J.P.Morgan CAZENOVE

Global Factor Performance Summary

June 2014

Earnings & Sentiment Factors were top performers across the world, being particularly strong in Emerging Markets. Price Momentum continued to do well after the underperformance earlier in the year. It continues to struggle in Australia, though. Value was poor in Asia Ex but did well in other Emerging markets, Japan and Australia. It has failed for the second straight month in Europe. Quality continued to outperform in Europe and EM (x Asia) but was less impressive in rest of the developed world. A common theme emerging based on feedback from several clients suggests that 'Quality at a Reasonable Price' is gaining more traction, perhaps reflecting some of the uncertainty seen on the macro front.

Our generic multi-Factor Q-Score Model was strong in the Emerging Markets and Japan but struggled to impress in Europe, US and Australia.

This monthly publication summarizes performance of a range of popular Quant factors. In all, nine (MSCI based) universes are included in the report: US, Europe, Japan, Australia, Asia ex Japan, GEM, EM ex Asia, Global Developed and All World.

For each universe we include a summary of performance over the last month, 12 months, QTD and YTD for four popular composite alpha sources that we refer to as the Value, Earnings, Quality and Price families.

We also include a table detailing performance over the last month for 42 popular alpha and risk factors.

Monthly L/S Returns for June 2014 around the world

Universe	Valuation	Earnings	Price	Quality	Model
Asia Ex Jp	-1.7%	2.9%	3.3%	0.5%	2.9%
Japan	0.9%	0.9%	0.8%	-1.9%	3.1%
Australia	1.9%	0.2%	-3.6%	-2.9%	-1.5%
Europe	-1.7%	0.7%	1.1%	2.6%	-1.5%
US	0.0%	0.3%	0.4%	-0.8%	-0.4%
GEM	-1.0%	3.3%	3.9%	1.4%	4.4%
EM x Asia	3.2%	3.4%	5.2%	2.6%	6.0%
GDM	0.0%	0.9%	-0.1%	-1.5%	-0.5%
World	-0.7%	1.3%	0.9%	-0.8%	0.9%

Source: Barra, MSCI, Thomson Reuters, J.P. Morgan

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See page 45 for contact details

See page 46 for analyst certification and important disclosures, including non-US analyst disclosures.

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Introduction

This report published monthly summarises factor returns for a range of popular quant factors in a range of global universes.

All factors are normalized relative to country or sector as appropriate. Returns are equal weighted and monthly rebalanced. The long portfolio consists of the top 10% (decile 1) of stocks for the relevant Factor with the short portfolios consisting of the bottom 10% (decile 10).

The Universes included are shown in the table below. Factor definitions can be found at the end of this report.

Table 1: Universes Included

Universe	Normalisation Method	Analysis Style
Asia Ex Jp	Country Neutral	Decile
Japan	Sector Neutral	Decile
Australia	Free	Quintile
Europe	Sector Neutral	Decile
US	Sector Neutral	Decile
GEM	Country Neutral	Decile
EM x Asia	Country Neutral	Decile
GDM	Sector Neutral	Decile
World	Country Neutral	Decile

Source: J.P. Morgan

Family Summary

For each universe we include a summary of performance over the last month, 12 months, YTD and QTD for 4 popular composite alpha sources that we refer to as the Value, Earnings, Quality and Price families. We also include performance information for a simple combination of these family factors (refer to factor definitions for more information).

Factor Summary

We also include a table detailing performance over the last month for 42 popular alpha and risk factors. For each factor we provide returns data as well as the monthly Information coefficient (IC) calculated by correlating start of month scores with subsequent returns. This provides a more robust picture on factor efficacy than returns alone given it is possible for the returns to be distorted by outliers.

Factors are shown in two tables. One is sorted by L/S return over the month and one by factor family.

Factor Summary Chart

For a quick visual reference the same 42 factors are charted for each universe. The chart shows monthly L/S returns and average monthly L/S returns over the last year.

For more information on this product or for any custom backtest requests please contact Quant Strategy (quant strategy @jpmorgan.com).

Quick summary

Earnings & Sentiment Factors were top performers across the world, being particularly strong in Emerging Markets. Price Momentum continued to do well after the underperformance earlier in the year. Value was poor in Asia Ex but did well in other Emerging markets, Japan and Australia. Quality continued to outperform in Europe and EM (x Asia) but was less impressive in rest of the developed world.

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Our generic multi-Factor Q-Score Model was strong in the Emerging Markets and Japan but struggled to impress in Europe, US and Australia.

Table 2: Monthly L/S Returns for June 2014 for global universes

Universe	Valuation	Earnings	Price	Quality	Model
Asia Ex Jp	-1.7%	2.9%	3.3%	0.5%	2.9%
Japan	0.9%	0.9%	0.8%	-1.9%	3.1%
Australia	1.9%	0.2%	-3.6%	-2.9%	-1.5%
Europe	-1.7%	0.7%	1.1%	2.6%	-1.5%
US	0.0%	0.3%	0.4%	-0.8%	-0.4%
GEM	-1.0%	3.3%	3.9%	1.4%	4.4%
EM x Asia	3.2%	3.4%	5.2%	2.6%	6.0%
GDM	0.0%	0.9%	-0.1%	-1.5%	-0.5%
World	-0.7%	1.3%	0.9%	-0.8%	0.9%

Source: Barra, MSCI, Thomson Reuters, J.P. Morgan

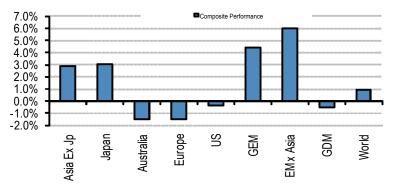
in Emerging Markets and Japan

Table 3: Monthly Information Coefficients for June 2014 for global universes

Universe	Valuation	Earnings	Price	Quality	Model
Asia Ex Jp	-2.9%	14.2%	18.9%	4.4%	15.4%
Japan	11.8%	9.1%	9.9%	-10.4%	13.8%
Australia	16.9%	-0.7%	-23.2%	-11.6%	-5.9%
Europe	-20.3%	1.1%	-1.2%	13.0%	-5.5%
US	-0.9%	4.2%	4.3%	-15.7%	-1.9%
GEM	-0.5%	14.2%	18.6%	6.8%	17.4%
EM x Asia	15.4%	13.3%	17.7%	7.4%	24.5%
GDM	-5.1%	11.2%	-4.6%	-10.1%	-1.6%
World	-2.0%	11.9%	2.8%	-4.7%	4.8%

Source: Barra, MSCI, Thomson Reuters, J.P. Morgan

Figure 1: Performance of a simple Quant composite signal through June

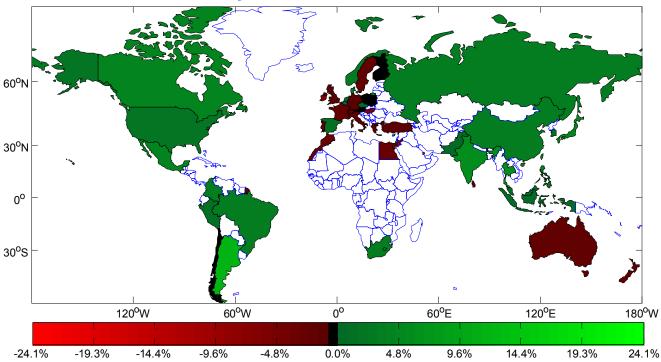


Source: Barra, MSCI, Thomson Reuters, J.P. Morgan

Earnings & Sentiment Factors were strong across the world with all regions showing flat to positive returns.

Our Q-Score Model was strong in Emerging Markets and Japar but underperformed in rest of the developed markets.

MSCI All World Country Performance – June 2014



CTY	Country	Market	Local Total Return	CTY	Country	Market	Local Total Return
AllWld	World	DM	1.8%	ACWF	All World	DM+EM	1.9%
AI	Austria	DM	-0.6%	AR	Argentina	ΕM	11.8%
AU	Australia	DM	-1.5%	CL	Chile	LΜ	-0.5%
BE	Belgium	DM	1.1%	CN	China	LΜ	3.3%
BR	Brazil	DM	3.6%	CO	Colombia	EM	3.6%
CA	Canada	DM	4.0%	CZ	Czech Republic	ΕM	0.6%
CH	Switzerland	DM	-1.3%	EG	∟ gy pt	ΕM	-2.5%
DΕ	Germany	DM	-1.0%	GR	Greece	DM	-1.1%
DK	Denmark	DM	3.3%	HU	Hungary	ΕM	-5.0%
ES	Spain	DM	1.4%	וט	Indonesia	ΕM	0.5%
FI	Finland	DM	-0.3%	IL	Israel	LΜ	2.0%
FK	France	DM	-1./%	IN	India	LΜ	5.8%
GB	UK	DM	-1.3%	JO	Jordan	LΜ	-6.0%
HK	Hong Kong	DM	0.7%	KK	Korea	LΜ	0.0%
ΙE	Ireland	DM	-6.4%	LK	Sri Lanka	EM	-1.4%
П	Italy	DM	-0.9%	MA	Morocco	ΕM	-3.1%
JP	Japan	DM	4.8%	MX	Mexico	ΕM	3.9%
MY	Malaysıa	DM	0.7%	PΕ	Peru	ΕM	1.5%
NL	Netherlands	DM	0.6%	PH	Phil	ΕM	2.4%
NO	Norw ay	DM	2.9%	PK	Pakistan	ΕM	0.4%
NZ	New ∠ealand	DM	-1.8%	PL	Poland	LΜ	-0.3%
ΡI	Portugal	DM	-2.8%	QA	Qatar	LΜ	4.5%
SE	Sweden	DM	-1./%	ΙH	I hailand	LΜ	5.6%
SG	Singapore	DM	-0.8%	TR	Turkey	EM	-1.2%
US	USA	DM	2.1%	TW	Taiw an	EM	4.5%
				XB	Israel	ΕM	2.0%
				UAL	United Arab Emirates	LΜ	-24.1%
				QA	Qatar	LΜ	-21.8%
				ZA	South Africa	ΕM	3.5%

Source: MSCI, Bloomberg, J.P. Morgan

Family Summary – MSCI Asia ex Japan

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	-1.7%	2.9%	3.3%	0.5%	2.9%
IC	-2.9%	14.2%	18.9%	4.4%	15.4%
12mth Perf	12.6%	4.5%	1.7%	-1.4%	11.8%
YTD Perf	6.6%	-2.3%	-0.2%	-0.9%	6.6%

Last Month Performance

			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	0.6%	0.5%	-0.1%	0.0%	0.3%	100.6	100.5	99.9	100.0	100.3
3-Jun-14	-0.1%	0.8%	0.8%	0.2%	0.2%	100.5	101.3	100.7	100.2	100.5
4-Jun-14	0.0%	0.0%	0.0%	-0.1%	0.1%	100.5	101.3	100.7	100.1	100.7
5-Jun-14	0.4%	0.2%	0.4%	0.0%	0.4%	100.9	101.5	101.1	100.1	101.1
6-Jun-14	0.1%	0.5%	-0.3%	-0.1%	0.0%	101.0	102.0	100.8	100.0	101.0
9-Jun-14	0.3%	-0.3%	-0.2%	-0.4%	-0.5%	101.3	101.7	100.6	99.6	100.6
10-Jun-14	-0.6%	0.2%	-0.3%	-0.5%	-0.3%	100.8	101.9	100.3	99.1	100.2
11-Jun-14	-0.8%	0.3%	0.4%	0.6%	0.6%	100.0	102.1	100.7	99.7	100.8
12-Jun-14	0.2%	-0.3%	0.0%	-0.1%	0.0%	100.2	101.9	100.7	99.5	100.8
13-Jun-14	-0.1%	-0.3%	-0.1%	0.1%	-0.2%	100.1	101.5	100.5	99.7	100.7
16-Jun-14	-0.3%	0.0%	-0.5%	0.0%	-0.1%	99.8	101.5	100.0	99.6	100.5
17-Jun-14	0.0%	0.0%	0.1%	-0.6%	-0.1%	99.8	101.5	100.1	99.0	100.4
18-Jun-14	-0.6%	0.2%	0.7%	-0.4%	-0.1%	99.2	101.6	100.8	98.6	100.3
19-Jun-14	-0.6%	0.3%	0.3%	0.4%	0.3%	98.6	102.0	101.1	99.0	100.6
20-Jun-14	0.0%	-0.1%	0.3%	0.1%	0.1%	98.6	101.9	101.5	99.1	100.7
23-Jun-14	-0.3%	0.2%	0.0%	0.4%	0.3%	98.3	102.1	101.5	99.4	101.0
24-Jun-14	-0.1%	0.2%	0.0%	-0.1%	0.2%	98.2	102.4	101.5	99.3	101.2
25-Jun-14	0.6%	0.2%	0.3%	0.6%	0.6%	98.8	102.5	101.8	99.9	101.8
26-Jun-14	-0.6%	0.3%	0.7%	0.5%	0.2%	98.2	102.8	102.5	100.4	102.0
27-Jun-14	-0.2%	-0.6%	0.4%	0.1%	-0.1%	98.0	102.2	102.9	100.5	102.0
30-Jun-14	0.3%	0.6%	0.3%	0.0%	0.9%	98.3	102.9	103.3	100.5	102.9

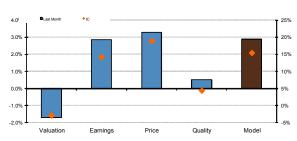
Last 12 Month Performance

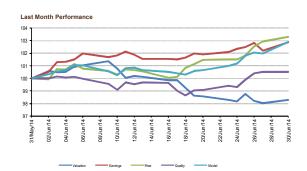
			Price		Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
30-Jun-13						100.0	100.0	100.0	100.0	100.0
31-Jul-13	-4.2%	1.6%	2.5%	2.3%	2.2%	95.8	101.6	102.5	102.3	102.2
31-Aug-13	4.0%	4.1%	-6.7%	-3.1%	0.2%	99.7	105.8	95.7	99.1	102.4
30-Sep-13	1.5%	-0.5%	-0.5%	-1.7%	-0.6%	101.2	105.3	95.2	97.4	101.8
31-Oct-13	2.2%	0.4%	3.8%	1.8%	1.5%	103.4	105.8	98.8	99.2	103.3
30-Nov-13	2.8%	0.1%	2.1%	-0.4%	2.1%	106.4	105.9	100.8	98.8	105.5
31-Dec-13	-0.7%	0.9%	1.1%	0.6%	-0.6%	105.7	106.9	101.9	99.5	104.9
31-Jan-14	-1.4%	-3.1%	1.8%	0.6%	1.0%	104.2	103.6	103.8	100.1	105.9
28-Feb-14	2.0%	0.2%	4.9%	0.4%	1.8%	106.3	103.8	108.9	100.5	107.9
31-Mar-14	4.0%	-0.7%	-5.7%	-0.3%	-0.7%	110.5	103.0	102.6	100.2	107.1
30-Apr-14	0.7%	-1.9%	-3.0%	-1.5%	-0.9%	111.3	101.0	99.6	98.7	106.1
31-May-14	2.9%	0.5%	-1.1%	-0.6%	2.4%	114.6	101.5	98.5	98.1	108.7
30-Jun-14	-1.7%	2.9%	3.3%	0.5%	2.9%	112.6	104.5	101.7	98.6	111.8

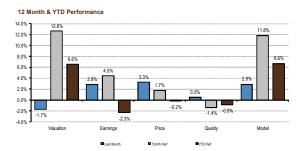
Stock Universe : ASIA EX JP ; stock # : 603 ; Normalisation mode : Country Neutral

Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI Asia ex Japan

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S	Qtr To	IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Forward Earnings Momentum (3Mth Change)	5.0%	5.4%	0.4%	3.3%	2.7%	4.8%	5%	Value	Cash Flow Yield Mean of FY1 and FY2	-1.4%	0.4%	-3%
Composite Forward Earnings Momentum	4.8%	5.2%	0.4%	2.3%	3.0%	3.6%	5%	Value	Historical P/Book Value Ratio	-1.3%	0.3%	-12%
Price Acceleration 6M	3.6%	4.2%	0.6%	-2.2%	3.5%	1.7%	16%	Value	Historical Dividend Yield	-0.9%	0.4%	-11%
12mth Change In ROE	3.4%	4.8%	1.4%	3.1%	3.2%	1.3%	5%	Value	1 year forward forecast PE	-0.8%	0.6%	-6%
12M Price Mom, vol adjusted	3.4%	4.6%	1.2%	-4.6%	-4.1%	-2.6%	18%	Value	Historical P/Sales Ratio	-0.4%	0.8%	-1%
Net Revisions to FY2	2.9%	4.8%	1.9%	3.1%	-3.0%	1.6%	15%	Value	Historical Earnings Yield	0.2%	0.6%	-4%
12 Mth Price Momentum	2.8%	4.6%	1.7%	-2.5%	-4.6%	-3.8%	6%	Value	Forecast PE Relative To Sector	0.4%	0.2%	-2%
Forward Earnings Momentum / Co-Eff Of Variation	2.7%	4.5%	1.8%	13.1%	5.8%	6.4%	11%	Value	Forecast PE Relative To History	0.9%	1.3%	-4%
6 Mth Price Momentum	2.6%	3.9%	1.3%	6.5%	4.6%	4.0%	4%	Value	Historical P/Cash Earnings Ratio	1.3%	0.6%	-1%
Forward Earnings Momentum (1Mth Change)	1.9%	3.8%	1.9%	10.0%	7.6%	5.0%	5%	Sentiment	1 Mth Change in Consensus Recommendation	0.7%	0.4%	-4%
3 Mth Change in Consensus Recommendation	1.6%	3.4%	1.8%	13.4%	5.5%	4.2%	-3%	Sentiment	Consensus Recommendation	1.1%	0.9%	-4%
Historical P/Cash Earnings Ratio	1.3%	3.1%	1.7%	7.6%	6.4%	6.8%	-1%	Sentiment	3 Mth Change in Consensus Recommendation	1.6%	1.1%	-3%
Net Revisions to FY1	1.3%	4.2%	2.9%	12.1%	5.2%	3.3%	10%	Risk	MSCI Beta vs Local Country Index	0.8%	0.7%	9%
Percent Off 52 Week High	1.3%	2.7%	1.4%	-3.7%	-3.9%	-0.3%	7%	Quality	Composite Co-Efficient of Variation	0.1%	0.1%	4%
Historical Return On Equity	1.1%	2.3%	1.2%	-2.4%	-1.4%	-2.2%	-4%	Quality	Number of Consensus Estimates (FY1)	0.9%	-0.1%	11%
Consensus Recommendation	1.1%	3.0%	1.9%	10.6%	4.5%	2.4%	-4%	Quality	ROA (FY1)	1.0%	0.5%	9%
ROA (FY1)	1.0%	3.1%	2.0%	5.4%	-1.3%	-2.3%	9%	Quality	Historical Return On Equity	1.1%	-0.2%	-4%
5 years Historical Earnings Growth	0.9%	2.8%	1.8%	6.8%	2.9%	0.4%	1%	Quality	12mth Change In ROE	3.4%	0.3%	5%
Forecast PE Relative To History	0.9%	2.2%	1.3%	16.0%	12.2%	6.8%	-4%	Price	60 Day Volatility	-0.9%	-1.1%	2%
Number of Consensus Estimates (FY1)	0.9%	3.4%	2.6%	-1.2%	-1.8%	0.8%	11%	Price	3 Mth Price Momentum	-0.1%	-0.3%	8%
MSCI Beta vs Local Country Index	0.8%	3.3%	2.5%	8.9%	6.8%	4.9%	9%	Price	RSI 10 day	-0.1%	0.1%	-2%
Forecast Earnings Growth FY1 to FY2	0.7%	3.2%	2.4%	-0.4%	-1.5%	-1.9%	-3%	Price	RSI 30 day	0.2%	0.4%	5%
Price Acceleration 3M	0.7%	3.7%	3.0%	-6.5%	-2.9%	1.6%	7%	Price	1 Mth Price Momentum	0.3%	0.0%	7%
1 Mth Change in Consensus Recommendation	0.7%	2.7%	2.1%	4.7%	0.0%	0.7%	-4%	Price	Price Acceleration 3M	0.7%	-0.5%	7%
Forecast PE Relative To Sector	0.4%	2.8%	2.4%	1.9%	3.9%	2.8%	-2%	Price	Percent Off 52 Week High	1.3%	-0.3%	7%
1 Mth Price Momentum	0.3%	2.7%	2.4%	0.1%	-5.0%	-0.3%	7%	Price	6 Mth Price Momentum	2.6%	0.6%	4%
Historical Earnings Yield	0.2%	1.8%	1.6%	7.2%	3.3%	2.9%	-4%	Price	12 Mth Price Momentum	2.8%	-0.1%	6%
RSI 30 day	0.2%	2.4%	2.2%	4.1%	1.1%	0.6%	5%	Price	12M Price Mom, vol adjusted	3.4%	-0.3%	18%
Composite Co-Efficient of Variation	0.1%	1.9%	1.8%	1.3%	-0.6%	0.7%	4%	Price	Price Acceleration 6M	3.6%	-0.2%	16%
RSI 10 day	-0.1%	1.8%	1.9%	0.5%	2.4%	1.9%	-2%	Earnings	Forecast Earnings Growth FY1 to FY2	0.7%	0.0%	-3%
3 Mth Price Momentum	-0.1%	2.7%	2.8%	-4.9%	-7.7%	1.3%	8%	Earnings	5 years Historical Earnings Growth	0.9%	0.6%	1%
Historical P/Sales Ratio	-0.4%	2.8%	3.2%	9.2%	2.9%	1.8%	-1%	Earnings	Net Revisions to FY1	1.3%	1.0%	10%
1 year forward forecast PE	-0.8%	1.3%	2.1%	7.0%	5.0%	4.1%	-6%	Earnings	Forward Earnings Momentum (1Mth Change)	1.9%	0.8%	5%
60 Day Volatility	-0.9%	1.7%	2.6%	-12.6%	-10.1%	-2.3%	2%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	2.7%	1.0%	11%
Historical Dividend Yield	-0.9%	2.0%	2.9%	4.3%	5.9%	5.2%	-11%	Earnings	Net Revisions to FY2	2.9%	0.3%	15%
Historical P/Book Value Ratio	-1.3%	1.5%	2.8%	2.9%	4.1%	3.8%	-12%	Earnings	Composite Forward Earnings Momentum	4.8%	0.3%	5%
Cash Flow Yield Mean of FY1 and FY2	-1.4%	1.4%	2.8%	4.1%	3.4%	0.8%	-3%	Earnings	Forward Earnings Momentum (3Mth Change)	5.0%	0.2%	5%

Family Summary – MSCI Japan

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	0.9%	0.9%	0.8%	-1.9%	3.1%
IC	11.8%	9.1%	9.9%	-10.4%	13.8%
12mth Perf	2.3%	2.0%	-2.3%	-5.1%	-4.2%
YTD Perf	4.1%	2.9%	-6.5%	2.4%	-0.4%

Last Month Performance

			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	-0.3%	-0.5%	0.0%	-0.3%	-0.3%	99.7	99.5	100.0	99.7	99.7
3-Jun-14	0.0%	0.4%	1.3%	0.5%	1.0%	99.8	99.9	101.3	100.2	100.7
4-Jun-14	0.4%	0.1%	0.2%	0.2%	0.5%	100.2	100.0	101.4	100.4	101.1
5-Jun-14	0.1%	0.2%	-0.2%	0.1%	-0.1%	100.3	100.3	101.2	100.6	101.0
6-Jun-14	0.4%	-0.4%	-0.9%	0.0%	0.2%	100.7	99.9	100.2	100.6	101.2
9-Jun-14	-0.3%	-1.1%	-0.5%	0.0%	-0.3%	100.4	98.8	99.7	100.6	100.9
10-Jun-14	0.2%	0.9%	0.7%	0.0%	0.2%	100.6	99.8	100.4	100.6	101.1
11-Jun-14	0.8%	0.3%	-0.3%	0.4%	0.6%	101.4	100.0	100.1	101.0	101.7
12-Jun-14	0.9%	0.1%	0.0%	-0.1%	0.8%	102.4	100.1	100.1	100.8	102.5
13-Jun-14	-0.6%	-0.4%	-0.2%	-0.7%	-0.8%	101.8	99.7	100.0	100.2	101.6
16-Jun-14	-0.3%	0.1%	-0.6%	-0.3%	-0.3%	101.5	99.8	99.4	99.9	101.4
17-Jun-14	-0.8%	-0.2%	0.1%	0.3%	-0.1%	100.6	99.6	99.5	100.2	101.2
18-Jun-14	0.0%	0.9%	0.7%	0.1%	1.0%	100.6	100.5	100.2	100.3	102.2
19-Jun-14	0.2%	0.1%	0.7%	-0.7%	0.4%	100.9	100.6	100.9	99.6	102.7
20-Jun-14	-0.8%	0.5%	0.9%	-0.4%	0.1%	100.1	101.1	101.8	99.2	102.8
23-Jun-14	0.9%	-0.4%	-0.5%	0.4%	0.2%	100.9	100.6	101.3	99.6	103.0
24-Jun-14	-0.5%	0.2%	0.3%	0.2%	-0.1%	100.5	100.9	101.6	99.8	102.9
25-Jun-14	0.0%	0.4%	-0.1%	-0.5%	-0.1%	100.5	101.3	101.5	99.3	102.9
26-Jun-14	0.0%	0.1%	-0.1%	-0.3%	-0.1%	100.5	101.4	101.4	99.0	102.8
27-Jun-14	0.4%	-0.4%	-0.6%	-0.1%	0.0%	100.9	101.0	100.8	98.9	102.8
30-Jun-14	0.0%	0.0%	0.0%	-0.8%	0.3%	100.9	100.9	100.8	98.1	103.1

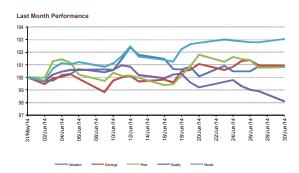
Last 12 Month Performance

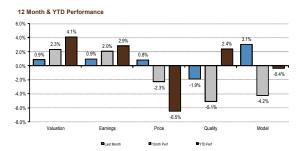
			Price			Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model	
30-Jun-13						100.0	100.0	100.0	100.0	100.0	
31-Jul-13	0.8%	-0.4%	-2.5%	0.3%	1.2%	100.8	99.6	97.5	100.3	101.2	
31-Aug-13	-0.4%	-2.4%	-1.1%	-1.2%	-4.4%	100.5	97.2	96.4	99.1	96.8	
30-Sep-13	1.4%	0.2%	8.3%	1.1%	3.1%	101.9	97.4	104.4	100.1	99.8	
31-Oct-13	-0.6%	1.1%	-3.4%	1.1%	-2.3%	101.3	98.5	100.9	101.2	97.5	
30-Nov-13	-1.0%	-3.1%	3.7%	-8.8%	-2.1%	100.2	95.5	104.7	92.2	95.4	
31-Dec-13	-1.9%	3.9%	-0.2%	0.5%	0.8%	98.3	99.2	104.5	92.7	96.2	
31-Jan-14	3.5%	1.2%	-1.8%	4.4%	0.4%	101.7	100.4	102.6	96.7	96.6	
28-Feb-14	2.3%	-1.7%	-3.9%	-0.9%	-3.4%	104.1	98.7	98.6	95.9	93.3	
31-Mar-14	-4.2%	1.4%	-1.0%	-1.8%	-1.8%	99.7	100.1	97.7	94.2	91.5	
30-Apr-14	0.5%	-0.1%	-2.8%	0.5%	-2.8%	100.2	100.1	94.9	94.6	88.9	
31-May-14	1.2%	1.1%	2.1%	2.2%	4.5%	101.4	101.1	96.9	96.7	92.9	
30-Jun-14	0.9%	0.9%	0.8%	-1.9%	3.1%	102.3	102.0	97.7	94.9	95.8	

Stock Universe: JP; stock #: 311; Normalisation mode: Sector Neutral Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI Japan

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

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Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S		IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Composite Co-Efficient of Variation	3.2%	7.0%	3.8%	1.4%	-1.5%	-1.3%	0%	Value	Historical Dividend Yield	-0.7%	-0.1%	-2%
1 year forward forecast PE	2.6%	6.0%	3.4%	-1.6%	3.7%	4.8%	16%	Value	Cash Flow Yield Mean of FY1 and FY2	-0.5%	-0.6%	8%
Forecast PE Relative To Sector	2.6%	6.0%	3.4%	-1.6%	3.7%	4.8%	14%	Value	Historical P/Sales Ratio	0.3%	0.5%	3%
Historical P/Book Value Ratio	2.3%	5.8%	3.6%	14.4%	5.7%	2.4%	15%	Value	Forecast PE Relative To History	0.3%	0.7%	-2%
MSCI Beta vs Local Country Index	1.5%	5.9%	4.4%	-3.0%	-8.2%	-2.4%	17%	Value	Historical P/Cash Earnings Ratio	0.4%	0.0%	5%
Forward Earnings Momentum / Co-Eff Of Variation	1.2%	6.2%	5.0%	-0.6%	-2.1%	2.3%	13%	Value	Historical Earnings Yield	1.2%	-0.8%	8%
Historical Earnings Yield	1.2%	6.2%	5.0%	-9.2%	0.6%	1.5%	8%	Value	Historical P/Book Value Ratio	2.3%	1.1%	15%
Historical Return On Equity	0.9%	6.1%	5.2%	-5.8%	-0.5%	0.9%	-7%	Value	1 year forward forecast PE	2.6%	-0.1%	16%
Forward Earnings Momentum (1Mth Change)	0.9%	6.4%	5.5%	3.0%	0.8%	1.6%	5%	Value	Forecast PE Relative To Sector	2.6%	-0.1%	14%
3 Mth Change in Consensus Recommendation	0.9%	5.6%	4.7%	7.4%	4.2%	5.6%	-3%	Sentiment	Consensus Recommendation	-0.3%	0.4%	6%
Composite Forward Earnings Momentum	0.7%	6.5%	5.8%	1.6%	1.0%	2.7%	8%	Sentiment	1 Mth Change in Consensus Recommendation	0.7%	0.0%	-3%
1 Mth Change in Consensus Recommendation	0.7%	4.5%	3.8%	-0.6%	0.8%	2.0%	-3%	Sentiment	3 Mth Change in Consensus Recommendation	0.9%	0.6%	-3%
12M Price Mom, vol adjusted	0.7%	6.9%	6.2%	-5.1%	-7.4%	-0.1%	4%	Risk	MSCI Beta vs Local Country Index	1.5%	-0.2%	17%
12 Mth Price Momentum	0.5%	6.3%	5.8%	-5.0%	-10.2%	-1.1%	9%	Quality	Number of Consensus Estimates (FY1)	-2.2%	-0.6%	-11%
12mth Change In ROE	0.5%	6.3%	5.8%	-2.9%	-0.9%	0.9%	11%	Quality	ROA (FY1)	-0.5%	-0.6%	-15%
Historical P/Cash Earnings Ratio	0.4%	5.6%	5.2%	0.4%	-2.1%	-1.3%	5%	Quality	12mth Change In ROE	0.5%	-0.2%	11%
Net Revisions to FY1	0.4%	5.9%	5.5%	-0.5%	0.9%	5.0%	5%	Quality	Historical Return On Equity	0.9%	-0.5%	-7%
3 Mth Price Momentum	0.4%	6.5%	6.1%	-10.6%	-8.2%	-3.3%	-3%	Quality	Composite Co-Efficient of Variation	3.2%	0.1%	0%
Forecast PE Relative To History	0.3%	5.6%	5.2%	8.4%	5.5%	5.1%	-2%	Price	60 Day Volatility	-2.9%	0.5%	-3%
Historical P/Sales Ratio	0.3%	4.5%	4.2%	6.2%	5.8%	1.5%	3%	Price	1 Mth Price Momentum	-2.8%	-1.5%	-10%
Net Revisions to FY2	0.2%	5.0%	4.8%	-1.8%	0.3%	0.6%	5%	Price	RSI 10 day	-2.4%	-1.5%	-12%
Consensus Recommendation	-0.3%	5.7%	6.0%	4.7%	2.7%	5.3%	6%	Price	Price Acceleration 6M	-2.3%	-0.6%	-7%
Forward Earnings Momentum (3Mth Change)	-0.4%	6.0%	6.4%	-5.1%	-5.2%	-1.8%	9%	Price	RSI 30 day	-1.9%	-0.7%	-14%
6 Mth Price Momentum	-0.4%	4.9%	5.3%	-7.9%	-7.9%	-1.5%	-1%	Price	Price Acceleration 3M	-1.1%	-0.3%	-5%
ROA (FY1)	-0.5%	4.6%	5.0%	-7.1%	2.6%	2.9%	-15%	Price	Percent Off 52 Week High	-0.7%	-0.5%	-4%
Cash Flow Yield Mean of FY1 and FY2	-0.5%	5.2%	5.7%	-7.0%	-0.1%	0.5%	8%	Price	6 Mth Price Momentum	-0.4%	-0.7%	-1%
Historical Dividend Yield	-0.7%	5.1%	5.9%	-1.5%	5.1%	-0.6%	-2%	Price	3 Mth Price Momentum	0.4%	-0.9%	-3%
Percent Off 52 Week High	-0.7%	5.2%	5.9%	-6.2%	-3.9%	0.2%	-4%	Price	12 Mth Price Momentum	0.5%	-0.4%	9%
Price Acceleration 3M	-1.1%	4.6%	5.7%	-4.2%	-4.4%	0.3%	-5%	Price	12M Price Mom, vol adjusted	0.7%	-0.4%	4%
Forecast Earnings Growth FY1 to FY2	-1.3%	5.6%	6.8%	2.6%	-0.3%	1.3%	-8%	Earnings	5 years Historical Earnings Growth	-1.8%	-0.7%	1%
5 years Historical Earnings Growth	-1.8%	6.2%	8.0%	-8.1%	-5.0%	-1.9%	1%	Earnings	Forecast Earnings Growth FY1 to FY2	-1.3%	0.2%	-8%
RSI 30 day	-1.9%	4.2%	6.1%	-8.2%	-7.4%	-4.9%	-14%	Earnings	Forward Earnings Momentum (3Mth Change)	-0.4%	-0.4%	9%
Number of Consensus Estimates (FY1)	-2.2%	4.0%	6.2%	-6.8%	-8.3%	-5.2%	-11%	Earnings	Net Revisions to FY2	0.2%	-0.1%	5%
Price Acceleration 6M	-2.3%	4.0%	6.3%	-6.6%	-8.7%	-4.2%	-7%	Earnings	Net Revisions to FY1	0.4%	0.0%	5%
RSI 10 day	-2.4%	4.9%	7.3%	-16.3%	-9.1%	-5.9%	-12%	Earnings	Composite Forward Earnings Momentum	0.7%	0.2%	8%
1 Mth Price Momentum	-2.8%	3.8%	6.6%	-17.1%	-8.9%	-6.8%	-10%	Earnings	Forward Earnings Momentum (1Mth Change)	0.9%	0.3%	5%
60 Day Volatility	-2.9%	3.7%	6.6%	4.9%	14.8%	4.4%	-3%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	1.2%	0.0%	13%

Family Summary – MSCI Australia

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	1.9%	0.2%	-3.6%	-2.9%	-1.5%
IC	16.9%	-0.7%	-23.2%	-11.6%	-5.9%
12mth Perf	0.3%	6.9%	3.2%	4.9%	7.5%
YTD Perf	-4.9%	0.4%	-8.8%	-10.1%	-7.4%

Last Month Performance

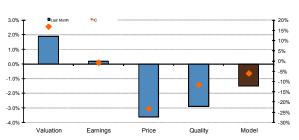
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	-0.5%	-0.7%	0.2%	0.3%	-0.1%	99.5	99.3	100.2	100.3	99.9
3-Jun-14	0.6%	0.2%	-0.1%	-0.2%	0.1%	100.1	99.5	100.1	100.1	100.0
4-Jun-14	-0.1%	0.3%	-0.1%	-0.7%	-0.5%	99.9	99.8	100.0	99.3	99.5
5-Jun-14	0.3%	0.0%	0.7%	0.7%	0.8%	100.3	99.9	100.7	100.0	100.2
6-Jun-14	0.3%	-0.1%	-0.5%	-0.2%	-0.4%	100.5	99.7	100.2	99.8	99.9
9-Jun-14	0.0%	0.0%	0.0%	0.0%	0.0%	100.5	99.7	100.2	99.8	99.9
10-Jun-14	-0.1%	0.5%	0.1%	-0.1%	0.4%	100.4	100.2	100.3	99.7	100.3
11-Jun-14	-0.2%	-0.1%	0.1%	-0.1%	-0.2%	100.2	100.1	100.4	99.6	100.1
12-Jun-14	-0.9%	-0.3%	-0.1%	-0.4%	0.0%	99.3	99.8	100.3	99.2	100.1
13-Jun-14	-0.1%	0.6%	-1.5%	-1.2%	-1.1%	99.2	100.4	98.8	98.1	99.0
16-Jun-14	-0.1%	0.4%	-1.0%	-0.8%	-0.2%	99.1	100.8	97.8	97.3	98.8
17-Jun-14	-0.7%	0.3%	0.4%	-0.5%	-0.3%	98.4	101.2	98.3	96.8	98.5
18-Jun-14	0.9%	-0.1%	0.7%	0.7%	0.9%	99.2	101.1	99.0	97.5	99.4
19-Jun-14	1.0%	0.3%	-0.3%	0.3%	0.6%	100.3	101.4	98.6	97.8	100.0
20-Jun-14	-0.6%	0.2%	-1.2%	-1.1%	-0.9%	99.6	101.6	97.4	96.7	99.1
23-Jun-14	0.6%	0.1%	0.3%	0.4%	0.8%	100.2	101.8	97.7	97.0	99.9
24-Jun-14	-0.1%	0.3%	0.1%	0.0%	0.2%	100.2	102.1	97.8	97.0	100.1
25-Jun-14	0.0%	-0.5%	-0.9%	-0.6%	-0.6%	100.1	101.6	96.9	96.4	99.4
26-Jun-14	0.7%	-1.2%	-0.1%	0.0%	-1.0%	100.8	100.4	96.8	96.4	98.4
27-Jun-14	1.1%	0.6%	-0.4%	0.6%	0.5%	101.9	101.0	96.4	97.0	98.9
30-Jun-14	0.0%	-0.8%	-0.1%	0.1%	-0.4%	101.9	100.2	96.4	97.1	98.5

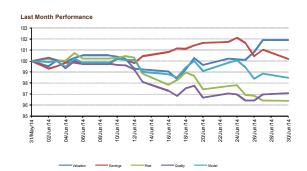
Last 12 Month Performance

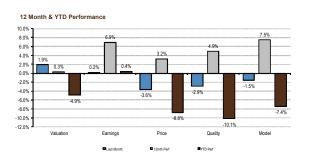
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
30-Jun-13						100.0	100.0	100.0	100.0	100.0
31-Jul-13	4.5%	0.7%	2.7%	3.2%	2.2%	104.5	100.7	102.7	103.2	102.2
31-Aug-13	1.6%	-0.5%	-1.3%	1.4%	0.6%	106.2	100.2	101.4	104.7	102.8
30-Sep-13	4.4%	-0.7%	0.4%	1.6%	1.3%	110.8	99.5	101.8	106.3	104.1
31-Oct-13	-2.0%	4.0%	8.4%	5.4%	6.8%	108.6	103.5	110.3	112.1	111.1
30-Nov-13	-0.9%	4.7%	2.3%	2.9%	5.6%	107.6	108.3	112.8	115.3	117.4
31-Dec-13	-2.0%	-1.7%	0.2%	1.3%	-1.1%	105.5	106.5	113.1	116.7	116.1
31-Jan-14	-0.8%	-0.1%	-2.0%	-1.3%	-4.3%	104.6	106.4	110.8	115.3	111.2
28-Feb-14	-3.8%	1.5%	2.2%	0.7%	3.1%	100.6	107.9	113.3	116.1	114.6
31-Mar-14	0.7%	4.0%	3.9%	3.5%	6.5%	101.3	112.3	117.6	120.2	122.0
30-Apr-14	-0.1%	-1.7%	-3.7%	-5.8%	-5.8%	101.2	110.3	113.3	113.2	115.0
31-May-14	-2.7%	-3.3%	-5.5%	-4.6%	-5.1%	98.4	106.7	107.1	108.0	109.2
30-Jun-14	1.9%	0.2%	-3.6%	-2.9%	-1.5%	100.3	106.9	103.2	104.9	107.5

Stock Universe: AU; stock #: 69; Normalisation mode: Country Neutral Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI Australia

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S		IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Forecast PE Relative To History	5.0%	0.7%	-4.4%	14.4%	2.6%	10.8%	46%	Value	Historical P/Sales Ratio	-2.1%	-0.2%	-22%
Historical P/Book Value Ratio	4.8%	1.7%	-3.1%	-3.9%	11.7%	14.8%	33%	Value	Historical P/Cash Earnings Ratio	-1.4%	1.4%	-28%
Price Acceleration 6M	3.3%	0.5%	-2.9%	-12.7%	-3.3%	-1.1%	19%	Value	Forecast PE Relative To Sector	0.9%	0.8%	18%
1 year forward forecast PE	3.2%	0.0%	-3.3%	9.3%	-6.0%	0.4%	25%	Value	Historical Earnings Yield	1.0%	1.5%	-1%
Historical Dividend Yield	3.0%	0.5%	-2.5%	5.3%	2.4%	8.7%	29%	Value	Cash Flow Yield Mean of FY1 and FY2	1.9%	0.5%	-11%
Price Acceleration 3M	2.2%	-0.2%	-2.4%	-6.5%	0.2%	5.4%	15%	Value	Historical Dividend Yield	3.0%	0.5%	29%
Cash Flow Yield Mean of FY1 and FY2	1.9%	-0.7%	-2.6%	5.0%	-2.4%	3.8%	-11%	Value	1 year forward forecast PE	3.2%	0.8%	25%
Forward Earnings Momentum / Co-Eff Of Variation	1.4%	0.6%	-0.8%	6.7%	4.0%	-1.1%	7%	Value	Historical P/Book Value Ratio	4.8%	-0.3%	33%
Forward Earnings Momentum (3Mth Change)	1.3%	0.1%	-1.2%	19.8%	5.2%	-0.1%	17%	Value	Forecast PE Relative To History	5.0%	1.2%	46%
Net Revisions to FY2	1.3%	0.4%	-0.9%	3.9%	2.0%	-3.7%	2%	Sentiment	3 Mth Change in Consensus Recommendation	-1.8%	0.7%	11%
Historical Earnings Yield	1.0%	0.1%	-0.8%	18.5%	-5.5%	-0.4%	-1%	Sentiment	Consensus Recommendation	-1.7%	0.3%	8%
Forecast PE Relative To Sector	0.9%	-1.1%	-2.0%	9.9%	-4.8%	2.4%	18%	Sentiment	1 Mth Change in Consensus Recommendation	-1.2%	-0.4%	5%
Composite Forward Earnings Momentum	0.5%	-0.7%	-1.2%	18.5%	3.5%	-1.5%	17%	Risk	MSCI Beta vs Local Country Index	-1.6%	0.5%	-8%
60 Day Volatility	0.5%	-0.7%	-1.2%	-6.8%	-9.1%	-4.1%	-3%	Quality	Historical Return On Equity	-2.5%	1.0%	-3%
RSI 10 day	0.3%	-1.1%	-1.4%	-6.9%	-1.1%	1.9%	-11%	Quality	ROA (FY1)	-2.1%	0.1%	-25%
6 Mth Price Momentum	0.2%	-1.7%	-1.9%	3.1%	-1.6%	-5.9%	-2%	Quality	12mth Change In ROE	-1.3%	-1.0%	-6%
Percent Off 52 Week High	0.0%	-0.3%	-0.3%	1.1%	-4.0%	-2.5%	-6%	Quality	Number of Consensus Estimates (FY1)	-1.2%	-0.3%	-4%
3 Mth Price Momentum	0.0%	-2.3%	-2.2%	-1.7%	-7.3%	-5.1%	-7%	Quality	Composite Co-Efficient of Variation	-0.4%	0.2%	-19%
RSI 30 day	-0.2%	-1.7%	-1.5%	0.8%	2.2%	-1.7%	-2%	Price	12 Mth Price Momentum	-3.9%	0.3%	-30%
Composite Co-Efficient of Variation	-0.4%	-1.4%	-1.1%	2.1%	3.4%	3.7%	-19%	Price	1 Mth Price Momentum	-1.9%	0.2%	-14%
Forward Earnings Momentum (1Mth Change)	-0.4%	0.1%	0.6%	5.1%	1.3%	-0.8%	12%	Price	12M Price Mom, vol adjusted	-1.4%	0.4%	-22%
Forecast Earnings Growth FY1 to FY2	-0.5%	-2.1%	-1.6%	2.5%	9.0%	0.1%	-20%	Price	RSI 30 day	-0.2%	0.1%	-2%
Net Revisions to FY1	-0.6%	-1.6%	-1.0%	4.9%	-1.1%	-6.0%	0%	Price	3 Mth Price Momentum	0.0%	-0.1%	-7%
1 Mth Change in Consensus Recommendation	-1.2%	-1.4%	-0.2%	-4.7%	0.2%	-2.3%	5%	Price	Percent Off 52 Week High	0.0%	0.1%	-6%
Number of Consensus Estimates (FY1)	-1.2%	-1.8%	-0.7%	-4.0%	-8.6%	-3.7%	-4%	Price	6 Mth Price Momentum	0.2%	0.3%	-2%
12mth Change In ROE	-1.3%	-1.4%	0.0%	-11.0%	-9.8%	-3.7%	-6%	Price	RSI 10 day	0.3%	-0.6%	-11%
12M Price Mom, vol adjusted	-1.4%	-1.1%	0.3%	3.6%	-9.2%	-11.9%	-22%	Price	60 Day Volatility	0.5%	-0.5%	-3%
Historical P/Cash Earnings Ratio	-1.4%	-2.2%	-0.8%	17.5%	-5.1%	0.8%	-28%	Price	Price Acceleration 3M	2.2%	-0.5%	15%
MSCI Beta vs Local Country Index	-1.6%	-1.4%	0.2%	6.0%	1.5%	-2.9%	-8%	Price	Price Acceleration 6M	3.3%	-1.1%	19%
Consensus Recommendation	-1.7%	-2.6%	-0.9%	3.1%	-12.4%	-10.4%	8%	Earnings	5 years Historical Earnings Growth	-2.5%	-0.6%	-15%
3 Mth Change in Consensus Recommendation	-1.8%	-1.9%	-0.1%	7.5%	-1.5%	-9.4%	11%	Earnings	Net Revisions to FY1	-0.6%	0.4%	0%
1 Mth Price Momentum	-1.9%	-2.2%	-0.3%	1.4%	-2.2%	-4.9%	-14%	Earnings	Forecast Earnings Growth FY1 to FY2	-0.5%	0.3%	-20%
ROA (FY1)	-2.1%	-3.4%	-1.3%	1.1%	-10.8%	-8.3%	-25%	Earnings	Forward Earnings Momentum (1Mth Change)	-0.4%	0.4%	12%
Historical P/Sales Ratio	-2.1%	-2.9%	-0.8%	-2.6%	-5.3%	-1.4%	-22%	Earnings	Composite Forward Earnings Momentum	0.5%	1.4%	17%
Historical Return On Equity	-2.5%	-3.4%	-0.9%	12.0%	-10.8%	-12.6%	-3%	Earnings	Net Revisions to FY2	1.3%	0.3%	2%
5 years Historical Earnings Growth	-2.5%	-2.9%	-0.3%	-7.9%	-11.1%	-11.6%	-15%	Earnings	Forward Earnings Momentum (3Mth Change)	1.3%	1.5%	17%
12 Mth Price Momentum	-3.9%	-3.4%	0.5%	2.9%	-11.0%	-14.2%	-30%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	1.4%	0.6%	7%

Family Summary – MSCI Europe

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	-1.7%	0.7%	1.1%	2.6%	-1.5%
IC	-20.3%	1.1%	-1.2%	13.0%	-5.5%
12mth Perf	15.9%	0.4%	-2.3%	-12.6%	2.2%
YTD Perf	2.7%	0.3%	-3.1%	-0.4%	-0.2%

Last Month Performance

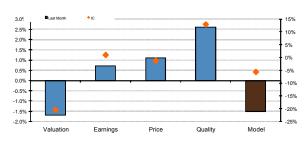
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	-0.2%	0.1%	0.3%	0.7%	0.5%	99.8	100.1	100.3	100.7	100.5
3-Jun-14	-0.3%	0.3%	-0.1%	0.4%	0.2%	99.5	100.4	100.1	101.1	100.7
4-Jun-14	0.1%	0.2%	0.2%	0.3%	0.3%	99.7	100.6	100.4	101.4	101.0
5-Jun-14	0.8%	0.8%	1.5%	-0.6%	1.2%	100.5	101.4	101.8	100.8	102.2
6-Jun-14	0.1%	-0.2%	1.1%	-0.8%	0.4%	100.6	101.2	102.9	99.9	102.6
9-Jun-14	0.6%	-0.4%	0.0%	-0.3%	-0.2%	101.2	100.8	102.9	99.6	102.5
10-Jun-14	-0.3%	0.0%	-0.3%	0.3%	-0.4%	100.8	100.8	102.6	100.0	102.0
11-Jun-14	-0.5%	-0.6%	-0.7%	0.8%	-1.1%	100.4	100.2	102.0	100.7	100.9
12-Jun-14	-0.2%	0.4%	0.2%	0.4%	0.0%	100.1	100.6	102.1	101.2	100.9
13-Jun-14	0.6%	-0.6%	-0.1%	-0.6%	-0.4%	100.7	100.0	102.1	100.5	100.5
16-Jun-14	-0.5%	0.3%	-0.2%	0.6%	-0.2%	100.2	100.3	101.9	101.2	100.4
17-Jun-14	-0.2%	-0.2%	0.1%	-0.2%	-0.1%	100.0	100.1	102.0	101.0	100.2
18-Jun-14	0.3%	0.3%	0.7%	-0.1%	0.3%	100.3	100.4	102.7	100.9	100.6
19-Jun-14	-0.2%	0.0%	-0.5%	0.1%	-0.2%	100.1	100.4	102.2	101.0	100.3
20-Jun-14	-0.1%	0.3%	-0.2%	0.3%	-0.6%	100.0	100.7	102.0	101.3	99.8
23-Jun-14	-0.2%	-0.4%	-0.1%	-0.1%	-0.4%	99.8	100.3	101.9	101.3	99.4
24-Jun-14	0.0%	0.2%	-0.6%	0.0%	-0.3%	99.8	100.5	101.3	101.3	99.0
25-Jun-14	0.1%	0.0%	0.5%	-0.4%	0.2%	99.9	100.5	101.9	100.9	99.3
26-Jun-14	-0.7%	0.4%	0.6%	0.6%	0.2%	99.2	100.9	102.5	101.6	99.4
27-Jun-14	-0.6%	0.0%	-0.2%	0.2%	-0.1%	98.6	100.8	102.2	101.8	99.3
30-Jun-14	-0.3%	-0.1%	-1.1%	0.8%	-0.8%	98.3	100.7	101.1	102.6	98.5

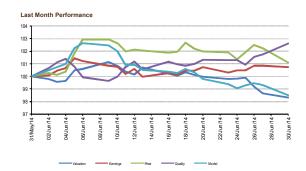
Last 12 Month Performance

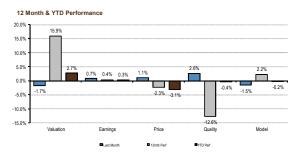
			Price			Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model	
30-Jun-13						100.0	100.0	100.0	100.0	100.0	
31-Jul-13	2.8%	-0.9%	0.1%	-3.0%	0.5%	102.8	99.1	100.1	97.0	100.5	
31-Aug-13	2.0%	-2.3%	-5.5%	-3.0%	-2.2%	104.8	96.8	94.6	94.1	98.3	
30-Sep-13	2.9%	-0.6%	2.6%	-4.3%	0.0%	107.9	96.2	97.1	90.0	98.2	
31-Oct-13	4.0%	1.3%	0.6%	-3.0%	2.0%	112.2	97.5	97.6	87.4	100.3	
30-Nov-13	1.5%	1.6%	1.8%	-0.7%	1.5%	113.9	99.0	99.3	86.8	101.8	
31-Dec-13	-1.0%	1.1%	1.5%	1.1%	0.6%	112.8	100.1	100.8	87.7	102.4	
31-Jan-14	2.8%	1.5%	0.2%	-5.6%	1.8%	116.0	101.6	101.1	82.8	104.3	
28-Feb-14	-0.3%	0.0%	0.7%	-0.6%	0.3%	115.7	101.6	101.8	82.3	104.6	
31-Mar-14	3.1%	0.5%	-1.3%	0.2%	1.9%	119.3	102.1	100.5	82.5	106.6	
30-Apr-14	1.5%	-0.5%	-4.4%	0.7%	-0.6%	121.1	101.6	96.1	83.1	105.9	
31-May-14	-2.6%	-2.0%	0.6%	2.5%	-2.0%	117.9	99.6	96.7	85.1	103.8	
30-Jun-14	-1.7%	0.7%	1.1%	2.6%	-1.5%	115.9	100.4	97.7	87.4	102.2	

Stock Universe: EUROPE; stock #: 436; Normalisation mode: Sector Neutral Source: MSCI, Factset,Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI Europe

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

ractor Summary and imormat					orteui	Dy IVIO	Hully	L/S retu	rn (LHS) and by Factor Family			
Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S		IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
60 Day Volatility	4.0%	-0.6%	-4.6%	-10.2%	3.2%	8.2%	-15%	Value	Historical P/Sales Ratio	-3.8%	1.4%	-8%
Forward Earnings Momentum / Co-Eff Of Variation	3.8%	1.3%	-2.5%	3.0%	2.4%	0.3%	11%	Value	Historical P/Cash Earnings Ratio	-2.2%	1.3%	3%
Net Revisions to FY1	3.6%	0.9%	-2.7%	2.5%	3.5%	1.6%	13%	Value	Forecast PE Relative To Sector	-1.5%	1.1%	-9%
Net Revisions to FY2	3.5%	0.2%	-3.3%	-0.9%	4.0%	2.0%	13%	Value	Historical P/Book Value Ratio	-1.3%	1.6%	-14%
Percent Off 52 Week High	3.3%	-0.4%	-3.6%	-4.7%	3.4%	4.3%	16%	Value	Cash Flow Yield Mean of FY1 and FY2	-0.9%	1.1%	-5%
Forward Earnings Momentum (3Mth Change)	3.1%	0.5%	-2.5%	-6.0%	1.2%	-0.5%	-1%	Value	1 year forward forecast PE	0.6%	0.5%	-3%
Historical Return On Equity	3.0%	-0.2%	-3.2%	-8.9%	1.2%	6.0%	10%	Value	Historical Earnings Yield	0.6%	-0.4%	11%
12mth Change In ROE	2.6%	0.8%	-1.7%	-1.7%	-0.7%	3.1%	3%	Value	Forecast PE Relative To History	1.4%	0.5%	7%
Composite Forward Earnings Momentum	2.4%	-0.2%	-2.6%	-8.3%	-0.7%	-1.8%	0%	Value	Historical Dividend Yield	2.2%	0.2%	14%
Forward Earnings Momentum (1Mth Change)	2.4%	-0.8%	-3.1%	-4.8%	2.2%	1.5%	11%	Sentiment	1 Mth Change in Consensus Recommendation	-3.7%	-0.2%	17%
5 years Historical Earnings Growth	2.3%	-0.4%	-2.7%	-13.8%	-0.8%	-0.5%	9%	Sentiment	3 Mth Change in Consensus Recommendation	-1.7%	0.6%	9%
Historical Dividend Yield	2.2%	-0.4%	-2.7%	2.5%	4.6%	11.6%	14%	Sentiment	Consensus Recommendation	-0.4%	-0.3%	6%
3 Mth Price Momentum	2.2%	-0.8%	-3.0%	-3.8%	-2.3%	-3.5%	17%	Risk	MSCI Beta vs Local Country Index	-1.6%	1.0%	-21%
ROA (FY1)	2.1%	0.4%	-1.7%	-7.1%	0.9%	2.8%	18%	Quality	Composite Co-Efficient of Variation	-1.9%	1.7%	0%
12M Price Mom, vol adjusted	2.0%	-1.0%	-3.0%	-5.9%	-3.5%	-1.1%	8%	Quality	Number of Consensus Estimates (FY1)	-0.2%	-0.5%	0%
Price Acceleration 3M	1.8%	-0.4%	-2.2%	2.0%	-1.4%	-1.6%	16%	Quality	ROA (FY1)	2.1%	-0.6%	18%
Price Acceleration 6M	1.8%	-0.7%	-2.5%	-0.5%	1.9%	-0.7%	16%	Quality	12mth Change In ROE	2.6%	-0.1%	3%
RSI 30 day	1.5%	-0.4%	-2.0%	-2.7%	-0.1%	0.6%	14%	Quality	Historical Return On Equity	3.0%	-0.7%	10%
Forecast PE Relative To History	1.4%	-1.7%	-3.1%	5.5%	9.6%	9.2%	7%	Price	RSI 10 day	-0.2%	-1.1%	-2%
6 Mth Price Momentum	1.1%	-2.3%	-3.4%	-5.5%	-2.1%	-7.8%	9%	Price	12 Mth Price Momentum	0.6%	-0.5%	-1%
1 Mth Price Momentum	0.9%	-1.4%	-2.2%	-6.4%	-4.2%	-0.4%	5%	Price	1 Mth Price Momentum	0.9%	-0.5%	5%
12 Mth Price Momentum	0.6%	-1.3%	-2.0%	-6.7%	-4.8%	-3.9%	-1%	Price	6 Mth Price Momentum	1.1%	-0.4%	9%
Historical Earnings Yield	0.6%	-1.7%	-2.3%	-4.6%	0.1%	5.8%	11%	Price	RSI 30 day	1.5%	-0.2%	14%
1 year forward forecast PE	0.6%	-1.5%	-2.0%	6.4%	2.7%	1.8%	-3%	Price	Price Acceleration 6M	1.8%	0.0%	16%
Number of Consensus Estimates (FY1)	-0.2%	0.1%	0.3%	-6.3%	-3.0%	-0.2%	0%	Price	Price Acceleration 3M	1.8%	0.2%	16%
RSI 10 day	-0.2%	-1.2%	-0.9%	-12.3%	-3.5%	-0.5%	-2%	Price	12M Price Mom, vol adjusted	2.0%	-0.5%	8%
Consensus Recommendation	-0.4%	-1.2%	-0.9%	-3.8%	-4.1%	0.4%	6%	Price	3 Mth Price Momentum	2.2%	-0.3%	17%
Cash Flow Yield Mean of FY1 and FY2	-0.9%	-2.4%	-1.5%	12.9%	3.0%	-3.1%	-5%	Price	Percent Off 52 Week High	3.3%	-0.4%	16%
Historical P/Book Value Ratio	-1.3%	-2.2%	-0.9%	20.7%	3.1%	-1.9%	-14%	Price	60 Day Volatility	4.0%	-0.8%	-15%
Forecast PE Relative To Sector	-1.5%	-2.2%	-0.6%	13.6%	1.6%	-1.8%	-9%	Earnings	Forecast Earnings Growth FY1 to FY2	-4.6%	0.6%	-31%
MSCI Beta vs Local Country Index	-1.6%	-1.8%	-0.3%	11.9%	-1.7%	-2.4%	-21%	Earnings	5 years Historical Earnings Growth	2.3%	-1.2%	9%
3 Mth Change in Consensus Recommendation	-1.7%	-2.4%	-0.6%	7.2%	1.3%	-2.4%	9%	Earnings	Forward Earnings Momentum (1Mth Change)	2.4%	-0.4%	11%
Composite Co-Efficient of Variation	-1.9%	-2.4%	-0.5%	21.4%	0.4%	-4.8%	0%	Earnings	Composite Forward Earnings Momentum	2.4%	-0.7%	0%
Historical P/Cash Earnings Ratio	-2.2%	-2.1%	0.0%	16.9%	4.9%	0.1%	3%	Earnings	Forward Earnings Momentum (3Mth Change)	3.1%	-0.5%	-1%
1 Mth Change in Consensus Recommendation	-3.7%	-3.0%	0.7%	-2.9%	-5.4%	-6.8%	17%	Earnings	Net Revisions to FY2	3.5%	0.0%	13%
Historical P/Sales Ratio	-3.8%	-2.1%	1.7%	17.5%	-0.2%	-3.0%	-8%	Earnings	Net Revisions to FY1	3.6%	0.2%	13%
Forecast Earnings Growth FY1 to FY2	-4.6%	-3.8%	0.8%	7.4%	-2.6%	-10.3%	-31%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	3.8%	0.3%	11%

Family Summary – MSCI US

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	0.0%	0.3%	0.4%	-0.8%	-0.4%
IC	-0.9%	4.2%	4.3%	-15.7%	-1.9%
12mth Perf	10.1%	2.5%	16.8%	-4.2%	9.4%
YTD Perf	-2.4%	3.5%	2.6%	-5.9%	1.8%

Last Month Performance

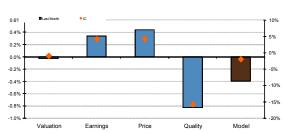
0.2% 0.4% 0.1% -0.4% 0.4% 0.6% 0.2%	0.4% 0.1% -0.1% -0.2% 0.0% -0.5%	0.6% -0.4% 0.3% -0.4% 0.0%	0.2% 0.0% 0.2% -0.5% 0.5%	0.7% 0.2% 0.0% -0.8%	Valuation 100.0 100.2 100.6 100.6	Earnings 100.0 100.4 100.5 100.4	100.0 100.6 100.2 100.5	Quality 100.0 100.2 100.1 100.4	100.0 100.7 100.9
0.4% 0.1% -0.4% 0.4% 0.6%	0.1% -0.1% -0.2% 0.0% -0.5%	-0.4% 0.3% -0.4% 0.0%	0.0% 0.2% -0.5%	0.2% 0.0%	100.2 100.6 100.6	100.4 100.5	100.6 100.2	100.2 100.1	100.7 100.9
0.4% 0.1% -0.4% 0.4% 0.6%	0.1% -0.1% -0.2% 0.0% -0.5%	-0.4% 0.3% -0.4% 0.0%	0.0% 0.2% -0.5%	0.2% 0.0%	100.6 100.6	100.5	100.2	100.1	100.9
0.1% -0.4% 0.4% 0.6%	-0.1% -0.2% 0.0% -0.5%	0.3% -0.4% 0.0%	0.2% -0.5%	0.0%	100.6				
-0.4% 0.4% 0.6%	-0.2% 0.0% -0.5%	-0.4% 0.0%	-0.5%			100.4	100.5	100.4	400.0
0.4% 0.6%	0.0% -0.5%	0.0%		-0.8%					100.9
0.6%	-0.5%		0.50/.		100.3	100.2	100.1	99.9	100.1
			0.376	0.2%	100.7	100.3	100.1	100.4	100.3
0.2%		-0.8%	0.2%	-0.6%	101.3	99.8	99.3	100.6	99.7
	0.5%	0.2%	-0.1%	0.4%	101.5	100.2	99.5	100.6	100.1
-0.4%	0.5%	0.3%	-0.4%	-0.1%	101.0	100.7	99.8	100.2	100.0
-0.3%	-0.6%	-0.6%	0.1%	-0.4%	100.7	100.1	99.2	100.2	99.5
0.3%	0.2%	0.2%	-0.3%	0.1%	101.0	100.3	99.4	99.9	99.6
0.3%	0.0%	0.0%	-0.1%	-0.2%	101.2	100.3	99.4	99.8	99.4
0.6%	-0.2%	0.2%	-0.2%	0.0%	101.9	100.1	99.7	99.6	99.5
0.0%	0.2%	0.4%	0.1%	0.4%	101.9	100.3	100.1	99.7	99.9
-0.2%	0.3%	0.3%	0.1%	0.6%	101.7	100.6	100.3	99.8	100.5
-0.2%	0.3%	0.3%	0.1%	0.4%	101.4	100.9	100.7	100.0	100.9
0.5%	-0.4%	-0.3%	0.0%	-0.1%	101.9	100.5	100.4	99.9	100.7
-1.1%	-0.5%	-0.9%	-0.7%	-0.9%	100.8	100.0	99.5	99.2	99.8
-0.2%	0.5%	0.8%	0.1%	0.2%	100.7	100.5	100.3	99.4	100.1
-0.4%	0.0%	0.2%	-0.1%	0.0%	100.2	100.5	100.5	99.2	100.0
-0.2%	-0.1%	0.1%	0.2%	-0.2%	100.1	100.4	100.6	99.5	99.9
-0.1%	-0.1%	-0.1%	-0.3%	-0.2%	100.0	100.3	100.4	99.2	99.6
	0.3% 0.3% 0.3% 0.6% 0.0% 0.2% 0.2% 0.5% 1.1% 0.2% 0.4% 0.2%	0.3% 0.6% 0.2% 0.0% 0.0% 0.0% 0.2% 0.2% 0.3% 0.2% 0.3% 0.0% 0.2% 0.3% 0.2% 0.3% 0.3% 0.5% 0.4% 0.5% 0.5% 0.5% 0.5% 0.4% 0.0% 0.2% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	3.3% -0.6% -0.6% 3.3% 0.2% 0.2% 3.3% 0.0% 0.0% 1.6% -0.2% 0.2% 0.0% 0.0% 0.2% 0.2% 0.2% 0.3% 0.2% 0.3% 0.3% 0.2% 0.4% -0.3% 1.5% -0.5% -0.9% 2.2% 0.5% 0.8% 3.4% 0.0% 0.2% 2.2% 0.1% 0.1%	0.3%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

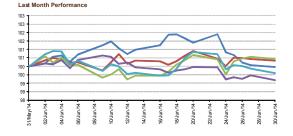
Last 12 Month Performance

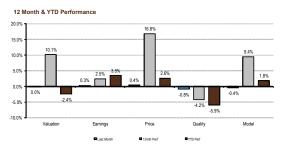
			Price			Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model	
30-Jun-13						100.0	100.0	100.0	100.0	100.0	
31-Jul-13	1.4%	-2.8%	3.0%	-0.7%	1.0%	101.4	97.2	103.0	99.3	101.0	
31-Aug-13	1.4%	0.5%	0.6%	0.2%	1.1%	102.8	97.7	103.7	99.5	102.1	
30-Sep-13	0.9%	0.9%	3.2%	0.2%	0.1%	103.8	98.5	106.9	99.7	102.2	
31-Oct-13	1.3%	-0.5%	2.9%	0.3%	0.9%	105.2	98.1	110.0	100.0	103.2	
30-Nov-13	5.2%	-0.3%	3.0%	1.6%	3.7%	110.6	97.8	113.3	101.6	107.0	
31-Dec-13	1.9%	1.2%	0.5%	0.3%	0.4%	112.8	99.0	113.9	101.9	107.4	
31-Jan-14	-5.0%	1.5%	-0.3%	-3.9%	-0.5%	107.1	100.5	113.5	97.9	106.9	
28-Feb-14	-0.7%	1.4%	2.9%	-2.9%	0.2%	106.4	101.9	116.7	95.1	107.1	
31-Mar-14	3.3%	-0.8%	-2.0%	2.9%	2.4%	109.9	101.1	114.4	97.8	109.7	
30-Apr-14	1.5%	0.6%	-2.5%	0.8%	1.0%	111.5	101.6	111.6	98.5	110.7	
31-May-14	-1.2%	0.5%	4.2%	-1.9%	-0.8%	110.1	102.1	116.3	96.6	109.9	
30-Jun-14	0.0%	0.3%	0.4%	-0.8%	-0.4%	110.1	102.5	116.8	95.8	109.4	

Stock Universe: US; stock #: 617; Normalisation mode: Sector Neutral Source: MSCI. Factset Reuters. J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI US

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S	Qtr To	IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Forecast Earnings Growth FY1 to FY2	3.3%	4.6%	1.3%	2.7%	-5.1%	1.5%	4%	Value	Historical Earnings Yield	-2.2%	0.0%	-4%
1 Mth Price Momentum	2.2%	3.6%	1.4%	-0.3%	-1.4%	-0.7%	6%	Value	Forecast PE Relative To History	-1.9%	-0.3%	-1%
Consensus Recommendation	1.8%	3.5%	1.6%	7.5%	1.9%	2.8%	-6%	Value	1 year forward forecast PE	-1.7%	0.5%	-2%
RSI 10 day	1.8%	3.5%	1.7%	6.1%	-0.6%	-0.5%	8%	Value	Forecast PE Relative To Sector	-1.6%	0.3%	-5%
RSI 30 day	1.4%	3.4%	1.9%	-1.5%	-2.7%	-1.1%	1%	Value	Historical P/Book Value Ratio	-1.2%	0.3%	5%
3 Mth Change in Consensus Recommendation	1.4%	3.3%	1.9%	-2.4%	0.1%	0.6%	-5%	Value	Historical P/Cash Earnings Ratio	-1.1%	0.2%	5%
1 Mth Change in Consensus Recommendation	1.2%	3.4%	2.1%	5.2%	3.3%	2.1%	1%	Value	Historical P/Sales Ratio	-1.0%	0.8%	-14%
6 Mth Price Momentum	0.9%	3.8%	2.9%	8.2%	2.2%	1.4%	9%	Value	Cash Flow Yield Mean of FY1 and FY2	-0.2%	1.3%	8%
Forward Earnings Momentum / Co-Eff Of Variation	0.9%	2.7%	1.9%	-0.1%	4.3%	1.1%	0%	Value	Historical Dividend Yield	0.7%	-0.1%	-4%
Net Revisions to FY1	0.8%	3.6%	2.8%	3.0%	7.1%	3.1%	5%	Sentiment	1 Mth Change in Consensus Recommendation	1.2%	0.4%	1%
Price Acceleration 6M	0.8%	3.4%	2.6%	0.6%	0.6%	0.1%	0%	Sentiment	3 Mth Change in Consensus Recommendation	1.4%	-0.2%	-5%
Net Revisions to FY2	0.8%	3.2%	2.4%	2.0%	4.2%	2.4%	7%	Sentiment	Consensus Recommendation	1.8%	0.6%	-6%
Composite Co-Efficient of Variation	0.8%	3.6%	2.9%	3.2%	4.1%	2.5%	1%	Risk	MSCI Beta vs Local Country Index	0.3%	0.8%	10%
Historical Dividend Yield	0.7%	2.7%	2.0%	-0.8%	3.2%	3.2%	-4%	Quality	ROA (FY1)	-4.0%	-0.9%	-21%
12 Mth Price Momentum	0.5%	3.9%	3.4%	9.5%	-1.2%	-0.2%	7%	Quality	Historical Return On Equity	-1.6%	-0.5%	-2%
12mth Change In ROE	0.4%	2.7%	2.3%	-4.3%	1.1%	1.3%	-4%	Quality	Number of Consensus Estimates (FY1)	-0.3%	-0.1%	4%
MSCI Beta vs Local Country Index	0.3%	3.0%	2.7%	10.1%	2.0%	-0.3%	10%	Quality	12mth Change In ROE	0.4%	-0.4%	-4%
5 years Historical Earnings Growth	0.2%	3.0%	2.8%	1.2%	-3.0%	-2.1%	-2%	Quality	Composite Co-Efficient of Variation	0.8%	0.3%	1%
Cash Flow Yield Mean of FY1 and FY2	-0.2%	4.7%	4.8%	16.8%	8.0%	6.7%	8%	Price	60 Day Volatility	-1.6%	-0.5%	13%
Number of Consensus Estimates (FY1)	-0.3%	2.3%	2.6%	-1.3%	-3.4%	-2.8%	4%	Price	12M Price Mom, vol adjusted	-1.0%	0.6%	0%
Forward Earnings Momentum (1Mth Change)	-0.4%	2.5%	2.9%	-2.1%	0.7%	-0.2%	-2%	Price	Price Acceleration 3M	-0.7%	0.0%	-2%
3 Mth Price Momentum	-0.5%	2.9%	3.4%	-7.0%	-4.8%	-2.2%	-4%	Price	Percent Off 52 Week High	-0.6%	0.1%	-9%
Percent Off 52 Week High	-0.6%	3.0%	3.6%	1.4%	-2.3%	-3.3%	-9%	Price	3 Mth Price Momentum	-0.5%	-0.6%	-4%
Price Acceleration 3M	-0.7%	2.4%	3.2%	0.4%	-0.5%	-0.4%	-2%	Price	12 Mth Price Momentum	0.5%	0.8%	7%
Composite Forward Earnings Momentum	-0.9%	2.0%	3.0%	2.3%	5.4%	0.6%	-3%	Price	Price Acceleration 6M	0.8%	0.1%	0%
12M Price Mom, vol adjusted	-1.0%	2.6%	3.6%	6.8%	-3.5%	-2.0%	0%	Price	6 Mth Price Momentum	0.9%	0.7%	9%
Historical P/Sales Ratio	-1.0%	1.6%	2.7%	9.9%	-4.0%	-0.4%	-14%	Price	RSI 30 day	1.4%	-0.1%	1%
Historical P/Cash Earnings Ratio	-1.1%	3.8%	4.9%	2.0%	2.6%	3.7%	5%	Price	RSI 10 day	1.8%	0.5%	8%
Historical P/Book Value Ratio	-1.2%	2.5%	3.7%	4.1%	1.8%	-0.9%	5%	Price	1 Mth Price Momentum	2.2%	0.0%	6%
Forward Earnings Momentum (3Mth Change)	-1.4%	1.6%	2.9%	4.2%	6.2%	1.2%	-2%	Earnings	Forward Earnings Momentum (3Mth Change)	-1.4%	0.3%	-2%
Forecast PE Relative To Sector	-1.6%	2.8%	4.3%	3.3%	-5.5%	-1.0%	-5%	Earnings	Composite Forward Earnings Momentum	-0.9%	0.2%	-3%
60 Day Volatility	-1.6%	2.4%	4.0%	-5.9%	-4.6%	0.8%	13%	Earnings	Forward Earnings Momentum (1Mth Change)	-0.4%	-0.2%	-2%
Historical Return On Equity	-1.6%	2.6%	4.2%	-6.1%	-6.8%	-2.7%	-2%	Earnings	5 years Historical Earnings Growth	0.2%	0.1%	-2%
1 year forward forecast PE	-1.7%	2.6%	4.3%	4.8%	-4.9%	-0.5%	-2%	Earnings	Net Revisions to FY2	0.8%	0.2%	7%
Forecast PE Relative To History	-1.9%	1.8%	3.7%	-3.3%	-0.5%	-0.1%	-1%	Earnings	Net Revisions to FY1	0.8%	0.3%	5%
Historical Earnings Yield	-2.2%	1.7%	3.9%	0.1%	-3.7%	-1.7%	-4%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	0.9%	0.0%	0%
ROA (FY1)	-4.0%	0.9%	4.8%	-10.7%		-4.5%	-21%	Earnings	Forecast Earnings Growth FY1 to FY2	3.3%	0.3%	4%

Family Summary – MSCI GEM

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	-1.0%	3.3%	3.9%	1.4%	4.4%
IC	-0.5%	14.2%	18.6%	6.8%	17.4%
12mth Perf	13.2%	10.8%	4.4%	-1.4%	21.9%
YTD Perf	5.0%	1.2%	3.8%	2.3%	11.6%

Last Month Performance

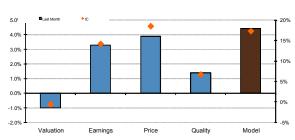
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	0.6%	0.5%	0.0%	-0.1%	0.4%	100.6	100.5	100.0	99.9	100.4
3-Jun-14	0.1%	0.8%	0.7%	0.2%	0.3%	100.7	101.3	100.8	100.2	100.7
4-Jun-14	-0.2%	0.2%	0.2%	0.2%	0.3%	100.5	101.5	100.9	100.4	101.0
5-Jun-14	0.3%	0.5%	0.4%	0.3%	0.6%	100.8	101.9	101.4	100.7	101.7
6-Jun-14	0.4%	0.1%	0.1%	0.3%	0.4%	101.3	102.1	101.5	101.0	102.0
9-Jun-14	0.6%	-0.1%	0.0%	-0.1%	0.0%	101.8	102.0	101.4	100.9	102.1
10-Jun-14	-0.4%	0.0%	-0.2%	0.0%	0.0%	101.4	102.0	101.3	100.8	102.0
11-Jun-14	-0.4%	0.4%	0.5%	0.3%	0.7%	101.0	102.4	101.8	101.2	102.7
12-Jun-14	0.3%	-0.4%	-0.3%	-0.2%	-0.1%	101.3	102.0	101.5	101.0	102.6
13-Jun-14	-0.1%	-0.2%	0.2%	0.2%	-0.1%	101.1	101.7	101.7	101.2	102.5
16-Jun-14	-0.2%	-0.2%	0.2%	0.1%	0.0%	100.9	101.6	101.9	101.3	102.5
17-Jun-14	-0.1%	-0.2%	0.2%	-0.5%	-0.1%	100.7	101.3	102.1	100.8	102.4
18-Jun-14	-0.4%	0.0%	0.8%	-0.2%	0.0%	100.3	101.3	103.0	100.7	102.4
19-Jun-14	-0.5%	0.3%	-0.2%	0.3%	0.1%	99.8	101.6	102.8	101.0	102.4
20-Jun-14	-0.2%	0.2%	0.0%	-0.1%	0.1%	99.6	101.9	102.7	100.9	102.5
23-Jun-14	-0.1%	0.2%	-0.4%	-0.2%	0.1%	99.5	102.0	102.4	100.8	102.7
24-Jun-14	-0.1%	0.4%	0.0%	-0.2%	0.2%	99.5	102.4	102.3	100.6	102.9
25-Jun-14	0.3%	0.3%	0.4%	0.7%	0.7%	99.8	102.7	102.8	101.3	103.6
26-Jun-14	-0.6%	0.3%	0.5%	0.1%	0.0%	99.2	103.1	103.3	101.4	103.7
27-Jun-14	-0.3%	-0.2%	0.3%	0.0%	0.0%	98.9	102.8	103.6	101.3	103.7
30-Jun-14	0.1%	0.5%	0.3%	0.1%	0.7%	99.0	103.3	103.9	101.4	104.4

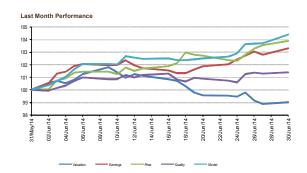
Last 12 Month Performance

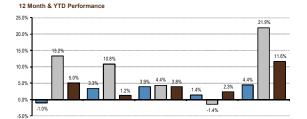
			Price			Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model	
30-Jun-13						100.0	100.0	100.0	100.0	100.0	
31-Jul-13	-3.0%	2.2%	1.4%	0.2%	1.9%	97.0	102.2	101.4	100.2	101.9	
31-Aug-13	6.2%	4.6%	-6.9%	-4.5%	2.8%	103.0	106.9	94.4	95.7	104.8	
30-Sep-13	2.3%	-0.3%	-0.2%	0.5%	0.5%	105.3	106.6	94.2	96.2	105.3	
31-Oct-13	1.6%	1.3%	2.4%	0.7%	2.3%	107.0	107.9	96.4	96.9	107.7	
30-Nov-13	1.5%	0.5%	3.7%	0.1%	1.6%	108.5	108.5	100.0	97.0	109.5	
31-Dec-13	-0.7%	1.0%	0.5%	-0.7%	-0.2%	107.8	109.5	100.5	96.4	109.2	
31-Jan-14	-2.0%	-1.3%	0.7%	-2.6%	0.1%	105.7	108.1	101.2	93.8	109.3	
28-Feb-14	-0.2%	0.0%	2.7%	0.3%	1.5%	105.5	108.1	103.9	94.1	110.9	
31-Mar-14	4.4%	-0.8%	-2.8%	2.5%	0.8%	110.2	107.3	101.0	96.5	111.8	
30-Apr-14	1.3%	-0.4%	-1.2%	0.1%	1.0%	111.7	106.8	99.8	96.7	113.0	
31-May-14	2.4%	0.4%	0.6%	0.6%	3.4%	114.4	107.3	100.4	97.2	116.8	
30-Jun-14	-1.0%	3.3%	3.9%	1.4%	4.4%	113.2	110.8	104.4	98.6	121.9	

Stock Universe: MSCI GEM; stock #:835; Normalisation mode: Country Neutral Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI GEM

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Name	Jun- 2014	Jun- 2014	Jun- 2014	12 Month	Year To	Qtr To	IC	Family	Name	Jun- 2014	12mth	IC
Name	L/S	Long	Short	L/S	Date L/S	Date L/S	10	anniy	Name	L/S	Avg	10
Composite Forward Earnings Momentum	5.0%	5.3%	0.3%	2.5%	1.6%	3.7%	9%	Value	Historical P/Sales Ratio	-1.7%	0.6%	-6%
Forward Earnings Momentum (3Mth Change)	4.6%	5.0%	0.4%	0.8%	1.0%	3.7%	9%	Value	Cash Flow Yield Mean of FY1 and FY2	-1.7%	0.5%	-10%
12 Mth Price Momentum	3.7%	5.4%	1.6%	4.6%	0.1%	1.9%	7%	Value	Historical P/Book Value Ratio	-1.4%	0.2%	-7%
12M Price Mom, vol adjusted	3.6%	5.2%	1.6%	2.4%	-0.8%	1.5%	17%	Value	Historical Dividend Yield	0.0%	0.4%	-2%
Forward Earnings Momentum / Co-Eff Of Variation	3.6%	5.0%	1.5%	10.9%	4.7%	5.8%	14%	Value	Historical Earnings Yield	0.3%	0.8%	-2%
12mth Change In ROE	3.1%	4.7%	1.6%	3.7%	4.3%	2.5%	9%	Value	1 year forward forecast PE	0.6%	0.8%	0%
Price Acceleration 6M	2.7%	3.6%	0.9%	-3.9%	-1.4%	-1.4%	10%	Value	Forecast PE Relative To Sector	0.9%	0.5%	2%
ROA (FY1)	2.6%	4.1%	1.5%	1.9%	-0.9%	-1.6%	12%	Value	Historical P/Cash Earnings Ratio	0.9%	0.8%	-3%
6 Mth Price Momentum	2.5%	4.1%	1.6%	3.4%	1.5%	4.4%	3%	Value	Forecast PE Relative To History	2.0%	1.0%	3%
Forward Earnings Momentum (1Mth Change)	2.3%	3.8%	1.5%	14.9%	5.4%	5.7%	6%	Sentiment	3 Mth Change in Consensus Recommendation	1.2%	1.1%	-3%
Net Revisions to FY2	2.2%	4.3%	2.0%	4.5%	-3.2%	2.0%	12%	Sentiment	1 Mth Change in Consensus Recommendation	1.2%	0.4%	-6%
Consensus Recommendation	2.0%	3.9%	1.9%	14.6%	7.0%	3.3%	-8%	Sentiment	Consensus Recommendation	2.0%	1.2%	-8%
Forecast PE Relative To History	2.0%	3.1%	1.2%	11.9%	11.6%	8.1%	3%	Risk	MSCI Beta vs Local Country Index	0.4%	0.4%	4%
Net Revisions to FY1	1.5%	4.3%	2.8%	14.1%	6.3%	4.7%	8%	Quality	Composite Co-Efficient of Variation	-0.9%	0.0%	0%
Historical Return On Equity	1.4%	3.1%	1.7%	0.0%	0.4%	0.2%	0%	Quality	Number of Consensus Estimates (FY1)	0.6%	-0.1%	8%
1 Mth Change in Consensus Recommendation	1.2%	3.3%	2.0%	5.5%	2.1%	1.1%	-6%	Quality	Historical Return On Equity	1.4%	0.0%	0%
3 Mth Change in Consensus Recommendation	1.2%	3.0%	1.8%	13.3%	3.9%	3.4%	-3%	Quality	ROA (FY1)	2.6%	0.2%	12%
Percent Off 52 Week High	1.0%	2.9%	1.9%	-2.0%	-2.2%	2.7%	6%	Quality	12mth Change In ROE	3.1%	0.3%	9%
Historical P/Cash Earnings Ratio	0.9%	2.8%	1.8%	9.9%	4.1%	5.2%	-3%	Price	60 Day Volatility	-1.0%	-0.4%	2%
Forecast PE Relative To Sector	0.9%	3.0%	2.1%	6.0%	4.8%	3.1%	2%	Price	3 Mth Price Momentum	-0.4%	-0.6%	5%
5 years Historical Earnings Growth	0.7%	2.7%	2.0%	-0.3%	5.9%	2.0%	2%	Price	RSI 10 day	-0.3%	-0.3%	-2%
Number of Consensus Estimates (FY1)	0.6%	3.4%	2.8%	-1.6%	0.0%	1.1%	8%	Price	1 Mth Price Momentum	0.3%	0.0%	4%
1 year forward forecast PE	0.6%	2.4%	1.9%	9.4%	4.1%	4.3%	0%	Price	Price Acceleration 3M	0.3%	-0.6%	3%
MSCI Beta vs Local Country Index	0.4%	3.2%	2.8%	5.2%	3.7%	2.6%	4%	Price	RSI 30 day	0.4%	0.2%	4%
RSI 30 day	0.4%	2.6%	2.1%	1.9%	-1.6%	1.9%	4%	Price	Percent Off 52 Week High	1.0%	-0.1%	6%
Price Acceleration 3M	0.3%	3.3%	3.0%	-7.3%	-6.0%	-1.0%	3%	Price	6 Mth Price Momentum	2.5%	0.3%	3%
1 Mth Price Momentum	0.3%	3.0%	2.6%	-0.2%	-5.8%	-0.4%	4%	Price	Price Acceleration 6M	2.7%	-0.3%	10%
Historical Earnings Yield	0.3%	2.5%	2.2%	9.7%	4.3%	3.3%	-2%	Price	12M Price Mom, vol adjusted	3.6%	0.3%	17%
Historical Dividend Yield	0.0%	3.0%	2.9%	4.8%	4.3%	4.7%	-2%	Price	12 Mth Price Momentum	3.7%	0.4%	7%
RSI 10 day	-0.3%	2.1%	2.5%	-4.2%	-0.3%	0.0%	-2%	Earnings	Forecast Earnings Growth FY1 to FY2	-0.7%	0.3%	-6%
3 Mth Price Momentum	-0.4%	2.6%	2.9%	-8.3%	-9.8%	1.4%	5%	Earnings	5 years Historical Earnings Growth	0.7%	0.0%	2%
Forecast Earnings Growth FY1 to FY2	-0.7%	2.5%	3.2%	3.3%	-1.3%	0.7%	-6%	Earnings	Net Revisions to FY1	1.5%	1.1%	8%
Composite Co-Efficient of Variation	-0.9%	1.8%	2.7%	0.0%	-3.1%	-2.4%	0%	Earnings	Net Revisions to FY2	2.2%	0.4%	12%
60 Day Volatility	-1.0%	2.2%	3.2%	-5.1%	-5.6%	0.5%	2%	Earnings	Forward Earnings Momentum (1Mth Change)	2.3%	1.2%	6%
Historical P/Book Value Ratio	-1.4%	2.0%	3.4%	2.4%	1.9%	0.6%	-7%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	3.6%	0.9%	14%
Cash Flow Yield Mean of FY1 and FY2	-1.7%	1.2%	2.9%	6.5%	3.4%	-0.5%	-10%	Earnings	Forward Earnings Momentum (3Mth Change)	4.6%	0.1%	9%
Historical P/Sales Ratio	-1.7%	1.6%	3.3%	6.8%	-0.5%	-0.4%	-6%	Earnings	Composite Forward Earnings Momentum	5.0%	0.2%	9%

Family Summary – MSCI EM ex Asia

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	3.2%	3.4%	5.2%	2.6%	6.0%
IC	15.4%	13.3%	17.7%	7.4%	24.5%
12mth Perf	18.5%	25.7%	10.5%	5.4%	39.3%
YTD Perf	2.9%	7.1%	5.4%	4.1%	13.9%

Last Month Performance

			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	0.3%	0.5%	0.5%	-0.2%	0.6%	100.3	100.5	100.5	99.8	100.6
3-Jun-14	0.6%	0.8%	0.1%	0.0%	0.4%	100.9	101.3	100.6	99.8	101.0
4-Jun-14	0.0%	0.4%	0.6%	0.6%	0.7%	100.9	101.8	101.2	100.3	101.7
5-Jun-14	-0.3%	0.8%	0.3%	1.0%	0.7%	100.7	102.7	101.5	101.4	102.4
6-Jun-14	1.1%	-0.7%	0.7%	0.9%	0.4%	101.8	101.9	102.2	102.3	102.8
9-Jun-14	0.7%	0.1%	0.2%	-0.1%	0.6%	102.5	102.0	102.5	102.2	103.4
10-Jun-14	0.1%	-0.4%	-0.4%	0.2%	-0.1%	102.7	101.6	102.1	102.5	103.3
11-Jun-14	0.6%	0.7%	1.1%	0.2%	1.4%	103.3	102.4	103.1	102.6	104.8
12-Jun-14	0.3%	-0.4%	-0.4%	-0.1%	-0.2%	103.5	101.9	102.7	102.6	104.6
13-Jun-14	0.2%	0.0%	0.6%	0.3%	0.0%	103.7	101.9	103.3	102.9	104.6
16-Jun-14	-0.1%	-0.6%	1.3%	0.1%	0.2%	103.7	101.3	104.7	103.0	104.8
17-Jun-14	-0.2%	-0.7%	0.2%	-0.2%	-0.4%	103.4	100.6	104.9	102.8	104.4
18-Jun-14	-0.1%	-0.3%	1.0%	0.1%	0.1%	103.3	100.3	105.9	102.9	104.5
19-Jun-14	-0.1%	0.2%	-0.6%	0.2%	0.0%	103.2	100.5	105.3	103.1	104.5
20-Jun-14	-0.5%	0.9%	-0.7%	0.0%	0.0%	102.7	101.4	104.6	103.1	104.5
23-Jun-14	0.0%	0.1%	-1.0%	-1.3%	-0.5%	102.7	101.6	103.5	101.7	104.0
24-Jun-14	0.2%	0.6%	0.1%	-0.1%	0.7%	102.9	102.2	103.6	101.7	104.7
25-Jun-14	0.0%	0.3%	0.5%	0.9%	0.7%	102.9	102.6	104.1	102.6	105.5
26-Jun-14	0.0%	0.4%	0.3%	-0.2%	-0.1%	102.9	103.0	104.4	102.3	105.4
27-Jun-14	0.0%	0.3%	0.3%	-0.1%	0.3%	102.9	103.3	104.7	102.2	105.7
30-Jun-14	0.2%	0.1%	0.5%	0.5%	0.3%	103.2	103.4	105.2	102.6	106.0

Last 12 Month Performance

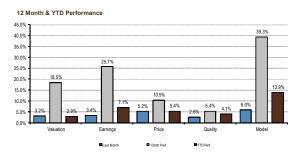
			Price			Index					
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model	
30-Jun-13						100.0	100.0	100.0	100.0	100.0	
31-Jul-13	2.1%	4.6%	1.1%	-1.6%	2.8%	102.1	104.6	101.1	98.4	102.8	
31-Aug-13	10.0%	4.7%	-4.3%	-5.0%	7.1%	112.3	109.5	96.7	93.5	110.0	
30-Sep-13	4.6%	0.1%	-0.2%	4.4%	2.9%	117.5	109.6	96.5	97.6	113.3	
31-Oct-13	-0.4%	4.1%	0.8%	0.6%	5.1%	117.0	114.1	97.2	98.2	119.1	
30-Nov-13	-1.2%	1.5%	7.2%	2.4%	0.8%	115.7	115.9	104.2	100.6	120.0	
31-Dec-13	-0.5%	1.3%	0.6%	0.7%	1.9%	115.1	117.4	104.8	101.3	122.3	
31-Jan-14	-0.9%	0.6%	-2.4%	-8.5%	-1.7%	114.1	118.1	102.4	92.7	120.2	
28-Feb-14	-3.5%	0.4%	-2.2%	0.0%	0.4%	110.0	118.6	100.2	92.7	120.7	
31-Mar-14	3.6%	-0.6%	0.1%	5.7%	2.1%	114.0	117.9	100.3	98.0	123.2	
30-Apr-14	0.7%	2.8%	0.7%	0.0%	3.4%	114.7	121.2	101.0	98.1	127.3	
31-May-14	0.1%	0.3%	3.9%	4.7%	3.2%	114.8	121.6	105.0	102.7	131.4	
30-Jun-14	3.2%	3.4%	5.2%	2.6%	6.0%	118.5	125.7	110.5	105.4	139.3	

Stock Universe: EM Ex ASIA; stock #: 300; Normalisation mode: Country Neutral Source: MSCI, Factset,Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI EM ex Asia

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S	Qtr To	IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
ROA (FY1)	6.3%	5.0%	-1.3%	-1.0%	-1.6%	-0.6%	18%	Value	Historical P/Sales Ratio	-5.1%	0.4%	-20%
1 year forward forecast PE	4.8%	5.2%	0.4%	16.0%	3.1%	3.4%	19%	Value	Cash Flow Yield Mean of FY1 and FY2	-0.6%	1.0%	-17%
Forward Earnings Momentum / Co-Eff Of Variation	4.2%	5.1%	0.9%	6.7%	-0.7%	1.3%	19%	Value	Historical P/Book Value Ratio	0.3%	0.7%	-2%
12 Mth Price Momentum	4.1%	5.5%	1.4%	13.1%	3.8%	9.6%	14%	Value	Historical Earnings Yield	0.7%	1.2%	3%
Composite Forward Earnings Momentum	3.4%	4.2%	0.8%	3.4%	-7.5%	-0.7%	23%	Value	Historical P/Cash Earnings Ratio	0.8%	1.7%	-5%
Forecast PE Relative To Sector	3.1%	3.5%	0.4%	11.9%	5.0%	2.8%	20%	Value	Historical Dividend Yield	1.9%	0.9%	7%
Forward Earnings Momentum (1Mth Change)	3.1%	3.2%	0.1%	17.5%	-0.8%	5.2%	7%	Value	Forecast PE Relative To History	2.4%	-0.1%	20%
Consensus Recommendation	2.9%	3.6%	0.7%	17.6%	5.2%	6.2%	-16%	Value	Forecast PE Relative To Sector	3.1%	1.0%	20%
1 Mth Change in Consensus Recommendation	2.6%	3.8%	1.2%	9.5%	6.5%	1.5%	-8%	Value	1 year forward forecast PE	4.8%	1.3%	19%
Forecast PE Relative To History	2.4%	4.5%	2.0%	-1.4%	9.0%	6.0%	20%	Sentiment	3 Mth Change in Consensus Recommendation	-1.0%	0.9%	-1%
12M Price Mom, vol adjusted	2.3%	4.5%	2.2%	18.6%	4.1%	8.6%	14%	Sentiment	1 Mth Change in Consensus Recommendation	2.6%	0.8%	-8%
Forward Earnings Momentum (3Mth Change)	2.3%	3.5%	1.3%	0.1%	-8.0%	-1.9%	23%	Sentiment	Consensus Recommendation	2.9%	1.4%	-16%
Historical Dividend Yield	1.9%	5.0%	3.1%	11.5%	4.7%	4.5%	7%	Risk	MSCI Beta vs Local Country Index	-0.5%	0.0%	-20%
Net Revisions to FY1	1.7%	3.4%	1.7%	22.8%	10.7%	5.9%	4%	Quality	Composite Co-Efficient of Variation	-1.2%	-0.6%	-3%
12mth Change In ROE	1.2%	3.3%	2.1%	2.2%	0.7%	-0.1%	5%	Quality	Number of Consensus Estimates (FY1)	-0.6%	0.4%	-18%
Historical Return On Equity	1.0%	3.6%	2.7%	6.0%	1.3%	3.1%	10%	Quality	Historical Return On Equity	1.0%	0.5%	10%
6 Mth Price Momentum	0.9%	3.5%	2.7%	7.5%	-4.5%	3.4%	0%	Quality	12mth Change In ROE	1.2%	0.2%	5%
Historical P/Cash Earnings Ratio	0.8%	2.8%	1.9%	22.2%	3.6%	-1.0%	-5%	Quality	ROA (FY1)	6.3%	0.0%	18%
Price Acceleration 6M	0.7%	2.0%	1.3%	-4.7%	-10.9%	-7.8%	-6%	Price	Price Acceleration 3M	-1.5%	-0.8%	-12%
Historical Earnings Yield	0.7%	3.5%	2.8%	15.2%	7.9%	4.0%	3%	Price	3 Mth Price Momentum	-0.8%	-0.7%	-5%
Percent Off 52 Week High	0.4%	3.0%	2.6%	8.1%	1.1%	9.2%	-1%	Price	60 Day Volatility	-0.6%	1.0%	11%
Net Revisions to FY2	0.3%	2.6%	2.3%	9.0%	-3.8%	1.8%	5%	Price	1 Mth Price Momentum	-0.6%	-0.3%	-6%
Historical P/Book Value Ratio	0.3%	2.6%	2.3%	8.0%	1.6%	-4.3%	-2%	Price	RSI 30 day	-0.3%	-0.4%	-4%
RSI 10 day	0.1%	2.5%	2.4%	-14.8%	-4.0%	-1.0%	-10%	Price	RSI 10 day	0.1%	-1.3%	-10%
5 years Historical Earnings Growth	0.0%	2.0%	2.0%	-11.7%	4.5%	3.8%	4%	Price	Percent Off 52 Week High	0.4%	0.7%	-1%
RSI 30 day	-0.3%	2.6%	2.9%	-5.3%	-7.6%	1.6%	-4%	Price	Price Acceleration 6M	0.7%	-0.4%	-6%
MSCI Beta vs Local Country Index	-0.5%	2.7%	3.1%	-0.4%	-4.7%	-3.0%	-20%	Price	6 Mth Price Momentum	0.9%	0.7%	0%
1 Mth Price Momentum	-0.6%	2.3%	2.9%	-3.6%	-8.4%	-1.2%	-6%	Price	12M Price Mom, vol adjusted	2.3%	1.5%	14%
60 Day Volatility	-0.6%	3.1%	3.7%	12.3%	6.3%	7.8%	11%	Price	12 Mth Price Momentum	4.1%	1.1%	14%
Cash Flow Yield Mean of FY1 and FY2	-0.6%	1.9%	2.5%	11.1%	2.5%	-3.6%	-17%	Earnings	Forecast Earnings Growth FY1 to FY2	-2.6%	0.4%	-7%
Number of Consensus Estimates (FY1)	-0.6%	2.2%	2.8%	4.8%	-0.2%	-0.3%	-18%	Earnings	5 years Historical Earnings Growth	0.0%	-1.0%	4%
3 Mth Price Momentum	-0.8%	1.8%	2.6%	-9.4%	-13.6%	0.0%	-5%	Earnings	Net Revisions to FY2	0.3%	0.8%	5%
3 Mth Change in Consensus Recommendation	-1.0%	0.8%	1.8%	11.5%	-1.0%	-0.5%	-1%	Earnings	Net Revisions to FY1	1.7%	1.7%	4%
Composite Co-Efficient of Variation	-1.2%	1.2%	2.4%	-8.0%	-8.1%	-7.4%	-3%	Earnings	Forward Earnings Momentum (3Mth Change)	2.3%	0.1%	23%
Price Acceleration 3M	-1.5%	1.6%	3.1%	-9.7%	-14.6%	-7.7%	-12%	Earnings	Forward Earnings Momentum (1Mth Change)	3.1%	1.4%	7%
Forecast Earnings Growth FY1 to FY2	-2.6%	1.4%	4.0%	3.9%	-5.1%	1.5%	-7%	Earnings	Composite Forward Earnings Momentum	3.4%	0.3%	23%
Historical P/Sales Ratio	-5.1%	-0.6%	4.4%	4.3%	-6.2%	-5.0%	-20%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	4.2%	0.6%	19%

Family Summary – MSCI Global Developed

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	0.0%	0.9%	-0.1%	-1.5%	-0.5%
IC	-5.1%	11.2%	-4.6%	-10.1%	-1.6%
12mth Perf	10.2%	3.9%	4.9%	-4.4%	5.0%
YTD Perf	0.6%	2.8%	-3.5%	-3.5%	-0.7%

Last Month Performance

			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	0.1%	0.3%	0.3%	0.0%	0.4%	100.1	100.3	100.3	100.0	100.4
3-Jun-14	0.1%	0.4%	0.0%	0.0%	0.3%	100.2	100.6	100.3	100.1	100.8
4-Jun-14	0.2%	0.2%	0.2%	0.1%	0.2%	100.4	100.8	100.5	100.2	100.9
5-Jun-14	0.2%	0.2%	0.2%	-0.3%	-0.1%	100.6	101.0	100.6	99.9	100.9
6-Jun-14	0.2%	-0.2%	0.2%	0.1%	0.2%	100.8	100.8	100.9	100.0	101.0
9-Jun-14	0.3%	-0.5%	-0.4%	0.0%	-0.3%	101.1	100.3	100.4	100.0	100.7
10-Jun-14	0.1%	0.3%	0.0%	-0.1%	0.1%	101.1	100.6	100.5	99.9	100.8
11-Jun-14	0.0%	0.1%	-0.1%	-0.1%	-0.2%	101.1	100.7	100.3	99.9	100.5
12-Jun-14	-0.1%	0.0%	-0.3%	-0.1%	-0.2%	101.1	100.7	100.0	99.7	100.3
13-Jun-14	0.2%	-0.1%	-0.3%	-0.6%	-0.3%	101.3	100.6	99.8	99.1	100.1
16-Jun-14	-0.1%	0.0%	-0.2%	0.2%	-0.2%	101.2	100.6	99.5	99.3	99.9
17-Jun-14		-0.2%	0.3%	-0.1%	-0.1%	101.0	100.4	99.8	99.2	99.7
18-Jun-14	0.1%	0.5%	0.4%	-0.1%	0.4%	101.1	100.8	100.2	99.1	100.1
19-Jun-14	0.0%	0.3%	-0.2%	-0.3%	0.0%	101.1	101.1	100.1	98.8	100.2
20-Jun-14	-0.4%	0.2%	0.1%	0.0%	-0.1%	100.7	101.3	100.2	98.8	100.1
23-Jun-14	0.3%	-0.3%	-0.2%	0.0%	-0.1%	101.0	101.0	100.1	98.8	100.0
24-Jun-14	-0.3%	-0.1%	-0.2%	0.0%	-0.2%	100.7	100.9	99.8	98.8	99.8
25-Jun-14	-0.1%	0.2%	0.3%	-0.2%	0.0%	100.6	101.1	100.1	98.5	99.8
26-Jun-14	-0.3%	0.0%	0.3%	-0.1%	0.0%	100.3	101.1	100.4	98.5	99.9
27-Jun-14	-0.1%	-0.2%	0.0%	0.2%	0.0%	100.2	100.9	100.3	98.6	99.8
30-Jun-14	-0.2%	-0.1%	-0.4%	-0.2%	-0.3%	100.0	100.9	99.9	98.5	99.5

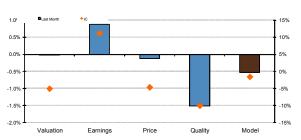
Last 12 Month Performance

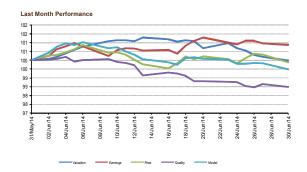
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
30-Jun-13						100.0	100.0	100.0	100.0	100.0
31-Jul-13	1.7%	-0.4%	0.7%	0.5%	1.8%	101.7	99.6	100.7	100.5	101.8
31-Aug-13	0.9%	-1.1%	-2.1%	-1.5%	-1.6%	102.7	98.6	98.6	99.1	100.2
30-Sep-13	1.9%	0.1%	4.4%	-0.2%	2.0%	104.6	98.7	102.9	98.8	102.2
31-Oct-13	1.6%	1.4%	1.4%	0.3%	1.0%	106.3	100.0	104.3	99.2	103.2
30-Nov-13	2.8%	-0.3%	3.2%	-1.1%	2.1%	109.2	99.7	107.7	98.1	105.4
31-Dec-13	0.2%	1.4%	1.0%	0.9%	0.4%	109.5	101.1	108.7	99.0	105.8
31-Jan-14	-1.4%	1.0%	-1.9%	-3.4%	-0.7%	107.9	102.1	106.6	95.6	105.0
28-Feb-14	0.4%	0.8%	0.7%	-0.9%	-0.5%	108.3	102.9	107.3	94.7	104.5
31-Mar-14	2.1%	0.1%	-0.8%	1.7%	1.8%	110.6	103.1	106.5	96.3	106.4
30-Apr-14	0.5%	0.0%	-2.9%	0.1%	-0.9%	111.2	103.1	103.4	96.4	105.4
31-May-14	-0.9%	-0.1%	1.6%	0.7%	0.1%	110.2	103.0	105.0	97.0	105.6
30-Jun-14	0.0%	0.9%	-0.1%	-1.5%	-0.5%	110.2	103.9	104.9	95.6	105.0

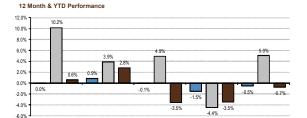
Stock Universe : MSCI GDM ; stock # : 1611 ; Normalisation mode : Sector Neutral

Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance







Factor Summary – MSCI Global Developed

Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

		tion Co-Efficients (IC) Sorted by Monthly L/S						L/S retu				
Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S	Year To Date L/S		Ö	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Forward Earnings Momentum / Co-Eff Of Variation	2.5%	3.2%	0.7%	3.1%	2.3%	1.3%	9%	Value	Historical P/Sales Ratio	-1.9%	0.9%	0%
Net Revisions to FY2	2.1%	3.0%	1.0%	2.9%	3.9%	2.2%	12%	Value	Historical P/Cash Earnings Ratio	-1.5%	0.6%	1%
Net Revisions to FY1	1.7%	3.1%	1.4%	2.2%	2.6%	2.2%	11%	Value	Cash Flow Yield Mean of FY1 and FY2	-1.4%	0.7%	4%
Historical Dividend Yield	1.5%	2.6%	1.0%	4.6%	6.6%	4.8%	-9%	Value	Historical Earnings Yield	-0.6%	0.0%	-4%
Forward Earnings Momentum (1Mth Change)	1.3%	2.4%	1.1%	0.9%	3.2%	1.6%	0%	Value	Forecast PE Relative To Sector	-0.4%	0.4%	-4%
Composite Co-Efficient of Variation	1.2%	2.8%	1.5%	6.1%	2.2%	0.3%	2%	Value	Forecast PE Relative To History	0.0%	0.5%	0%
Composite Forward Earnings Momentum	1.0%	2.7%	1.7%	2.6%	2.9%	1.1%	2%	Value	1 year forward forecast PE	0.3%	0.4%	-1%
Forward Earnings Momentum (3Mth Change)	1.0%	2.8%	1.8%	1.6%	1.6%	0.2%	2%	Value	Historical P/Book Value Ratio	0.4%	0.7%	7%
Price Acceleration 3M	0.8%	2.4%	1.6%	0.5%	-0.5%	0.2%	-2%	Value	Historical Dividend Yield	1.5%	0.4%	-9%
12mth Change In ROE	0.7%	2.5%	1.8%	-2.1%	-1.4%	0.7%	-1%	Sentiment	1 Mth Change in Consensus Recommendation	0.2%	0.1%	0%
Price Acceleration 6M	0.6%	2.6%	1.9%	-0.3%	-0.8%	-0.7%	-2%	Sentiment	3 Mth Change in Consensus Recommendation	0.3%	0.3%	-1%
Consensus Recommendation	0.6%	2.5%	1.9%	3.7%	-0.3%	2.2%	-6%	Sentiment	Consensus Recommendation	0.6%	0.3%	-6%
MSCI Beta vs Local Country Index	0.5%	2.4%	2.0%	7.7%	-1.0%	-1.4%	7%	Risk	MSCI Beta vs Local Country Index	0.5%	0.6%	7%
Historical P/Book Value Ratio	0.4%	2.5%	2.0%	8.8%	3.9%	0.8%	7%	Quality	ROA (FY1)	-1.6%	-0.4%	-10%
6 Mth Price Momentum	0.4%	1.9%	1.6%	-1.5%	-2.7%	-2.7%	-2%	Quality	Historical Return On Equity	-0.7%	-0.4%	-1%
3 Mth Change in Consensus Recommendation	0.3%	1.9%	1.6%	3.3%	1.6%	0.3%	-1%	Quality	Number of Consensus Estimates (FY1)	-0.5%	-0.3%	-14%
1 year forward forecast PE	0.3%	2.5%	2.3%	4.9%	-0.9%	0.9%	-1%	Quality	12mth Change In ROE	0.7%	-0.2%	-1%
1 Mth Change in Consensus Recommendation	0.2%	2.0%	1.8%	1.0%	1.2%	0.1%	0%	Quality	Composite Co-Efficient of Variation	1.2%	0.5%	2%
1 Mth Price Momentum	0.2%	2.0%	1.8%	-8.9%	-4.9%	-2.6%	1%	Price	RSI 10 day	-0.8%	-0.7%	-2%
5 years Historical Earnings Growth	0.2%	2.5%	2.3%	-5.0%	-3.2%	-2.1%	8%	Price	60 Day Volatility	-0.6%	-0.4%	-1%
RSI 30 day	0.1%	2.1%	1.9%	-4.0%	-3.9%	-2.0%	-4%	Price	3 Mth Price Momentum	-0.5%	-0.6%	-5%
Percent Off 52 Week High	0.1%	2.5%	2.3%	-4.0%	-3.6%	-1.1%	-11%	Price	12M Price Mom, vol adjusted	-0.4%	0.0%	-4%
Forecast PE Relative To History	0.0%	1.7%	1.7%	6.3%	5.6%	4.6%	0%	Price	12 Mth Price Momentum	-0.3%	0.1%	-3%
Forecast Earnings Growth FY1 to FY2	-0.2%	2.2%	2.4%	2.0%	-3.0%	-1.8%	-3%	Price	Percent Off 52 Week High	0.1%	-0.3%	-11%
12 Mth Price Momentum	-0.3%	2.4%	2.6%	1.0%	-6.0%	-3.3%	-3%	Price	RSI 30 day	0.1%	-0.3%	-4%
12M Price Mom, vol adjusted	-0.4%	1.9%	2.3%	0.0%	-5.1%	-2.1%	-4%	Price	1 Mth Price Momentum	0.2%	-0.8%	1%
Forecast PE Relative To Sector	-0.4%	2.2%	2.5%	4.9%	-2.3%	-0.4%	-4%	Price	6 Mth Price Momentum	0.4%	-0.1%	-2%
3 Mth Price Momentum	-0.5%	2.3%	2.8%	-7.5%	-6.7%	-4.0%	-5%	Price	Price Acceleration 6M	0.6%	0.0%	-2%
Number of Consensus Estimates (FY1)	-0.5%	1.9%	2.4%	-3.4%	-4.6%	-1.9%	-14%	Price	Price Acceleration 3M	0.8%	0.0%	-2%
60 Day Volatility	-0.6%	1.3%	1.8%	-4.9%	0.8%	2.5%	-1%	Earnings	Forecast Earnings Growth FY1 to FY2	-0.2%	0.2%	-3%
Historical Earnings Yield	-0.6%	2.0%	2.5%	-0.6%	-1.5%	1.4%	-4%	Earnings	5 years Historical Earnings Growth	0.2%	-0.4%	8%
Historical Return On Equity	-0.7%	2.0%	2.7%	-4.6%	-4.2%	-0.8%	-1%	Earnings	Forward Earnings Momentum (3Mth Change)	1.0%	0.1%	2%
RSI 10 day	-0.8%	1.6%	2.4%	-8.1%	-5.5%	-2.9%	-2%	Earnings	Composite Forward Earnings Momentum	1.0%	0.2%	2%
Cash Flow Yield Mean of FY1 and FY2	-1.4%	2.0%	3.4%	8.4%	2.9%	0.5%	4%	Earnings	Forward Earnings Momentum (1Mth Change)	1.3%	0.1%	0%
Historical P/Cash Earnings Ratio	-1.5%	2.2%	3.8%	7.0%	3.5%	1.4%	1%	Earnings	Net Revisions to FY1	1.7%	0.2%	11%
ROA (FY1)	-1.6%	1.5%	3.1%	-5.3%	-2.7%	-1.2%	-10%	Earnings	Net Revisions to FY2	2.1%	0.2%	12%
Historical P/Sales Ratio	-1.9%	1.2%	3.0%	10.5%	-0.8%	-1.0%	0%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	2.5%	0.3%	9%

Family Summary – MSCI All World

Summary and Information Co-Efficients (IC)

	Valuation	Earnings	Price	Quality	Model
Last Month	-0.7%	1.3%	0.9%	-0.8%	0.9%
IC	-2.0%	11.9%	2.8%	-4.7%	4.8%
12mth Perf	10.1%	4.9%	3.2%	-2.6%	10.8%
YTD Perf	1.0%	1.2%	-2.8%	-1.4%	1.7%

Last Month Performance

			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
31-May-14						100.0	100.0	100.0	100.0	100.0
2-Jun-14	0.1%	0.3%	0.3%	0.0%	0.4%	100.1	100.3	100.3	100.0	100.4
3-Jun-14	0.0%	0.4%	0.2%	0.1%	0.2%	100.1	100.7	100.5	100.1	100.6
4-Jun-14	0.0%	0.1%	0.2%	0.1%	0.3%	100.2	100.8	100.7	100.2	100.8
5-Jun-14	0.2%	0.3%	0.2%	-0.1%	0.3%	100.4	101.1	100.9	100.1	101.1
6-Jun-14	0.4%	0.0%	0.1%	0.0%	0.3%	100.8	101.1	101.0	100.1	101.4
9-Jun-14	0.3%	-0.5%	-0.4%	0.0%	-0.2%	101.1	100.6	100.5	100.1	101.2
10-Jun-14	-0.1%	0.2%	-0.2%	-0.2%	0.1%	101.0	100.8	100.3	99.9	101.3
11-Jun-14	-0.2%	0.2%	0.3%	0.1%	0.2%	100.8	101.0	100.6	99.9	101.5
12-Jun-14	0.1%	-0.1%	-0.3%	-0.3%	-0.1%	100.9	100.9	100.3	99.7	101.4
13-Jun-14	0.0%	-0.3%	-0.1%	-0.2%	-0.4%	100.9	100.6	100.2	99.5	101.0
16-Jun-14	-0.1%	0.0%	-0.2%	0.2%	-0.1%	100.8	100.6	100.0	99.6	100.9
17-Jun-14	-0.1%	-0.1%	0.0%	-0.2%	-0.1%	100.7	100.5	100.0	99.4	100.8
18-Jun-14	-0.1%	0.3%	0.5%	-0.1%	0.2%	100.7	100.9	100.6	99.3	101.0
19-Jun-14	-0.2%	0.3%	0.0%	-0.2%	0.0%	100.5	101.1	100.5	99.1	101.0
20-Jun-14	-0.4%	0.2%	0.0%	0.0%	-0.1%	100.1	101.3	100.5	99.1	100.9
23-Jun-14	0.2%	-0.2%	-0.3%	-0.1%	-0.1%	100.2	101.2	100.2	98.9	100.8
24-Jun-14	-0.3%	0.0%	-0.1%	0.0%	-0.1%	99.9	101.2	100.1	99.0	100.7
25-Jun-14	-0.1%	0.2%	0.5%	0.2%	0.2%	99.9	101.4	100.6	99.2	100.9
26-Jun-14	-0.4%	0.1%	0.3%	0.1%	0.1%	99.5	101.5	101.0	99.3	101.1
27-Jun-14	-0.1%	-0.2%	0.0%	0.1%	-0.1%	99.4	101.3	101.0	99.4	101.0
30-Jun-14	-0.2%	0.1%	-0.1%	-0.2%	-0.1%	99.3	101.3	100.9	99.2	100.9

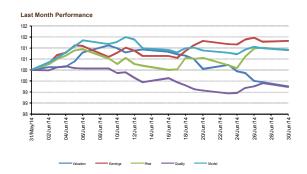
Last 12 Month Performance

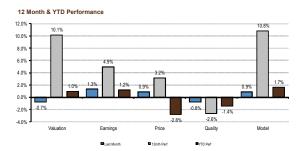
			Price					Index		
Date	Valuation	Earnings	Price	Quality	Model	Valuation	Earnings	Price	Quality	Model
30-Jun-13						100.0	100.0	100.0	100.0	100.0
31-Jul-13	1.1%	0.5%	1.7%	0.7%	2.4%	101.1	100.5	101.7	100.7	102.4
31-Aug-13	3.1%	0.2%	-4.6%	-2.6%	-0.2%	104.3	100.7	97.1	98.0	102.3
30-Sep-13	1.1%	0.6%	3.1%	-0.2%	1.3%	105.4	101.3	100.1	97.9	103.6
31-Oct-13	1.2%	1.0%	1.8%	0.7%	1.5%	106.7	102.3	101.9	98.5	105.1
30-Nov-13	2.7%	0.2%	3.2%	-0.1%	2.9%	109.5	102.5	105.2	98.4	108.2
31-Dec-13	-0.4%	1.2%	0.8%	0.4%	0.7%	109.1	103.7	106.1	98.8	109.0
31-Jan-14	-1.8%	0.5%	-0.2%	-2.3%	-0.3%	107.1	104.2	105.8	96.5	108.7
28-Feb-14	-0.1%	-0.1%	1.0%	-0.4%	0.3%	107.0	104.1	106.9	96.2	109.0
31-Mar-14	2.7%	-0.3%	-2.3%	2.1%	0.7%	109.9	103.8	104.5	98.2	109.7
30-Apr-14	0.5%	-0.6%	-3.5%	-0.6%	-1.1%	110.5	103.1	100.8	97.6	108.5
31-May-14	0.4%	0.4%	1.4%	0.5%	1.2%	111.0	103.5	102.2	98.1	109.8
30-Jun-14	-0.7%	1.3%	0.9%	-0.8%	0.9%	110.1	104.9	103.2	97.4	110.8

Stock Universe: MSCI WORLD; stock #: 2446; Normalisation mode: Country Neutral Source: MSCI, Factset, Reuters, J.P. Morgan Calcs

Last Month Performance





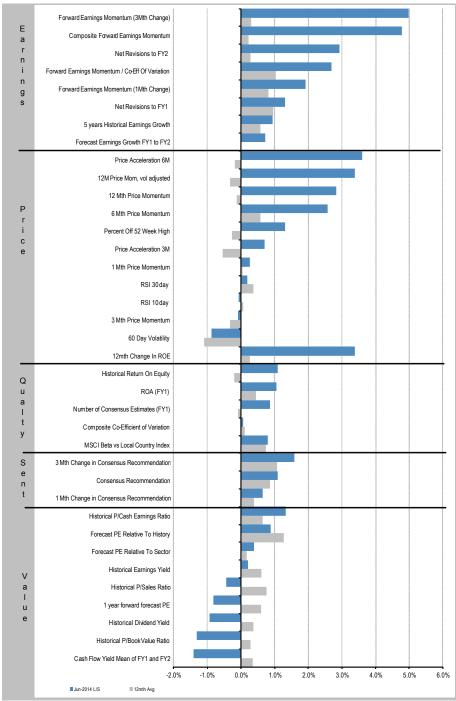


Factor Summary – MSCI All World

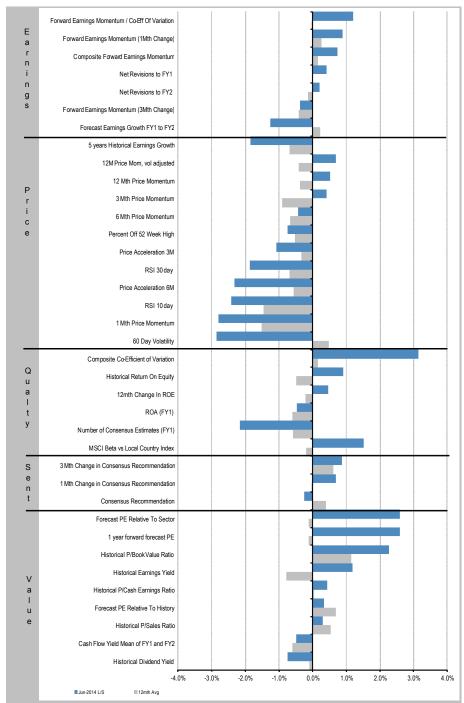
Factor Summary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor Family (RHS)

Factor Summary and Informat	ary and Information Co-Efficients (IC) Sorted by Monthly L/S return (LHS) and by Factor I			rn (LHS) and by Factor Family ((RHS)							
Name	Jun- 2014 L/S	Jun- 2014 Long	Jun- 2014 Short	12 Month L/S		Qtr To Date L/S	IC	Family	Name	Jun- 2014 L/S	12mth Avg	IC
Forward Earnings Momentum (3Mth Change)	2.3%	3.4%	1.1%	-0.2%	0.9%	1.7%	5%	Value	Historical P/Sales Ratio	-1.8%	0.4%	-2%
Forward Earnings Momentum / Co-Eff Of Variation	2.2%	3.6%	1.4%	4.7%	2.7%	2.3%	10%	Value	Cash Flow Yield Mean of FY1 and FY2	-0.4%	0.5%	-2%
Composite Forward Earnings Momentum	2.1%	3.3%	1.2%	-0.1%	0.6%	1.4%	5%	Value	Historical Earnings Yield	-0.3%	0.3%	-2%
Net Revisions to FY2	1.9%	3.1%	1.2%	3.1%	1.2%	2.1%	12%	Value	Historical P/Cash Earnings Ratio	-0.3%	0.7%	-1%
Net Revisions to FY1	1.5%	3.3%	1.8%	6.7%	3.9%	2.6%	9%	Value	Historical P/Book Value Ratio	-0.2%	0.5%	2%
Forward Earnings Momentum (1Mth Change)	1.5%	2.8%	1.4%	5.2%	2.6%	2.5%	1%	Value	Historical Dividend Yield	-0.2%	0.0%	-5%
6 Mth Price Momentum	1.5%	3.1%	1.6%	1.0%	-2.1%	-0.1%	1%	Value	Forecast PE Relative To Sector	0.0%	0.5%	-2%
12 Mth Price Momentum	1.3%	3.8%	2.4%	0.4%	-5.3%	-2.3%	2%	Value	1 year forward forecast PE	0.0%	0.8%	1%
Price Acceleration 6M	1.1%	2.8%	1.7%	-2.2%	-1.7%	-1.5%	2%	Value	Forecast PE Relative To History	0.1%	0.6%	0%
12mth Change In ROE	0.9%	2.9%	1.9%	0.1%	0.3%	1.0%	0%	Sentiment	1 Mth Change in Consensus Recommendation	0.1%	0.2%	-2%
12M Price Mom, vol adjusted	0.9%	3.4%	2.5%	-1.8%	-6.4%	-1.9%	2%	Sentiment	3 Mth Change in Consensus Recommendation	0.4%	0.5%	-2%
Consensus Recommendation	0.8%	2.8%	2.0%	9.2%	1.2%	1.1%	-7%	Sentiment	Consensus Recommendation	0.8%	0.7%	-7%
5 years Historical Earnings Growth	0.7%	2.2%	1.5%	0.3%	0.4%	-0.4%	5%	Risk	MSCI Beta vs Local Country Index	0.7%	0.7%	5%
MSCI Beta vs Local Country Index	0.7%	2.8%	2.1%	8.6%	-1.0%	0.3%	5%	Quality	Number of Consensus Estimates (FY1)	-0.1%	-0.2%	-5%
Historical Return On Equity	0.5%	2.4%	1.9%	-2.4%	-2.3%	-0.6%	-1%	Quality	ROA (FY1)	0.2%	0.0%	-1%
Composite Co-Efficient of Variation	0.4%	2.3%	1.8%	3.0%	-0.2%	-0.8%	2%	Quality	Composite Co-Efficient of Variation	0.4%	0.3%	2%
3 Mth Change in Consensus Recommendation	0.4%	2.0%	1.6%	6.1%	0.8%	1.5%	-2%	Quality	Historical Return On Equity	0.5%	-0.2%	-1%
Price Acceleration 3M	0.3%	2.4%	2.1%	-4.9%	-3.4%	-1.2%	0%	Quality	12mth Change In ROE	0.9%	0.0%	0%
1 Mth Price Momentum	0.3%	2.3%	2.0%	-6.0%	-5.2%	-2.2%	3%	Price	60 Day Volatility	-1.2%	-0.3%	0%
ROA (FY1)	0.2%	2.3%	2.1%	0.4%	-0.4%	-0.2%	-1%	Price	3 Mth Price Momentum	-1.0%	-0.8%	1%
RSI 30 day	0.1%	2.3%	2.1%	-0.1%	-1.8%	-0.5%	-2%	Price	RSI 10 day	-0.3%	-0.3%	-4%
1 Mth Change in Consensus Recommendation	0.1%	1.9%	1.8%	2.0%	0.3%	-0.6%	-2%	Price	Percent Off 52 Week High	-0.1%	-0.6%	-6%
Forecast PE Relative To History	0.1%	2.0%	1.9%	7.4%	6.9%	4.4%	0%	Price	RSI 30 day	0.1%	0.0%	-2%
1 year forward forecast PE	0.0%	1.9%	1.9%	9.2%	0.0%	0.9%	1%	Price	1 Mth Price Momentum	0.3%	-0.5%	3%
Forecast PE Relative To Sector	0.0%	2.3%	2.3%	6.1%	-0.4%	0.0%	-2%	Price	Price Acceleration 3M	0.3%	-0.4%	0%
Percent Off 52 Week High	-0.1%	2.5%	2.6%	-6.7%	-6.8%	-1.4%	-6%	Price	12M Price Mom, vol adjusted	0.9%	-0.1%	2%
Number of Consensus Estimates (FY1)	-0.1%	2.5%	2.6%	-2.4%	-4.2%	-1.9%	-5%	Price	Price Acceleration 6M	1.1%	-0.2%	2%
Historical Dividend Yield	-0.2%	2.7%	2.9%	-0.1%	4.5%	3.7%	-5%	Price	12 Mth Price Momentum	1.3%	0.1%	2%
Historical P/Book Value Ratio	-0.2%	2.1%	2.3%	5.4%	4.4%	1.2%	2%	Price	6 Mth Price Momentum	1.5%	0.1%	1%
RSI 10 day	-0.3%	2.1%	2.4%	-3.2%	-1.2%	0.4%	-4%	Earnings	Forecast Earnings Growth FY1 to FY2	-0.7%	0.1%	-4%
Historical P/Cash Earnings Ratio	-0.3%	2.6%	2.9%	8.5%	5.8%	3.7%	-1%	Earnings	5 years Historical Earnings Growth	0.7%	0.0%	5%
Historical Earnings Yield	-0.3%	2.1%	2.4%	3.8%	0.0%	1.9%	-2%	Earnings	Forward Earnings Momentum (1Mth Change)	1.5%	0.4%	1%
Cash Flow Yield Mean of FY1 and FY2	-0.4%	2.2%	2.6%	6.0%	5.4%	2.3%	-2%	Earnings	Net Revisions to FY1	1.5%	0.5%	9%
Forecast Earnings Growth FY1 to FY2	-0.7%	2.6%	3.3%	1.4%	-2.7%	-1.8%	-4%	Earnings	Net Revisions to FY2	1.9%	0.3%	12%
3 Mth Price Momentum	-1.0%	2.4%	3.3%	-9.6%	-9.8%	-3.1%	1%	Earnings	Composite Forward Earnings Momentum	2.1%	0.0%	5%
60 Day Volatility	-1.2%	1.4%	2.7%	-4.1%	-0.5%	2.0%	0%	Earnings	Forward Earnings Momentum / Co-Eff Of Variation	2.2%	0.4%	10%
Historical P/Sales Ratio	-1.8%	1.4%	3.2%	4.7%	-0.8%	-0.6%	-2%	Earnings	Forward Earnings Momentum (3Mth Change)	2.3%	0.0%	5%

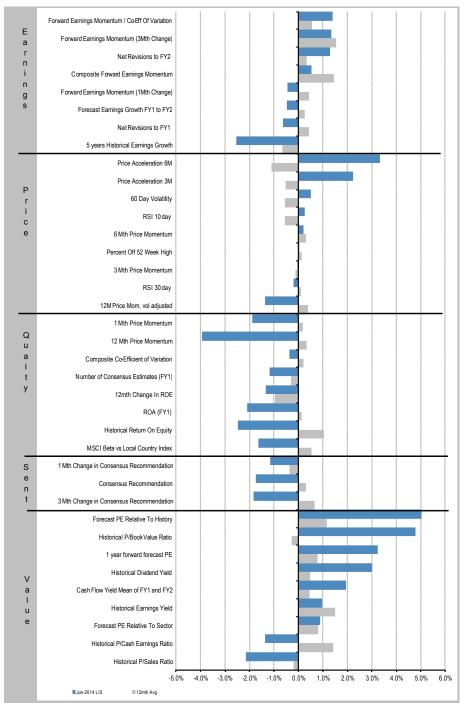
Factor Summary Chart – MSCI Asia ex Japan



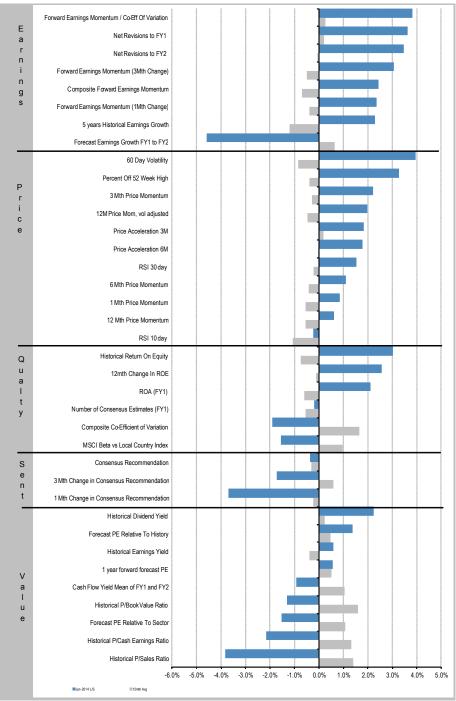
Factor Summary Chart – Japan



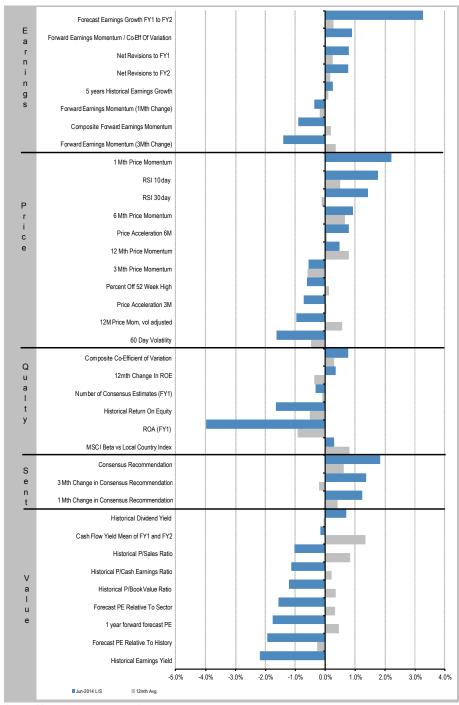
Factor Summary Chart – MSCI Australia



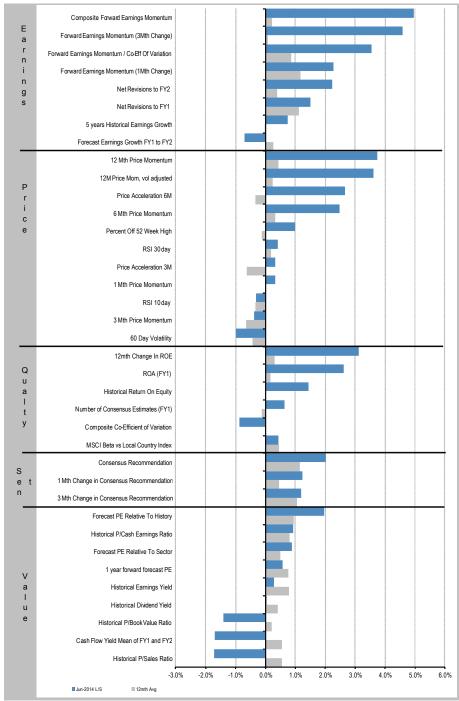
Factor Summary Chart – MSCI Europe



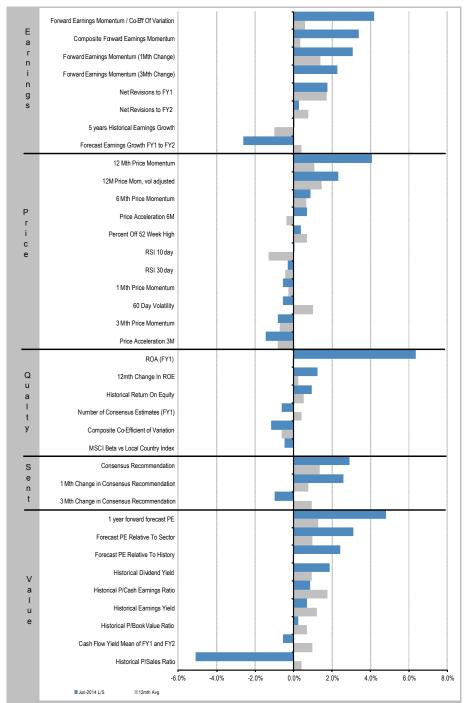
Factor Summary Chart – MSCI US



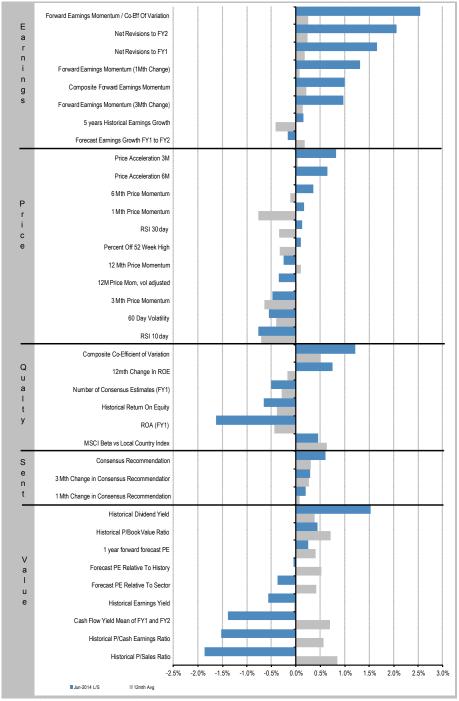
Factor Summary Chart – MSCI GEM



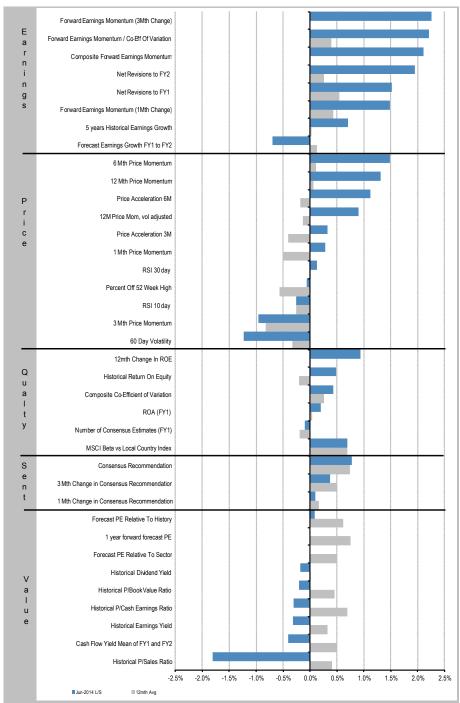
Factor Summary Chart – MSCI EM ex Asia



Factor Summary Chart – MSCI Global Developed



Factor Summary Chart – MSCI All world



Viquar Shaikh

Information Coefficient Matrix – Valuation

	ALL	Energy	Materials	Indust	Disc	Staples	Health Care	Ë	⊨	Telcos	Utilities
ALL WORLD	-4%	-8%	-3%	-2%	2%	-8%	-6%	-12%	-4%	-6%	13°
EGIONS											
Asia Ex Jp	-3%	40%	-16%	8%	10%	-20%	12%	-7%	2%	-29%	-19
Japan	10%	-24%	25%	15%	5%	26%	-24%	22%	0%	42%	59
Australia	17%	55%	18%	26%	-21%	19%	55%	-30%			239
Europe	-23%	2%	-7%	-24%	-3%	-20%	-16%	-35%	-20%	-21%	-239
US	-2%	-13%	-7%	-27%	0%	-26%	-10%	30%	-1%	16%	239
GEM	-2%	30%	-6%	4%	3%	-7%	18%	-13%	0%	-18%	139
EM Ex Asia	9%	16%	7%	-4%	-11%	29%	71%	-8%	4.404	14%	419
GDM	-7%	-14%	-2%	-9%	-1%	-8%	-12%	-11%	-11%	10%	69
SIA											
De ve lope d Australia	17%	55%	18%	26%	-21%	19%	55%	-30%			239
		55%	18%	20%	-21%	19%	55%	-30%			23
New Zealand Hong Kong	-53% 21%			4%	48%			31%			119
Japan	10%	-24%	25%	15%	5%	26%	-24%	22%	0%	42%	59
Singapore	39%	-24 70	25%	53%	42%	56%	-24 70	15%	076	4270	5
Emerging	13%	23%	-10%	17%	-2%	27%	18%	30%	8%	28%	259
China	-6%	57%	-23%	-31%	-13%	-44%	95%	3%	19%	45%	-69
India	-1%	11%	-21%	-55%	-1%	-10%	63%	-2%	-51%	-37%	-49
Indonesia	-11%	30%	-21/0	-33 /6	-33%	-25%	0376	50%	-51/6	-90%	4
Korea	0%	84%	-31%	37%	18%	-32%		-51%	6%	11%	
Malaysia	-12%	93%	-5170	-37%	-63%	-57%		68%	070	-18%	-38'
Philippines	34%	3070		-14%	0070	01 70		45%		1070	00
Taiw an	-20%		-48%	13%	22%			-73%	-6%	-100%	
Thailand	-28%	60%	-98%	1070	31%			59%	0,0	10070	
MEA		00.0			0.70			30 //			
Developed											
Austria	-19%							-34%			
Belgium	-22%					-27%		-89%			
Denmark	-56%			-98%			-38%				
Finland	-85%			-96%							
France	-35%		-89%	-18%	-21%	58%		-68%	-70%	55%	13
Germany	-44%		0%	-78%	-16%	97%	-59%	-72%	97%		
Greece	45%				7%			73%			
Ireland	14%						_				
Israel	-38%							-80%			
Italy	-30%	-49%		32%	-99%			52%			1009
Netherlands	27%			-17%		57%		8%			
Norw ay	30%	18%									
Portugal	-96%										
Spain	-33%			-56%				10%			70
Sw eden	-10%			-46%	-55%			-60%		-91%	
Sw itzerland	-29%		-75%	-28%		-45%	-16%	-57%			
United Kingdom	-11%	-25%	8%	7%	26%	-68%	16%	-28%		-40%	-68
Emerging											
Czech Republic	-30%										
Egypt	99%										
Hungary	-100%										
Morocco	_										
Poland	9%	-54%	-5%					-30%	_		-44
Russia	33%	-7%			_			45%		69%	
South Africa	10%		-18%		-24%	52%	39%	7%			
Turkey	-14%			-70%	-93%	-7%		-14%			
MERICAS											
Developed							_				
Canada	-8%	-1%	-34%	-7%	46%	13%		46%	-100%	-36%	-2
United States	-2%	-13%	-7%	-27%	0%	-26%	-10%	30%	-1%	16%	23
Emerging									_		
Brazil	13%	55%	1%	43%	-20%	26%		-19%		-71%	34
Chile	20%					23%		-40%			73
Colombia	-9%		7%					-40%			
Mexico	32%		-71%	65%		7%		-36%			
Peru	91%										

Information Coefficient Matrix – Earnings

GEM		ALL	Energy	Materials	Indust	Disc	Staples	Health	Ē	⊨	Telcos	Utilities
Asia Et 2-17 Appara 10% 29% 7% 10% 14% 13% 15% 15% 14% 14% 14% 15% 15% 14% 14% 14% 14% 14% 14% 15% 15% 15% 14% 14% 14% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15		12%	21%	21%	8%	11%	18%	-5%	12%	4%	2%	10%
Japan		14%	-7%	21%	31%	-1%	19%	23%	15%	-7%	19%	369
Australia												259
Europe 11% 20% 29% 1-9% 11% 9% 15% 0% 2-2% 1-7% 17% 12% 16% 18% 16% 16% 12% 17% 2-24% 17% 12% 19% 21% 9% 20% 2-3 15% 2-6% 17% 12% 19% 21% 9% 20% 2-3 15% 2-6% 17% 12% 19% 21% 19% 21% 19% 21% 19% 21% 19% 21% 19% 22% 15% 25% 18% 22% 15% 15% 2-6% 17% 12% 18% 1-6% 15% 10% 14% 14% 15% 12% 18% 1-5% 10% 18% 1-44% 15% 12% 18% 1-5% 10% 19% 14% 14% 12% 18% 1-5% 10% 19% 14% 14% 15% 15% 14% 26% 14% 15% 15% 15% 14% 26% 14% 15% 15% 15% 14% 26% 14% 15% 15% 15% 15% 15% 15% 15% 15% 15% 15												929
DEM	Europe	1%	26%	29%	-16%	11%	9%	15%	0%	-2%	-17%	69
Martina		5%		-3%					16%	1%		-199
Days										-6%		189
Developed Australia Sept												-39
Developed Australia		11%	23%	23%	6%	12%	18%	-5%	10%	8%	-14%	89
Australia												
New Zealand 5-54%		E0/.	170/	250/.	220/.	210/	E10/.	960/	200/.			929
Hong Kong			-17 /0	-33 /0	-33/0	-31/6	-5170	-00 /0	20 /0			92
Japan 10% 29% 7% 10% 14% -13% 15% -14% 28% -46% 58papore 24% 55% -52% -52% -52% -52% -52% -52% -52%					23%	-29%			-19%			46'
Singapore			29%	7%			-13%	15%		26%	-46%	25'
Emerging												
China			10%	-2%				4%		-4%	-12%	13'
Indonesia 3% 348		29%	-29%	31%	33%	34%	-32%	21%	14%	-11%	-26%	719
KOrea 21% 69% 29% 38% -13% 11% -19% 58% 88% Malaysia 31% 89% -20% -58% 19% 62% 80% Philippines -12% 46% 38% 11% 38% -17% -90% Tawan 8% 52% 50% -19% 22% -17% -90% Developed Austria -29% 55% 88% -34% -34% -22% 55% 88% -34% -34% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -24% -22% -22% -22% -66% -34% -22% -22% -22% -66% -66% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -22% -25% -80% -80% -80% -80% -80% -80% -80	India	6%	-9%	-13%	57%	-75%	42%	33%	18%	-50%	-98%	-8'
Malaysia 31% 88% -20% -58% 19% 62% 80% Philippines 1-12% -48% -19% 29% -17% -90% 11% -17% -90% -17% -29% -29% -29% -29% -29% -29% -29% -29% -29% -29% -29% -29% -29% -72% -29% -29% -72% -72% -29% -72%	Indonesia					32%						
Philippines				29%						58%		
Tawan 8% 52% 50% -19% 29% 11% 99% 11% 11% 18% -16% 2% 99% 11% 11% 11% 199% 11% 11% 11% 11% 1			89%			-58%	19%				80%	71'
Thailand												
Developed Austria			400/		50%					-17%	-90%	
Developed Austria -29%		18%	-16%	2%		99%			11%			
Austria Selgium 30% 29% 34% 34% 58% 59% 61% 64% -77% -29% -2												
Belgium 30%		-20%							50%			
Denmark							29%					
Finland					-77%		2070	-29%	0470			
France												
Greece -3% 92% -72% Ireland 8-82% Israel 6% 100% Italy 11% -90% 24% 13% 55% Netherlands -4% -24% -75% -80% Norway -1% -64% Portugal -28% Spain -7% -73% 18% -87% Sweden -55% -6% -18% -96% -87% Switzerland 30% 76% 25% 7% 61% -1% United Kingdom 18% 97% 66% -5% 22% 44% 46% -4% 41% Emerging Czech Republic -91% Egypt -44% Hungary 30% Morocco Poland 4% -62% -92% Russia 19% 32% -36% -36% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Colombia -29% -77% Mexico -18% -28% -45% 1% 7%				64%		-7%	22%		5%	68%	-34%	33'
Feland	Germany	-21%		-31%	-79%	3%	-59%	-67%	63%	-66%		
Brael 6%	Greece	-3%				92%			-72%			
Italy 11% -90% 24% 13% 5% Netherlands -4% -24% -75% -80% Norw ay -1% -64% Portugal -28% Spain -7% 18% Sw eden -55% -6% -18% Switzerland 30% 76% 25% 7% 61% -1% United Kingdom 18% 97% 66% -5% 22% 44% 46% -4% 41% Emerging Czech Republic -91% Egypt -44% Hungary 30% Morocco -92% 8% -8% Russia 19% 32% -8% 78% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 16% -18% 11% 99% Emerging Brazil 35% 84% 58%<	Ireland	-82%										
Netherlands	Israel											
Norw ay -1% -64% Portugal -28% Spain -7% -6% -18% -96% Sw eden -555% -6% -18% -96% Sw itzerland 30% -76% 25% -7% 61% -1% United Kingdom 18% 97% 66% -5% 22% 44% 46% -4% 41% Emerging Czech Republic -91% Egypt -44% Hungary 30% Morocco Poland 4% -62% -92% Russia 19% 32% -36% -36% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Mexico -18% -29% -77% Mexico -18% -28% -45%	Italy		-90%			13%						30'
Portugal -28% Spain -7% -7% -6% -18% -96% -87% Sweden -55% -6% -18% -96% -87% Switzerland 30% 76% 25% 7% 61% -1% United Kingdom 18% 97% 66% -5% 22% 44% 46% -4% 41% Emerging Czech Republic Egypt -44% Hungary 30% Morocco Poland 4% -62% -92% 8% 8% Russia 19% 32% -36% 57% Turkey -36% 4% -99% -4% -14% -14% -64% 57% Turkey -36% 4% -99% -4% -14% -14% -14% -14% -14% -14% -14%					-24%		-75%		-80%			
Spain -7% -73% -73% -78% -8% -8% -86% -87% -87% Sweden -55% -6% -18% -8% -87% -87% Sweden -8% -8% -87% -8	•		-64%									
Sweden	-			_								
Switzerland 30% 76% 25% 7% 61% -1% United Kingdom 18% 97% 66% -5% 22% 44% 46% -4% 41% Emerging Czech Republic Egypt -44% Hungary 30% Morocco Poland 4% -62% -92% 8% -36% 78% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% -14% -14% -14% -14% -14% -14%						100/		_		_	a=a/	-40
United Kingdom Emerging Czech Republic Egypt 44% Hungary 30% Morocco Poland 4% -62% South Africa Turkey -36% Turkey -36% Emerging Canada 16% 38% 44% 19% 58% 19% 19% 19% 19% 19% 19% 19% 1				700/		-18%	70/	040/			-87%	
Emerging Czech Republic			070/			220/					440/	64'
Czech Republic Egypt	-	18%	97%	00%	-5%	22%	44%	46%	-4%		41%	04
Egypt		01%										
Hungary Morocco Poland 4% -62% -92% Russia 19% 32% -36% 78% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% -30% 60% Colombia -29% -77% Mexico -18% 28% -45% 1% 7%	•											
Morocco Poland 4% -62% -92% Russia 19% 32% South Africa 31% -36% 57% Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% Colombia -29% -77% Mexico -18% 28% -45% 1% 7%												
Poland 4% -62% -92% 8% 8% 36% 78% South Africa 31% 24% 1% -14% -64% 57% Turkey -36% 4% -99% -4% -14% -64% 57% Turkey 9-36% 8 4% -99% -4% -14% -14% -14% -14% -14% -14% -14%		0070										
Russia 19% 32%		4%	-62%	-92%					8%			58'
Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% Colombia -29% -77% Mexico -18% 28% -45% 1% 7%											78%	
Turkey -36% 4% -99% -4% -14% MERICAS Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% Colombia -29% -77% Mexico -18% 28% -45% 1% 7%				24%		1%	-14%	-64%		_		
Developed Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% 30% 60% Colombia -29% -77% 6% Mexico -18% 28% -45% 1% 7%					4%							
Canada 16% 38% 44% 19% 65% 39% -25% -98% 39% United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% - 30% 60% - Colombia -29% -77% -6% -6% Mexico -18% 28% -45% 1% 7%	MERICAS				-							
United States 5% 7% -3% 1% 12% 16% -18% 16% 1% -24% Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% Colombia -29% Mexico -18% 28% -45% 11% 7%	Developed											
Emerging Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% 30% 60% 60% Colombia -29% -77% -6% Mexico -18% 28% -45% 1% 7%												-57
Brazil 35% 84% 58% 74% 23% 42% 11% 99% Chile 52% 30% 60% Colombia -29% -77% 40xico -18% 28% -45% 1% 7%		5%	7%	-3%	1%	12%	16%	-18%	16%	1%	-24%	-19
Chile 52% Colombia -29% Mexico -18% 28% -45% 1% 7%										_		
Colombia -29% -77% -6% Mexico -18% 28% -45% 1% 7%			84%	58%	74%	23%					99%	27
Mexico -18% 28% -45% 1% 7%			_				30%					34
							45:					
Peru -64%	IMPAICO	-18%		28%	-45%		1%		7%			

Source: JPMorgan

Source: JPMorgan

Information Coefficient Matrix – Price

	ALL	Energy	Materials	Indust	Disc	Staples	Health	Ë	⊨	Telcos	Utilities
ALL WORLD	3%	24%	0%	-1%	8%	18%	3%	-10%	3%	-17%	-29
EGIONS Asia Ex Jp	17%	4%	14%	34%	15%	11%	-2%	-1%	12%	-41%	359
Japan	12%	89%	43%	-5%	17%	25%	-12%	-14%	38%	-21%	49
Australia	-22%	-80%	-27%	-2%	-75%	-50%	-73%	13%	3070	-2170	-929
Europe	-2%	-18%	-13%	9%	14%	37%	54%	-22%	-42%	4%	-129
US	6%	21%	-15%	-23%	22%	-1%	-14%	23%	5%	33%	-12
GEM	18%	8%	22%	28%	25%	14%	9%	7%	14%	-24%	-12
EM Ex Asia	20%	13%	28%	1%	41%	32%	51%	15%	14 /0	1%	-359
GDM	-4%								40/		
	-4%	24%	-15%	-10%	3%	18%	2%	-24%	-4%	1%	-109
SIA											
Developed	000/	200/	070/	00/	750/	500 /	700/	400/			000
Australia	-22%	-80%	-27%	-2%	-75%	-50%	-73%	13%			-929
New Zealand	87%			2001	404			407			
Hong Kong	2%			-23%	-1%			-1%			-719
Japan	12%	89%	43%	-5%	17%	25%	-12%	-14%	38%	-21%	49
Singapore	63%			61%	98%	95%		2%			
Emerging	5%	7%	23%	11%	2%	-10%	-18%	-2%	-8%	-28%	179
China	16%	21%	22%	43%	15%	-31%	-24%	-33%	-36%	-59%	459
India	22%	25%	-35%	-40%	0%	-56%	41%	43%	-75%	95%	529
Indonesia	40%	-34%			53%	73%		54%		92%	
Korea	14%	34%	-12%	32%	9%	31%		-30%	36%	93%	
Malaysia	20%	-85%		66%	90%	-20%		-25%		77%	469
Philippines	-17%			-50%				78%			
Taiw an	24%		74%	80%	65%	-100%		25%	3%	-53%	
Thailand	-42%	6%	26%		23%			14%	- 7.	5575	
/IEA											
Developed											
Austria	14%							34%			
Belgium	11%					95%		-54%			
Denmark	-57%			-100%		3370	75%	-54 /0			
	3%			-46%			1576				
Finland			220/		040/	050/		0.40/	FC0/	040/	cor
France	-21%		23%	21%	21%	65%	270/	-84%	-56%	64%	-69%
Germany	5%		27%	22%	24%	12%	-37%	37%	-74%		
Greece	63%				7%			-34%			
Ireland	-68%						_				
Israel	30%		_					-72%		_	
Italy	-7%	98%		87%	-94%			36%			889
Netherlands	-22%			-57%		55%		-25%			
Norw ay	-36%	-26%									
Portugal	-58%										
Spain	-18%			-36%				-1%			-429
Sw eden	4%			64%	-53%			20%		-49%	
Sw itzerland	43%		69%	63%	11%	44%	87%	-1%			
United Kingdom	21%	-5%	-35%	-49%	22%	53%	76%	38%		-14%	469
Emerging	2.70	0,0	30,0	.0,0		50,5		30,0		, ,	.0
Czech Republic	6%										
	-66%										
Egypt											
Hungary	91%										
Morocco	.=0.	4000					_				
Poland	-17%	-100%	-4%					-44%	_		189
Russia	20%	-4%	54%	_				5%		64%	
South Africa	37%		-25%		77%	31%	94%	50%			
Turkey	39%			22%	87%	85%		15%			
MERICAS											
Developed											
Canada	-25%	40%	-9%	-38%	28%	-21%		16%	-97%	-84%	269
United States	6%	21%	-15%	-23%	22%	-1%	-14%	23%	5%	33%	-129
Emerging											
Brazil	21%	-96%	45%	60%	30%	47%		7%		93%	-459
Chile	64%		-28%			86%		91%			989
Colombia	64%		42%					-71%			
COIOLLIDIA	07/0				_						
Mexico	8%		-10%	-44%		-48%		47%			

Information Coefficient Matrix – Quality

	ALL	Energy	Materials	Indust	Disc	Staples	Health	Ε	⊨	Telcos	Utilities
ALL WORLD	-5%	5%	-15%	-4%	-7%	3%	-24%	23%	-21%	-6%	7
GIONS	10/	200/	00/	27%	20/	20/	100/	0%	5%	260/	8
Asia Ex Jp	1%	29%	9%		-2%	2% 9%	-19%			-36%	
Japan	-9%	87%	4%	-18%	-5%		-8%	-4%	-30%	-19%	36
Australia	-11%	29%	5%	8%	-53%	-66%	-51%	-47%	400/	070/	100
Europe	17%	-22%	-3%	-2%	15%	16%	14%	47%	43%	-27%	6
US	-16%	15%	-51%	-8%	-10%	4%	-41%	19%	-41%	30%	14
GEM	5%	17%	9%	27%	0%	6%	-24%	14%	6%	-14%	14
EM Ex Asia	10%	-8%	6%	30%	-20%	14%	-32%	31%	0.404	48%	24
GDM	-11%	0%	-28%	-16%	-10%	-3%	-23%	30%	-31%	8%	5
IA											
Developed	440/	000/	50/	00/	500/	000/	E40/	470/			400
Australia	-11%	29%	5%	8%	-53%	-66%	-51%	-47%			100
New Zealand	-26%			100/	2001						
Hong Kong	-28%			19%	-39%			-32%			98
Japan	-9%	87%	4%	-18%	-5%	9%	-8%	-4%	-30%	-19%	36
Singapore	9%			16%	88%	83%		8%			
merging	1%	13%	2%	15%	-20%	-4%	-14%	-18%	15%	-12%	26
China	6%	74%	-36%	6%	-5%	-19%	-21%	18%	48%	-44%	42
India	8%	-37%	56%	61%	96%	84%	-48%	-10%	4%	-100%	15
Indonesia	51%	17%			53%	22%		46%		66%	
Korea	3%	-43%	60%	19%	-28%	-37%		-28%	-21%	37%	
Malaysia	30%	5%		65%	-21%	65%		-6%		89%	2
Philippines	3%	_		-16%				62%	_		
Taiw an	9%		85%	74%	10%			-41%	3%	-97%	
Thailand	-43%	99%	-52%		-65%			53%			
EA											
Developed											
Austria	29%							13%			
Belgium	-18%					17%		-91%			
Denmark	54%						99%				
Finland	37%			64%		_					
France	24%		52%	3%	-10%	-8%		16%	90%	6%	-90
Germany	4%		25%	24%	35%	-81%	-45%	62%	-94%		
Greece	56%				-82%			80%			
Ireland	100%			_			_				
Israel	64%							-24%			
Italy	6%	51%		-87%	91%			71%			
Netherlands	4%			-49%		-16%		-2%			
Norw ay	-8%	3%		1070		1070		270			
Portugal	76%	0,0									
Spain	17%			-5%				0%			-:
Sw eden	3%			68%	91%			36%		-79%	
Sw itzerland	22%		68%	51%	3170	-48%	3%	59%		-1370	
United Kingdom	0%	-41%	-76%	27%	17%	53%	-44%	43%			-64
Ü	0 /6	-4170	-7076	21 /0	17 /0	33 /6	-44 /0	4370			-0-
merging Czech Republic	60%										
	24%										
Egypt											
Hungary	-69%										
Morocco	201	2.10/	2001								
Poland	-8%	91%	60%					30%		070/	99
Russia	-47%							38%		-67%	
South Africa	4%		-29%		-20%	-9%	27%	57%			
Turkey	16%			21%	55%	72%		-53%			
IERICAS											
Developed								_			
Canada	-44%	-14%	-17%	-18%	-38%	-20%		-20%	-99%	-1%	20
United States	-16%	15%	-51%	-8%	-10%	4%	-41%	19%	-41%	30%	1-
merging											
Brazil	5%	-99%	-32%	-11%	-73%	-46%		15%		89%	1:
	25%					88%		4%			18
Chile											
Colombia	-11%				_			-73%			
			-22%	-33%		61%		-73% -59%			

Source: JPMorgan

Information Coefficient Matrix – Model

	ALL	Energy	Materials	Indust	Disc	Staples	Health	Ë	E	Telcos	Utilities
ALL WORLD	4%	18%	4%	2%	7%	17%	-10%	0%	-7%	-11%	
GIONS Asia Ex Jp	13%	31%	9%	43%	10%	7%	14%	2%	2%	-38%	
Japan	14%	69%	38%	13%	16%	16%	-2%	6%	14%	-1%	
Australia	-8%	5%	-16%	10%	-60%	-58%	-79%	-5%	1470	- 1 70	
Europe	-6%	0%	8%	-19%	15%	18%	36%	-20%	-8%	-25%	
US	-1%	6%			9%	5%		39%	-11%		
			-32%	-24%			-26%			24%	
GEM	16%	30%	19%	33%	16%	17%	7%	4%	3%	-18%	
EM Ex Asia	23%	27%	27%	1%	16%	42%	-2%	14%		51%	
GDM	-3%	11%	-6%	-9%	3%	15%	-12%	-2%	-14%	1%	
IA											
Developed										_	
Australia	-8%	5%	-16%	10%	-60%	-58%	-79%	-5%			
New Zealand	-47%									_	
Hong Kong	-2%			22%	-9%			7%			
Japan	14%	69%	38%	13%	16%	16%	-2%	6%	14%	-1%	
Singapore	47%			67%	18%	91%		8%			
Emerging	12%	23%	3%	26%	-7%	15%	1%	9%	7%	-7%	
China	18%	51%	-5%	7%	18%	-58%	30%	0%	-8%	28%	
India	14%	8%	-20%	-8%	-19%	57%	65%	11%	-71%	-96%	
Indonesia	32%	-57%			49%	64%		60%		48%	
Korea	12%	76%	23%	62%	-12%	-2%		-54%	40%	33%	
Malaysia	32%	97%	2070	6%	-37%	51%		55%	4070	94%	
Philippines	5%	31 /0		-39%	-31 /0	3170		66%		3470	
			7.40/		470/				00/	000/	
Taiw an	11%	700/	74%	78%	17%			-38%	-9%	-98%	
Thailand IEA	-34%	72%	-73%		65%			62%			
Developed											
Austria	-13%							5%			
Belgium	6%					46%		-81%			
Denmark	-51%			-90%		.070	12%	0.70			
Finland	-19%			73%			1270				
France	-26%		37%	-4%	-14%	51%		-73%	24%	2%	
Germany	-32%		7%	-83%	12%	-8%	-87%	71%	-84%	270	
•			1 /0	-03 /6		-076	-07 /0		-04 /0		
Greece	84%				61%			85%			
Ireland	-28%										
Israel	20%			222/				99%			
Italy	-30%	-63%		38%	-98%			9%			
Netherlands	2%			-62%		-64%		-33%			
Norw ay	-7%	-39%									
Portugal	-37%										
Spain	-30%			-63%				15%			
Sw eden	-36%			15%	-51%			-76%		-99%	
Sw itzerland	27%		74%	34%		-17%	98%	-18%	_		
United Kingdom	12%	23%	-9%	-8%	32%	44%	75%	14%		1%	
Emerging										.,,	
Czech Republic	-95%										
Egypt	32%										
Hungary	5%										
Morocco	376										
	C0/	C70/	20/					FF0/			
Poland	-6%	-67%	3%					-55%	_	770/	
Russia	38%	2%				100	222	63%		77%	
South Africa	33%		-12%		25%	18%	33%	54%			
Turkey	-4%			-22%	-100%	45%		-25%			
MERICAS											
Developed											
Canada	-20%	24%	-11%	-3%	54%	4%		8%	-100%	-77%	
United States	-1%	6%	-32%	-24%	9%	5%	-26%	39%	-11%	24%	
Emerging											
Brazil	35%	39%	49%	78%	8%	32%		-2%		100%	
Chile	71%					73%		43%			
Colombia	-3%		4%					-82%		_	
Mexico	13%		-38%	18%		36%		-15%			

Source: JPMorgan



Factor Definitions

VALUATION FACTORS	
Historical Book/Market Ratio	This factor ranks stocks based on month end market cap and most recent published 12 month trailing Historical Book Value. Source: MSCI
Historical P/Cash Earnings Ratio	Stocks are ranked by their P/Cash Earnings Ratio. The difference between earnings and cash earnings is that depreciation on fixed assets is added to earnings to arrive at cash earnings. Cash earnings also include amortization when it is not separately reported on the accounts. Source: MSCI
Cash Flow Yield	Forecast Cash Flow for both FY1 and FY2 is combined and then stocks are ranked such that those stocks with the highest Cash Flow yield are allocated to quintile 1. Source: Thomson
Historical Earnings Yield	Stocks are ranked by their P/Historical Earnings Ratio. Those stocks with the lowest ratio are allocated to quintile 1 and those with the highest to quintile 5. Historical earnings are updated quarterly, semi annually or annually depending on the country. Source: MSCI
1 year forward PE	A pro-rata of consensus analyst FY1 and FY2 forecasts is used to create a 12 month forward earnings estimate number. Stocks are ranked such that those with the lowest ratio are allocated to quintile 1 and those with the highest to quintile 5. Source: Thomson
1 year forward PE Relative To History	Stocks are ranked by their current forecast P/E ratio relative to their historical 3 year average P/E1 year forward forecast PE Relative To History. Those stocks that are 'cheapest' relative to their history are allocated to quintile 1 and those that are most expensive to quintile 5. Source: Thomson
1 year forward PE Relative To Sector	Stocks are ranked based on their own forecast P/E relative to the P/E of their sector. This alleviates the inherent sector bias from the factor with those stocks that are cheapest relative to their sector being allocated to quintile 1 and those which are most expensive to quintile 5. Source: Thomson
Historical P/Sales Ratio	Stocks are ranked by their P/Historical Sales Ratio such that those stocks generating the largest amount of sales per share are allocated to quintile 1. Source: MSCI
Historical Dividend Yield	Stocks are ranked by their current 12mth trailing divided yield such that the biggest dividend payers are allocated to quintile 1 and the smallest dividend payers to quintile 5. Source: MSCI
SENTIMENT FACTORS	
Recommendation	The consensus recommendations for all stocks are ranked from strong buy to strong sell. Those stocks with the best recommendations are allocated to quintile 1 and those with the worst recommendation to quintile 5. Previous work by JPMQuant suggests that this factor is more potent in developing markets and tends to be a poor performer in developed markets such as Australia the US and Japan. Source: Thomson.
1 Mth Change in Recom	Stocks are ranked by their change in consensus recommendation over the last month. Those with the biggest improvement are allocated to quintile 1 (regardless of whether they have moved from Strong Sell to Sell or Buy to Strong Buy etc) and those with the biggest decline are allocated to quintile 5. Change in recommendation appears to be more useful than absolute level in many of the developed markets analysed but suffers from significantly larger turnover. Source: Thomson
3 Mth Change in Recom	Stocks are ranked by their change in consensus recommendation over the last 3 months. Those with the biggest improvement are allocated to quintile 1 (regardless of whether they have moved from Strong Sell to Sell or Buy to Strong Buy etc) and those with the biggest decline are allocated to quintile 5. Change in recommendation appears to be more useful than absolute level in many of the developed markets analysed but suffers from significantly larger turnover. Source: Thomson



PRICE FACTORS	
12 Mth Price Momentum	The 12 Mth Price Momentum factor is calculated by ranking stocks by their total return over the previous 12 months. Momentum is a powerful factor observable in many markets. Source: MSCI
Volatility Adjusted Price Momentum	12 month price momentum divided by the volatility of monthly returns over the prior 12 months. This factor looks to reward stocks delivering consistent momentum. Source: MSCI
1 Mth Price Momentum	The 1 Mth Price Momentum factor is calculated by ranking stocks by their total return over the previou month. It is often employed 'in reverse' on account of the reversion that is observable in many markets and sectors. (Last months winners become this months losers and vice-versa.) Source: MSCI
3 Mth Price Momentum	The 3 Mth Price Momentum factor is calculated by ranking stocks by their total return over the previou 3 months. Momentum is a powerful factor observable in many markets. Source: MSCI
6 Mth Price Momentum	The 6 Mth Price Momentum factor is calculated by ranking stocks by their total return over the previou 6 months. Momentum is a powerful factor observable in many markets. Source: MSCI
Percent Off 52 Week High	This factor ranks stocks by their Percent Off 52 Week High descending such that those stocks at or close to their highs are allocated to quintile 1 and those stocks furthest from their highs are allocated to quintile 5. This factor has a strong correlation with momentum. Source: ExShare
6 Mth Price Acceleration	To calculate the 6 Mth Price Acceleration we perform a regression on a year of daily prices to calculate the gradient of the trend (adjusted for volatility). We do the same thing "as of" 6 months ago and look at the change in the gradient to provide us with a measure of price acceleration. Stocks are ranked such that those stocks that have accelerated the most are awarded the highest scores. Source: ExShare
3 Mth Price Acceleration	To calculate the 3 Mth Price Acceleration we perform a regression on a year of daily prices to calculate the gradient of the trend (adjusted for volatility). We do the same thing "as of" 3 months ago and look at the change in the gradient to provide us with a measure of price acceleration. Stocks are ranked such that those stocks that have accelerated the most are awarded the highest scores. Source: ExShare
10 Day Relative Strength	A popular traders tool the Relative Strength Indicator is used to highlight stocks as overbought or oversold. Generally an RSI of 80 or higher indicates and overbought stock and an RSI of sub 20 indicates an oversold stock. We calculate the RSI over both 2 weeks (10 trading days) and also over one month. Source: ExShare
30 Day Relative Strength	As above but based on a 30 day window
60 Day Volatility	We rank stocks according to their 60 days Volatility. The most volatile stocks are added to the long portfolio. Source: Thomson
EARNINGS FACTORS	
Risk-Adjusted Earnings Momentum	To adjust for any risk associated with a stock's earnings revisions the earnings revision number is normalized by the coefficient of variation. This serves to penalise stocks with high earnings risk and reward stocks with high earnings certainty. This is arguably a cleaner measurement of earnings revisions. Source: Thomson
Forecast Earnings Growth	Using consensus forecasts for FY1 and FY2 we calculate the forecast growth and we then use this to rank our universe. Analysts are notoriously over optimistic with growth forecasts and this is reflected in the poor performance of this factor in most test universes. Source: Thomson
Earnings Momentum (1Mth Change)	This factor ranks stocks by their 1 month forward earnings momentum. For each stock we calculate the change in FY1 earnings over the last month and the change in FY2 earnings over the last month. We calculate the one month revision number by taking the average of the change in FY1 and FY2. Source Thomson



Earnings Momentum (3Mth Change)	This factor ranks stocks by their 3 month forward earnings momentum. For each stock we calculate the change in FY1 earnings over the last 3 months and the change in FY2 earnings over the last 3 months We calculate the 3 month revision number by taking the average of the change in FY1 and FY2. Source: Thomson
Earnings Momentum	This factor ranks stocks by their composite forward earnings momentum (1Mth + 3 Mth). For each stock we calculate the change in FY1 earnings over the last month and the last 3 months and the change in FY2 earnings over the last month and the last 3 months. We calculate both a 3 month revision number and a one month revision number by taking the average of the change in FY1 and FY2 and then finally we calculate a composite value as the average of the 1 month and 3 month values. Source: Thomson
5 yrs Historical Earnings Growth	Companies are ranked by their average annualised EPS growth over the past 5 years. Those companies with the highest average growth are allocated to quintile 1 and those with the lowest average growth are allocated to quintile 5. Source: Thomson
Net Revisions to FY1	A broad brush approach to earnings revisions that is arguably more suited to markets with questionable data quality. We calculate a FY1 Net Revision by looking at all analyst revisions in the last 4 weeks and calculating the number of upward revisions less the number of downward revisions expressed as a percentage of the total number of revisions made. Source: Thomson
Net Revisions to FY2	A broad brush approach to earnings revisions that is arguably more suited to markets with questionable data quality. We calculate a FY2 Net Revision by looking at all analyst revisions in the last 4 weeks and calculating the number of upward revisions less the number of downward revisions expressed as a percentage of the total number of revisions made. Source: Thomson
QUALITY FACTORS	
Earnings Risk (also known as EPS Co-Eff of Variation)	We rank stocks by the average of FY1 and FY2 Coefficient of Variation. We use coefficient of variation as a proxy for earnings risk with those stocks with the largest spread in earnings being considered most 'risky'. We find that the stocks with the smaller coefficient of variation (and hence the most earnings certainty) tend to outperform their riskier peers. Source: Thomson
Coverage	We rank stocks by Number of Consensus Estimates (FY1) which we use to indicate the number of covering analysts. Quintile 1 is formed from the most readily covered stocks and Quintile 5 is formed from the least covered stocks. This factor is often regarded as a proxy for information uncertainty rather than an Alpha or Risk Factor and previous research by JPMQuant in the Australian market supports this thesis. Source: Thomson
Historical Return On Equity	Stocks are ranked on their historical return on equity (ROE) with those stocks with the largest ROE being allocated to quintile 1 and those with the poorest ROE being allocated to quintile 5. To eliminate any forward looking bias, the ROE figure is only updated on the date that the numbers became available to the market. Source: MSCI
ROE Growth	To calculate the change In ROE we look compare a stocks ROE with it's ROE 12 months prior at each point in time. Those stocks that have seen the biggest increase in ROE are allocated to quintile 1 and those that have seen the biggest decline in ROE are allocated to quintile 5. Source: MSCI
Return On Assets	Stocks are ranked on their return on Assets (ROA) with those stocks with the largest ROA being allocated to quintile 1 and those with the poorest ROA being allocated to quintile 5. Source: MSCI
RISK FACTORS	
MSCI BETA	Beta for the stock relative to its local benchmark index.





Earnings & Sentiment	Combines three flavours of momentum measure. Risk adjusted 3 mth EPS momentum, FY2 Net revisions and Recommendation one month change are all normalised and combined equally to form the composite.
Valuation	PE + PE relative to sector + forecast Growth
Price	Equally combines a normalised 12 month price momentum factor (75%) with a 1 month price reversion factor (25%).
Quality	Combines ROE and Earnings Risk (inverted such that stocks with tightest forecasts are rewarded with a higher score)
Composite Q-Score Model	A multi factor combination of Valuation, Earnings& Sentiment, Quality and Price composite factors.

The JPM Q-Score - A Composite Approach

The JPM Q-Score model is designed to act as a 'catch all' generic quant model suitable for use in many markets is. The factors used in our Q-Score have been selected as they are ten of the most popular quant factors 'in general use'. That said they are popular for a reason having been widely researched by many practitioners (ourselves included) and historically have been found to be some of the strongest and most consistent 'alpha generators' in the quant analysts' stock selection armoury.

Figure 2: The Quant Return Drivers - Ranking process

Valuations: P/E Vs Market (12mth/wdEPS)	Compares stock P/E to country P/E. The cheapest stock (lowest P/E allocated a score of 1007. The most expensive stock is allocated a score of 0% (Loss makers are scored below
	high P/E stocks)
Valuations: P/E Vs	Compares stock P/E to country sector P/E. The cheapest stock (lowest P/E allocated a
Sector (12mth fwd EPS)	score of 100%. The most expensive stock is allocated a score of 0% (Loss makers are
	scored below high P/E stocks)
Valuations: EPSGrowth	Ranks stocks based on their forecast growth from EPS mean FY1 to EPS mean FY2. The
(forecast)	stock with the highest forecast growth receives 100% whilst the stock with the lowest
	forecast growth is allocated a score of 0%
Momentum: 12Month	Ranks stocks based on their total return over the last year. The stock with the highest total
PriceMomentum	return receives 100% whilst the stock with the lowest total return is allocated a score of 0%
Momentum: 1Month	Ranks stocks based on their total return over the last month. The stock with the LOWEST
Price Reversion	total return receives 100% whilst the stock with the HIGHEST total return is allocated a score
	of 0%.
Quality: ReturnOnEquity	Ranks stocks based on their Earnings Risk which is proxied by examining the spread in
(forecast)	analyst EPS forecasts (akaithe co-efficient of variation), the stocks with the LOWEST
	spread receives a score of 100% whilst the stock with the highest spread and hence the most
	earnings risk is allocatoed score of 0%
Quality: Earnings Risk	Ranks stocks based on their Return on Equity. The stock with the highest return on equity
(Variation in Consensus)	receives a score of 100% whilst the stock with the lowest return on equity is allocated a score
	of 0%.
Earnings&Sentiment:	Ranks stocks based on their Earnings Momentum. Earnings momentum is calclated as the
Earnings Momentum 3mth	average of the change in FY1 and FY2 mean EPS measured of 3 months and adjusted for
	risk by dividing by the spread in analyst forecasts. The stock with the highest risk adjusted
	earnings momentum receives a score of 100% whilst the stock with the lowest risk adjusted
	earnings momentum is allocated a score of 0%.
Earnings&Sentiment:	Recommendations are mapped onto a scale from 1(best) to 5(worst). The change in the
Change in Recomms	mean reccomendation over the last 4 weeks is then used to rank the stocks. The stock with
	the biggest recommendation upgrade is allocated a score of 100% whilst the most
	downgraded stock is allocated a score of 0%
Earnings&Sentiment:	Ranks stocks based on the net analyst revisions to FY2EPS over the last 4 weeks. Net
Net Revisions Fy2EPS	revisions is calculated as (upgrades-downgrades)/(Upgrdaes+Downgrades). The stock with
	the highest net revision ratio receives 100% whilst the stock with the lowest net revision ratio
	is allocated a score of 01/4

Source: J.P. Morgan Quant

What are we capturing with these factors?

These ten factors can broadly be divided into four key categories (or factor families) to which we believe a portion of the stocks subsequent return can be attributed.

There is extensive literature available on each of these categories and we have ourselves explored many of these effects over the last ten or so years. Clearly this is not the correct forum for going into great detail and instead a (very!) brief summary follows:

VALUATION

Many quant researchers have explored the 'Value Anomaly' and it is widely recognised that low PE stocks outperform high PE stocks over the long term. Similar



analysis has shown consistent results using P/Sales, P/Dividend and P/Book ratios. Our studies have also shown that Earnings Growth can complement straight Value factors in many markets.

MOMENTUM

Momentum theory for stock prices suggests that companies that do well in one (long term) investment period will continue to do well in the subsequent investment horizon. Over short time frames (<1month) studies have also highlighted the tendency of stocks to overreact leading to short term reversion. We have widely observed these phenomena in our own testing.

EARNINGS & SENTIMENT

We believe that the market is not efficient at incorporating new information and a window of opportunity exists to exploit recent analyst revisions in earnings and recommendations. Similarly analyst behavioural biases lead to subsequent changes suggesting an exploitable serial correlation in earnings upgrades/downgrades.

QUALITY

Whilst arguably less readily observable than some other factors (especially in more emerging markets), it is generally accepted that it is desirable to tilt portfolios towards highly profitable and good quality businesses. Similarly over the long term the market also appears to reward 'earnings certainty' and penalise those stocks that carry a large degree of earnings risk.

Generating the Q-Score

Given we have now quantified each stocks exposure to what we believe are four of the key drivers of return the next step is to combine theses scores into an over metric that can be considered indicative of the stocks expected return. We call this the Q-Score and we use a standard quantitative approach to combining the individual factor scores. This involves normalizing our data and establishing the factor premiums (or weights) that we are going to allocate to each of the drivers. We have a number of techniques that we use to help us establish the factor premiums though we would urge 'budding quant analysts' not to fall into the trap of thinking that this is by any means an exact science!

In the case of our Q-Score we are not trying to build a quant process per se and are instead looking to provide the market with a general indication of likely outperformance on a per stock basis. For that reason we have kept things relatively simple. We have used the same factor premiums across all markets and have not tailored the Q-Score to any particular investment style. Rather we have looked to provide a 'Generic Alpha score' that can be used across a global spectrum.

In the table below we show the factor premiums that have been applied to the ten input factors to generate the overall Q-Score. Note that due to limits in data availability we have applied some additional rules to our process. In particular no Q-Score is allocated to a company that does not have an exposure to our key factor families of Value and Earnings. A stock may be missing either a Quality exposure or a Momentum exposure (but not missing both!) and still be allocated a Q-Score. When considering the individual drivers a minimum of 50% of the drivers must be available for a family score to be calculated with some factors being mandatory members of the family. The mandatory items are shown in the table as **bold**.

Figure 3: Converting the Quant Return Drivers into the Q-Score

VALUATION [30%]	EARNINGS & SENTIMENT [30%]
COMPONENT FACTORS P/E Vs Market (12mth fwd EPS) [34%] P/E Vs Country Sector (12mth fwd EPS) [33%] EPS Growth (FY1 mean to FY2 mean) [33%]	COMPONENT FACTORS Earnings Momentum 3mth (Risk Adj.) [34%] 1Mth change in consensus recomms[33%] Net Revisions to mean FY2 EPS [33%]
MOMENTUM [20%] COMPONENT FACTORS 12Mth Price Momentum [75%] 1Mth Price Reversion [25%]	QUALITY [20%] COMPONENT FACTORS ROE (average of FY1 &FY2 forecast) [50%] Earnings Risk (Variation in forecast EPS) [50%]

Source: J.P.Morgan Quant

The J.P. Morgan Q-Score composite quant factor is generally the starting point we use in most of our research and the benchmark that we look to 'beat' through the introduction of new ideas.

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