SmartEstimates and consensus. Universe is based on MSCI constituents. Source: I/B/E/S, StarMine, MSCI, Nomura Quantitative Strategies Note: Our earnings momentum index looks at the degree of the revision to consensus forecasts of FY2 EPS and assesses how the prevailing consensus estimate differs from the past three-month average. The median StarMine predicted surprise (forward 12-month) is defined as the percentage difference between the SmartEstimates and consensus. Universe is based on MSCI constituents. Source: I/B/E/S, StarMine, MSCI, Nomura Quantitative Strategies

In an expansion phase, both price and earnings momentum styles resumed positive impact while value stocks (especially E/P) continued to bode well. In a slowdown phase, momentum styles dominated while profitability saw rising impact. In contrast, value factors underperformed.

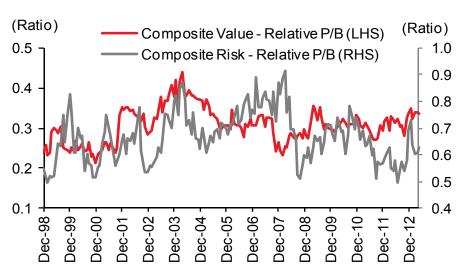
Average monthly style return (long-short) in different EMI phases

	Recovery	Expansion	Slowdown	Downturn
EMI Level	< 0	>= 0	>= 0	< 0
1st diff	>= 0	>= 0	< 0	< 0
Sample months	39	48	31	52

Average monthly style return in different EMI phases

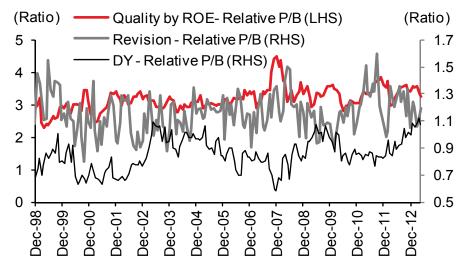
C	EMI phase	EMI phase and style return on the same month				EMI phase and subsequent month style return			
	Recovery	Expansion	Slowdown	Downturn	Recovery	Expansion	Slowdown	Downturn	
Size *	1.16	0.11	-0.51	0.06	1.04	-0.09	-0.35	0.21	
Momentum	-0.84	0.89	1.15	0.49	-0.66	0.78	1.34	0.33	
Yield	0.21	0.09	0.21	1.19	0.37	0.41	0.04	0.91	
Valuation	1.34	0.89	0.22	0.61	1.68	0.81	0.06	0.58	
E/P	0.93	0.88	0.31	0.57	1.44	0.88	0.18	0.34	
B/P	1.12	0.25	-0.30	0.18	0.93	0.21	-0.31	0.38	
Revision	0.47	0.76	0.75	0.67	0.43	0.60	0.74	0.87	
Growth	0.23	0.15	0.22	-0.37	0.29	0.00	0.05	-0.24	
Profitability	-0.30	0.40	0.71	-0.32	0.26	0.33	0.42	-0.48	
ROE	-0.44	0.27	0.75	0.19	0.05	0.35	0.43	-0.02	
Risk *	-0.77	-0.13	0.30	0.74	-0.63	0.44	-0.20	0.51	

Note: See Appendix II for style definition. Data run to end-March 2013. Shaded styles are top performers in the EMI cycle. Universe is based on MSCI AC Asia Pacific ex-Japan Index. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies We are still positive on risk style on a medium-term basis as high-risk stocks remain inexpensive on zscore. But notably dividend yield and value styles currently look relatively more expensive than the momentum, revision, and profitability styles.



Valuation of composite value and risk styles

Valuation of ROE, DY, and revision styles



Notes: Chart shows the relative median B/P between the top and bottom quintile portfolio by corresponding style. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

Relative P/B of top versus bottom quintiles by investment styles (z-scores)

_	Size*	Momentum	Div Yield	Valuation	Revision	Growth	Profitability	Risk
Current ratio	0.67	1.47	1.07	0.34	1.20	1.30	2.22	0.63
Long-term average	0.59	1.67	0.86	0.31	1.16	1.30	2.40	0.67
Standard deviations	0.10	0.31	0.12	0.04	0.14	0.17	0.24	0.09
Z-score	0.86	-0.63	1.81	0.69	0.26	-0.03	-0.74	-0.46

Note: See Appendix II for style definition. Long-term average is calculated since 1999. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

Notes: Chart shows the relative median B/P between the top and bottom quintile portfolio by corresponding style. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

The top three best-performing revision indicators in the region are earnings revision, change in consensus rating, and revision index. Among the leading factors, earnings revision and change in consensus rating indicators give the lowest factor return correlation.

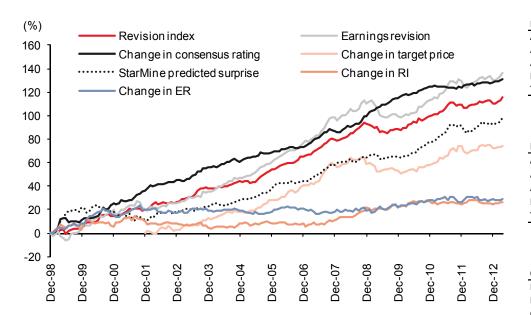
StarMine predicted surprise

Change in RI

Change in ER



Performance and correlation summary



			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted	Change in	Change in
Long-short performance	index	revision	rating	target price	surprise	RI	ER
Asia Pacific ex-Japan							
Annualised average return (%)	8.05	9.53	9.13	6.53	6.89	1.84	2.01
Annualised risk (%)	4.42	6.63	4.24	6.04	5.47	4.17	4.45
Information ratio	1.82	1.44	2.15	1.08	1.26	0.44	0.45
Turnover (1-way, L/S, %)	121	80	146	127	86	170	140
			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted	Change in	Change in
Long-only performance	index	revision	rating	target price	surprise	RI	ER
Asia Pacific ex-Japan							
Annualised excess return (%)	4.27	5.00	5.22	3.85	4.13	1.95	1.83
Annualised active risk (%)	3.03	3.54	2.51	3.31	3.06	2.64	2.74
Information ratio	1.41	1.41	2.08	1.16	1.35	0.74	0.67
Turnover (1-way long-only, %)	59	40	72	62	43	84	68
			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted	Change in	Change in
Correlation	index	revision	rating	target price	surprise	RI	ER
Revision index	1.00	0.57	0.13	0.45	0.37	0.34	0.10
Earnings revision	0.57	1.00	0.08	0.64	0.52	-0.04	0.04
Change in consensus rating	0.13	0.08	1.00	0.06	0.11	0.05	0.12
Change in target price	0.45	0.64	0.06	1.00	0.49	-0.19	-0.05

Note: See Appendix I for factor definition. The sample period is from 1999 for all factors except for change in target price, which is started from 2002. Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

Note: See Appendix I for factor definition. The sample period is from 1999 for all factors except for change in target price, which is started from 2002. Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

0.11

0.05

0.12

0.49

-0.19

-0.05

1.00

-0.05

-0.03

-0.05

1.00

0.23

0.52

-0.04

0.04

0.37

0.34

0.10

-0.03

0.23

1.00

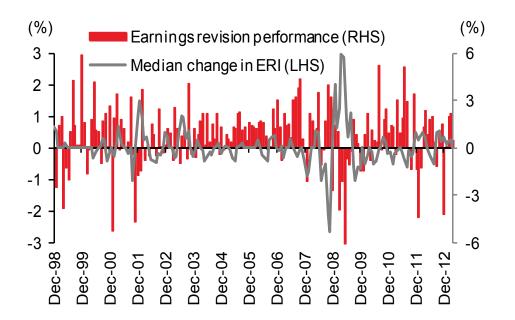
Earnings revision and change in consensus rating indicators have worked more consistently in both developed and emerging Asia. The top indicators are profitable when focusing on long-side portfolios.

Performance (long-short and long-only excess) of revision-based indicators in developed and emerging Asia

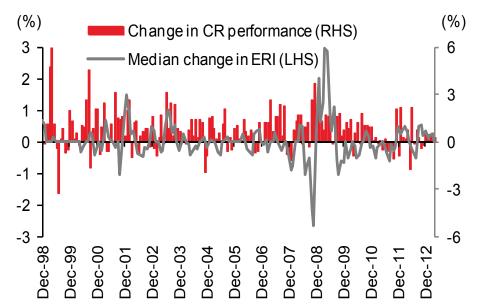
			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted	Change in	Change in
Long-short performance	index	revision	rating	target price	surprise	RI	ER
Developed Pacific ex-Japan							
Annualised average return (%)	4.15	8.04	8.98	7.10	5.93	2.79	1.96
Annualised risk (%)	7.43	8.96	7.06	8.20	8.09	6.46	6.44
Information ratio	0.56	0.90	1.27	0.87	0.73	0.43	0.30
Turnover (1-way, L/S, %)	123	79	148	129	91	171	140
Emerging Asia							
Annualised average return (%)	9.27	9.99	9.22	6.40	7.14	1.53	1.80
Annualised risk (%)	5.33	7.39	5.12	6.75	6.57	4.81	5.36
Information ratio	1.74	1.35	1.80	0.95	1.09	0.32	0.34
Turnover (1-way, L/S, %)	120	81	146	127	85	169	140
			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted	Change in	Change in
Long only porformance	index	revision	rating	target price	•	RI	ER
Long-only performance	index	revision	rating	target price	surprise	RI	EK
Developed Pacific ex-Japan				- 			
Annualised excess return (%)	1.83	3.48	4.83	3.77	3.71	2.22	0.80
Annualised active risk (%)	4.35	4.61	4.40	4.64	4.76	3.97	4.07
Information ratio	0.42	0.75	1.10	0.81	0.78	0.56	0.20
Turnover (1-way long-only, %)	60	39	73	63	45	84	69
Emerging Asia							
Annualised excess return (%)	5.09	5.50	5.41	3.86	4.22	1.88	2.10
Annualised active risk (%)	3.53	3.94	3.02	3.78	3.76	3.02	3.25
Information ratio	1.44	1.40	1.79	1.02	1.12	0.62	0.65
Turnover (1-way long-only, %)	59	40	72	62	42	84	68

Note: See Appendix I for factor definition. The sample period is from 1999 for all factors except for change in target price, which is started from 2002. Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies There is no surprise that revision strategy relatively underperformed during the initial phase of the earnings recovery cycle, especially at the time when value and high-risk stocks recovered, such as in early 2009. But notably, change in consensus rating indicator continued to perform well during this period.

Monthly returns of earnings revision indicator and median earnings revision change



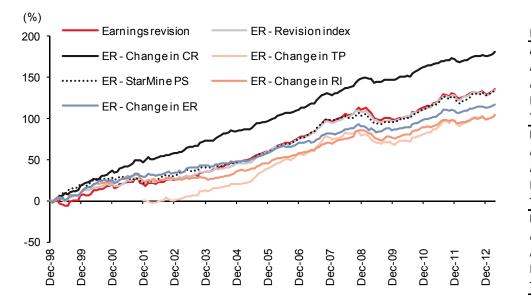
Monthly returns of change in consensus rating indicator and median earnings revision change



Note: Universe is based on MSCI AC Asia Pacific ex-Japan Index. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies Investors can improve returns by integrating earnings revision and change in consensus rating indicators.



Performance of composite revision factors in DM and EM Asia



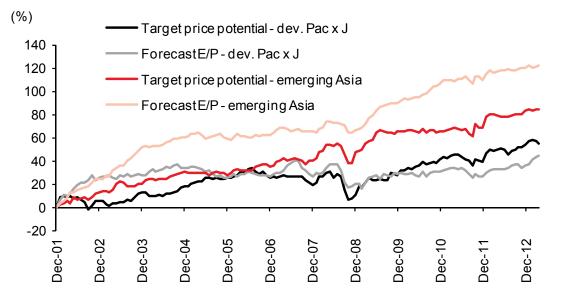
	Earnings	ER - Revision	ER - Change	ER - Change	ER - StarMine	ER - Change	ER - Change
Long-short performance	revision	index	in CR	in TP	PS	in RI	in ER
Asia Pacific ex-Japan							
Annualised average return (%)	9.53	9.44	12.60	9.07	9.44	7.26	8.21
Annualised risk (%)	6.63	5.60	5.00	6.59	6.33	5.08	5.15
Information ratio	1.44	1.69	2.52	1.38	1.49	1.43	1.59
Turnover (1-way, L/S, %)	80	100	121	100	79	144	128
Developed Pacific ex-Japan							
Annualised average return (%)	8.04	7.96	11.62	6.60	6.94	8.26	7.27
Annualised risk (%)	8.96	7.94	7.78	8.45	8.62	7.37	7.77
Information ratio	0.90	1.00	1.49	0.78	0.81	1.12	0.94
Turnover (1-way, L/S, %)	79	101	123	103	81	146	128
Emerging Asia							
Annualised average return (%)	9.99	9.91	12.96	9.87	10.17	6.97	8.38
Annualised risk (%)	7.39	6.37	6.00	7.34	7.38	5.64	5.83
Information ratio	1.35	1.55	2.16	1.35	1.38	1.24	1.44
Turnover (1-way, L/S, %)	81	100	121	99	78	144	127

Note: The sample period is from 1999 for all factors except for composite factor with change in target price, which is started from 2002. Returns are annualized figures. Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

Note: The sample period is from 1999 for all factors except for composite factor with change in target price, which is started from 2002. Returns are annualized figures. Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

The target price potential factor has delivered higher long-short return and IR than E/P in developed Pacific ex-Japan since 2002. Notably, performance of the factor is particularly strong since 2009.

Performance (long-short) of target price potential and forecast E/P factors by regions



	<u>Developed P</u>	acific ex-JP	<u>Emergir</u>	ng Asia
	Target price	Forecast	Target price	Forecast
	potential	E/P	potential	E/P
Annualised average return (%)	4.84	3.93	7.41	10.76
Annualised risk (%)	9.42	8.32	8.53	6.52
Information ratio	0.51	0.47	0.87	1.65

Note: Universe is based on MSCI AC Asia Pacific ex-Japan Index. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

NO/MURA

Performance of target price potential factor is positive correlated with E/P (correlation is 0.65) but negatively correlated with revision-based indicators.

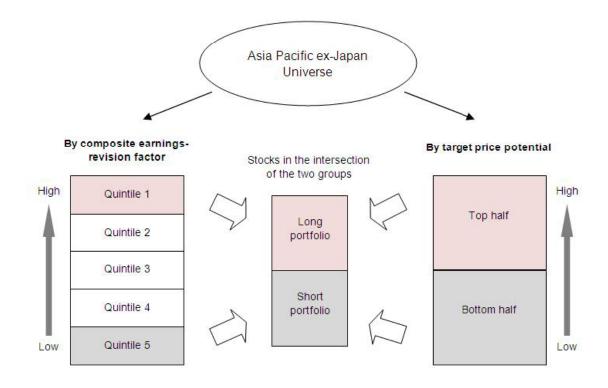
Correlation between target price potential factor and other revision indicators

			Change in		StarMine		
	Revision	Earnings	consensus	Change in	predicted		
	index	revision	rating	target price	surprise	Change in RI	Change in ER
Asia Pacific ex-Japan	-0.47	-0.50	0.01	-0.56	-0.42	-0.08	-0.12
Developed Pacific ex-Japan	-0.07	-0.22	0.10	-0.21	-0.06	0.09	0.16
Emerging Asia	-0.46	-0.52	-0.09	-0.57	-0.48	-0.06	-0.21

A revision-based strategy

We formulate a revision-based strategy by primarily looking at consensus earnings revisions and rating changes and, at the same time, taking into consideration on the target price potential.

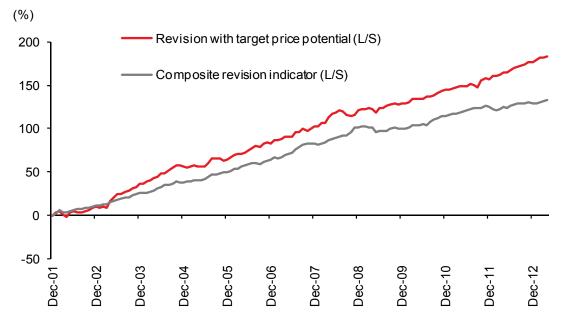
Methodology of the revision-based strategy



Performance of recommended revision-based strategy

In Asia Pacific ex-Japan, the strategy improves performance significantly, from 11.8pp to 16.1pp annual long-short return, when the target price potential is used for confirming the upside/downside potential.

Performance of the recommended revision-based strategy in Asia Pacific ex-Japan

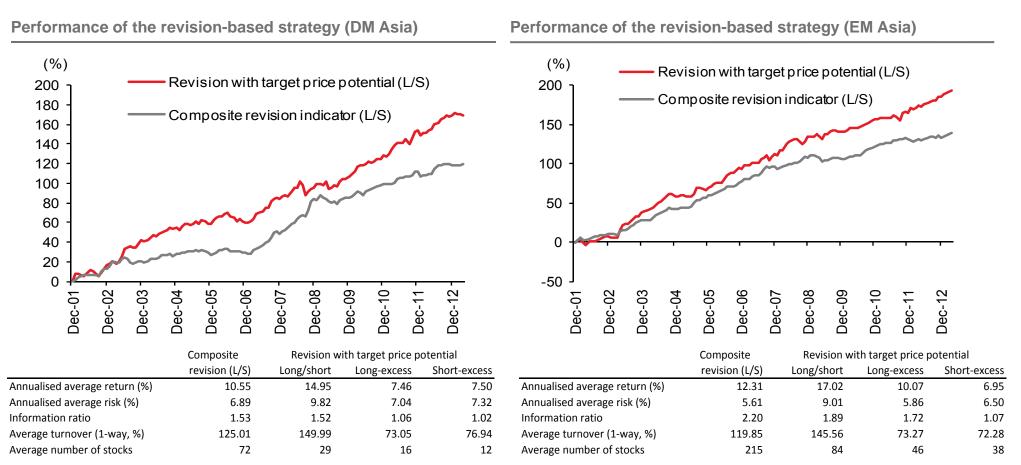


	Composite	Re	t price potential	al	
	revision (L/S)	Long/short	Long-excess	Short-excess	L/S after costs
Annualised average return (%)	11.78	16.14	9.36	6.78	5.50
Annualised average risk (%)	4.68	7.56	4.92	5.34	7.50
Information ratio	2.52	2.14	1.90	1.27	0.73
Average turnover (1-way, %)	121.18	145.87	72.81	73.06	145.87
Average number of stocks	286	113	62	51	113

Note: Universe is based on MSCI constituents. Trading costs are assumed 30bp. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

NO/MURA

Results suggest that the target price potential factor is informative in identifying mispriced companies. Our strategy is less volatile and also more profitable on the long side than on the short side in emerging Asia.



Note: Universe is based on MSCI constituents.

Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

Note: Universe is based on MSCI constituents.

Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

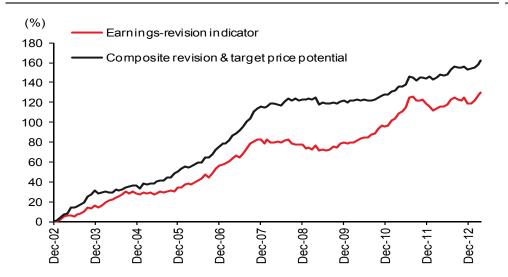
Revision-based strategy typically has higher turnover compared to other conventional investment styles such as value investing. High portfolio turnover could make the return lower due to transaction costs.

Summary of portfolio optimization simulation

Universe Sample period Method Objective	MSCI AC Asia Pacific ex-Japan end-December 2002 to 26-April 2013 on a monthly basis Long-short portfolio optimisation (Axioma Robust Optimisation) Maximise alpha
Cases: Alpha factor(s)	 Earnings revision indicator Composite revision indicator, add target price potential with weight of 0.5
Total risk control (annualised)	Maximum 8%
Turnover control (1-way)	Maximum 20%
Long/Short ratio control	1 to 1
Portfolio size	Maximum 80 stocks each on long and short side
Country and sector neutral	Yes
Asset weight control Rebalancing	Minimum 0.5%; maximum 10% on the long- and short- side, respectively End of every month
Performance	Subsequent one-month total return in USD

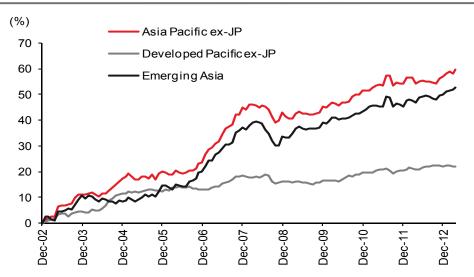
The back-test results confirm that the recommended revision strategy leads to better performance after considering turnover and other constraints.

Performance of optimized long-short portfolios in AP ex-Japan



Optimised long-short portfolios	Earnings-revision indicator	Composite revision & target price potential
Annualised return (%)	12.61	15.65
Average annualised risk (%)	8.76	7.81
Annualised return/SD	1.44	2.00
Average turnover (1-way; %)	20.67	20.37
Average total names (Long/short)	142	150
Return after transaction costs (%)	11.11	14.17
Annualised return/SD after costs (%)	1.27	1.81

Note: Universe is based on MSCI constituents. Trading costs are assumed 30bp. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

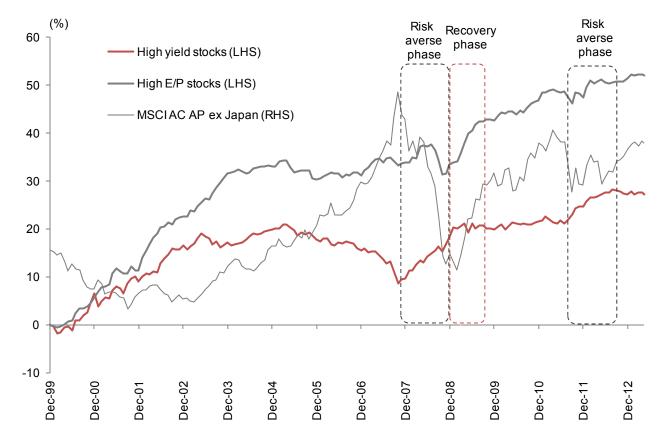


Performance of optimized long-only portfolios by regions

Optimised long-only portfolios	AP ex-JP	Dev. Pac. ex-JP	EM Asia
Annualised active return (%)	5.76	2.13	5.10
Average annualised active risk (%)	4.43	1.88	4.20
Annualised active return/SD	1.30	1.13	1.21
Average turnover (1-way; %)	9.79	9.92	9.82
Average total names	80	79	80
Active return after transaction costs (%)	5.05	1.41	4.39
Annualised active return/SD after costs (%)	1.14	0.75	1.04
Note: Universe is based on MSCI constituents. Trad	ding costs are as	sumed 30bp	

Note: Universe is based on MSCI constituents. Trading costs are assumed 300p Source: I/B/E/S, MSCI, Nomura Quantitative Strategies High dividend yield stocks have consistently outperformed from Aug-2011 to Aug-2012, but saw declining performance since Q4 2012 as the market began picking up.

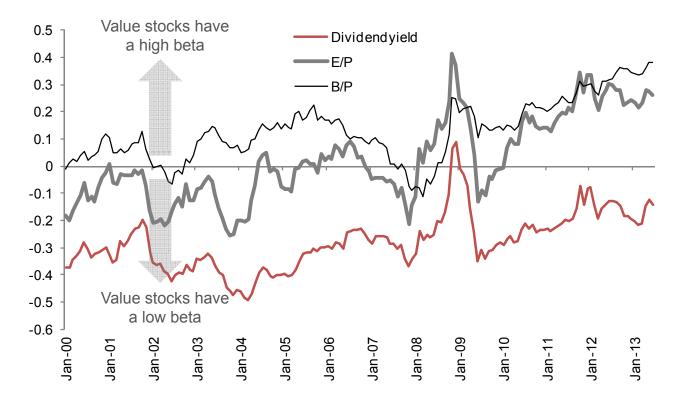
Performance of high dividend yield and high E/P stocks



Note: High-yield stocks and high E/P stocks are defined as the top one-third in the constituents of MSCI AC AP ex Japan based on each factor. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

- Beta risk of B/P strategy remains high.
- Amid an increasingly uncertain policy environment, we believe stocks which not only have defensive characteristics but also are expected to outperform when the market rebounds would be desired.

Rank correlation between value factors and beta



Note: We calculated the cross-sectional rank correlation between value factors and market beta at the beginning of each month. The stock universe is the constituents of MSCI AC AP ex Japan. Source: I/B/E/S, Worldscope, MSCI, Nomura Quantitative Strategies High-yield stocks have both defensive and value nature, as high yield stocks have higher E/P.

E/P spread between high yield stocks and low yield stocks



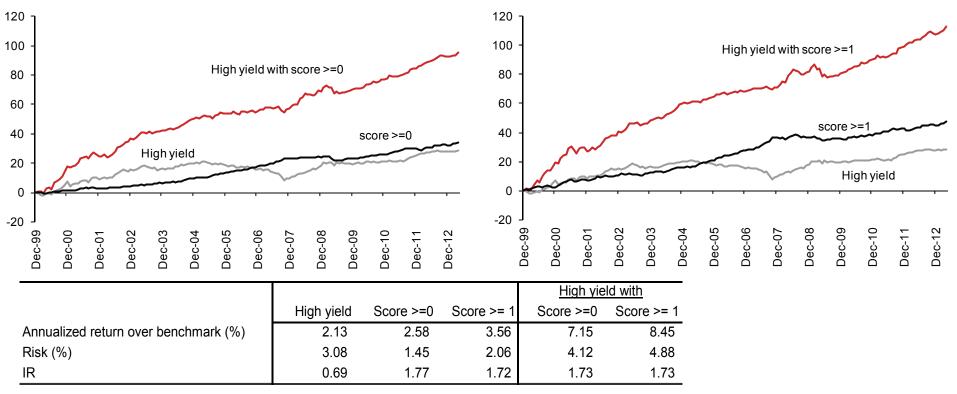
Note: We divide the constituents of MSCI AC AP ex Japan into three groups based on dividend yield and calculate the ratio of the median E/P in the top yield group to that in the bottom yield group. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

NO/MURA

High-yield stocks with reliable dividends consistently outperformed

- NOMURA
- Dividend cut is one of the main risks for high-yield stocks. Checking the reliability of forecast dividends using a reliability score has worked in Asia. The strategy was launched in 2010 and has been generating excess returns since then despite many ups and downs in the market.

Performance of high dividend yield stocks with reliable dividends (by setting a minimum criterion for the composite score)

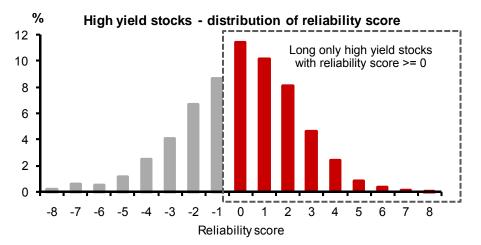


Note: Chart shows excess return over benchmark. Benchmark is the equally weighted return of the constituents in MSCI AC Asia Pacific ex Japan. Source: Nomura Quantitative Strategies

High dividend yield strategy focusing on reliability

- Reference reports: Playing high yield: saving the score, 24 June, 2010
 - Capability Unreliable if earnings are not sufficient
 - Earnings quality Low-quality stocks cannot maintain high dividends
 - Growth Low-growth stocks cannot maintain high dividends
 - Forecast change Stocks upgraded recently are less likely to be downgraded

Image of high dividend yield strategy



- Net upgrades More credible if more analysts agree on the direction
- Unincorporated revision DPS revision not backed by EPS revision is less reliable
- Stability More reliable if historical DPS was stable
- Psychological resistance Investors are reluctant to increase dividend yield further

Dividend reliability composite score

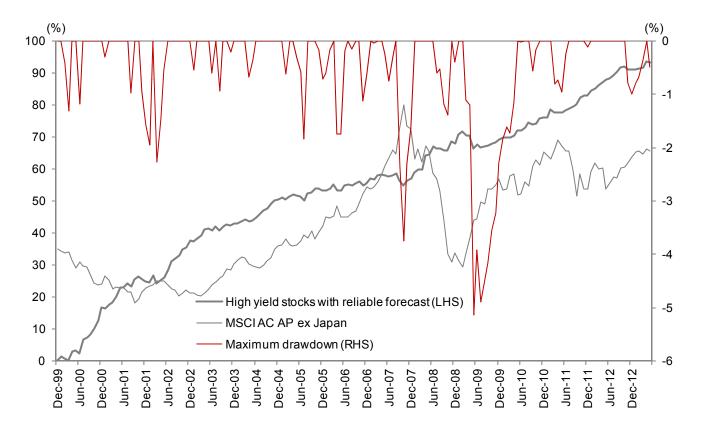
				Score	
Category	Factor name	Est. Sign	Top 1/3	Middle 1/3	Bottom 1/3
Capability	Payout ratio	Negative	-1	0	+1
Earnings quality	Accruals	Negative	-1	0	+1
Growth	EPS growth	Positive	+1	0	-1
Forecast change	Forecast EPS change	Positive	+1	0	-1
Net upgrades	Net analyst upgrades for DPS	Positive	+1	0	-1
Unincorporated Revision	EPS revision – DPS revision	Positive	+1	0	-1
Stability of DPS	Volatility of DPS	Negative	-1	0	+1
Psychological resistance	Yield change	Positive	+1	0	-1

Note: Universe is based on MSCI All Country Asia-Pacific ex-Japan. Portfolios are rebalanced monthly and grouping simulation is conducted with country and sector diversification. Source: Nomura Quantitative Strategies

Drawdown of our high dividend yield strategy

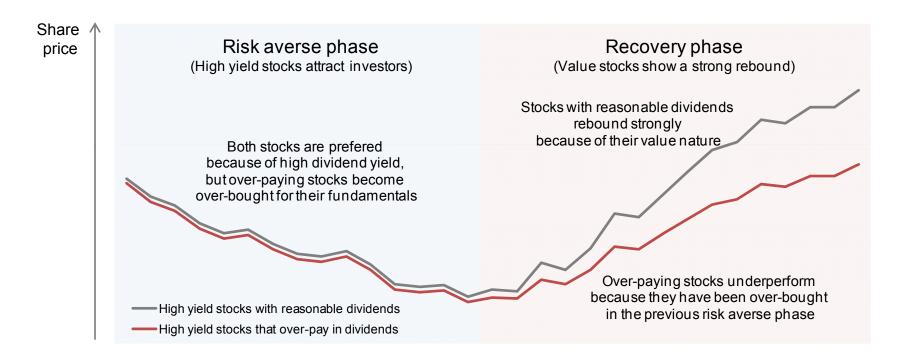
But still we need to find a way to improve the performance in a rally.

Maximum drawdown of high dividend yield strategy with reliable scores



NO/MURA

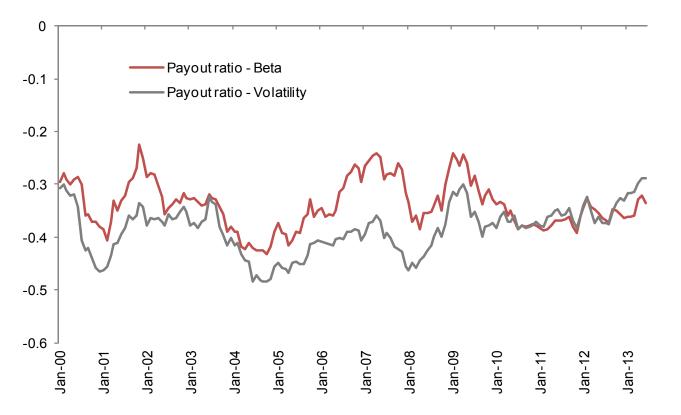
If some stocks pay too much in dividends



There should be more "over-paying" stocks in the high-yield universe

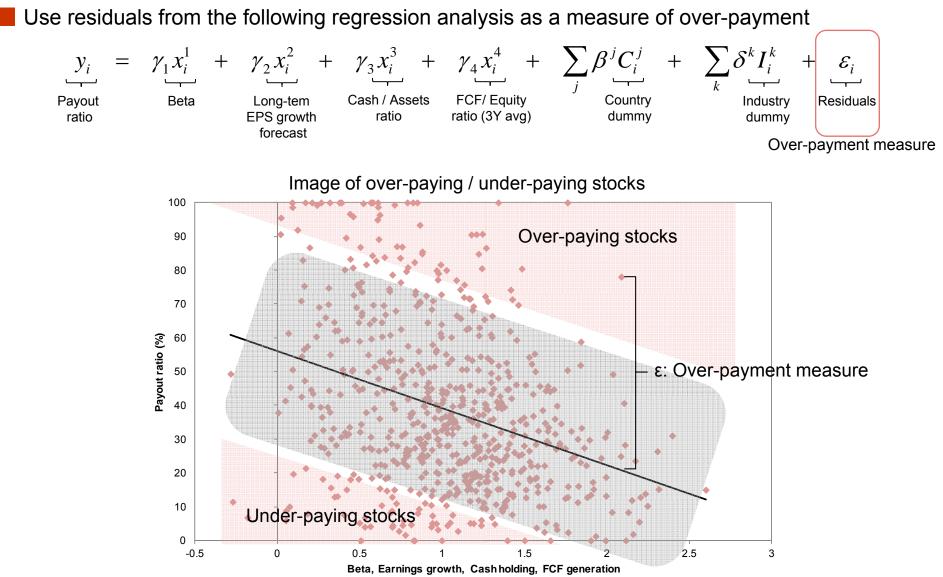
 We believe excluding over-paying stocks can improve the performance of high-yield strategies in market rallies Stocks with a high payout ratio are not always over-paying. For example, low-risk stocks in terms of beta or volatility have a higher payout ratio, on average.

Rank correlation between payout ratio and risk measures



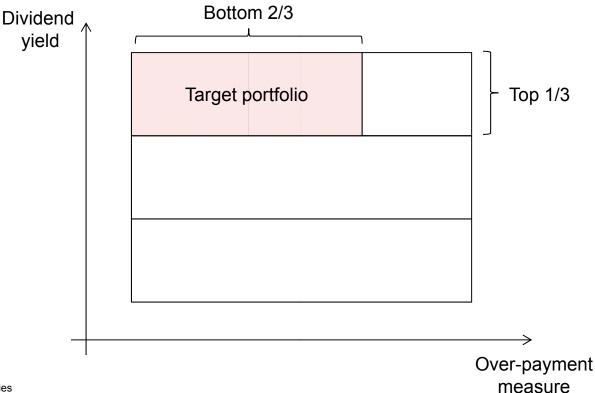
Identifying over-paying stocks by considering four factors

NOMURA



- Invest in high-yield stocks with reasonable dividends
 - Top 1/3 based on dividend yield
 - Bottom 2/3 based on the over-payment measure

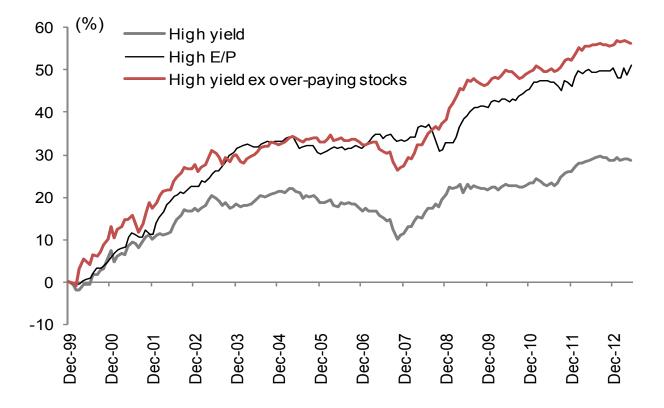
High dividend yield strategy excluding over-paying stocks



High dividend yield strategy excluding over-paying stocks

Our strategy not only outperformed the market similarly to the high-yield stocks in 2008, but also showed strong performance similar to high E/P stocks in the 2009 market rally.

Performance of high dividend yield strategy excluding over-paying stocks

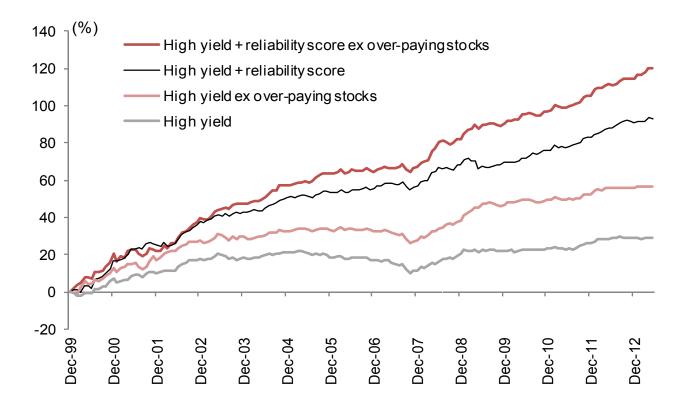


NO/MURA

Identify stocks with reasonable and reliable dividends

We apply this idea to our high-yield strategy which checks the dividend reliability. Excluding over-paying stocks is also useful to improve the performance of the strategy.

Performance of high yield stocks using dividend reliability score ex over-paying stocks



NO/MURA

Appendix I: Definition of factors

NOMURA

Туре	Factors	Definition
Size, price momentum &	Market cap *	Log of US\$ market cap
Liquidity	Price momentum (1M)	Past 1-month local currency return
	Price momentum (12M -1M)	Last 12-month return less the last 1 month return in local currency
	Volume turnover ratio	Past 1-month trading volume / shares outstanding at month-end
Valuation	Dividend yield	F12-month DPS / stock price
	Earnings yield	F12-month EPS / stock price
	B/P	Actual BPS / stock price
	Cashflow yield	F12-month cashflow per share / stock price
	EBITDA/EV	(F12-month net profit + actual interest expense + actual depreciation) / (market cap + interest-bearing debt - cash - short-tern marketable securities)
Revision & earnings yield	Revision index	(Number of upward analyst revisions - number of downward analyst revisions) / total number of analysts' estimate
	Earnings revision indicator (FY2)	FY2 EPS / previous 3-month average FY2 EPS
	Change in earnings yield	F12-month earnings yield - past 3-month average earnings yield
	StarMine predicted surprise	(SmartEstimate F12-month - consensus mean) / max(divisor, mean)
	Normalised E/P	(F12-month earnings yield - average earnings yield in past 36 months) / standard deviation of the earnings yields in the past 36 months
	Change in consensus rating	Current consensus rating score - previous month consensus rating score
	Change in target price	(Consensus target price / previous month target price - 1) x 100%
	Change in revision index	Current revision index - previous month revision index
	Change in earnings revision	Current earnings revision indicator - previous month ERI
	Target price potential	(Consensus target price / current stock price - 1) x 100%
Growth	Sales growth (FY2)	FY2 sales / FY1 sales
	EPS growth (FY2)	FY2 EPS / FY1 EPS
Financial & operating efficiency	Return on equity	F12-month net profit / actual shareholders' equity
	Shareholders' equity ratio	Actual shareholders' equity / actual total assets
	Pretax profit margin	F12-month pretax profit / F12-month sales
Risk	Volatility	Past 36-month price return volatility
	Estimate dispersion	I/B/ES FY1 consensus EPS standard deviation / absolute value for FY1 consensus EPS
	Default probability *	Default probability estimated using Merton model

Note: The factors marked with * are reverse-based. Source: Nomura Quantitative Strategies

Style	Factors	Definition
Size *	Market cap	Log of US\$ market cap
Momentum	Price momentum (12M -1M)	Last 12-month return less the last 1-month return in local currency
Yield	Dividend yield	F12-month DPS / stock price
Valuation	Earnings yield	F12-month EPS / stock price
	B/P	Actual BPS / stock price
Revision	Revision index	(Number of upward analyst revisions - number of downward analyst revisions) / total number of analysts' estimate
Growth	Sales growth (FY2)	FY2 sales / FY1 sales
	EPS growth (FY2)	FY2 EPS / FY1 EPS
Profitability	Return on equity	F12-month net profit / actual shareholders' equity
	Change in pretax profit margin	FY2 pretax profit margin - FY1 pretax profit margin
Risk *	Volatility	Past 36-month price return volatility
	Estimate dispersion	I/B/ES FY1 consensus EPS standard deviation / absolute value for FY1 consensus EPS
	Default probability	Default probability estimated using Merton model

Appendix III: Stocks ideas (long-side) from revision-based strategy

NOMURA

Market	Bloomberg code	Company	Sector	Mkt cap (US\$mn)	Avg daily turnover (US\$mn)	Earnings revision (%)	Change in consensus rating	Target price potential (%)
Australia	FLT AU	Flight Centre	Consumer Discretionary	3,882	22.26	5.91	0.00	-1.49
Australia	MQG AU	Macquarie Group	Financials	14,735	113.59	4.43	-0.27	-5.35
Australia	CSL AU	Csl	Health Care	29,660	76.63	5.94	0.00	-4.11
Australia	BHP AU	Bhp Billiton	Materials	107,604	248.82	2.83	0.00	14.18
Australia	FMG AU	Fortescue Metals Group	Materials	10,642	61.62	7.72	-0.04	36.15
Australia	SGM AU	Sims Metal Management	Materials	1,967	13.30	-0.60	-0.07	16.68
China	1169 HK	Haier Electronics Group	Consumer Discretionary	4,280	6.95	0.41	-0.09	14.52
China	6808 HK	Sun Art Retail Group	Consumer Staples	12,436	7.00	-2.23	-0.13	10.81
China China	883 HK 2628 HK	Cnooc China Life Insurance	Energy Financials	81,898 20,465	95.58 94.51	-1.05 -0.63	-0.10 -0.05	20.53 20.47
China	2628 HK 2601 HK	China Pacific Insurance Group	Financials	9,921	27.63	-0.83	-0.05	20.47
China	3900 HK	Greentown China Holdings	Financials	4,077	6.29	5.77	0.00	18.98
China	2607 HK	Shanghai Pharmaceuticals Holding	Health Care	1,484	11.26	2.79	0.00	16.14
China	1800 HK	China Communications Construction	Industrials	4,323	14.55	1.17	0.00	18.06
China	691 HK	China Shanshui Cement Group	Materials	1,795	4.94	-2.35	-0.05	27.78
China	338 HK	Sinopec Shanghai Petrochemical	Materials	804	6.15	10.92	-0.19	26.39
China	762 HK	China Unicom Hong Kong	Telecommunication Services	34,761	31.07	-0.10	-0.03	21.38
China	902 HK	Huaneng Power International Inc	Utilities	4,415	16.65	8.43	-0.12	-1.27
Hong Kong	27 HK	Galaxy Entertainment Group	Consumer Discretionary	21,003	71.78	4.79	0.04	5.64
Hong Kong	12 HK	Henderson Land Development	Financials	17,405	19.73	1.11	0.00	10.73
Hong Kong	54 HK	Hopewell Holdings	Industrials	3,376	5.49	-0.80	-0.32	15.32
India	BJAUT IN	Bajaj Auto	Consumer Discretionary	9,670	1.28	-3.40	-0.06	11.20
India India	TTAN IN DABUR IN	Titan Industries Dabur India	Consumer Discretionary Consumer Staples	4,453 4,996	1.07 0.46	0.00 0.39	0.00 0.00	7.79 -1.09
India	ICICIBC IN	Icici Bank	Financials	25,830	6.01	2.09	-0.01	9.02
India	POWF IN	Power Finance Corp	Financials	4,919	0.71	2.09	0.00	16.12
India	DRRD IN	Dr Reddy'S Laboratories	Health Care	6,428	1.15	3.73	-0.02	6.68
India	ABNL IN	Aditya Birla Nuvo	Industrials	2,274	0.19	0.06	0.00	20.18
India	JPA IN	Jaiprakash Associates	Industrials	3,322	2.69	0.09	-0.16	7.62
India	SCS IN	Satyam Computer Services	Information Technology	2,305	0.95	0.04	-0.09	21.36
India	SESA IN	Sesa Goa	Materials	2,628	0.56	0.56	-0.13	7.81
India	STLT IN	Sterlite Industries India	Materials	5,950	0.76	-6.89	-0.20	14.61
India	IDEA IN	Idea Cellular	Telecommunication Services	7,944	0.90	1.17	-0.03	-5.51
India	PWGR IN	Power Grid Corp Of India	Utilities	9,787	0.69	1.36	0.00	16.16
India	RELI IN	Reliance Infrastructure	Utilities	2,043	6.81	15.69	0.00	46.26
Korea	066570 KS	Lg Electronics Inc	Consumer Discretionary	13,068	102.83	6.84	-0.02	18.77
Korea	002790 KS 139480 KS	Amorepacific Group	Consumer Staples	2,730	4.98	2.25	0.00	29.19
Korea Korea	139480 KS 096770 KS	E-Mart Sk Innovation	Consumer Staples Energy	4,906 12,671	46.18 39.41	-4.93 -6.53	-0.06 0.00	22.21 24.25
Korea	005830 KS	Dongbu Insurance	Financials	2,901	6.80	0.70	0.00	24.25
Korea	032830 KS	Samsung Life Insurance	Financials	19.768	16.03	-0.42	0.00	19.50
Korea	068270 KS	Celltrion Inc	Health Care	5,681	65.90	20.92	-0.05	97.01
Korea	034020 KS	Doosan Heavy Industries & Constru	Industrials	4.333	9.99	8.19	0.00	26.75
Korea	003600 KS	Sk Holdings	Industrials	7,066	23.67	-6.27	-0.07	29.64
Korea	001740 KS	Sk Networks	Industrials	1,694	3.14	-3.81	-0.08	40.75
Korea	051910 KS	Lg Chem	Materials	17,095	48.73	-7.10	0.00	25.40
Korea	011170 KS	Lotte Chemical Corp	Materials	5,079	36.23	-11.85	-0.05	32.61
Malaysia	BST MK	Berjaya Sports Toto	Consumer Discretionary	1,944	1.94	0.00	-0.04	7.33
Malaysia	IOI MK	loi Corp	Consumer Staples	10,937	15.75	-3.79	-0.11	-0.97
Malaysia	SAKP MK	Sapurakencana Petroleum	Energy	6,160	31.03	4.75	0.09	6.21
Malaysia	MAY MK	Malayan Banking	Financials	27,984	72.10	0.94	-0.08	2.42
Malaysia	DIGI MK WIL SP	Digi.Com	Telecommunication Services	11,938	13.12 18.90	-1.67 1.08	0.00	2.22
Singapore Singapore	DBS SP	Wilmar International Dbs Group Holdings	Consumer Staples Financials	17,251 33,903	67.85	2.40	-0.07 0.04	4.84
Singapore	UOL SP	Uol Group	Financials	4,473	6.00	-1.24	-0.22	4.77
Singapore	YZJ SP	Yangzijiang Shipbuilding Holdings	Industrials	2,729	6.91	3.30	-0.05	15.52
Singapore	ST SP	Singapore Telecommunications	Telecommunication Services	52,271	69.45	-0.75	-0.04	-5.57
Taiwan	2707 TT	Formosa International Hotels Corp	Consumer Discretionary	1,085	2.25	-2.34	-0.11	24.68
Taiwan	2882 TT	Cathay Financial Holding	Financials	14,835	32.05	13.66	0.05	2.27
Taiwan	2823 TT	China Life Insurance/Taiwa	Financials	2,306	10.72	4.33	0.00	5.78
Taiwan	9945 TT	Ruentex Development	Financials	1,885	14.42	-4.06	-0.17	14.12
Taiwan	2885 TT	Yuanta Financial Holding	Financials	4,826	12.93	1.38	-0.15	3.06
Taiwan	2610 TT	China Airlines	Industrials	1,672	2.99	0.03	-0.01	18.85
Taiwan	2409 TT	Au Optronics Corp	Information Technology	3,946	60.31	150.00	-0.01	11.26
Taiwan	2474 TT	Catcher Technology	Information Technology	3,588	83.12	9.51	-0.08	5.30
Taiwan	4938 TT	Pegatron Corp	Information Technology	4,134	30.34	17.05	0.00	3.99
Taiwan Taiwan	3702 TT	Wpg Holdings	Information Technology	1,206	11.90	5.05	-0.18	7.56
	2103 TT	Tsrc Corp	Materials	1,569	1.72	-4.42	-0.22	5.60
	0045 TT							
Faiwan	3045 TT	2013. Stocks highlighted are those that fa	Telecommunication Services	13,184	18.74	-2.71	-0.06	-7.50

potential (top half). Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

Appendix IV: Stocks ideas (short-side) from revision-based strategy

MarketcodeCompanyAustraliaGPT AUGpt GroupAustraliaCOH AUCochlearAustraliaAWC AUAluminaAustraliaBLD AUBoralChina939 HKChina Construction BarChina1066 HKShandong Weigao GroutChina10919 HKChina Cosco HoldingsChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaSIEM INSiemens/IndiaIndiaSIEM INSiemens/IndiaIndiaACC INAccIndiaACE M INAmbuja CementsIndiaACEM INAmorepacific CorpKorea004170 KSShinsegaeKorea004100 KSS-Oil CorpKorea002380 KSAcc CorpKorea002380 KSKcc CorpKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeGLP SPStarhub	Sooto-				Change in consensus	Target price
AustraliaCOH AUCochlearAustraliaAWC AUAluminaAustraliaBLD AUBoralChina939 HKChina Construction BarChina1066 HKShandong Weigao GrootChina10919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RessChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaBHEL INBharat Heavy ElectricalIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004990 KSLotte ConfectioneryKorea001000 KSYuhan CorpKorea002380 KSKcc CorpKorea003420 KSLg DisplayKorea034220 KSLg DisplayKorea034220 KSLg DisplayKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaGENT MKGentingMalaysiaGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Sector	(US\$mn)	Avg daily turnover (US\$mn)	revision (%)	rating	potential (%)
AustraliaAWC AUAluminaAustraliaBLD AUBoralChina939 HKChina Construction BarChina410 HKSoho ChinaChina1066 HKShandong Weigao GrodChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RestChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaBHEL INBharat Heavy ElectricalIndiaBIEM INSiemens/IndiaIndiaACC INAccIndiaACE M INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004100 KSYuhan CorpKorea002380 KSKcc CorpKorea002380 KSKcc CorpKorea003420 KSLg DisplayKorea01060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaMAHB MKMalaysia Airports HoldiaSingaporeOCBC SPOversea-Chinese Bank	Financials	7,095	18.75	0.13	0.10	-6.58
AustraliaBLD AUBoralChina939 HKChina Construction BarChina410 HKSoho ChinaChina1066 HKShandong Weigao GrouChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RessChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaCBK INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004100 KSS-Oil CorpKorea002380 KSAcc CorpKorea002400 KSLotte ConfectioneryKorea002380 KSKcc CorpKorea002380 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaFGV MKRhBc MkMalaysiaFGV MKFelda Global Ventures IMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaFGV MKFelda Global Ventures IMalaysia <td< td=""><td>Health Care</td><td>3,943</td><td>17.17</td><td>0.01</td><td>0.00</td><td>-9.18</td></td<>	Health Care	3,943	17.17	0.01	0.00	-9.18
China939 HKChina Construction BarChina410 HKSoho ChinaChina1066 HKShandong Weigao GrodChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RescChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaCBK INBharat Heavy ElectricalIndiaBHEL INBharat Heavy ElectricalIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00430 KSAmorepacific CorpKorea00100 KSYuhan CorpKorea002380 KSKcc CorpKorea002380 KSLotte ConfectioneryKorea002380 KSLg DisplayKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaFGV MKFelda Global VenturesMalaysiaGENT SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Materials	2,495	9.26	-37.00	0.07	0.07
China410 HKSoho ChinaChina1066 HKShandong Weigao GrouChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RestChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaBHEL INBharat Heavy ElectricalIndiaBHEL INBharat Heavy ElectricalIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00490 KSLotte ConfectioneryKorea009540 KSS-Oil CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaFGV MKRelda Global Ventures IMalaysiaRHBC MKMalaysia Airports HoldiaSingaporeOCBC SPOversea-Chinese Bank	Materials	3,436	29.28	-16.72	0.21	3.18
China1066 HKShandong Weigao GrouChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RescChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaBHEL INBharat Heavy ElectricalIndiaBHEL INSiemens/IndiaIndiaNFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicatioIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00490 KSLotte ConfectioneryKorea009540 KSS-Oil CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKMalaysia Airports HoldiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	k Corp Financials	219,938	180.42	2.16	0.12	12.28
China1066 HKShandong Weigao GrouChina1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RescChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaBHEL INBharat Heavy ElectricalIndiaBHEL INSiemens/IndiaIndiaNFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicatioIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00490 KSLotte ConfectioneryKorea009540 KSS-Oil CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKMalaysia Airports HoldiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Financials	4,295	7.92	-6.22	0.05	-3.79
China1919 HKChina Cosco HoldingsChina267 HKCitic PacificChina639 HKShougang Fushan RessChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaACC INAccIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004170 KSS-Oil CorpKorea009540 KSS-Oil CorpKorea009540 KSHyundai Heavy IndustriKorea009540 KSHyundai Heavy IndustriKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaMAB MKMalaysia Airports HoldiaSingaporeOCBC SPOversea-Chinese Bank	p Medical Pol Health Care	1,898	4.54	-4.87	0.00	3.30
China639 HKShougang Fushan ResChina270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaCBK INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaACC MINReliance CommunicationIndiaRCOM INReliance CompunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00430 KSAmorepacific CorpKorea004100 KSS-Oil CorpKorea0024110 KSIndustrial Bank Of KoreKorea002380 KSKcc CorpKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaRHBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Industrials	5,252	4.25	-53.40	0.09	-8.53
China270 HKGuangdong InvestmentHong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea00100 KSYuhan CorpKorea002380 KSHyundai Heavy IndustriKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKMalaysia Airports HoldiaSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Industrials	4,626	12.96	-14.75	0.00	7.35
Hong Kong142 HKFirst Pacific/Hong KongHong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaACC INAccIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea090430 KSAmorepacific CorpKorea004170 KSShinsegaeKorea01950 KSS-Oil CorpKorea00100 KSYuhan CorpKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKMalaysia Airports HoldiaSingaporeOCBC SPOversea-Chinese Bank	ources Group Materials	2,076	12.92	-2.19	0.16	6.41
Hong Kong388 HKHong Kong ExchangesIndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaACC INAccIndiaACC INMabuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKMalaysia Airports HoldiaSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Utilities	5,882	5.60	1.49	0.07	-4.77
IndiaCBK INCanara BankIndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicatioIndiaNTPC INNtpcKorea090430 KSAmorepacific CorpKorea004170 KSS-Oil CorpKorea010950 KSS-Oil CorpKorea00100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaRHBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Financials	5,800	7.41	-3.70	0.00	7.85
IndiaRBXY INRanbaxy LaboratoriesIndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAmbuja CementsIndiaACC MINReliance CommunicationIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004170 KSShinsegaeKorea004900 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea010950 KSS-Oil CorpKorea009540 KSHyundai Heavy IndustriKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKRhb CapitalMalaysiaRHBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	And Clearing Financials	19,359	74.64	-3.68	0.05	-2.36
IndiaBHEL INBharat Heavy ElectricalIndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACC INAccIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004900 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea010950 KSS-Oil CorpKorea0024110 KSIndustrial Bank Of KoreKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Financials	3,547	1.19	-4.45	0.04	0.99
IndiaSIEM INSiemens/IndiaIndiaINFO INInfosysIndiaACC INAccIndiaACEM INAmbuja CementsIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea004900 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKMalaysiaMalaysiaGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Health Care	3,635	1.46	-5.90	0.00	-2.28
IndiaINFO INInfosysIndiaACC INAccIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea00430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea0002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	s Industrials	8,981	1.20	-2.23	-0.01	-1.18
IndiaACC INAccIndiaACC INAccIndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea032380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaMHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Industrials	4,023	0.71	-16.63	0.02	-17.53
IndiaACEM INAmbuja CementsIndiaRCOM INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea090430 KSAmorepacific CorpKorea010950 KSS-Oil CorpKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeOCBC SPOversea-Chinese Bank	Information Technology	24,600	3.24	-3.49	0.00	8.75
IndiaRCOM IN NTPC INReliance CommunicationIndiaNTPC INNtpcKorea004170 KSShinsegaeKorea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Materials	4,306	0.72	-10.43	0.18	1.48
IndiaNTPC INNtpcKorea004170 KSShinsegaeKorea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global Ventures IMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Materials	5,356	1.00	-9.41	0.20	-0.88
Korea004170 KSShinsegaeKorea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysiaSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	ns Telecommunication Service	es 4,273	13.58	-7.65	0.42	-34.05
Korea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Utilities	24,011	0.79	-1.87	0.00	14.34
Korea090430 KSAmorepacific CorpKorea004990 KSLotte ConfectioneryKorea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaMAHB MKMalaysiaMalaysiaGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Consumer Discretionary	2,019	4.59	-0.54	0.02	11.34
Korea010950 KSS-Oil CorpKorea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaMBC MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Consumer Staples	5,115	14.90	-6.49	0.00	10.22
Korea024110 KSIndustrial Bank Of KoreKorea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Consumer Staples	2,250	2.53	7.40	0.33	9.41
Korea000100 KSYuhan CorpKorea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Energy	9,116	16.58	-7.25	0.14	17.35
Korea009540 KSHyundai Heavy IndustriKorea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank		6,209	6.10	-5.00	0.06	8.81
Korea002380 KSKcc CorpKorea034220 KSLg DisplayKorea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Health Care	1,873	7.99	-2.69	0.08	23.09
Korea 034220 KS Lg Display Korea 010060 KS Oci Malaysia GENT MK Genting Malaysia FGV MK Felda Global Ventures Malaysia RHBC MK Rhb Capital Malaysia MAHB MK Malaysia Airports Holdii Singapore GLP SP Global Logistic Properti Singapore OCBC SP Oversea-Chinese Bank	es Industrials	14,412	45.37	-15.86	0.10	24.72
Korea010060 KSOciMalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Industrials	2,973	6.20	-26.38	0.30	21.14
MalaysiaGENT MKGentingMalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Information Technology	9,903	48.71	-0.85	0.00	19.48
MalaysiaFGV MKFelda Global VenturesMalaysiaRHBC MKRhb CapitalMalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Materials	3,108	24.70	-16.65	0.05	21.18
Malaysia RHBC MK Rhb Capital Malaysia MAHB MK Malaysia Airports Holdii Singapore GLP SP Global Logistic Properti Singapore OCBC SP Oversea-Chinese Bank	Consumer Discretionary	13,243	12.53	-1.99	0.09	1.57
MalaysiaMAHB MKMalaysia Airports HoldiiSingaporeGLP SPGlobal Logistic PropertiSingaporeOCBC SPOversea-Chinese Bank	Holdings Consumer Staples	8,711	2.78	-7.90	0.13	-11.66
Singapore GLP SP Global Logistic Properti Singapore OCBC SP Oversea-Chinese Bank	Financials	7,232	10.60	0.04	0.00	-0.76
Singapore OCBC SP Oversea-Chinese Bank	igs Industrials	2,497	3.57	-5.62	0.14	4.55
5 1	es Financials	11,279	36.57	-5.52	0.06	0.94
	ng Corp Financials	30,533	29.07	-0.16	0.28	-5.19
	Telecommunication Service	es 6,018	8.76	0.30	0.33	-10.43
Taiwan 2880 TT Hua Nan Financial Hold	ings Financials	4,926	2.68	-0.54	0.00	-5.71
Taiwan 2887 TT Taishin Financial Holdir	g Financials	3,320	11.83	0.32	0.05	-6.49
Taiwan 2609 TT Yang Ming Marine Tran	sport Corp Industrials	1,213	1.99	-14.20	0.00	0.00
Taiwan 2353 TT Acer Inc	Information Technology	2,189	11.11	-14.41	-0.04	-7.13
Taiwan 3034 TT Novatek Microelectronic	s Corp Information Technology	2,936	24.39	4.12	0.27	2.37
Taiwan 2382 TT Quanta Computer Inc	Information Technology	7,896	17.21	-9.96	0.00	1.23
Taiwan 2002 TT China Steel Corp	Materials	12,760	10.85	-1.63	0.14	-3.51
Taiwan 2015 TT Feng Hsin Iron & Steel	Co Materials	1,027	0.58	0.00	0.40	-3.26
Taiwan 2412 TT Chunghwa Telecom	Telecommunication Service		29.02	-2.06	0.03	-9.90

Note: Data as of 17 May 2013. Stocks highlighted are those that fall in the bottom quintile (group 5) of each market and sector by composite revision factor, and those that are with low target price potential (bottom half). Universe is based on MSCI constituents. Source: I/B/E/S, MSCI, Nomura Quantitative Strategies

Appendix V: High-yield stocks with reasonable and reliable dividends

NO/MURA

				Dividend	Reliability	Over-	Payout					Dividend	Reliability	Over-	Payout
Market	Ticker	Name	Sector	yield (%)	score	payment measure	ratio (%)	Market	Ticker	Name	Sector	yield (%)	score	payment measure	ratio (%)
Australia	MTS AL	J Metcash	Cons. Staples	6.72	2	0.19	83.64	Korea	021240 KS	Coway	Cons. Disc.	(%)	0	0.13	28.80
Australia		J Woodside Petroleum	Energy	5.90	4	0.19	86.42	Korea	021240 KS 000270 KS	Kia Motors Corp	Cons. Disc.	1.05	0	-0.57	7.23
Australia				5.90	4	-0.47	62.80	Korea	005830 KS	•	Financials	3.20	4	-0.57	19.91
			Energy		3	-0.47				Dongbu Insurance			4	-0.14	
Australia		J National Australia Bank	Financials	5.89	3		75.14	Korea	001450 KS	Hyundai Marine & Fire Insurance	Financials	3.12	1		21.08
Australia		J Bendigo And Adelaide Bank	Financials	5.73		0.17	73.89	Korea	068270 KS	Celltrion Inc	Health Care	0.76		-0.33	8.82
Australia			Financials	5.62	1	0.34	76.44	Korea	006260 KS	Ls Corp	Industrials	1.75	2	0.07	14.12
Australia		0	Industrials	5.25	0	-0.09	61.23	Korea	010120 KS	Ls Industrial Systems	Industrials	1.68	1	0.17	22.36
Australia	ORI AU		Materials	4.30	2	-0.76	50.86	Korea	034020 KS	Doosan Heavy Industries & Constru.		1.59	0	-0.07	17.01
Australia		J Amcor/Australia	Materials	4.29	2	-0.18	69.59	Korea	010140 KS	Samsung Heavy Industries	Industrials	1.52	2	-0.02	12.48
Australia			Materials	3.73	3	-1.05	41.80	Korea	006400 KS	Samsung Sdi	IT	1.20	1	-0.30	11.69
Australia	RIO AU	Rio Tinto	Materials	3.46	2	-1.28	32.88	Korea	005490 KS	Posco	Materials	2.67	1	0.19	27.65
China	606 HK	China Agri-Industries Holdings	Cons. Staples	2.36	3	-0.14	22.48	Korea	011780 KS	Kumho Petro Chemical	Materials	2.02	2	-0.08	19.74
China	386 HK	China Petroleum & Chemical Corp	Energy	4.63	0	-0.35	35.68	Korea	000880 KS	Hanwha Corp	Materials	1.56	6	0.19	9.84
China	3988 HK	K Bank of China	Financials	5.87	1	0.07	33.35	Malaysia	MISC MK	Misc Bhd	Industrials	3.03	6	-0.11	46.10
China	3618 HK	Chongqing Rural Commercial Bank	Financials	5.81	3	0.20	28.59	Malaysia	MMHE MK	Malaysia Marine And Heavy Enginee	e Industrials	2.80	0	0.31	53.12
China	1288 HK	Agricultural Bank of China	Financials	5.69	0	0.29	32.90	Malaysia	YTL MK	Ytl Corp Bhd	Utilities	3.10	1	-0.26	43.51
China	939 HK	China Construction Bank Corp	Financials	5.63	3	0.10	33.61	Malaysia	TNB MK	Tenaga Nasional Bhd	Utilities	2.66	3	-0.53	31.25
China	3333 HK	K Evergrande Real Estate Group	Financials	5.24	0	0.18	23.83	Singapore	SPH SP	Singapore Press Holdings	Cons. Disc.	5.39	0	1.50	102.70
China	1099 Hk	Sinopharm Group	Health Care	1.67	0	-0.13	29.13	Singapore	SGX SP	Singapore Exchange	Financials	4.02	1	1.45	92.71
China	1800 HF	China Communications Construction	Industrials	3.49	3	-0.30	23.92	Singapore	DBS SP	Dbs Group Holdings	Financials	3.38	3	-0.47	39.51
China	148 HK	Kingboard Chemical Holdings	IT	3.12	0	-0.11	21.79	Singapore	YZJ SP	Yangzijiang Shipbuilding Holdings	Industrials	4.48	2	-0.76	30.60
China	992 HK	• •	IT	2.69	2	-0.41	32.88	Singapore	STE SP	Singapore Technologies Engineering	q Industrials	4.31	2	0.95	91.16
China	691 HK		Materials	5.28	1	0.08	29.48	Singapore	STH SP	Starhub	Telecom	4.80	0	0.16	97.88
China		•	Materials	4.80	0	-0.50	30.88	Taiwan	9904 TT	Pou Chen Corp	Cons. Disc.	4.12	0	-0.57	41.27
China		•	Materials	3.19	3	0.23	34.21	Taiwan	2204 TT	China Motor Corp	Cons. Disc.	3.84	0	0.12	51.10
China	552 HK	1 8		3.82	2	-0.72	38.23	Taiwan	2912 TT	President Chain Store Corp	Cons. Staples	2.61	1	0.09	67.81
Hong Kong	551 HK	· · ·	Cons. Disc.	4.51	2	-0.46	42.72	Taiwan	5522 TT	Farglory Land Development	Financials	6.23	0	0.05	54.17
Hong Kong	83 HK	0	Financials	4.21	3	0.23	48.99	Taiwan	2542 TT	Highwealth Construction Corp	Financials	4.50	4	-1.05	20.50
Hong Kong	16 HK	Sun Hung Kai Properties	Financials	3.25	2	-0.27	40.28	Taiwan	5871 TT	Chailease Holding	Financials	2.75	- 0	-0.14	39.07
Hong Kong	659 HK	0	Industrials	4.53	1	-0.02	53.96	Taiwan	2883 TT	China Development Financial	Financials	2.73	0	-0.08	42.22
Hong Kong	2 HK	8	Utilities	4.55 3.87	0	-0.02	60.92	Taiwan	1504 TT	Teco Electric And Machinery	Industrials	3.98	0	-0.08	54.71
Hong Kong Hong Kong	2 HK 6 HK	1 0	Utilities	3.42	1	-0.12	55.63	Taiwan	6286 TT	Richtek Technology Corp	IT	5.98	0	-0.02	67.23
		8		3.42			37.52								
India			Energy		0	-0.32		Taiwan	2392 TT	Cheng Uei Precision Industry	IT	4.81	6 3	0.30	51.80
India			Financials	4.37	1	0.31	25.46	Taiwan	3034 TT	Novatek Microelectronics Corp	IT	4.45	-	0.40	68.24
India	BOI IN		Financials	3.25	2	-0.03	17.11	Taiwan	6121 TT	Simplo Technology	IT	4.33	0	0.00	51.72
India			Financials	3.22	0	-0.06	17.21	Taiwan	2103 TT	Tsrc Corp	Materials	5.43	1	0.50	68.75
India			Health Care	0.86	0	-0.24	17.29	Taiwan	2006 TT	Tung Ho Steel Enterprise Corp	Materials	4.76	1	0.14	57.00
India			Materials	2.19	0	0.16	37.21	Thailand	TOP TB	Thai Oil	Energy	4.62	0	-0.25	44.45
Indonesia	INDF IJ	Indofood Sukses Makmur	Cons. Staples	2.44	2	-0.16	40.12	Thailand	PTTGC TB	Ptt Global Chemical	Materials	4.80	4	-0.07	43.61
Indonesia	BBNI IJ	0	Financials	2.21	1	-0.47	24.85								
Indonesia	TLKM IJ	J Telekomunikasi Indonesia	Telecom	4.28	2	-0.16	65.15								

Note: Data as of 17 May 2013. Stocks highlighted are those in both the top one-third based on the dividend yield (with dividend yield over 3%) and bottom two-thirds based on the over-payment measure. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

Appendix VI: Stocks that considered as over-paying dividends (ref)

NO/MURA

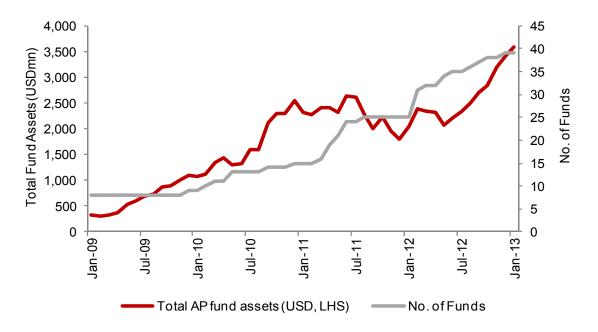
Market	Ticker	Name	Sector	Dividend yield (%)	Reliability score	Over- payment measure	Payout ratio (%)	Market	Ticker	Name	Sector	Dividend yield (%)	Reliability score	Over- payment measure	Payout ratio (%)
Australia	TTS AU	Tatts Group	Cons. Disc.	4.93	0	0.97	99.70	Korea	035250 KS	Kangwon Land Inc	Cons. Disc.	3.00	-1	0.84	49.03
Australia	WBC AU	Westpac Banking Corp	Financials	5.95	1	0.71	82.16	Korea	033780 KS	Kt&G Corp	Cons. Staples	4.38	1	0.78	54.42
Australia	COH AU	Cochlear	Health Care	3.61	-2	0.69	88.18	Korea	010950 KS	S-Oil Corp	Energy	4.37	-3	0.90	42.21
Australia	SYD AU	Sydney Airport	Industrials	6.20	4	1.61	237.94	Korea	003450 KS	Hyundai Securities Co	Financials	3.41	0	0.86	36.39
Australia	SPN AU	Sp Ausnet	Utilities	6.44	-2	1.06	98.81	Korea	088350 KS	Hanwha Life Insurance	Financials	3.32	-3	0.47	32.99
China	3998 HK	Bosideng International Holdings	Cons. Disc.	8.57	-3	1.48	72.93	Korea	005940 KS	Woori Investment & Securities Co	Financials	2.58	-2	0.84	31.54
China	2020 HK	Anta Sports Products	Cons. Disc.	4.89	-3	0.72	68.26	Korea	028050 KS	Samsung Engineering	Industrials	3.15	-1	0.53	32.72
China	1828 HK	Dah Chong Hong Holdings	Cons. Disc.	3.81	-5	0.45	39.18	Korea	002380 KS	Kcc Corp	Industrials	2.56	-2	1.42	55.02
China	1833 HK	Intime Department Store Group Co	Cons. Disc.	3.59	-2	0.61	40.56	Korea	001740 KS	Sk Networks	Industrials	2.01	1	0.38	28.22
China	1044 HK	Hengan International Group	Cons. Staples	2.52	0	0.72	60.94	Korea	012630 KS	Hyundai Development Co	Industrials	1.59	0	0.56	24.64
China	151 HK	Want Want China Holdings	Cons. Staples	2.26	2	0.58	64.28	Korea	009830 KS	Hanwha Chem Corp	Materials	2.03	-3	0.61	29.64
China	2777 HK	Guangzhou R&F Properties	Financials	6.08	-1	0.46	37.91	Korea	036460 KS	Korea Gas Corporation	Utilities	2.09	-2	0.57	24.52
China	123 HK	Yuexiu Property	Financials	5.43	0	0.56	40.81	Malaysia	ROTH MK	British American Tobacco Malaysia	Cons. Staples	4.44	1	1.29	98.19
China	3377 HK	Sino-Ocean Land Holdings	Financials	5.25	2	0.82	42.68	Malaysia	PETD MK	Petronas Dagangan	Energy	3.54	-5	0.99	84.14
China	2007 HK	Country Garden Holdings	Financials	4.97	0	0.45	35.98	Malaysia	MAY MK	Malayan Banking	Financials	5.17	-1	0.77	69.18
China	410 HK	Soho China	Financials	4.73	-4	0.39	47.86	Malaysia	LMC MK	Lafarge Malayan Cement	Materials	4.00	-2	1.21	85.17
China	460 HK	Sihuan Pharmaceutical Holdings	Health Care	2.54	0	0.52	40.79	Malaysia	MAXIS MK	Maxis	Telecom	5.75	-2	1.68	134.62
China	576 HK	Zhejiang Expressway	Industrials	5.89	-1	1.12	74.49	Malaysia	DIGI MK	Digi.Com	Telecom	5.04	2	0.82	104.98
China	177 HK	Jiangsu Expressway	Industrials	5.33	-2	1.28	75.43	Philippines	BPI PM	Bank of The Philippine Islands	Financials	1.93	-1	0.20	39.36
China	267 HK	Citic Pacific	Industrials	4.31	-2	0.49	40.61	Philippines	TEL PM	Philippine Long Distance Telephone	e Telecom	5.81	0	1.29	99.19
China	144 HK	China Merchants Holdings	Industrials	3.28	3	0.41	45.93	Singapore	HPHT SP	Hutchison Port Holdings Trust	Industrials	7.12	-2	2.72	171.19
China	902 HK	Huaneng Power International	Utilities	4.75	-1	0.82	51.55	Taiwan	1434 TT	Formosa Taffeta	Cons. Disc.	6.35	-3	2.21	113.38
Hong Kong	880 HK	Sjm Holdings	Cons. Disc.	4.87	-1	0.69	75.04	Taiwan	2707 TT	Formosa International Hotels Corp	Cons. Disc.	3.46	2	0.97	77.87
Hong Kong	494 HK	Li & Fung	Cons. Disc.	4.61	-2	1.05	77.57	Taiwan	1402 TT	Far Eastern New Century Corp	Industrials	4.51	1	1.02	79.40
Hong Kong	2388 HK	Boc Hong Kong Holdings	Financials	4.93	-2	0.61	63.27	Taiwan	2606 TT	U-Ming Marine Transport Corp	Industrials	2.45	-2	0.60	82.38
Hong Kong	54 HK	Hopewell Holdings	Industrials	3.77	0	0.56	73.81	Taiwan	2451 TT	Transcend Information Inc	IT	7.42	-1	1.41	92.45
India	HMCL IN	Hero Motocorp	Cons. Disc.	3.33	-2	0.32	48.53	Taiwan	3702 TT	Wpg Holdings	IT	6.14	-2	0.80	67.63
India	BJAUT IN	Bajaj Auto	Cons. Disc.	3.05	-2	0.44	42.26	Taiwan	2301 TT	Lite-On Technology Corp	IT	6.00	3	0.59	70.33
India	ITC IN	Itc	Cons. Staples	2.07	-3	0.99	59.89	Taiwan	2385 TT	Chicony Electronics	IT	5.68	-2	0.62	68.00
India	HUVR IN	Hindustan Unilever	Cons. Staples	1.95	-1	0.82	66.84	Taiwan	2325 TT	Siliconware Precision Industries	IT	4.89	-4	1.14	80.31
India	RCAPT IN	Reliance Capital	Financials	2.36	-2	0.81	28.86	Taiwan	1101 TT	Taiwan Cement Corp	Materials	5.17	1	0.84	77.29
India	PIEL IN	Piramal Enterprises	Health Care	1.89	-1	3.58	1000.00	Taiwan	1102 TT	Asia Cement Corp	Materials	4.69	-3	0.73	74.38
India	TATA IN	Tata Steel	Materials	3.62	-1	0.47	33.08	Taiwan	1710 TT	Oriental Union Chemical Corp	Materials	4.60	-3	0.92	80.05
India	ACC IN	Acc	Materials	2.59	-1	0.35	41.58	Taiwan	4904 TT	Far Eastone Telecommunications C	Telecom	5.17	2	0.73	99.58
India	NTPC IN	Ntpc	Utilities	3.05	0	0.35	35.25	Thailand	CPF TB	Charoen Pokphand Foods	Cons. Staples	3.74	-2	0.30	52.50
Indonesia	ASII IJ	Astra International	Cons. Disc.	3.42	-2	0.31	44.91	Thailand	BANPU TB	Banpu	Energy	4.46	-3	0.02	48.26
Indonesia	AALI IJ	Astra Agro Lestari	Cons. Staples	4.71	-5	0.39	56.81	Thailand	SCC TB	Siam Cement	Materials	3.17	1	0.10	49.50
Indonesia	ITMG IJ	Indo Tambangraya Megah	Energy	7.14	2	0.81	81.47					-			
Indonesia	PTBA IJ	Tambang Batubara Bukit Asam	Energy	4.26	3	0.01	53.52								

Note: Data as of 17 May 2013. List of stocks which meet both 1) in the top 1/3 based on dividend yield , and 2) in the top 1/3 based on over-paying measure. The stock universe is the constituents of MSCI AC AP ex Japan index. Source: Worldscope, I/B/E/S, MSCI, Nomura Quantitative Strategies

Appendix VII a: Growing appetite in alternative beta related offerings **NOMURA**

We checked the existing ETFs benchmarked to the Asia Pacific ex-Japan region and shortlisted the ones that seem to offer alternative beta, such as those that fall within the relevant area of value, growth, dividend, RAFI, EPRA/NAREIT, equal-weighted, etc. We identify 39 Asia-Pacific regional or country-focused ETFs with roughly USD 3.5bn assets under management, a relatively small number compared with our estimate of some USD 180bn global ETFs that are related to this space.

AUM and number of alternative beta ETFs benchmarked to AP region or country



Note: Data as of 31 January 2013. We note that the figure represents just a portion of the whole market because many products that relate to this area are not included here, including the non ETFs and internally managed institutional exposures (eg, pension). Source: Bloomberg, Nomura Quantitative Strategies

Cyclicality in active returns exists for minimum volatility and dividend yield strategies, thus the annualized tracking error for these strategies relative to the market is higher, leading to lower information ratios. In contrast, the risk-weighted and value-weighted strategies generated higher information ratios in the developed Asia, while value-weighted strategies delivered best information ratio in emerging Asia.

Annualiseu reluttis sin	ce Jun-2001	Standard	Min Volatility	Risk weighted	Value weighted	Equal weighted	GDP weighted	High DY
AC AP ex-Japan	Annualised return (%)	14.69	15.95	17.20	n/a	16.49	17.03	17.31
	Annualised SD (%)	22.21	17.09	19.73	n/a	23.80	23.71	19.93
	Sharpe ratio	0.66	0.93	0.87	n/a	0.69	0.72	0.87
AC FE ex-Japan	Annualised return (%)	13.95	15.23	16.11	16.26	15.93	16.96	17.57
	Annualised SD (%)	22.95	18.28	19.87	23.61	24.16	24.41	20.12
	Sharpe ratio	0.61	0.83	0.81	0.69	0.66	0.69	0.87
Dev. Pacific ex-Japan	Annualised return (%)	14.51	15.40	17.20	15.43	16.19	14.73	17.57
	Annualised SD (%)	21.48	17.97	19.31	21.69	21.89	21.39	22.08
	Sharpe ratio	0.68	0.86	0.89	0.71	0.74	0.69	0.80
Emerging Asia	Annualised return (%)	15.25	16.77	17.13	18.02	16.65	17.66	19.70
	Annualised SD (%)	24.14	19.91	20.87	24.83	24.90	24.56	21.25
	Sharpe ratio	0.63	0.84	0.82	0.73	0.67	0.72	0.93
Excess returns versus	Standard Index since Jun-2001		Min Volatility	Risk weighted	Value weighted	Equal weighted	GDP weighted	Hiah DY
AC AP ex-Japan	Annualised excess return (%)		1.27	2.51	n/a	1.00		
			1.21	2.01	11/d	1.80	2.34	2.62
	Annualised TE (%)		6.66	5.06	n/a	5.08	2.34 5.20	<u> </u>
	Annualised TE (%) Information ratio							2.62
AC FE ex-Japan	()		6.66	5.06	n/a	5.08	5.20	2.62 6.06
AC FE ex-Japan	Information ratio		6.66 0.19	5.06 0.50	n/a n/a	5.08 0.35	5.20 0.45	2.62 6.06 0.43
AC FE ex-Japan	Information ratio Annualised excess return (%)		6.66 0.19 1.29	5.06 0.50 2.16	n/a 	5.08 0.35 1.98	5.20 0.45 3.01	2.62 6.06 0.43 3.62
	Information ratio Annualised excess return (%) Annualised TE (%)		6.66 0.19 1.29 6.05	5.06 0.50 2.16 6.07	n/a n/a 2.31 2.59	5.08 0.35 1.98 5.05	5.20 0.45 3.01 6.19	2.62 6.06 0.43 3.62 5.73
	Information ratio Annualised excess return (%) Annualised TE (%) Information ratio		6.66 0.19 1.29 6.05 0.21	5.06 0.50 2.16 6.07 0.36	n/a n/a 2.31 2.59 0.89	5.08 0.35 1.98 5.05 0.39	5.20 0.45 3.01 6.19 0.49	2.62 6.06 0.43 3.62 5.73 0.63
AC FE ex-Japan Dev. Pacific ex-Japan	Information ratio Annualised excess return (%) Annualised TE (%) Information ratio Annualised excess return (%)		6.66 0.19 1.29 6.05 0.21 0.89	5.06 0.50 2.16 6.07 0.36 2.69	n/a 2.31 2.59 0.89 0.92	5.08 0.35 1.98 5.05 0.39 1.68	5.20 0.45 3.01 6.19 0.49 0.22	2.62 6.06 0.43 3.62 5.73 0.63 3.06
	Information ratio Annualised excess return (%) Annualised TE (%) Information ratio Annualised excess return (%) Annualised TE (%)		6.66 0.19 1.29 6.05 0.21 0.89 5.44	5.06 0.50 2.16 6.07 0.36 2.69 5.16	n/a 2.31 2.59 0.89 0.92 2.01	5.08 0.35 1.98 5.05 0.39 1.68 4.24	5.20 0.45 3.01 6.19 0.49 0.22 1.27	2.62 6.06 0.43 3.62 5.73 0.63 3.06 8.10
Dev. Pacific ex-Japan	Information ratio Annualised excess return (%) Annualised TE (%) Information ratio Annualised excess return (%) Annualised TE (%) Information ratio		6.66 0.19 1.29 6.05 0.21 0.89 5.44 0.16	5.06 0.50 2.16 6.07 0.36 2.69 5.16 0.52	n/a 2.31 2.59 0.89 0.92 2.01 0.46	5.08 0.35 1.98 5.05 0.39 1.68 4.24 0.40	5.20 0.45 3.01 6.19 0.49 0.22 1.27 0.17	2.62 6.06 0.43 3.62 5.73 0.63 3.06 8.10 0.38

Performance of some alternative beta strategy indices versus standard market indices

Note: Annualised excess returns since June 2001. Source: Bloomberg, Thomson Reuters Datastream, MSCI, Nomura Quantitative Strategies

We construct a set of hypothetical risk-based strategy portfolios using minimum variance, risk parity, and equal-weighted approaches. We attempt to highlight the differences in the profile of these strategies with respect to the major return drivers. These risk-based strategies revealed low predicted beta and therefore provided downside protection during market downturn; minimum variance portfolios reduced total risk but showed higher active risk, the worst active drawdown, and high average turnover.

	Mini	mum Varia	nce	I	Risk Parity		Eq	ual-weight	ed
Summary	APxJ	PACxJ	EM Asia	APxJ	PACxJ	EM Asia	APxJ	PACxJ	EM Asia
Sharpe Ratio	1.19	1.05	1.10	1.03	0.79	0.91	1.05	0.74	0.90
Information Ratio	0.29	0.09	0.35	0.41	0.48	0.37	0.51	0.53	0.42
% of Period with Positive Active Return	50.00%	47.22%	52.78%	54.17%	54.86%	54.86%	54.17%	56.25%	54.86%
Returns									
Total return	475.63%	354.54%	525.70%	483.26%	430.72%	469.30%	519.83%	423.02%	481.98%
Annualized total return	15.70%	13.45%	16.51%	15.83%	14.92%	15.60%	16.42%	14.78%	15.81%
Total Benchmark return	266.83%	299.39%	253.76%	266.83%	299.39%	253.76%	266.83%	299.39%	253.76%
Annualized Benchmark return	11.44%	12.23%	11.10%	11.44%	12.23%	11.10%	11.44%	12.23%	11.10%
Annualized Active return	4.26%	1.22%	5.41%	4.39%	2.69%	4.49%	4.98%	2.55%	4.71%
Worst active drawdown	-25.61%	-46.60%	-27.01%	-19.90%	-12.00%	-19.30%	-18.65%	-11.48%	-17.75%
Risk									
Total Risk (average predicted)	11%	14%	12%	14%	18%	14%	15%	19%	15%
Total Risk (realized)	13.23%	12.76%	14.98%	15.31%	18.96%	17.06%	15.70%	19.98%	17.57%
Benchmark Risk (realized)	22.25%	21.66%	24.09%	22.25%	21.66%	24.09%	22.25%	21.66%	24.09%
Active Risk (average predicted)	15.60%	13.84%	17.74%	11.06%	6.17%	13.39%	10.16%	5.21%	12.56%
Active Risk (realized)	14.92%	14.29%	15.59%	10.75%	5.58%	12.05%	9.73%	4.83%	11.16%
Average Predicted Beta	0.38	0.51	0.35	0.57	0.80	0.52	0.62	0.85	0.57
Trading									
Average monthly turnover (1-way)	31%	23%	32%	23%	10%	22%	23%	10%	23%
Average number of names	41.17	28.47	43.74	100.00	100.00	100.00	100.00	100.00	100.00

Return, drawdown, risk, and turnover summary of hypothetical risk-based strategy portfolios

Note: Universe is based on MSCI AC Asia Pacific ex Japan, Developed Pacific ex Japan, and Emerging Asia regions. We pre-select the 100 stocks with the lowest volatility factor exposure as the universe. Back-test period is February 2001 to end-January 2013. Source: Axioma, MSCI, Nomura Quantitative Strategies

The hypothetical risk-based strategy portfolios have negative exposure on volatility, size, momentum, growth and liquidity.

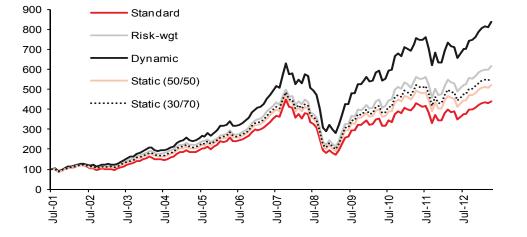
,	571 5		-			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Mini	mum Varian	ice		Risk Parity		Equal-weighted		
	APxJ	PACxJ	EM Asia	APxJ	PACxJ	EM Asia	APxJ	PACxJ	EM Asia
Average active weight by sector									
Consumer Discretionary	2.59%	3.86%	-1.91%	2.17%	4.57%	-3.55%	1.70%	4.83%	-3.76%
Consumer Staples	2.26%	-6.59%	9.42%	1.79%	-2.05%	5.62%	1.54%	-1.65%	4.55%
Energy	0.28%	-3.69%	-0.09%	-2.21%	-0.88%	-0.93%	-2.88%	0.30%	-0.97%
Financials	-30.15%	-43.40%	-18.19%	-1.41%	-10.33%	2.49%	2.98%	-7.55%	5.86%
Health Care	-0.13%	-0.21%	8.72%	0.23%	1.13%	2.35%	0.06%	1.27%	1.59%
Industrials	-2.48%	-0.22%	-1.92%	8.00%	7.80%	5.30%	8.82%	8.30%	6.16%
Information Technology	-13.62%	-0.43%	-20.28%	-13.62%	0.50%	-19.25%	-13.62%	0.58%	-19.42%
Materials	-10.84%	-14.71%	-8.30%	-6.97%	-12.63%	-1.73%	-5.83%	-11.65%	-0.28%
Telecommunication Services	20.50%	23.00%	22.12%	4.18%	4.83%	5.55%	1.52%	1.67%	3.05%
Utilities	31.59%	42.39%	10.43%	7.84%	7.07%	4.14%	5.72%	3.90%	3.24%
Average active exposure by style factors									
Exchange Rate Sensitivity	0.001	0.022	-0.020	0.011	0.021	0.015	0.016	0.019	0.025
Growth	-0.434	-0.173	-0.573	-0.322	-0.084	-0.430	-0.297	-0.076	-0.410
Leverage	0.100	0.242	-0.036	0.121	0.125	0.092	0.136	0.131	0.118
Liquidity	-0.405	-0.299	-0.468	-0.326	-0.115	-0.404	-0.308	-0.080	-0.397
Medium-Term Momentum	-0.062	-0.026	-0.094	-0.063	-0.023	-0.129	-0.064	-0.027	-0.140
Short-Term Momentum	0.034	0.050	0.035	-0.022	0.000	-0.034	-0.033	-0.012	-0.050
Size	-0.428	-0.381	-0.465	-0.413	-0.355	-0.456	-0.395	-0.345	-0.445
Value	-0.095	-0.081	-0.065	0.038	0.056	0.080	0.056	0.064	0.106
Volatility	-1.038	-0.610	-1.141	-0.812	-0.168	-0.874	-0.780	-0.122	-0.832
Return contribution by factor	2.77%	-0.77%	6.85%	5.86%	1.38%	7.10%	6.43%	1.67%	7.14%
Style	4.34%	2.16%	4.99%	4.52%	0.86%	4.58%	4.71%	0.70%	4.71%
Country	-1.02%	1.21%	-0.17%	-0.53%	0.22%	0.01%	-0.70%	0.05%	0.03%
Industry	1.73%	-0.63%	3.46%	2.42%	0.55%	3.43%	2.43%	0.55%	3.23%
Currency	-1.88%	-3.07%	-0.69%	-0.45%	-0.35%	-0.72%	-0.04%	0.16%	-0.77%
Local	-0.51%	-0.67%	-0.75%	-0.20%	-0.11%	-0.21%	-0.08%	-0.01%	-0.07%
Market	0.12%	0.23%	0.01%	0.12%	0.22%	0.01%	0.12%	0.22%	0.01%
Style factor return contribution	4.34%	2.16%	4.99%	4.52%	0.86%	4.58%	4.71%	0.70%	4.71%
Exchange Rate Sensitivity	-0.08%	-0.06%	-0.04%	-0.04%	0.00%	-0.09%	-0.03%	0.02%	-0.10%
Growth	-0.84%	-0.28%	-1.23%	-0.64%	-0.13%	-1.04%	-0.61%	-0.12%	-1.03%
Leverage	0.05%	-0.23%	0.12%	-0.13%	-0.15%	-0.18%	-0.19%	-0.12%	-0.25%
Liquidity	-0.10%	-0.23%	0.12 %	-0.09%	-0.36%	0.23%	-0.09%	-0.33%	0.22%
Medium-Term Momentum	-1.65%	-0.87%	-2.00%	-1.41%	0.12%	-1.90%	-1.40%	0.13%	-1.94%
Short-Term Momentum	-1.98%	-0.87%	-2.00%	-1.41%	-0.54%	-0.96%	-0.85%	-0.29%	-0.69%
Size	-0.84%	-0.96%	-2.00%	-0.80%	-0.54%	-0.90%	-0.85%	-0.29%	-0.96%
Value	-0.84%	-0.96%	-0.40%	-0.80%	0.51%	-1.01%	-0.75%	0.60%	-0.96%
	-0.58%	-0.30% 6.88%			2.10%	9.14%		1.56%	8.89%
Volatility	10.30%	0.88%	11.22%	0.04%	2.10%	9.14%	8.30%	1.50%	0.09%

Note: Universe is based on MSCI AC Asia Pacific ex Japan, Developed Pacific ex Japan, and Emerging Asia regions. The analysis is USD-based and the scaling on returns is annualised (geometric). Source: Axioma, MSCI, Nomura Quantitative Strategies 40

Appendix VII e: Application within a market timing framework

Risk-based strategies aim to reduce risk and have low beta, hence they tend to underperform in market rallies but outperform when markets decline. This suggests that risk-based strategies can be used for tactical asset allocation within a market timing framework. We consider a momentum approach to select the equity allocation and switch between the regional benchmark and the risk-weighted index. The simple risk-based strategy diversification works in Asia. The approach produces better risk-adjusted performance and is able to lower the tail risk compared with other alternative approaches.

Cumulative performance of equity portfolios with allocation to risk-weighted strategy



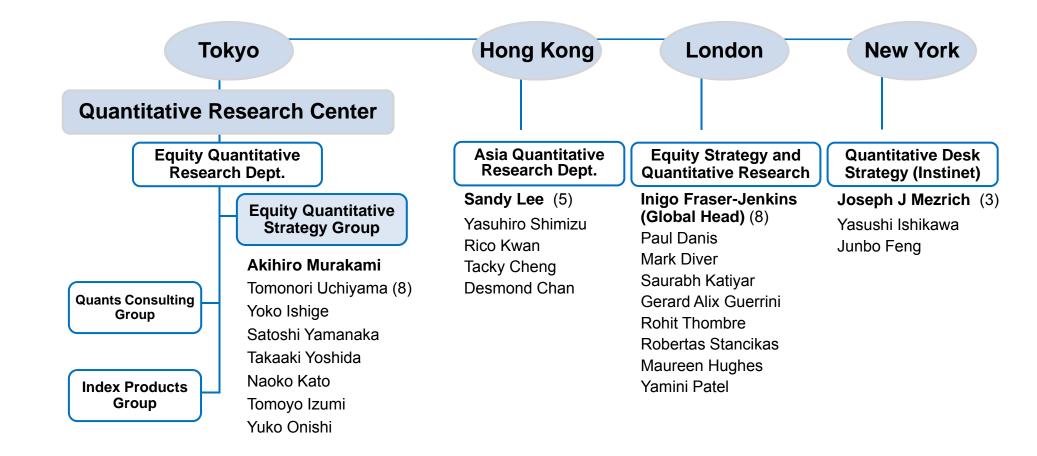
	Standard	Risk-wgt	Dynamic	Static (50/50)	Static (30/70)
Average return (%)	15.17	17.51	20.30	16.34	16.81
Standard deviations (%)	22.09	19.64	20.28	20.75	20.27
R/R	0.69	0.89	1.00	0.79	0.83
Max drawdown (%)	-68.25	-63.78	-62.52	-66.01	-65.12
Worst monthly drawdown (%)	-24.46	-23.64	-23.64	-24.05	-23.89

Note: For Dynamic approach, we monitor the past three-month gross total return of the standard cap-weighted index (benchmark) and the risk-weighted strategy index every month and then select the top-performing index, hold either the market benchmark or the risk-weighted index for one month. Static (50/50) and Static (30/70) refer to static allocation of equity portfolios with 50%/50% and 30%/70% weightings, respectively, in Standard AC Asia Pacific ex Japan cap-weighted Index and the Risk-weighted Strategy Index. Source: Bloomberg, Thomson Reuters Datastream, MSCI, Nomura Quantitative Strategies

NOMURA

Appendix VIII: Nomura Global Quant Strategy





NOMURA

Any Authors named on this report are Research Analysts unless otherwise indicated

Analyst Certification

I, Sandy Lee, hereby certify (1) that the views expressed in this Research report accurately reflect my personal views about any or all of the subject securities or issuers referred to in this Research report, (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this Research report and (3) no part of my compensation is tied to any specific investment banking transactions performed by Nomura Securities International, Inc., Nomura International plc or any other Nomura Group company.

Important Disclosures

Online availability of research and conflict-of-interest disclosures

Nomura research is available on <u>www.nomuranow.com/research</u>, Bloomberg, Capital IQ, Factset, MarkitHub, Reuters and ThomsonOne. Important disclosures may be read at <u>http://go.nomuranow.com/research/globalresearch/g</u>

The analysts responsible for preparing this report have received compensation based upon various factors including the firm's total revenues, a portion of which is generated by Investment Banking activities. Unless otherwise noted, the non-US analysts listed at the front of this report are not registered/qualified as research analysts under FINRA/NYSE rules, may not be associated persons of NSI, and may not be subject to FINRA Rule 2711 and NYSE Rule 472 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

Nomura Global Financial Products Inc. ("NGFP") Nomura Derivative Products Inc. ("NDPI") and Nomura International plc. ("NIplc") are registered with the Commodities Futures Trading Commission and the National Futures Association (NFA) as swap dealers. NGFP, NDPI, and NIplc are generally engaged in the trading of swaps and other derivative products, any of which may be the subject of this report.

Any authors named in this report are research analysts unless otherwise indicated. *Industry Specialists* identified in some Nomura International plc research reports are employees within the Firm who are responsible for the sales and trading effort in the sector for which they have coverage. Industry Specialists do not contribute in any manner to the content of research reports in which their names appear. *Marketing Analysts* identified in some Nomura research reports are research analysts employed by Nomura International plc who are primarily responsible for marketing Nomura's Equity Research product in the sector for which they have coverage. Marketing Analysts may also contribute to research reports in which their names appear and publish research on their sector.

Distribution of ratings (Global)

The distribution of all ratings published by Nomura Global Equity Research is as follows:

43% have been assigned a Buy rating which, for purposes of mandatory disclosures, are classified as a Buy rating; 40% of companies with this rating are investment banking clients of the Nomura Group* 46% have been assigned a Neutral rating which, for purposes of mandatory disclosures, is classified as a Hold rating; 48% of companies with this rating are investment banking clients of the Nomura Group*.

11% have been assigned a Reduce rating which, for purposes of mandatory disclosures, are classified as a Sell rating; 23% of companies with this rating are investment banking clients of the Nomura Group*.

As at 31 March 2013. *The Nomura Group as defined in the Disclaimer section at the end of this report.

Explanation of Nomura's equity research rating system in Europe, Middle East and Africa, US and Latin America

The rating system is a relative system indicating expected performance against a specific benchmark identified for each individual stock. Analysts may also indicate absolute upside to target price defined as (fair value - current price)/current price, subject to limited management discretion. In most cases, the fair value will equal the analyst's assessment of the current intrinsic fair value of the stock using an appropriate valuation methodology such as discounted cash flow or multiple analysis, etc.

STOCKS

A rating of 'Buy', indicates that the analyst expects the stock to outperform the Benchmark over the next 12 months. A rating of 'Reuce', indicates that the analyst expects the stock to perform in line with the Benchmark over the next 12 months. A rating of 'Reuce', indicates that the analyst expects the stock to underperform the Benchmark over the next 12 months. A rating of 'Suspended', indicates that the analyst expects the stock to underperform the Benchmark over the next 12 months. A rating of 'Suspended', indicates that the rating, target price and estimates have been suspended temporarily to comply with applicable regulations and/or firm policies in certain circumstances including, but not limited to, when Nomura is acting in an advisory capacity in a merger or strategic transaction involving the company. Benchmarks are as follows: United States/Europe: please see valuation methodologies for explanations of relevant benchmarks for stocks, which can be accessed at: http://go.nomuranow.com/research/globalresearchportal/pages/disclosures/disclosures.aspx; Global Emerging Markets (ex-Asia): MSCI Emerging Markets ex-Asia, unless otherwise stated in the valuation methodology.

SECTORS

A 'Bullish' stance, indicates that the analyst expects the sector to outperform the Benchmark during the next 12 months. A 'Neutral' stance, indicates that the analyst expects the sector to perform in line with the Benchmark during the next 12 months. A 'Bearish' stance, indicates that the analyst expects the sector to underperform the Benchmark during the next 12 months. Benchmarks are as follows: United States: S&P 500; Europe: Dow Jones STOXX 600; Global Emerging Markets (ex-Asia): MSCI Emerging Markets ex-Asia.

Explanation of Nomura's equity research rating system in Japan and Asia ex-Japan

STOCKS

Stock recommendations are based on absolute valuation upside (downside), which is defined as (Target Price - Current Price) / Current Price, subject to limited management discretion. In most cases, the Target Price will equal the analyst's 12-month intrinsic valuation of the stock, based on an appropriate valuation methodology such as discounted cash flow, multiple analysis, etc. A '**Buy'** recommendation indicates that potential upside is 15% or more. A '**Neutral'** recommendation indicates that potential upside is less than 15% or downside is less than 5%. A '**Reduce'** recommendation indicates that potential downside is 5% or more. A rating of '**Suspended'** indicates that the rating and target price have been suspended temporarily to comply with applicable regulations and/or firm policies in certain circumstances including when Nomura is acting in an advisory capacity in a merger or strategic transaction involving the subject company. Securities and/or companies that are labelled as '**Not rated'** or shown as '**No rating'** are not in regular research coverage of the Nomura entity identified in the top banner. Investors should not expect continuing or additional information from Nomura relating to such securities and/or companies.

SECTORS

A 'Bullish' rating means most stocks in the sector have (or the weighted average recommendation of the stocks under coverage is) a positive absolute recommendation. A 'Neutral' rating means most stocks in the sector have (or the weighted average recommendation of the stocks under coverage is) a neutral absolute recommendation. A 'Bearish' rating means most stocks in the sector have (or the weighted average recommendation of the stocks under coverage is) a neutral absolute recommendation. A 'Bearish' rating means most stocks in the sector have (or the weighted average recommendation of the stocks under coverage is) a neutral absolute recommendation.

Target Price

A Target Price, if discussed, reflects in part the analyst's estimates for the company's earnings. The achievement of any target price may be impeded by general market and macroeconomic trends, and by other risks related to the company or the market, and may not occur if the company's earnings differ from estimates.

NOMURA

Disclaimers

This document contains material that has been prepared by the Nomura entity identified at the top or bottom of page 1 herein, if any, and/or, with the sole or joint contributions of one or more Nomura entities whose employees and their respective affiliations are specified on page 1 herein or identified elsewhere in the document. The term "Nomura Group" used herein refers to Nomura Holdings, Inc. or any of its affiliates or subsidiaries and may refer to one or more Nomura Group companies including: Nomura Securities Co., Ltd. ('NSC') Tokyo, Japan; Nomura International plc ('NIplc'), UK; Nomura Securities International, Inc. ('NSI'), New York, US; Nomura International (Hong Kong) Ltd. ('NIHK'), Hong Kong; Nomura Financial Investment (Korea) Co., Ltd. ('NSL'), Singapore (Registration on Nomura analysts registered with the Korea Financial Investment Association ('KOFIA') can be found on the KOFIA Intranet at http://dis.kofia.or.kr); Nomura Singapore Ltd. ('NSL'), Singapore (Registration number 197201440E, regulated by the Monetary Authority of Singapore); Nomura Australia Ltd. ('NAL'), Australia (ABN 48 003 032 513), regulated by the Australian financial services licence number 246412; P.T. Nomura Indonesia ('PTNI'), Indonesia; Nomura Securities Malaysia Sdn. Bhd. ('NSM'), Malaysia; NIHK, Taipei Branch ('NITB'), Taiwan; Nomura Financial Advisory and Securities (India) Private Limited ('NFASL'), Mumbai, India (Registered Address: Ceejay House, Level 11, Plot F, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai- 400 018, India; Tel: +91 22 4037 4037, Fax: +91 22 4037 4111; SEBI Registration No: BSE INB011299030, NSE INB231299034, INF231299034, INE 231299034, INCX: INE261299034) and Nipic, Madrid Branch ('NIpic, Madrid'). 'CNS Thailand' next to an analyst's name on the front page of a research report indicates that the analyst is employed by Capital Nomura Securities Public Company Limited ('CNS') to provide research assistance services to NSL under a Research Assistance Agre

THIS MATERIAL IS: (I) FOR YOUR PRIVATE INFORMATION, AND WE ARE NOT SOLICITING ANY ACTION BASED UPON IT; (II) NOT TO BE CONSTRUED AS AN OFFER TO SELL OR A SOLICITATION OF AN OFFER TO BUY ANY SECURITY IN ANY JURISDICTION WHERE SUCH OFFER OR SOLICITATION WOULD BE ILLEGAL; AND (III) BASED UPON INFORMATION FROM SOURCES THAT WE CONSIDER RELIABLE, BUT HAS NOT BEEN INDEPENDENTLY VERIFIED BY NOMURA GROUP.

Nomura Group does not warrant or represent that the document is accurate, complete, reliable, fit for any particular purpose or merchantable and does not accept liability for any act (or decision not to act) resulting from use of this document and related data. To the maximum extent permissible all warranties and other assurances by Nomura group are hereby excluded and Nomura Group shall have no liability for the use, misuse, or distribution of this information.

Opinions or estimates expressed are current opinions as of the original publication date appearing on this material and the information, including the opinions and estimates contained herein, are subject to change without notice. Nomura Group is under no duty to update this document. Any comments or statements made herein are those of the author(s) and may differ from views held by other parties within Nomura Group. Clients should consider whether any advice or recommendation in this report is suitable for their particular circumstances and, if appropriate, seek professional advice, including tax advice. Nomura Group does not provide tax advice.

Nomura Group, and/or its officers, directors and employees, may, to the extent permitted by applicable law and/or regulation, deal as principal, agent, or otherwise, or have long or short positions in, or buy or sell, the securities, commodities or instruments, or options or other derivative instruments based thereon, of issuers or securities mentioned herein. Nomura Group companies may also act as market maker or liquidity provider (within the meaning of applicable regulations in the UK) in the financial instruments of the issuer. Where the activity of market maker is carried out in accordance with the definition given to it by specific laws and regulations of the US or other jurisdictions, this will be separately disclosed within the specific issuer disclosures.

This document may contain information obtained from third parties, including ratings from credit ratings agencies such as Standard & Poor's. Reproduction and distribution of third party content in any form is prohibited except with the prior written permission of the related third party. Third party content providers do not guarantee the accuracy, completeness, timeliness or availability of any information, including ratings, and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content, including ratings are statements of opinions and are not statements of fact or recommendations to purchase hold or sell securities. They do not address the suitability of securities or the suitability of securities for investment purposes, and should not be relied on as investment advice.

Any MSCI sourced information in this document is the exclusive property of MSCI Inc. ('MSCI'). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, re-disseminated 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 MSCI and the MSCI indexes are services marks of MSCI and its affiliates.

Investors should consider this document as only a single factor in making their investment decision and, as such, the report should not be viewed as identifying or suggesting all risks, direct or indirect, that may be associated with any investment decision. Nomura Group produces a number of different types of research product including, among others, fundamental analysis, quantitative analysis and short term trading ideas; recommendations contained in one type of research product may differ from recommendations contained in other types of research product, whether as a result of differing time horizons, methodologies or otherwise. Nomura Group publishes research product in a number of different ways including the posting of product on Nomura Group portals and/or distribution directly to clients. Different groups of clients may receive different products and services from the research department depending on their individual requirements. Clients outside of the US may access the Nomura Research Trading Ideas platform (Retina) at http://go.nomuranow.com/equities/tradingideas/retina/

Figures presented herein may refer to past performance or simulations based on past performance which are not reliable indicators of future performance. Where the information contains an indication of future performance, such forecasts may not be a reliable indicator of future performance. Moreover, simulations are based on models and simplifying assumptions which may oversimplify and not reflect the future distribution of returns.

NO/MURA

Certain securities are subject to fluctuations in exchange rates that could have an adverse effect on the value or price of, or income derived from, the investment.

The securities described herein may not have been registered under the US Securities Act of 1933 (the '1933 Act'), and, in such case, may not be offered or sold in the US or to US persons unless they have been registered under the 1933 Act, or except in compliance with an exemption from the registration requirements of the 1933 Act. Unless governing law permits otherwise, any transaction should be executed via a Nomura entity in your home jurisdiction.

This document has been approved for distribution in the UK and European Economic Area as investment research by NIplc. NIplc is authorised by the Prudential Regulation Authority ('PRA'), regulated by the Financial Conduct Authority and the PRA, and is a member of the London Stock Exchange. This document does not constitute a personal recommendation within the meaning of applicable regulations in the UK, or take into account the particular investment objectives, financial situations, or needs of individual investors. This document is intended only for investors who are 'eligible counterparties' or 'professional clients' for the purposes of applicable regulations in the UK, and may not, therefore, be redistributed to persons who are 'retail clients' for such purposes. This document has been approved by NIHK, which is regulated by the Hong Kong Securities and Futures Commission, for distribution in Hong Kong by NIHK. This document has been approved for distribution in Australia by the ASIC. This document has also been approved for distribution in Malaysia by NSM. In Singapore, this document has been distributed by NSL. NSL accepts legal responsibility for the content of this document, where it concerns securities, futures and foreign exchange, issued by their foreign affiliates in respect of recipients who are not accredited, expert or institutional investors as defined by the Securities and Futures Act (Chapter 289). Recipients of this document in Singapore should contact NSL in respect of matters arising from, or in connection with, this document. Unless prohibited by the provisions of Regulation S of the 1933 Act, this material is distributed in the US, by NSI, a US-registered broker-dealer, which accepts responsibility for its contents in accordance with the provisions of Rule 15a-6, under the US Securities Exchange Act of 1934.

This document has not been approved for distribution to persons other than 'Authorised Persons', 'Exempt Persons' or 'Institutions' (as defined by the Capital Markets Authority) in the Kingdom of Saudi Arabia ('Saudi Arabia') or to clients other than 'professional clients' (as defined by the Dubai Financial Services Authority) in the United Arab Emirates ('UAE') by Nomura Saudi Arabia, NIplc or any other member of Nomura Group, as the case may be. Neither this document nor any copy thereof may be taken or transmitted or distributed, directly or indirectly, by any person other than those authorised to do so into Saudi Arabia or in the UAE or to any person other than 'Authorised Persons', 'Exempt Persons' or 'Institutions' located in Saudi Arabia or to clients other than 'professional clients' in the UAE. By accepting to receive this document, you represent that you are not located in Saudi Arabia or that you are an 'Authorised Person', an 'Exempt Person' or an 'Institution' in Saudi Arabia or that you are a 'professional client' in the UAE and agree to comply with these restrictions. Any failure to comply with these restrictions may constitute a violation of the laws of the UAE or Saudi Arabia. NO PART OF THIS MATERIAL MAY BE (I) COPIED, PHOTOCOPIED, OR DUPLICATED IN ANY FORM, BY ANY MEANS; OR (II) REDISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF A MEMBER OF NOMURA GROUP. If this document has been distributed by electronic transmission, such as e-mail, then such transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this document, which may arise as a result of electronic transmission. If verification is required, please request a hard-copy version.

Nomura Group manages conflicts with respect to the production of research through its compliance policies and procedures (including, but not limited to, Conflicts of Interest, Chinese Wall and Confidentiality policies) as well as through the maintenance of Chinese walls and employee training.

Additional information is available upon request and disclosure information is available at the Nomura Disclosure web page:

http://go.nomuranow.com/research/globalresearchportal/pages/disclosures/disclosures.aspx

Copyright © 2013 Nomura. All rights reserved.