Global Research



Global Style Watch Quality and Value rewarded



Source: UBS Global Quantitative Research

Low 1m Price Momentum best; Low Beta worst in developed markets

Post UK referendum based uncertainty, Low Beta has switched to be our worst performing style in the developed market, falling short of the benchmark by 2.3% in July 2016; Low 1m Price Momentum at +2.5% was the best. Value styles generally discriminated with four of value-high styles in the top 12 and four value-low in the bottom 12. Momentum also discriminated strongly though it reversed to perform to contrary to "expectation". See links to DM, EM, AsiaPac or Industry returns and UBS Market Statistics files.

High Volatility best; Low Beta worst in emerging markets

In the emerging markets High Volatility at 1.8% outperformance was our best performing style with Low Beta worst at 1.5% underperformance. Value styles again discriminated strongly in line with the developed world with value-high outperforming. The other style types were less clear cut but momentum tended to behave against expectation with High 12m Price Momentum the second worst performing style.

UBS Crowding barometer shows crowds have returned to US healthcare

There has been a significant pick-up in both buy-side weighting and cumulative PCI for US healthcare in the past few months. Sell-side sentiment also turned up in July. For more details, see Q-Series® note "What crowded positions are bubbling up in equity markets?".

European model still prefers quality, US model prefers value and momentum

The largest suggested weight in the European style allocation remains ROIC, but its position is smaller than last month. In the US, the model suggests a more risk taking allocation, preferring price momentum and value to quality.

Equities

Global Quantitative

Simon Iley

Analyst simon.iley@ubs.com +44-20-7568 6327

David Jessop

Analyst david.jessop@ubs.com +44-20-7567 9882

> Claire Jones, CFA Analyst

claire-c.jones@ubs.com +44-20-7568 1873

Shanle Wu, PhD

Analyst shanle.wu@ubs.com +852-2971 7513

www.ubs.com/investmentresearch

Contents

Overview	3
One-month returns	4
Emerging Markets style indices	6
Asia ex Japan style indices	7
Sector-based styles	8
Sector-based style indices - one-month returns	9
Sector-neutral, equal weighted styles	10
Style Timing	12
Style timing names	13
Crowding Barometer	14
Style Performance	15
Cross-sectional Dispersion	27
Average Volatility	28
Average Pair-wise Correlation	29
Style Definitions	30
Style Basket Allocation	30
Style Factor Value definitions	31
Sector-neutral, equal weighted styles (page 10)	33
US style returns (page 22)	34
Style data	34
Market Cap Size bands	34
UBS Equity Quantitative Research	35
Team	35
Research Publications	36

Overview

Figure 1: One-month relative style performance by developed region¹

	Туре	WORLD	GB	EUXUK	EUR	NAM	LATAM	JP	PBXJA
High Book / Price	Value - High	0.15	-0.78	0.22	-0.15	-0.48	3.39	2.18	1.30
High Dividend Yield	Value - High	-0.55	-0.56	-0.89	-0.86	-1.18	-0.54	2.55	1.45
High Earnings Yield	Value - High	1.42	1.61	0.94	1.19	1.23	0.31	3.42	1.52
High EBIT / EV	Value - High	1.42	4.63	0.96	1.90	1.31	0.35	4.18	1.1
High Free Cashflow Yield	Value - High	1.28	0.41	1.69	1.30	1.47	-3.39	0.96	
High Sales Yield	Value - High	0.77	-1.44	0.74	0.09	0.53	-2.05	2.57	2.22
Low PEG	Value - High	1.14	-1.16	0.79	0.27	1.74	-0.41	0.28	0.90
Value Composite	Value - High	1.05	0.58	-0.03	0.18	0.90	1.98	2.95	2.21
GrowthComposite	Value - Low	-1.30	-0.70	-0.99	-0.91	-1.20	-1.23	-2.23	-1.26
High PEG	Value - Low	-0.70	1.18	-1.46	-0.65	-1.35	3.13	1.90	0.59
Low Book / Price	Value - Low	-0.16	0.65	-0.55	-0.21	0.59	-3.95	-2.83	-0.7
Low Dividend Yield	Value - Low	0.91	1.36	1.95	1.70	1.41	0.52	-2.15	-0.08
Low Earnings Yield	Value - Low	-1.30	0.71	-0.69	-0.28	-1.52	0.14	-2.62	-0.61
Low EBIT / EV	Value - Low	-1.69	-0.96	-1.97	-1.64	-1.64	1.36	-2.29	-0.48
Low Free Cashflow Yield	Value - Low	-1.93	-1.2 ⁴	-1.63	-1.55	-1.86	2.62	-3.45	-1.35
Low Sales Yield	Value - Low	-0.90	-0.68	-1.35	-1.12	-0.21	-0.46	-3.52	-0.93
High Dividend Growth	Growth- High	0.33	1.98	1.44	1.66	0.34	-1.60	-2.45	0.86
High Earnings Growth	Growth- High	0.36	-0.79	0.67	-0.01	0.83	-0.59	-1.56	0.92
High Historical EPS Growth	Growth- High	1.57	4.63	1.47	2.33	1.64	-1.16	1.79	0.53
Low Dividend Growth	Growth- Low	0.66	0.12	-1.14	-0.81	1.12	-1.88	1.95	1.06
Low Earnings Growth	Growth- Low	-0.50	2.11	-1.25	-0.23	-1.09	2.63	2.11	0.56
Low Historical EPS Growth	Growth- Low	-0.92	-0.77	-0.94	-0.94	-1.01	1.29	-0.55	0.44
High 12m Price Momentum	Momentum - High	-1.01	-1.44	0.04	-0.58	-0.73	-4.07	-4.38	0.43
High 1m Price Momentum	Momentum - High	-2.01	-1.20	-1.83	-1.73	-2.45	3.78	-3.09	0.60
High 6m Price Momentum	Momentum - High	-1.12	-1.19	1.54	0.04	-1.47	2.16	-3.65	0.9
High Earnings Momentum	Momentum - High	-0.46	-1.38	-0.24	-0.78	0.03	0.45	-3.55	0.78
Low 12m Price Momentum	Momentum - Low	1.52	-0.19	0.20	0.04	1.74	1.90	4.38	0.79
Low 1m Price Momentum	Momentum - Low	2.47	2.26		2.66	2.62	-3.37	3.52	1.43
Low 6m Price Momentum	Momentum - Low		3.95	0.23	1.26	2.04	-2.81	5.00	0.45
Low Earnings Momentum	Momentum - Low	0.94	1.37	0.54	0.85	0.56	2.87	4.10	0.4
High Dividend Cover	Quality - High	0.63	3.42	1.78	2.28	0.36	-2.54	-0.28	0.12
High ROE	Quality - High	0.63	0.53	0.54	0.43	1.08	-1.15	0.12	0.00
High ROIC	Quality - High	0.75	1.44	1.06	1.15	0.95	-0.96	0.63	0.7
Low Capex / Depreciation	Quality - High	0.23	1.36	-0.10	0.36	0.25	0.54	-0.81	1.25
Low Debt To EV	Quality - High	1.82	2.64	1.4	1.81	2.06	-3.37	3.02	0.3
High Capex / Depreciation	Quality - Low	0.09	-0.67	0.64	0.29	0.05	-0.35	1.05	-0.53
High Debt To EV	Quality - Low	-1.31	-1.44	-1.89	-1.83	-1.38	2.15	-1.42	0.03
Low Dividend Cover	Quality - Low	-1.89	-0.70	-2.00	-1.62	-3.14	-0.71	0.23	1.02
Low ROE	Quality - Low	-0.88	-0.59	-0.76	-0.76	-1.53	3.36	0.05	1.34
Low ROIC	Quality - Low	-0.53	-1.26	-0.51	-0.85	-1.14	2.03	1.98	0.78
Large Cap	Size	-0.32	-0.07	-0.52	-0.38	-0.29	-0.35	0.14	0.78
Small Cap	Size	1.79	3.42	2.59		2.39	2.09	2.61	-0.32
High Beta	Risk - High	2.26	3.04	2.57	2.72	1.19	6.14	4.39	1.83
High Volatility	Risk - High	2.36	2.41	2.86	2.72	2.47	6.24	2.23	0.32
Low Beta	Risk - Low	-2.29	-1.25	-2.11	-1.87	-2.08	-6.80	-3.96	-1.1
Low Volatility	Risk - Low	-1.94	-0.97	-1.54	-1.42	-2.31	-5.61	-1.09	-0.14
									,,,
Spread (Best - Worst)		4.76	6.07	4.97	4.64	5.76	13.04	9.38	3.57
.,		•							
	Key:	Top 5	Bottom 5						

Source: UBS Global Quantitative Research. Data to 29th July 2016 – Files: <u>UBS DM Style Returns</u> and <u>DM Style Indices</u>

¹ Note: all returns are relative to the relevant Dow Jones Global Indices regional index

One-month returns

In the developed markets, Low 1m Price Momentum was our best performing style, beating the benchmark by 2.5% in July 2016 with Low Beta worst at 2.3% underperformance (having been best in June). Quality was less discriminatory in July 2016 but switched with two quality-low styles in the bottom 12. Value discriminated most strongly in July 2016 also switching from the previous month with four value-high styles in the top 12; four value-low in the bottom 12. Three momentum-low styles featured in the top 12, mostly performing contra-intuition.

In the emerging markets, High Volatility was the best style at 1.8% outperformance with Low Beta worst at 1.5% under the market. As in the developed markets, value strongly discriminated with four value-high styles in the top 12 and five value-low at the other end. Momentum was discriminatory though these styles with the exception of 6m Price Momentum generally behaved against expectation. Small caps recorded the second best performance at 1.75% outperforming across all the developed regions.

Reversing the previous month, over three-quarters of our value-high styles' combinations within developed markets outperformed. All 8 of these styles outperformed in Japan; four in each of UK and Latin America where they were least successful. High Earnings Yield and High EBIT / EV were most successful, outperforming in every region along with two other styles that outperformed in 7 regions. High Dividend Yield outperformed in just two markets. A quarter of the combinations of value-low style with developed market styles outperformed. All bar one of these styles underperformed in Europe ex UK and in three other developed regions. Growth Composite and Low Sales Yield underperformed in every region.

Across the emerging markets' regions, nearly three-quarters of these combinations outperformed while value-low outperformed in under two-fifths of the combinations. This performance was most marked in emerging Asia where all the value-high styles outperformed while in contrast just two achieved this in emerging Europe. High Dividend Yield outperformed in every emerging market contrasting with the developed markets; High Free Cash-flow Yield was least successful.

In the emerging markets, our quality styles were less discriminatory in July. Low Capex / Depreciation and Low RoE outperformed in every region; Low Dividend Cover in none. The quality-high styles were relatively successful in emerging Asia and Europe; quality-low in emerging Latin America. Against expectation High 12m and Low 1m Price Momentum underperformed in every emerging region; 6m Price Momentum was better behaved. Small Caps outperformed in every region.

In the developed markets the momentum styles reversed to perform strongly against expectation. Low Earnings Momentum outperformed in every region; Low 6m and Low 12m in seven regions. 1m Price Momentum was relatively well behaved. Quality was discriminatory switching so that high outperformed low largely driven by Europe and North America; Latin America reversed this trend. Every risk-high style outperformed and risk-low style underperformed in every region. Small caps underperformed in Pacific Basin ex Japan only.

The cross-sectional dispersion of returns on page 27 shows decreases in every region bar Pacific Basin ex Japan (+277b.p.) and emerging Asia. Post the referendum, UK fell back by 470b.p. with Europe ex UK lowest at 7.3%. This was also reflected in the average pair-wise correlation (page 29) which spiked in June.

Low 1m Price Momentum was the top style in the developed markets; High Volatility in emerging.

Low Beta was the worst in the developed and emerging markets in June 2016.

77% of the combinations of value-high style and developed markets regions outperformed in July 2016 (37% previous month).

For our emerging markets styles, 75% of these combinations outperformed in July 2016 (78% previously) and 37% of the valuelow combinations.

75% of the combinations of momentum-low styles and developed region outperformed in July 2016; 80% for quality-high.

Dispersion decreased in every region bar two. Pacific Basin ex Japan was highest at 12.4%.

Figure 2: Three-months' relative style performance by developed region

	Туре	WORLD	GB	EUXUK	EUR	NAM	LATAM	JP	PBXJA
High Book / Price	Value - High	-2.52	-4.54	-4.54	-4.57	-1.85	3.34	-2.65	0.64
High Dividend Yield	Value - High	-0.05	-0.12	-3.61	-2.46	0.60	-0.20	-0.69	0.80
High Earnings Yield	Value - High	-1.32	-3.47	-3.05	-3.17	-1.23	0.69	-0.74	2.2
High EBIT / EV	Value - High	1.67	-0.29	-0.56	-0.48	1.78	-1.06	1.36	3.8
High Free Cashflow Yield	Value - High	1.59	-0.24	3.32	2.18	1.70	-3.57	0.37	3.6
High Sales Yield	Value - High	-0.52	-1.70	-0.04	-0.53	-0.91	-6.29	0.74	1.5
Low PEG	Value - High	0.13	1.69	-0.45	0.44	0.46	-2.56	-1.72	0.6
Value Composite	Value - High	-1.16	-4.22	-4.04	-4.07	-0.36	1.54	-1.69	2.3
GrowthComposite	Value - Low	0.45	4.24	4.29	4.26	-0.69	-2.53	1.07	-1.2
High PEG	Value - Low	-1.44	-3.09	-0.58	-1.45	-1.71	1.81	0.58	-1.1
Low Book / Price	Value - Low	1.42	5.56	4.05	4.52	0.68	-3.01	0.20	1.3
Low Dividend Yield	Value - Low	0.71	0.51	3.96	2.85	-0.25	-1.38	1.51	0.5
Low Earnings Yield	Value - Low	0.32	1.44	4.50	3.54	-0.66	-3.31	0.76	-1.1
Low EBIT / EV	Value - Low	0.19	2.98	4.60	4.13	-1.19	-1.79	2.27	-1.9
Low Free Cashflow Yield	Value - Low	-0.03	2.22	2.83	2.60	-0.37	-1.48	-0.89	-2.5
Low Sales Yield	Value - Low	1.45	5.94	5.77	5.85	0.24	1.86	-1.29	2.3
High Dividend Growth	Growth- High	-0.21	-3.61	1.8	0.40	-0.54	2.52	-1.68	1.3
High Earnings Growth	Growth- High	0.38	1.80	0.16	0.59	0.48	-2.18	-1.83	1.3
High Historical EPS Growth	Growth- High	0.22	-4.57	-0.28	-1.17	-0.21	1.25	0.86	2.6
Low Dividend Growth	Growth- Low	-0.49	0.85	-1.25	-0.60	0.34	-8.31	1.20	-1.
Low Earnings Growth	Growth- Low	-1.20	-2.32	-1.31	-1.66	-1.28	1.45	0.81	-0.9
Low Historical EPS Growth	Growth- Low	-0.34	1.84	-0.46	0.29	0.48	-4.12	-1.20	-3.7
High 12m Price Momentum	Momentum - High	2.91	5.00	4.73	4.82	2.28	-0.62	1.69	1.8
High 1m Price Momentum	Momentum - High	-4.34	-13.73	-2.22	-4.60	-4.84	-3.63	-3.81	-0.2
High 6m Price Momentum	Momentum - High	3.03	4.58	5.41	4.88	2.14	6.06	1.75	2.3
High Earnings Momentum	Momentum - High	1.50	2.41	2.63	2.41	1.21	3.88	0.14	2.3
				-4.09	-4.22				
Low 12m Price Momentum	Momentum - Low	-2.65 4.45	-4.46 9.37		5.93	-1.71 4.34	-7.10 5.87	-0.26	-1.7
Low 1m Price Momentum	Momentum - Low			3.77				3.58	1.5
Low 6m Price Momentum	Momentum - Low	-2.17	-5.93	-3.61	-3.87	-1.60	-8.20	0.13	-0.9
Low Earnings Momentum	Momentum - Low	-2.10	-4.81	-2.34	-3.04	-2.01	-3.54	0.73	-2.3
High Dividend Cover	Quality - High	-1.30	-1.41	1.27	0.59	-2.32	-5.83	-0.11	-0.6
High ROE	Quality - High	1.34	4.38	2.63	3.17	0.71	1.10	0.77	2.0
High ROIC	Quality - High	1.59	4.17	2.59	3.07	0.64	2.55	1.69	2.4
Low Capex / Depreciation	Quality - High	0.03	1.42	1.89	1.86	-0.17	-2.31	-0.40	-0.4
Low Debt To EV	Quality - High	2.73	4.34	2.90	3.33	1.86	2.76	3.80	3.9
High Capex / Depreciation	Quality - Low	-0.79	-2.60	-1.67	-2.02	-0.58	0.45	-0.05	-1.2
High Debt To EV	Quality - Low	-1.10	0.35	-0.52	-0.26	0.01	-4.64	-2.94	-3.1
Low Dividend Cover	Quality - Low	0.06	2.04	0.36	0.91	0.31	0.02	0.25	-0.6
Low ROE	Quality - Low	-1.99	-2.06	-3.79	-3.24	-1.20	-3.56	-1.64	-1.6
Low ROIC	Quality - Low	-1.62	-1.40	-2.00	-1.84	-0.66	-3.20	-0.94	-2.0
Large Cap	Size	-0.24	0.44	0.25	0.31	-0.27	-2.73	-0.33	0.9
Small Cap	Size	0.48	-4.53	1.94	-0.11	-0.60	5.75	1.67	-1.6
High Beta	Risk - High	-2.80	-3.27	-5.20	-4.62	-3.01	8.51	-0.39	-0.7
High Volatility	Risk - High	-0.88	1.04	-3.44	-1.79	-0.42	8.99	0.19	-2.5
Low Beta	Risk - Low	1.65	3.69	4.39	4.12	1.09	-9.32	1.36	1.
Low Volatility	Risk - Low	0.89	3.86	4.31	4.10	0.18	-8.62	-0.55	1.0
Spread (Best - Worst)		8.79	23.11	10.97	10.55	9.18	18.31	7.61	7.7

Source: UBS Global Quantitative Research. Data to 29th July 2016 – Files: <u>UBS DM Style Returns</u> and <u>DM Style Indices</u>

Emerging Markets style indices

Our emerging markets' style indices are based on the MSCI Emerging Markets universe. The basic process is similar to that for our global style indices, except that different market capitalisation thresholds are used for the size baskets. These charts show the total returns relative to the market.

Figure 3: Three month's relative style performance by emerging region²

	Туре	MEMGL	EMAS	EMEA	EMLA
High Book / Price	Value - High	0.26	0.23	-6.62	5.07
High Dividend Yield	Value - High	1.68	1.82	-1.47	1.48
High Earnings Yield	Value - High	0.27	0.74	-3.17	0.75
High EBIT / EV	Value - High		4.17	-5.16	1.27
High Free Cashflow Yield	Value - High	4.01	4.73	1.19	-3.70
High Sales Yield	Value - High	0.08	0.85	-1.86	-4.05
Low PEG	Value - High	1.00	1.43	1.64	0.03
Value Composite	Value - High	0.72	1.39	-4.87	1.80
GrowthComposite	Value - Low	0.16	-0.61	4.60	-0.67
High PEG	Value - Low	-1.32	-2.13	-3.04	0.43
Low Book / Price	Value - Low	0.73	0.39	5.63	-4.61
Low Dividend Yield	Value - Low	-1.10	-1.43	1.69	-0.35
Low Earnings Yield	Value - Low	-1.06	-1.48	3.03	-2.33
Low EBIT / EV	Value - Low	-0.28	-1.32	6.48	-2.26
Low Free Cashflow Yield	Value - Low	-2.58	-3.98	0.31	2.17
Low Sales Yield	Value - Low	2.81	2.43	6.78	-0.54
High Dividend Growth	Growth- High	1.42	0.99	1.66	3.69
High Earnings Growth	Growth- High	0.77	1.11	1.5	1.79
High Historical EPS Growth	Growth- High	1.41	0.98	4.31	1.21
Low Dividend Growth	Growth- Low	-2.73	-3.00	-3.05	-2.61
Low Earnings Growth	Growth- Low	-1.66	-2.16	-3.05	0.09
Low Historical EPS Growth	Growth- Low	-0.73	-0.39	-2.00	-2.14
High 12m Price Momentum	Momentum - High	1.05	0.71	4.36	-2.15
High 1m Price Momentum	Momentum - High	-1.46	0.22	-3.02	-3.13
High 6m Price Momentum	Momentum - High	2.47	0.78	6.47	
High Earnings Momentum	Momentum - High		3.04	1.29	3.92
Low 12m Price Momentum	Momentum - Low	-2.62	-1.33	-3.39	-7.95
Low 1m Price Momentum	Momentum - Low	1.35	-1.74	6.09	3.49
Low 6m Price Momentum	Momentum - Low	-1.93	0.22	-3.61	-9.96
Low Earnings Momentum	Momentum - Low	-2.06	-2.02	-3.06	-2.55
High Dividend Cover	Quality - High	-0.06	1.00	0.84	-6.83
High ROE	Quality - High	2.09	2.02	6.24	-0.51
High ROIC	Quality - High	3.59	3.39	4.22	3.48
Low Capex / Depreciation	Quality - High	2.82	2.60	6.61	-2.53
Low Debt To EV	Quality - High	3.40	2.43	6.96	3.65
High Capex / Depreciation	Quality - Low	-2.29	-2.41	-5.90	2.53
High Debt To EV	Quality - Low	-3.91	-3.72	-4.39	-4.51
Low Dividend Cover	Quality - Low	1.55	2.32	-3.19	-0.66
Low ROE	Quality - Low	-2.36	-3.22	-2.48	1.12
Low ROIC	Quality - Low	-3.29	-4.44	-2.41	2.45
Large Cap	Size	0.28	0.63	0.05	-1.79
Small Cap	Size	1.53	-0.43	0.42	19.48
High Beta	Risk - High	1.79	1.16	-1.69	8.45
High Volatility	Risk - High	-0.75	-4.71	4.71	8.87
Low Beta	Risk - Low	-0.28	0.20	3.75	-8.26
Low Volatility	Risk - Low	1.17		-5.98	-8.01
Spread (Best - Worst)		7.92	9.44	13.58	29.44
	Key:	Top 5	Bottom 5		

 $Source: UBS \ Global \ Quantitative \ Research. \ Data \ to \ 29th \ July \ 2016-Files: \ \underline{UBS \ EM \ Style \ Returns} \ and \ \underline{EM \ Style \ Indices}$

 $^{^{\}rm 2}$ Note: all returns are relative to the relevant MSCI regional index

Asia ex Japan style indices

Our Asia ex Japan style indices are based on the MSCI universe. The basic process is similar to that for our global style indices using the same factor values. However, for the size baskets, stocks are sorted within country with the top 80% of the market capitalisation being large-; the next 15% being mid-, and the remaining 5% small-caps. Figure 4 shows the one month total returns relative to the market.

Figure 4: One month relative style performance by Asia ex Japan country³

	Туре	Asia x JP	CN	НК	ID	IN	KR	MY	PH	SG	TH	TW
High Book / Price	Value - High	0.47	-0.61	4.01	4.01	1.36	0.90	-0.51	-0.28	0.01	-1.73	0.34
High Dividend Yield	Value - High	-0.61	-0.94	1.70	1.99	-3.70	0.42	-0.11	-2.19	-0.94	0.66	-0.23
High Earnings Yield	Value - High	0.83	0.21	3.87	2.39	1.72	1.20	0.26	0.69	-1.46	2.63	0.29
High EBIT / EV	Value - High	1.54	3.50	-1.86	5.30	-3.90	2.12	0.45	0.25	4.10	-2.51	0.74
High Free Cashflow Yield	Value - High	0.55	-0.74	-0.75	1.36	-3.70	2.42	0.04	-0.56	-0.22	-2.71	-0.09
High Sales Yield	Value - High	0.80	0.84	-1.22	4.34	1.97	0.07	0.38	1.96	1.02	-1.40	0.09
Low PEG	Value - High	1.49	1.46	-1.58	0.13	3.23	3.92	-0.16	4.60	1.29	0.24	0.53
Value Composite	Value - High	0.27	2.73	-2.10	3.21	-3.18	0.21	0.91	0.25	-1.63	-2.61	0.42
GrowthComposite	Value - Low	-0.99	-0.35	0.96	-3.75	1.74	-5.58	-0.07	-2.43	1.11	-0.45	1.88
High PEG	Value - Low	-0.76	-2.30	1.10	0.41	0.72	-0.60	-0.46	-3.86	-0.38	1.18	0.33
Low Book / Price	Value - Low	-1.19	-0.12	-2.15	-5.01	0.58	-6.90	0.40	-2.69	1.49	-2.51	0.25
Low Dividend Yield	Value - Low	-0.60	0.02	-2.38	0.10	2.87	-3.43	-0.59	0.75	2.04	-1.61	0.52
Low Earnings Yield	Value - Low	-1.04	-0.90	-1.82	-3.39	2.09	-4.21	-0.47	-0.28	0.48	-2.54	1.04
Low EBIT / EV	Value - Low	-1.16	0.14	-1.58	-3.68	-0.04	-4.48	-0.22	-2.43	-2.18	0.73	-0.82
Low Free Cashflow Yield	Value - Low	-0.63	-0.10	0.04	-0.72	1.17	-2.89	-0.88	-0.57	0.42	1.35	0.53
Low Sales Yield	Value - Low	-0.58	1.03	0.81	-6.90	1.81	-7.55	0.31	-2.70	0.74	-3.39	0.53
High Dividend Growth	Growth- High	0.38	1.42	-1.12	0.77	2.69	-2.49	0.17	1.82	2.24	-1.52	0.22
High Earnings Growth	Growth- High	0.00	1.28	-1.58	-1.61	2.84	-1.89	0.23	2.76	1.29	-0.81	-0.66
High Historical EPS Growth	Growth- High	-0.30	0.48	-1.48	-0.37	3.04	-3.77	0.95	-0.67	-0.31	-4.70	1.09
Low Dividend Growth	Growth- Low	-0.22	-1.11	2.29	1.43	0.04	0.44	-0.57	-0.71	-1.72	0.40	-0.28
Low Earnings Growth	Growth- Low	-0.88	-2.37	1.10	2.28	-2.00	-0.69	-0.49	-2.89	-0.38	0.41	0.54
Low Historical EPS Growth	Growth- Low	0.26	-0.17	1.83	3.35	1.27	0.58	-0.34	-1.55	1.32	-1.13	-0.97
High 12m Price Momentum	Momentum - High	-1.24	-0.07	-0.87	-2.08	-3.10	-4.69	0.10	2.83	-0.13	-4.15	-0.53
High 1m Price Momentum	Momentum - High	0.52	-0.31	0.59	0.02	0.66	0.53	0.28	1.23	1.41	-0.09	0.72
High 6m Price Momentum	Momentum - High	-0.52	0.19	-0.34	-1.17	-1.93	-1.91	0.37	-0.61	1.50	-3.28	-0.11
High Earnings Momentum	Momentum - High	0.42	0.19	2.04	-1.07	-1.38	1.66	0.84	-3.20	-0.48	-0.73	0.19
Low 12m Price Momentum	Momentum - Low	1.15	0.35	2.03	2.21	1.99	3.26	-0.26	-1.82	-1.51	1.61	1.85
Low 1m Price Momentum	Momentum - Low	-0.16	-0.47	0.99	1.62	-2.47	0.11	0.32	3.32	1.02	1.96	-0.25
Low 6m Price Momentum	Momentum - Low	0.10	-0.19	2.17	-1.67	1.02	-1.78	0.06	-1.82	-1.37	2.65	0.85
Low Earnings Momentum	Momentum - Low	0.05	0.18	-0.95	-0.42	-0.26	0.29	-1.22	1.87	0.06	3.30	-0.90
High Dividend Cover	Quality - High	1.02	0.86	-0.60	0.60	1.98	1.56	-0.11	0.10	-0.68	2.72	0.62
High ROE	Quality - High	-0.78	0.41	-1.27	-2.82	0.00	-6.06	1.14	-1.86	0.59	-0.79	0.53
High ROIC	Quality - High	-0.07	1.00	-2.04	-2.77	-3.02	-0.67	0.53	-1.06	2.25	-1.66	0.74
Low Capex / Depreciation	Quality - High	0.47	-0.95	1.63	3.76	-0.67	1.72	-0.44	-1.31	1.01	-1.71	0.33
Low Debt To EV	Quality - High	0.34	0.89	-0.21	-2.61	-3.27	0.98	-1.45	1.46	4.15	-5.88	1.09
High Capex / Depreciation	Quality - Low	-0.43	0.11	0.48	-0.35	1.11	-5.88	-1.23	1.54	-1.16	-0.58	0.75
High Debt To EV	Quality - Low	-0.45	-2.35	-0.76	-1.37	0.92	0.63	0.38	-2.40	-2.86	1.41	-0.11
Low Dividend Cover	Quality - Low	-0.60	0.41	-0.01	-2.25	-3.69	0.21	-0.30	-2.64	-0.41	-2.65	-0.91
Low ROE	Quality - Low	0.78	-1.03	3.87	3.42	0.83	2.26	-1.33	1.17	2.18	-0.99	-0.19
Low ROIC	Quality - Low	0.57	-1.56	3.36	3.11	0.65	2.23	-0.45	0.84	-0.79	-1.48	-0.38
Large Cap	Size	-0.05	0.11	-0.02	0.10	-0.78	0.25	-0.16	-0.38	-0.67	0.12	-0.08
Small Cap	Size	0.84	0.22	0.85	0.90	4.10	0.12	4.82	3.82	-1.67	0.62	0.40
High Beta	Risk - High	2.20	0.46	2.66	-0.81	3.52	3.93	0.70	0.17	-1.10	5.69	1.37
High Volatility	Risk - High	-0.10	-1.43	-0.80	2.71	3.89	-0.95	-0.73	-0.68	-0.63	0.19	0.93
Low Beta	Risk - Low	-1.42	0.50	-1.69	-2.79	-3.55	-6.81	0.77	-1.82	0.59	-3.83	-0.27
Low Volatility	Risk - Low	-0.27	0.70	-0.94	0.28	-3.44	0.86	0.31	-1.82	0.08	-3.07	-0.73
Spread (Best - Worst)		3.62	5.87	6.40	12.19	8.00	11.48	6.27	8.46	7.01	11.58	2.85

Source: UBS Global Quantitative Research. Data to 29th July 2016 – File: UBS AP Style Returns and AP Style Indices

 $^{^{\}rm 3}$ Note: all returns are relative to the relevant MSCI country / region index

Sector-based styles

Our sector-based styles are based on the same Dow Jones universe as our traditional styles but recognise that sector - using the Industrial Classification Benchmark (ICB) - is an important influence in identifying characteristics. Companies are sorted by sector within region or country and allocated to high, medium or low baskets relative to their sector and market producing style analyses at the top ICB level for a selection of markets.

Figure 5: One-month relative style performance by ICB - Global

	Туре	Oil & Gas	Basic Materials	Industrials	Cons Goods	Health Care	Cons Services	Telecom	Utilities	Financials	Technology	Lota
High Book / Price	Value - High	-0.49	6.23	2.02	7.05	-0.43	0.33	0.52	3.08	2.55	-0.73	190
High EBIT / EV	Value - High	2.07	-0.66	173	6.00	-0.08	0.71	-0.64	106	0.00	0.24	104
High Free Cashflow Yield	Value - High	-0.63	0.23	177	4.48	-0.28	0.57	-0.41	2.88	0.00	0.67	0.98
High Sales Yield	Value - High	0.61	5.87	2.50	6.91	-2.08	-0.02	-0.61	3.00	0.00	0.87	142
LowPEG	Value - High	0.46	2.71	171	3.79	0.13	0.71	-0.38	0.95	0.96	0.25	0.82
Value Composite	Value - High	0.58	1.98	2.32	6.74	-0.36	1.94	0.22	2.17	2.09	0.60	136
High Earnings Yield	Value - High	-0.45	1.96	2.02	7.31	0.23	0.79	-0.89	3.07	2.50	1.13	1.81
High Dividend Yield	Value - High	-0.41	-0.89	2.33	0.40	-0.63	132	1.82	2.33	0.98	-0.75	0.02
Growth Composite	Value - Low	-0.69	0.05	-1.84	-2.52	4.73	0.30	0.87	-1.65	-1.61	1.19	-0.81
High PEG	Value - Low	0.55	0.42	134	-1.19	0.04	0.28	-0.30	154	0.22	-1.40	0.03
Low Book / Price	Value - Low	-0.10	-1.82	-142	-2.66	138	0.53	-0.26	-113	-0.58	109	-0.42
Low EBIT / EV	Value - Low	-1.22	2.51	-2.87	-2.26	5.23	104	0.18	-0.74	0.00	-0.79	-100
Low Free Cashflow Yield	Value - Low	2.72	3.09	0.18	-0.01	2.14	-0.95	0.56	-138	0.00	-2.22	-0.40
Low Sales Yield	Value - Low	-0.16	-1.61	-144	-2.60	2.53	-0.14	1.83	-106	0.00	0.60	-0.74
Low Earnings Yield	Value - Low	0.04	0.83	-2.09	-2.74	2.49	0.34	0.14	-123	-1.00	0.80	-0.82
Low Dividend Yield	Value - Low	3.53	2.39	-0.70	129	4.57	0.69	1,11	-0.81	-1.36	0.06	0.73
High Historical EPS Growth	Growth- High	2.25	-0.70	138	3.81	2.36	-0.12	-0.25	-0.69	0.35	0.75	127
High Earnings Growth	Growth-High	-0.07	4.22	0.99	2.48	-0.18	0.69	0.02	0.96	-0.46	-0.99	0.39
High Dividend Growth	Growth- High	-0.40	-0.87	-0.41	-0.28	-0.57	-0.20	0.26	-0.12	0.77	1.26	0.07
Low Historical EPS Growth	Growth-Low	0.87	2.90	135	0.58	0.07	-0.36	-1.76	2.60	0.86	1.44	0.76
Low Earnings Growth Low Dividend Growth	Growth-Low Growth-Low	0.30	-0.36 1.40	138 115	0.02 2.94	-105 2.16	0.58 1.89	-0.60 0.33	136 2.34	0.30 -0.09	-102	0.20 0.95
High 1m Price Momentum	Momentum - High	-1.59	1.92	-2.40	-2.85	-1.20	-0.62	0.33	-128	-1.43	-2.09 - 1.01	-1.87
High 6m Price Momentum	Momentum - High	-0.50	3.62	-0.45	-2.60	-105	-0.62	-0.28	-126	-1.43	-0.35	-1.15
High 12m Price Momentum	Momentum - High	-0.55	-0.13	-1.98	-2.70	-1.10	0.15	-0.48	-1.49	-2.13	0.67	-1. B
High Earnings Momentum	Momentum - High	-0.53	2.18	0.48	-138	-0.12	-0.12	0.04	142	-0.57	0.54	-0.24
Low Im Price Momentum	Momentum - Low	2.62	-0.40	2.33	6.79	3.46	1.60	-1.03	191	176	2.12	2.63
Low 6m Price Momentum	Momentum - Low	2.11	-0.92	194	6.72	2.43	0.73	0.29	2.91	2.41	0.72	2.39
Low 12m Price Momentum	Momentum - Low	3.02	1.88	2.37	8.14	2.22	1.79	1.33	2.77	3.78	-0.02	3.35
Low Earnings Momentum	Momentum - Low	104	0.35	194	6.19	4.37	147	0.02	0.51	0.79	80.0	195
High Dividend Cover	Quality - High	101	-0.79	0.14	2.24	-3.05	-1.94	-1.43	2.21	0.75	0.33	0.22
High ROE	Quality - High	168	-2.21	-0.53	-156	0.46	-0.03	-0.63	-0.64	0.44	104	0.26
High ROIC	Quality - High	3.23	-2.57	-0.11	-156	-0.13	0.46	-0.41	0.65	0.03	0.86	0.35
LowCapex / Depreciation	Quality - High	-0.52	2.30	-0.46	-176	0.09	0.20	-0.20	2.69	0.02	-0.96	-0.29
Low Debt To EV	Quality - High	-0.51	0.93	0.02	4.47	2.01	0.98	104	188	0.00	1.15	1.01
High Capex / Depreciation	Quality - Low	2.53	-1.38	-0.49	0.54	2.48	0.42	-0.04	-132	0.00	0.55	0.73
High Debt To EV	Quality - Low	3.96	2.97	0.13	-144	0.09	-0.46	0.21	-0.53	0.00	0.07	-0.01
Low Dividend Cover	Quality - Low	0.47	-1.03	-122	-2.35	-1.22	0.18	-0.57	0.39	-0.20	-1.58	-1.42
LowROE	Quality - Low	-0.10	4.15	140	2.35	2.33	-0.26	0.93	196	0.35	-0.75	107
LowROIC	Quality - Low	-0.60	3.36	0.80	2.78	4.46	0.01	2.00	180	0.48	-0.49	1.01
Large Cap	Size	-0.18	-0.97	-0.77	-0.40	-0.02	-0.14	-0.58	-0.30	0.00	0.54	-0.23
Sma∎ Cap	Size	-3.51	3.75	2.38	1.19	-0.18	1.49	2.49	3.53	162	-0.68	173
High Beta	Risk - High	0.38	2.20	3.14	4.88	133	149	100	3.84	163	1.38	2.50
High Volatility	Risk - High	199	4.67	3.15	5.61	4.90	134	123	2.90	3.20	-2.08	3.21
LowBeta	Risk - Low	-1.14	-0.72	-162	-124	0.59	-0.66	-0.76	-1.50	-1.83	0.01	-109
LowVolatility	Risk - Low	-0.69	-2.20	-148	-178	-106	-1.21	-0.24	-129	-2.30	0.56	-1.16
Spread (Best - Worst)		7.47	8.80	6.02	10.99	8.28	3.88	4.25	5.49	6.08	4.34	5.21
	Key:	Top5	Bottom 5									
	y.											

Source: UBS Global Quantitative Research. Data to 29th July 2016 - file: UBS Industry Style Returns and Industry Style Indices

Sector-based style indices - one-month returns

When assessed by sector, the performance of our value styles in July 2016 reflects that of our developed markets' regional based styles, with value-high outperforming value-low but to a lesser extent. With the exception of growth and quality styles, the other style families reflect the regional based styles. Momentum-low reversed to outperform momentum-high and quality-low marginally beat quality-high styles. Growth-low outperformed growth-high. Our risk styles switched, with risk-high strongly outperforming risk-low.

Of our value-high styles, three-quarters (40% previously) of the combinations with sector outperformed in July 2016. These styles performed most strongly in Industrials, Consumer Goods and Utilities where they all outperformed and Consumer Services (7). Two of these styles outperformed in Health Care.

From a value-high style perspective, Low PEG and Value Composite did best, outperforming in eight sectors; each of these styles outperformed in at least six sectors.

At the value-low end, over half (from half) of the combinations of these styles and sectors outperformed, led by High PEG (switching) and Low Dividend Yield which beat the index in 7 sectors each. Low Book / Price and Low Sales Yield did least well only outperforming in three sectors. These styles did best in Health Care where all 8 outperformed. They did least well in Consumer Goods, Utilities and Financials where only one outperformed.

Of our growth-high styles, 50% (from 30%) of the combinations of these styles and sectors outperformed in July 2016. At the growth-low end, three-quarters (from a third) of the combinations of these styles and sectors outperformed. These styles all outperformed in Oil & Gas, Industrial, Consumer Goods and Utilities. Low Historical Growth and Low Dividend Growth each outperformed in 8 sectors.

Notably, Low Earnings Momentum, against expectation, outperformed the benchmark in all 10 sectors along with Low 6m and Low 12m Price Momentum which achieved this in 9 sectors each. 1m Price Momentum was relatively well behaved outperforming in 8 sectors at the low end and just two at the high (end).

58% of our quality-high and 62% of our quality-low styles by sector outperformed (48 & 42% respectively previously). Health Care was notable where four quality-low styles outperformed along with Utilities, Financials and Technology where four quality-high styles outperformed. Low Debt / EV outperformed in nine sectors, and in contrast, Low RoIC achieved tis in eight (sectors),

Our risk styles discriminated strongly outperforming in every sector for High Beta and all bar one for High Volatility.

Small Caps outperformed in seven sectors.

Sector-neutral, equal weighted styles

These factors differ from the other factors in this publication in that they are equally weighted, sector-neutral and performance is shown on a long/short basis. Our US universe is composed of the largest 1000 companies according to Centre for Research in Security Prices (CRSP) and in Europe we use the constituents of the Dow Jones World Index as our starting point and select the largest 500 stocks⁴. For more detail please see page 33.



Figure 6: US (sector-neutral, equal-weighted)

Source: UBS Global Quantitative Research. Data to 29th July 2016

The second half of the year has started with value doing well but our sector neutral, long short quality and momentum indices doing badly in the US.

The value indices returned between 1 and 2% in July, which leaves them up a few percentage points year-to-date. Interestingly on a sector neutral basis almost all the value measures we track were up during July.

Quality, however, was a different story. This fell by 2.5% over the month, mainly driven by the bad performance of low volatility. However even given this bad performance guality has a positive performance of +3.5% year-to-date.

Momentum fell in line with quality, losing 2.4% over the month. Unlike the other two indices this has lost 4% so far this year. All of the subcomponents of this composite momentum index fell during July.

This left our Value+Quality+Momentum index with a return of -2.5% for the month of July. So far this year our simple "quant index" has a positive return of 2.1%.

The other composite we track, Growth, fell by 1.3% during the month, leaving it down by 6.3% for the year so far.

⁴ Previously these factors were published in the weekly Global Quantitative Monitor.

108 Shaded area shows last 106 month Value Forward (1.5%) 104 Value Trailing (0.6%) 102 Growth (1.5%) 100 Quality (-1.8%) 98 96 Momentum (-0.5%) 94 V+Q+M (-0.8%) 92 29-201-16

Figure 7: Europe (sector-neutral, equal-weighted)

Figure 7 shows that the story for Europe was somewhat more subdued. The pattern was the same – value up, quality and momentum down, but the magnitude of all the moves was less.

Value in Europe has had a much worse year than in the US, with both our historic and future value indices being down over the year. They recovered a little bit in July. A recent note from our European strategy team (available here) discusses the valuation of value in Europe and elsewhere in the world, and observes that "valuation dispersion [in Europe] is back near tech bubble highs".

Quality underperformed in Europe by 1.8% during July which leaves it up 3.9% year to date. Momentum was similarly a bad performer, falling by 0.5% in the month, which leaves it close to flat over the year at +0.6%.

Our "quant composite" index fell by 0.8% last month; year to date this has given a small positive performance of 1.3%.

Finally our growth composite rose in Europe (unlike the US) but is still down by 4.8% year to date.

Style Timing

The style timing model is a simple, linear model which uses three conditioning factors:

- (1) Volatility (either the VSTOXX or the VIX),
- Slope of the yield curve (the difference between the 10-year and 2-year German or US bonds),
- (3) Value spread the ratio of the average book-to-price in the growth basket to the average in the value basket in either the European or US baskets

to allocate between four styles. Please see "Simple Style Timing", 11th June 2012 for a more detailed explanation of how the model works. The styles are a long–short combination of, for example, High and Low RolC.

Figure 8: Europe Style timing – model's suggested weights last month

	PE	ROIC	Size	12 month Price Momentum
Old weights	16%	72%	7%	-5%

Source: UBS Quantitative Research

Figure 9: US Style timing – model's suggested weights last month

	PE	ROIC	Size	12 month Price Momentum
Old weights	32%	15%	8%	45%

Source: UBS Quantitative Research

Figure 10: Europe Style timing – dynamic style allocation

	PE	ROIC	Size	12 month Price Momentum
Base Weight	18%	41%	32%	10%
Exposure to volatility	-0.30	0.50	0.04	-0.24
Exposure to yield curve slope	0.39	-0.50	0.37	-0.26
Exposure to value spread	0.50	-0.29	0.09	-0.30
Current weights	36.7%	43.7%	2.9%	16.8%

Source: UBS Quantitative Research

Figure 11: US Style timing – dynamic style allocation

	PE	ROIC	Size	12 month Price Momentum
Base Weight	25%	43%	18%	14%
Exposure to volatility	-0.38	0.50	0.38	-0.50
Exposure to yield curve slope	0.01	0.09	0.02	-0.13
Exposure to value spread	0.04	0.46	-0.13	-0.36
Current weights	38.4%	-3.7%	-14.3%	43.6%

Source: UBS Quantitative Research

In Europe the strategy would have performed extremely well last month, gaining +1.9%. This was mostly due to the suggested position in ROIC, which was extremely large at 72%, and high quality outperformed low quality by 2% in July.

In the US, the strategy would also have done well, gaining +0.3% over the last month. Here the poor performance of the momentum style was offset by the strong returns to the other three positions, showing the virtue of style diversification.

The main changes in the US are due to the drop in the VIX over the last month from 14.8 down to 11.9. This has led the strategy to move to a more risky portfolio by reducing the exposure to our quality factor ROIC, actually taking a small positive weight in low quality names. However, this increase in risk has been offset by "flipping" the size position from preferring the small-cap style to preferring large-caps.

In Europe, the VSTOXX is down a little since the start of July and the value spread has narrowed (though still unusually broad compared to history). The main changes to the European strategy's suggested weights are in the quality, value and momentum styles. The strategy suggests holding a considerably smaller quality

position, although it remains the largest suggested position, and a considerably larger momentum and value position.

Style timing names

We show the updated screen based on the style timing model below. We start from the universe of European or US names covered by UBS analysts, awarded either a buy or neutral recommendation and with a market cap of at least \$1bn. We give each stock a score between -1 and +1 based on the four styles. Finally we take a weighted average of these scores using the current suggested style weights and highlight the top 25 names in each region. All data here is as of 29th July 2016

Figure 12: European style timing screen

Figure 13: US style timing screen

Name	Bloomberg Code	Country
ACS ACTIVIDADES CONS Y SERV	ACS.SQ	ES
ANDRITZ AG	ANDR.AV	AT
ATOS SE	ATO.FP	FR
BALFOUR BEATTY PLC	BBY.LN	GB
BERKELEY GROUP HOLDINGS	BKG.LN	GB
BPOST SA	BPOST.BB	BE
INTL CONSOLIDATED AIRLINE-DI	IAG.LN	GB
NESTE OYJ	NESTE.FH	FI
NEXT PLC	NXT.LN	GB
OBRASCON HUARTE LAIN S.A.	OHL.SQ	ES
PERSIMMON PLC	PSN.LN	GB
PEUGEOT SA	UG.FP	FR
PHOSAGRO OAO-GDR REG S	PHOR.LI	GB
POLYMETAL INTERNATIONAL PLC	POLY.LN	GB
POSTNL NV	PNL.NA	NL
RENAULT SA	RNO.FP	FR
RYANAIR HOLDINGS PLC	RYA.ID	IE
SAVILLS PLC	SVS.LN	GB
SOFTWARE AG	SOW.GY	DE
SWEDISH MATCH AB	SWMA.SS	SE
TIETO OYJ	TIE1V.FH	FI
TOPDANMARK A/S	TOP.DC	DK
TUI AG-DI	TUI1.GY	DE
VALEO SA	FR.FP	FR
WINCOR NIXDORF AG	WIN.GY	DE

Source: UBS Quantitative Research. Please note this screen is based on UBS's proprietary quantitative models. It is independent of the recommendations of UBS' fundamental equity research analysts.

Name	Bloomberg Code
AFLAC INC	AFL.UN
AMERICAN ELECTRIC POWER	AEP.UN
AON PLC	AON.UN
APPLIED MATERIALS INC	AMAT.UW
AT&T INC	T.UN
BROADCOM LTD	AVG0.UW
CHUBB LTD	CB.UN
HUNTINGTON INGALLS INDUSTRIE	HII.UN
INTEL CORP	INTC.UW
JOHNSON & JOHNSON	JNJ.UN
KLA-TENCOR CORP	KLAC.UW
MOBILE TELESYSTEMS-SP ADR	MBT.UN
NETEASE INC-ADR	NTES.UW
NORTHROP GRUMMAN CORP	NOC.UN
P G & E CORP	PCG.UN
PPL CORP	PPL.UN
PRIMERICA INC	PRI.UN
RAYTHEON COMPANY	RTN.UN
SCANA CORP	SCG.UN
SOUTHWEST AIRLINES CO	LUV.UN
TERNIUM SA-SPONSORED ADR	TX.UN
TRAVELERS COS INC/THE	TRV.UN
UNITEDHEALTH GROUP INC	UNH.UN
VERIZON COMMUNICATIONS INC	VZ.UN
WILLIS TOWERS WATSON PLC	WLTW.UW

Source: UBS Quantitative Research. Please note this screen is based on UBS's proprietary quantitative models. It is independent of the recommendations of UBS' fundamental equity research analysts.

Crowding Barometer

UBS crowding barometer can be used to measure the level of crowdedness for any trading baskets. It captures the crowded trades from three different angles, global active fund managers holding, sell-side analysts' sentiment, as well as the market performance For more details, please see Q-Series® note "What crowded positions are bubbling up in equity markets?", 19 February 2016.

Figure 14: Where are the bubbles forming?

		Relative	Relative weight	Sell side rating against long-	Cumlative PCI	Last month's	Bubble?
		weight	(z-score)	term average	(Z-score)	PCI	
Regions	Developed market	1.56					
ž.	Emerging market	-1.56	-1.2	-1.8%	-1.0	-0.32	
Countries	US	3.06	1.7	-1.4%	1.8	-0.53	
	Developed Europe	2.45	-0.6	-0.1%	-0.2	0.35	
	Japan	-3.10	0.6	2.4%	1.4	0.26	
	Australia	-1.27	1.0	-5.5%	-0.8	0.36	
	Asia ex-Japan	-0.78	-1.6	-1.7%	-0.4	-0.37	
Sectors	US Energy	-0.28	-1.0	-2.4%	2.0	-0.37	
	US Materials	0.13			0.6	-0.55	
	US Industrials	0.12					
	US Consumer Discretionary	1.11					
	US Consumer Staples	-0.69					
	US Health Care	1.26					
	US Financials	1.01	0.7				
	US IT	0.89					
	US Telecoms	-0.38					
	US Utilities	-0.13					
	Dev. Europe Energy	-0.13					
	Dev. Europe Energy Dev. Europe Materials	0.06					
	Dev. Europe Industrials	0.63					
	· ·						
	Dev. Europe Consumer Discreti Dev. Europe Consumer Staples	0.57					
	· · ·						
	Dev. Europe Health Care	0.43					
	Dev. Europe Financials	0.37					
	Dev. Europe IT	0.34					
	Dev. Europe Telecoms	0.02					
	Dev. Europe Utilities	-0.01	-0.3				
	Asia ex-JP Energy	-0.10					
	Asia ex-JP Materials	-0.14					
	Asia ex-JP Industrials	-0.21	0.6				
	Asia ex-JP Consumer Discretion						
	Asia ex-JP Consumer Staples	-0.05					
	Asia ex-JP Health Care	0.01					
	Asia ex-JP Financials	-0.35					
	Asia ex-JP IT	0.12				0.19	
	Asia ex-JP Telecoms	-0.07	-1.2	1.4%	-0.8	-0.44	
	Asia ex-JP Utilities	-0.07	-1.3	0.3%	-0.5	-0.47	
	Japan Energy	-0.02	0.8	5.7%	-1.7	-0.31	
	Japan Materials	-0.25	0.9	-0.1%	-0.6	0.46	
	Japan Industrials	-0.73	0.0	-0.4%	-1.4	0.08	
	Japan Consumer Discretionary	-0.69	0.4	1.8%	1.2	0.40	
	Japan Consumer Staples	-0.24	-1.5	1.9%	0.3	-0.70	
	Japan Health Care	-0.27	-0.2	3.8%	0.3	-0.51	
	Japan Financials	-0.51	0.8	-3.2%			
	Japan IT	-0.21	1.3	0.0%	-0.1	0.20	
	Japan Telecoms	-0.06					
	Japan Utilities	-0.12					
	Australia Resources	-0.15					
	Australia Financials	-0.79					
	Australia Industrials	-0.33					
Styles	High Earnings Yield	-2.48					
- cy ic s	High Dividend Yield	-4.86					
	High Forecast Earnings Growth						
	High 12m Price Momentum	0.39					
	High ROE	1.07					
	Low Volatility	-2.10					
	Large Caps	-2.73					
	Low Beta	-1.23	-1.0	-0.9%	-0.4	-0.58	

Source: FactSet, MSCI, IBES, UBS Global Quantitative Research. Data to 29th July 2016

Note: For the last column of the chart, red indicates crowded buy and blue indicates crowded sell.

Style Performance

Figure 15 to Figure 26 show the relative total return performance of our developed and emerging markets' global and regional style indices; monthly for the past six months, together with three, six and 12 month and year-to-date returns. The tables are sorted by the six-month returns, the top and bottom-five styles are highlighted. These style indices are based on the Dow Jones Global Indices (developed), MSCI (emerging) and US large cap constituents. Index series and Returns files are available on UBS Neo for these as well as style data based on other (local) benchmarks.

Figure 15: Developed World - style performance

				Month	nly				Cumula	tive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	-Month	1-Year	YTD
Small Cap	Size	1.79	0.94	-2.20	2.15	3.06	2.74	0.48	8.68	7.55	8.34
Low 1m Price Momentum	Momentum - Low	2.47	0.85	1.08	0.85	0.22	-0.29	4.45	5.27	3.82	4.1
High Debt To EV	Quality - Low	-1.3 ²	2.17	-1.92	1.87	0.47	1.98	-1.10	3.22	1.39	5.64
High Volatility	Risk - High	2.36	-1.84	-1.36	2.41	0.38	0.87	-0.88	2.79	-3.22	0.03
Low Dividend Cover	Quality - Low	-1.89	2.93	-0.92	0.89	0.05	0.89	0.06	1.90	7.12	5.25
High Dividend Yield	Value - High	-0.55	0.71	-0.21	0.85	0.19	0.72	-0.05	1.71	4.77	3.62
Low Free Cashflow Yield	Value - Low	-1.93	2.52	-0.57	1.65	-0.30	0.29	-0.03	1.61	2.22	2.56
High Free Cashflow Yield	Value - High	1.28	-0.33	0.64	-1.12	0.02	1.13	1.59	1.60	1.00	1.78
Low 12m Price Momentum	Momentum - Low	1.52	-3.14	-1.00	1.60	0.91	1.6	-2.65	1.42	-1.30	1.59
Low Earnings Growth	Growth - Low	-0.50	-0.47	-0.24	1.56	0.20	0.87	-1.20	1.42	1.40	2.03
Low EBIT / EV	Value - Low	-1.69	2.27	-0.35	1.59	-0.46	0.09	0.19	1.41	2.79	2.14
Low Historical EPS Growth	Growth - Low	-0.92	1.41	-0.82	1.31	-0.08	0.50	-0.34	1.39	2.05	2.45
Low Earnings Yield	Value - Low	-1.30	2.05	-0.40	1.44	-0.33	-0.21	0.32	1.22	3.43	2.08
Low Capex / Depreciation	Quality - High	0.23	-0.66	0.46	1.30	0.00	-0.14	0.03	1.19	-1.10	-0.13
High EBIT / EV	Value - High	1.42	-0.39	0.64	-2.35	0.43	1.48	1.67	1.18	0.51	1.27
Low ROIC	Quality - Low	-0.53	0.23	-1.32	2.69	0.07	0.03	-1.62	1.12	-3.48	0.04
Low Earnings Momentum	Momentum - Low	0.94	-2.16	-0.88	1.74	0.53	0.98	-2.10	1.11	-2.02	-0.13
High Sales Yield	Value - High	0.77	-0.56	-0.72	-1.48	1.13	1.79	-0.52	0.89	-1.02	0.77
Low Dividend Growth	Growth - Low	0.66	-0.60	-0.54	1.60	-0.64	0.40	-0.49	0.86	-1.56	-0.21
Low ROE	Quality - Low	-0.88	0.07	-1.19	2.65	0.08	0.13	-1.99	0.83	-2.57	0.34
High PEG	Value - Low	-0.70	0.03	-0.77	1.46	0.01	0.76	-1.44	0.76	0.69	1.40
Low 6m Price Momentum	Momentum - Low	1.99	-3.89	-0.20	1.64	0.31	1.0	-2.17	0.74	-2.10	-0.83
High Book / Price	Value - High	0.15	-1.48	-1.20	2.26	0.59	-0.14	-2.52	0.14	-4.06	-0.72
High 6m Price Momentum	Momentum - High	-1.12	3.41	0.76	-1.60	-0.96	-0.54	3.03	-0.12	2.61	1.78
Low Debt To EV	Quality - High	1.82	-0.64	1.55	-2.62	-0.48	0.30	2.73	-0.14	3.31	-0.92
High Beta	Risk - High	2.26	-4.03	-0.96	2.17	1.56	-1.04	-2.80	-0.19	-8.89	-4.48
Low Dividend Yield	Value - Low	0.91	-0.76	0.57	-0.02	-0.93	-0.17	0.71	-0.41	-2.27	-2.22
Low Sales Yield	Value - Low	-0.90	1.59	0.77	-0.17	-1.49	-0.33	1.45	-0.56	0.94	0.97
Value Composite	Value - High	1.05	-2.11	-0.08	0.05	0.64	-0.15	-1.16	-0.64	-3.27	-1.62
Growth Composite	Value - Low	-1.30	1.42	0.34	0.24	-1.26	-0.08	0.45	-0.66	1.06	0.01
High ROE	Quality - High	0.63	0.02	0.69	-1.77	-0.42	0.20	1.34	-0.68	1.10	-0.22
High Earnings Growth	Growth - High	0.36	-0.07	0.09	-0.11	-0.57	-0.40	0.38	-0.71	-2.88	-1.84
High ROIC	Quality - High	0.75	-0.10	0.94	-2.01	-0.20	-0.07	1.59	-0.72	3.33	-0.46
Low Volatility	Risk - Low	-1.94	2.41	0.46	-0.74	-1.06	0.20	0.89	-0.72	5.16	2.40
Low PEG	Value - High	1.14	-1.21	0.22	-0.14	-0.26	-0.46	0.13	-0.73	-4.55	-2.15
High Earnings Momentum	Momentum - High	-0.46	1.48	0.48	-0.97	-0.63	-0.69	1.50	-0.81	1.38	0.79
Low Beta	Risk - Low	-2.29	3.50	0.51	-1.36	-1.92	0.78	1.65	-0.89	6.26	3.05
Low Book / Price	Value - Low	-0.16	0.66	0.90	-1.54	-0.60	-0.16	1.42	-0.90	1.99	-0.12
High 12m Price Momentum	Momentum - High	-1.01	2.59	1.32	-1.54	-0.98	-1.33	2.91	-1.01	0.95	-0.30
High Dividend Growth	Growth - High	0.33	-0.92	0.39	-1.01	0.14	-0.04	-0.21	-1.12	-2.00	-1.10
Large Cap	Size	-0.32	-0.15	0.23	-0.17	-0.60	-0.23	-0.24	-1.23	-0.80	-0.93
High Earnings Yield	Value - High	1.42	-3.03	0.34	-0.36	0.63	-0.59	-1.32	-1.64	-6.30	-3.51
High Capex / Depreciation	Quality - Low	0.09	-0.55	-0.33	-1.25	-0.15	0.46	-0.79	-1.72	-1.23	-0.82
High Dividend Cover	Quality - High	0.63	-2.15	0.23	-0.93	0.61	-0.42	-1.30	-2.04	-5.38	-3.86
High Historical EPS Growth	Growth - High	1.57	-2.25	0.95	-2.11	-0.23	-0.67	0.22	-2.77	-5.42	-4.10
High 1m Price Momentum	Momentum - High	-2.01	-1.45	-0.93	-0.58	-0.71	0.60	-4.34	-5.00	-2.83	-3.30
0.00		4.76	7.53	3.75	5.30	4.97	4.07	8.79	13.68	16.43	12.82
	Key:	Top 5	Bottom 5								

Figure 16: UK - style performance

				Month	nly				Cumula	tive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	6-Month	1-Year	YTD
High Volatility	Risk - High	2.41	3.20	-4.39	3.82	2.31	4.05	1.04	11.67	-0.10	9.2
Low 1m Price Momentum	Momentum - Low	2.26	4.65	2.20	-0.08	-0.65	-0.73	9.37	7.78	10.56	7.6
High Debt To EV	Quality - Low	-1.44	5.54	-3.54	2.36	1.36	3.25	0.35	7.50	4.48	9.4
Low EBIT / EV	Value - Low	-0.96	6.04	-1.95	0.75	0.68	2.41	2.98	6.97	11.04	
Low Sales Yield	Value - Low	-0.68	5.31	1.29	-1.94	1.45	0.53	5.94	5.95	15.39	7.6
Low Free Cashflow Yield	Value - Low	-1.21	5.17	-1.61	0.87	0.87	1.33	2.22	5.39	8.93	6.2
High Sales Yield	Value - High	-1.44	2.84	-3.02	1.03	1.53	4.27	-1.70	5.15	-0.28	5.8
Low Dividend Growth	Growth - Low	0.12	2.78	-2.00	2.52	1.05	-0.27	0.85	4.20	-1.41	3.4
Low Historical EPS Growth	Growth - Low	-0.77	5.12	-2.38	2.18	-0.09	-0.13	1.84	3.83	-2.06	4.3
Small Cap	Size	3.42	-9.14	1.60	-0.21	7.35	1.45	-4.53	3.74	-5.50	-0.
Low Dividend Cover	Quality - Low	-0.70	3.43	-0.65	1.77	-0.12	-0.04	2.04	3.68	6.45	5.0
Low Capex / Depreciation	Quality - High	1.36	2.03	-1.93	-0.19	1.40	0.96	1.42	3.63	-1.60	2.8
Low ROIC	Quality - Low	-1.26	2.73	-2.80	3.48	0.02	1.27	-1.40	3.35	-5.75	2.5
Low Earnings Yield	Value - Low	0.71	3.00	-2.21	0.46	0.86	0.32	1.44	3.11	6.27	2.8
Low ROE	Quality - Low	-0.59	1.07	-2.52	3.26	0.87	0.73	-2.06	2.75	-7.63	0.4
Growth Composite	Value - Low	-0.70	4.17	0.76	-2.42	-0.14	0.93	4.24	2.52	10.68	4.6
High 12m Price Momentum	Momentum - High	-1.44	3.94	2.50	-3.04	0.09	-0.06	5.00	1.83	8.62	2.6
Low Book / Price	Value - Low	0.65	3.35	1.49	-2.36	-0.59	-0.81	5.56	1.63	11.49	4.5
Low Earnings Momentum	Momentum - Low	1.37	-4.82	-1.35	3.39	0.69	2.48	-4.81	1.55	-5.48	-0.4
Low Dividend Yield	Value - Low	1.36	0.12	-0.97	-1.57	0.57	2.02	0.51	1.49	-0.58	-0.7
High ROE	Quality - High	0.53	2.30	1.49	-2.22	-0.35	-0.35	4.38	1.35	10.69	3.4
Low 12m Price Momentum	Momentum - Low	-0.19	-0.96	-3.35	3.99	0.68	1.18	-4.46	1.2	-2.68	0.4
Low 6m Price Momentum	Momentum - Low	3.95	-9.11	-0.44	4.17	1.21	1.92	-5.93	1.08	-1.43	-1.0
High ROIC	Quality - High	1.44	0.80	1.88	-2.02	-0.22	-0.84	4.17	0.99	8.54	2.0
Low Debt To EV	Quality - High	2.64	-0.22	1.87	-2.79	-1.40	0.85	4.34	0.86	5.09	0.1
High Earnings Momentum	Momentum - High	-1.38	3.87	-0.03	-1.73	0.76	-0.57	2.41	0.82	5.86	1.
High 6m Price Momentum	Momentum - High	-1.19	5.03	0.77	-2.54	-0.51	-0.78	4.58	0.60	2.03	2.5
High Dividend Yield	Value - High	-0.56	0.70	-0.25	1.43	-0.66	-0.04	-0.12	0.60	0.25	1.8
Low Earnings Growth	Growth - Low	2.11	-2.94	-1.44	2.28	-0.40	1.07	-2.32	0.57	0.04	-0.1
Low Volatility	Risk - Low	-0.97	3.17	1.66	-2.02	0.40	-1.68	3.86	0.45	7.85	2.3
Low PEG	Value - High	-1.16	2.39	0.48	-1.61	1.35	-1.06	1.69	0.33	-5.18	-1.0
Large Cap	Size	-0.07	0.63	-0.12	-0.16	0.00	-0.04	0.44	0.24	0.85	0.5
High PEG	Value - Low	1.18		-1.10	2.48	0.05	0.77	-3.09	0.13	-1.53	-1.0
High Beta	Risk - High	3.04	-4.35	-1.86	3.14	0.50	-0.23	-3.27	0.04	-11.69	-3.8
High Earnings Growth	Growth - High	-0.79	2.35	0.26	-2.29	1.11	-0.85	1.80	-0.27	-4.44	-1.2
Low Beta	Risk - Low	-1.25	3.09	1.85	-2.54	-0.69	-0.91	3.69	-0.55	9.29	2.7
High Book / Price	Value - High	-0.78	-2.33	-1.49	3.14	0.45	0.15	-4.54	-0.97	-10.43	-2.7
High Free Cashflow Yield	Value - High	0.41	-0.62	-0.03	-1.65	0.31	0.31	-0.24	-1.28	-0.16	-0.9
High EBIT / EV	Value - High	4.63	-4.92	0.24	-1.86	-0.20	0.73	-0.29	-1.63	-1.62	-3.5
High Dividend Cover	Quality - High	3.42	-5.19	0.55	-1.35	0.89	-0.05	-1.41	-1.91	-9.73	-7.1
Value Composite	Value - High	0.58	-3.69	-1.12	1.65	-0.04	0.31		-2.38	-11.63	-5.1
High Capex / Depreciation	Quality - Low	-0.67	-4.37	2.54	-2.53	-0.04	2.34	-2.60	-2.88	0.45	-2.1
High Earnings Yield	Value - High	1.61	-6.69	1.81	-0.34	-0.31	-1.48		-5.52	-11.46	-8.0
High Dividend Growth	Growth - High	1.98	-7.11		-2.53	-1.73	1.46		-6.33	-7.89	-7.1
High Historical EPS Growth	Growth - High	4.63	-11.94		-2.67	-0.39	-0.06	-4.57	-7.53	-11.29	-13.
High 1m Price Momentum	Momentum - High	-1.20	-10.16		0.07	1.15		-13.73	-12.51	-11.29	-11.
ingii iiii i nee momentum	Womentum - High	-1.20	-10.10	-2.01	0.07	1.10	0.18	- 13.73	-12.01	-11.33	-11.
0.00		6.07	17.98	7.96	7.21	9.08	5.95	23.11	24.18	27.08	22.5
0.00		0.07	17.90	7.90	1.21	9.00	5.95	23.1	∠4.10	27.00	23.3
	Key:	Top 5	Bottom 5								

Figure 17: Europe ex UK - style performance

				Month	ly				Cumula	ative	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	3-Month	1-Year	YTD
Small Cap	Size	2.59	2.50	-3.06	4.88	6.84	4.46	1.94	19.33	12.17	20.09
High Sales Yield	Value - High	0.74	1.12	-1.87	0.44	2.93	2.64	-0.04	6.07	6.01	6.20
Low EBIT / EV	Value - Low	-1.97	6.64	0.05	0.40	-0.43	1.06	4.60	5.67	6.35	7.44
High Free Cashflow Yield	Value - High	1.69	1.92	-0.31	-0.13	1.25	0.31	3.32	4.80	5.95	4.42
Low 1m Price Momentum	Momentum - Low	2.56	0.38	0.80	0.46	0.53	-0.23	3.77	4.57	0.48	3.87
Low Free Cashflow Yield	Value - Low	-1.63	5.32	-0.74	0.51	-0.09	0.92	2.83	4.22	5.08	6.3
Low Earnings Yield	Value - Low	-0.69	5.29	-0.06	-0.70	0.34	-0.50	4.50	3.59	10.98	6.9 ²
High ROE	Quality - High	0.54	1.91	0.17	-1.27	1.17	0.76	2.63	3.29	3.85	3.42
Low Book / Price	Value - Low	-0.55	3.82	0.77	-1.14	0.16	-0.02	4.05	3.01	7.92	5.06
Low Dividend Yield	Value - Low	1.95	1.36	0.60	-1.03	0.47	-0.37	3.96	2.99	4.40	2.92
Low Debt To EV	Quality - High	1.41	0.91	0.55	-1.68	0.96	0.79	2.90	2.95	7.41	3.79
High Debt To EV	Quality - Low	-1.89	3.65	-2.18	1.13	1.08	1.22	-0.52	2.94	2.88	5.52
High EBIT / EV	Value - High	0.96	0.03	-1.54	-0.44	2.33	1.58	-0.56	2.91	4.50	3.08
High Dividend Cover	Quality - High	1.78	0.34	-0.84	-0.91	1.55	0.80	1.27	2.72	3.63	2.2
Low Volatility	Risk - Low	-1.54	4.07	1.80	-0.66	-0.69	-0.24	4.31	2.66	8.94	5.6
Low Sales Yield	Value - Low	-1.35	5.46	1.66	-0.61	-1.57	-0.79	5.77	2.66	3.44	3.88
High 6m Price Momentum	Momentum - High	1.54	2.71	1.07	-2.01	-0.15	-0.54	5.41	2.58	4.98	5.34
High 12m Price Momentum	Momentum - High	0.04	2.88	1.76	-1.59	-0.12	-0.53	4.73	2.40	6.11	3.29
Low Dividend Cover	Quality - Low	-2.00	3.42	-0.98	0.72	0.27	0.65	0.36	2.01	2.25	4.45
Growth Composite	Value - Low	-0.99	3.92	1.36	-1.55	-0.42	-0.33	4.29	1.90	5.56	4.32
Low Historical EPS Growth	Growth - Low	-0.94	2.04	-1.52	1.87	-0.48	0.93	-0.46	1.86	-4.32	0.95
High ROIC	Quality - High	1.06	0.89	0.61	-1.57	0.45	0.40	2.59	1.84	5.28	3.07
High PEG	Value - Low	-1.46	1.51	-0.60	1.53	-0.34	1.06	-0.58	1.66	2.05	3.23
Low Dividend Growth	Growth - Low	-1.14	1.19	-1.29	2.59	-0.16	0.50	-1.25	1.65	-0.07	1.82
Low ROIC	Quality - Low	-0.51	0.36	-1.85	2.30	-0.08	1.00	-2.00	1.17	-5.32	-1.1
Low Earnings Growth	Growth - Low	-1.25	0.63	-0.69	1.65	-0.07	0.89	-1.31	1.14	-0.15	0.95
High Dividend Growth	Growth - High	1.44	1.06	-0.69	-0.85	0.32	-0.17	1.81	1.10	-1.50	0.90
Low Capex / Depreciation	Quality - High	-0.10	1.34	0.64	-0.53	-0.44	0.00	1.89	0.90	-1.00	0.65
High Volatility	Risk - High	2.86	-1.60	-4.59	2.18	0.91	1.30	-3.44	0.86	-7.18	-1.1
High Earnings Momentum	Momentum - High	-0.24	2.11	0.74	-1.90	0.50	-0.61	2.63	0.56	4.31	2.44
Low Beta	Risk - Low	-2.11	5.05	1.51	-1.34	-1.70	-0.69	4.39	0.55	6.06	3.42
Low 6m Price Momentum	Momentum - Low	0.23	-2.38	-1.49	2.16	0.32	1.59	-3.61	0.35	-2.90	-2.29
Low Earnings Momentum	Momentum - Low	0.54	-0.66	-2.21	2.00	-0.52	1.18	-2.34	0.27	-2.25	-1.22
High Capex / Depreciation	Quality - Low	0.64	-0.45	-1.85	1.65	0.05	0.24	-1.67	0.25	-2.52	0.79
Low PEG	Value - High	0.79	0.03	-1.26	-0.04	0.56	0.1	-0.45	0.18	-6.39	-1.92
Large Cap	Size	-0.52	1.07	-0.29	0.05	-0.09	-0.08	0.25	0.13	-0.86	0.30
Low 12m Price Momentum	Momentum - Low	0.20	-1.39	-2.93	1.98	0.49	1.72	-4.09	-0.02	-5.43	-0.92
High Dividend Yield	Value - High	-0.89	-1.40	-1.36	1.69	0.90	0.85	-3.61	-0.26	-4.05	-0.62
High Historical EPS Growth	Growth - High	1.47	-1.85	0.13	-1.30	1.74	-0.42	-0.28	-0.29	-2.22	-1.92
High Earnings Growth	Growth - High	0.67	0.45	-0.96	-0.33	-0.14	-0.52	0.16	-0.84	-4.89	-1.9
High Earnings Yield	Value - High	0.94	-2.87	-1.12	1.08	1.52	-0.48	-3.05	-0.98	-6.98	-3.36
Value Composite	Value - High	-0.03	-2.64	-1.41	1.71	0.60	0.69		-1.15		-2.8
Low ROE	Quality - Low	-0.76	-0.82	-2.25	2.46	-0.77	0.59	-3.79	-1.61		-2.83
High Book / Price	Value - High	0.22	-2.65	-2.16	2.76	-0.69	0.23	-4.54	-2.36	-8.28	-4.48
High 1m Price Momentum	Momentum - High	-1.83	1.84	-2.20	-0.84	-0.05	-0.23	-2.22	-3.31	-0.43	-3.06
High Beta	Risk - High	2.57	-6.17	-1.50	1.21	1.51	-0.73	-5.20	-3.32	-10.56	-8.05
0.00		4.97	12.81	6.40	6.89	8.54	5.26	10.97	22.64	22.72	28.15
	Key:	Top 5	Bottom 5								

Figure 18: Europe - style performance

				Month	nly				Cumula	ative	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	6-Month	1-Year	YTD
Small Cap	Size	2.77	-1.16	-1.66	3.41	7.00	3.57	-0.11	14.48	6.97	13.93
Low EBIT / EV	Value - Low	-1.64	6.46	-0.56	0.52	-0.12	1.73	4.13	6.36	8.05	8.54
Low 1m Price Momentum	Momentum - Low	2.66	2.04	1.12	0.29	0.39	-0.41	5.93	6.20	4.00	5.60
High Sales Yield	Value - High	0.09	1.64	-2.23	0.64	2.51	3.14	-0.53	5.85	4.22	6.14
High Volatility	Risk - High	2.72	0.11	-4.50	2.79	1.32	2.30	-1.79	4.63	-4.57	2.48
Low Free Cashflow Yield	Value - Low	-1.55	5.27	-1.00	0.66	0.10	1.19	2.60	4.56	6.22	6.28
High Debt To EV	Quality - Low	-1.83	4.36	-2.65	1.65	1.09	1.99	-0.26	4.53	3.29	6.92
Low Sales Yield	Value - Low	-1.12	5.42	1.54	-1.00	-0.67	-0.44	5.85	3.63	6.88	4.93
Low Earnings Yield	Value - Low	-0.28	4.57	-0.70	-0.34	0.43	-0.15	3.54	3.48	9.60	5.72
High Free Cashflow Yield	Value - High	1.30	1.08	-0.21	-0.59	1.01	0.28	2.18	2.90	3.98	2.70
High ROE	Quality - High	0.43	2.06	0.66	-1.55	0.53	0.42	3.17	2.54	5.98	3.37
Low Book / Price	Value - Low	-0.21	3.66	1.04	-1.51	-0.14	-0.25	4.52	2.54	8.98	4.93
Low Historical EPS Growth	Growth - Low	-0.94	3.09	-1.79	2.02	-0.39	0.61	0.29	2.54	-3.55	2.12
Low Dividend Cover	Quality - Low	-1.62	3.42	-0.82	1.16	-0.05	0.46	0.91	2.51	3.57	4.58
Low Dividend Growth	Growth - Low	-0.81	1.75	-1.52	2.64	0.17	0.27	-0.60	2.47	-0.58	2.36
Low Dividend Yield	Value - Low	1.70	1.00	0.13	-1.20	0.53	0.31	2.85	2.47	3.03	1.82
Low Debt To EV	Quality - High	1.81	0.62	0.87	-2.02	0.43	0.77	3.33	2.46	6.95	2.86
High 12m Price Momentum	Momentum - High	-0.58	3.33	2.03	-2.05	-0.11	-0.44	4.82	2.10	6.66	2.93
Growth Composite	Value - Low	-0.91	3.99	1.18	-1.81	-0.34	0.04	4.26	2.07	6.90	4.40
Low Volatility	Risk - Low	-1.42	3.77	1.76	-1.07	-0.37	-0.69	4.10	1.91	8.53	4.48
Low ROIC	Quality - Low	-0.85	1.19	-2.16	2.71	-0.12	1.10	-1.84	1.87	-5.67	0.14
High EBIT / EV	Value - High	1.90	-1.21	-1.15	-0.85	1.79	1.30	-0.48	1.75	3.08	1.40
Low Capex / Depreciation	Quality - High	0.36	1.55	-0.05	-0.48	0.11	0.15	1.86	1.63	-1.00	1.23
High 6m Price Momentum	Momentum - High	0.04	3.81	0.99	-2.11	-0.42	-0.61	4.88	1.61	3.79	4.12
High ROIC	Quality - High	1.15	0.86	1.03	-1.69	0.14	0.02	3.07	1.48	6.16	2.66
High Dividend Cover	Quality - High	2.28	-1.17	-0.48	-1.07	1.43	0.53	0.59	1.48	-0.15	-0.40
High PEG	Value - Low	-0.65	-0.06	-0.75	1.91	-0.24	1.02	-1.45	1.20	0.85	1.88
Low 6m Price Momentum	Momentum - Low	1.26	-3.87	-1.25	2.65	0.62	1.7	-3.87	0.99	-1.98	-1.49
Low Earnings Growth	Growth - Low	-0.23	-0.51	-0.93	1.89	-0.20	0.98	-1.66	0.97	-0.18	0.60
Low Earnings Momentum	Momentum - Low	0.85	-1.96	-1.94	2.30	-0.15	1.59	-3.04	0.61	-3.46	-1.03
Low PEG	Value - High	0.27	0.85	-0.68	-0.49	0.87	-0.25	0.44	0.56	-5.60	-1.28
High Earnings Momentum	Momentum - High	-0.78	2.72	0.48	-1.75	0.54	-0.63	2.41	0.52	4.72	2.03
Low 12m Price Momentum	Momentum - Low	0.04	-1.25	-3.06	2.55	0.54	1.58	-4.22	0.31	-4.64	-0.53
Large Cap	Size	-0.38	0.94	-0.24	-0.02	-0.05	-0.07	0.31	0.17	-0.33	0.39
Low Beta	Risk - Low	-1.87	4.40	1.63	-1.70	-1.42	-0.73	4.12	0.16	7.08	3.20
High Dividend Yield	Value - High	-0.86	-0.65	-0.96	1.64	0.26	0.59	-2.46	-0.01	-2.68	0.24
Low ROE	Quality - Low	-0.76	-0.18	-2.33	2.76	-0.29	0.71	-3.24	-0.15	-7.75	-1.75
High Earnings Growth	Growth - High	-0.01	1.14		-0.88	0.26	-0.60	0.59	-0.63	-4.55	-1.66
High Dividend Growth	Growth - High	1.66	-1.13		-1.33	-0.10	0.35	0.40	-0.69	-2.93	-1.07
High Capex / Depreciation	Quality - Low	0.29	-1.60	-0.71	0.43	0.02	0.82	-2.02	-0.77	-1.68	-0.15
Value Composite	Value - High	0.18	-2.95	-1.32	1.67	0.44	0.56				-3.49
High Book / Price	Value - High	-0.15	-2.54	-1.93	2.91	-0.37	0.24		-1.92	-9.09	-3.91
High Historical EPS Growth	Growth - High	2.33	-4.39	1.01	-1.70	1.35	-0.42	-1.17		-4.19	-4.62
High Earnings Yield	Value - High	1.19		-0.35	0.65	1.09	-0.78		-2.25	-8.28	-4.67
High Beta	Risk - High	2.72	-5.63	-1.61	1.75		-0.58		-2.30	-10.75	-6.79
High 1m Price Momentum	Momentum - High	-1.73	-0.55	-2.39	-0.67	0.30	0.02	-4.60	-4.94	-2.45	-4.55
0.00		4.64	12.09	6.53	5.52	8.42	4.35	10.55	19.42	20.35	20.72
	Key:	Top 5	Bottom 5								
	ney:	10p 5	ב וווטווס								

Figure 19: North America - style performance

				Month	nly				Cumula	ative	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	6-Month	1-Year	YTD
Small Cap	Size	2.39	0.01	-2.93	6.63	5.76	5.47	-0.60	18.23	6.70	14.6
Low 1m Price Momentum	Momentum - Low	2.62	1.04	0.63	1.46	0.54	-0.1	4.34	6.32	3.70	4.7
High Debt To EV	Quality - Low	-1.38	3.06	-1.60	1.79	1.09	2.39	0.01	5.36	2.56	8.8
Low 12m Price Momentum	Momentum - Low	1.74	-2.96	-0.44	1.44	1.90	2.23	-1.71	3.86	1.52	4.9
High Dividend Yield	Value - High	-1.18	2.26	-0.46	0.93	0.69	1.25	0.60	3.52	8.98	6.8
Low ROIC	Quality - Low	-1.14	1.49	-1.00	3.14	0.97	-0.17	-0.66	3.27	-0.62	2.7
Low Dividend Cover	Quality - Low	-3.14	4.84	-1.22	0.78	0.81	0.95	0.31	2.87	11.09	7.8
Low Earnings Growth	Growth - Low	-1.09	0.08	-0.27	1.90	1.23	1.02	-1.28	2.87	3.46	4.1
High Volatility	Risk - High	2.47	-2.57	-0.26	2.59	0.11	0.47	-0.42	2.75	-4.03	-1.
Low Historical EPS Growth	Growth - Low	-1.01	2.09	-0.57	1.23	0.80	0.15	0.48	2.70	6.65	4.3
Low Free Cashflow Yield	Value - Low	-1.86	2.41	-0.87	2.55	0.58	-0.39	-0.37	2.37	0.88	2.6
Low ROE	Quality - Low	-1.53	1.1€	-0.82	2.85	1.01	-0.49	-1.20	2.14	-0.41	1.9
High Book / Price	Value - High	-0.48	-0.32	-1.06	2.74	1.29	-0.07	-1.85	2.07	-0.87	2.1
Low Capex / Depreciation	Quality - High	0.25	-1.20	0.79	2.40	0.52	-0.70	-0.17	2.04	-0.50	-0.3
High Free Cashflow Yield	Value - High	1.47	-0.55	0.79	-1.70	-0.02	2.09	1.70	2.04	-0.89	2.0
Low Dividend Growth	Growth - Low	1.12	-0.53	-0.24	1.53	-0.49	0.52	0.34	1.90	-0.68	-0.2
Low Earnings Momentum	Momentum - Low	0.56	-1.62	-0.95	1.93	1.18	0.70	-2.01	1.77	-1.72	0.7
Low 6m Price Momentum	Momentum - Low	2.04	-3.58	0.01	1.36	0.51	1.50	-1.60	1.76	-2.40	1.0
High EBIT / EV	Value - High	1.31	-0.17	0.63	-2.44	0.26	2.08	1.78	1.61	-1.20	1.5
High PEG	Value - Low	-1.35	0.74	-1.10	1.63	0.95	0.66	-1.71	1.51	1.38	2.2
High Beta	Risk - High	1.19	-3.59	-0.59	3.09	1.81	-0.30	-3.01	1.48	-8.96	-3.2
Low Earnings Yield	Value - Low	-1.52	1.65	-0.76	2.34	0.28	-0.95	-0.66	0.99	0.51	0.6
Low EBIT / EV	Value - Low	-1.64	1.32	-0.86	2.40	0.32	-0.95	-1.19	0.54	0.33	-0.2
Value Composite	Value - High	0.90	-1.43	0.18	-0.40	0.93	0.34	-0.36	0.51	-0.78	0.1
High Sales Yield	Value - High	0.53	-0.69	-0.74	-2.39	1.27	2.51	-0.91	0.41	-3.70	-0.0
Low Volatility	Risk - Low	-2.31	3.10	-0.54	-0.45	-0.32	0.67	0.18	0.08	6.48	3.8
Low PEG	Value - High	1.74	-1.71	0.46	-0.04	-0.31	-0.35	0.46	-0.25	-5.77	-2.0
High Earnings Growth	Growth - High	0.83	-0.34	-0.02	0.18	-0.61	-0.45	0.48	-0.41	-4.26	-2.3
Low Beta	Risk - Low	-2.08	3.86	-0.60	-1.10	-1.42	0.98	1.09	-0.47	5.68	3.5
High 6m Price Momentum	Momentum - High	-1.47	3.47	0.20	-1.28	-0.51	-0.90	2.14	-0.59	0.93	0.4
High Earnings Momentum	Momentum - High	0.03	1.00	0.18	-0.56	-0.39	-0.90	1.21	-0.64	-0.58	0.6
Large Cap	Size	-0.29	0.14	-0.11	-0.14	-0.22	-0.12	-0.27	-0.74	-0.37	-0.4
High Dividend Growth	Growth - High	0.34	-1.13	0.26	-0.82	0.65	-0.09	-0.54	-0.82	-2.84	-1.
High Earnings Yield	Value - High	1.23	-2.53	0.11	-0.34	0.61	0.13	-1.23	-0.83	-6.79	-2.8
Low Debt To EV	Quality - High	2.06	-1.35	1.18	-2.77	-0.16	0.10	1.86		0.72	-2.8
Growth Composite	Value - Low	-1.20	1.00	-0.48	1.11		-0.54	-0.69	-1.02	-1.58	-1.6
High ROE	Quality - High	1.08	-0.49	0.12	-1.98	-0.19	0.33	0.71	-1.15	-1.40	-1.4
Low Sales Yield	Value - Low	-0.21	0.59	-0.14	0.46	-1.03	-0.93	0.24	-1.27	-2.23	-0.
High ROIC	Quality - High	0.95	-0.63	0.32	-1.82	-0.12	-0.10	0.64	-1.40	2.09	-1.7
Low Dividend Yield	Value - Low	1.4	-2.02	0.39	0.55	-1.17	-0.63	-0.25	-1.49	-6.20	-4.9
High Capex / Depreciation	Quality - Low	0.05	0.07	-0.70	-1.91	0.25	0.74	-0.58	-1.51	-2.24	-0.5
Low Book / Price	Value - Low	0.59	-0.17	0.26	-1.80	0.12	-0.58	0.68	-1.59	-1.24	-2.0
High 12m Price Momentum	Momentum - High	-0.73	2.52	0.50	-1.36	-0.72	-2.05	2.28	-1.91	-2.34	-1.9
High Dividend Cover	Quality - High	0.36	-3.04	0.39	-1.03	0.91	-0.31	-2.32	-2.74	-9.00	-5.4
High Historical EPS Growth	Growth - High	1.64	-2.32	0.53	-2.36	-0.34	-0.87	-0.21	-3.75	-8.75	-5.5
High 1m Price Momentum	Momentum - High	-2.45	-1.76	-0.71	-0.73	-0.11	0.71	-4.84	-4.98	-2.71	-2.9
man ini i nee momentani	womentum - riigh	-2.45	-1.70	-0.71	-0.73	-0.1	0.71	*4.04	*4.30	-2.11	-2.9
0.00		5.76	8.43	4.11	9.40	7 10	7.52	0.19	23.21	20.10	20.1
0.00		5.76	0.43	4.1	9.40	7.18	1.52	9.18	23.21	20.10	20.1
	Key:	Top 5	Bottom 5								

Figure 20: Japan - style performance

				Month	nly				Cumula	itive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	6-Month	1-Year	YTD
Low Earnings Yield	Value - Low	-2.62	3.72	-0.24	0.54	-0.74	4.85	0.76	5.42	8.12	7.30
Growth Composite	Value - Low	-2.23	3.00	0.37	0.30	-0.90	4.37	1.07	4.85	5.69	5.6
Low Book / Price	Value - Low	-2.83	2.92	0.19	0.64	-0.06	3.69	0.20	4.50	5.93	5.08
Low Dividend Yield	Value - Low	-2.15	2.21	1.49	0.27	-0.20	2.73	1.51	4.35	2.76	4.9
Low Beta	Risk - Low	-3.96	5.74	-0.19	-0.63	-1.18	4.68	1.36	4.20	11.52	8.48
Low Dividend Cover	Quality - Low	0.23	1.65	-1.59	-0.06	-0.25	4.25	0.25	4.19	8.63	6.79
High 6m Price Momentum	Momentum - High	-3.65	4.92	0.65	0.04	-0.10	2.38	1.75	4.10	6.58	6.79
Low 1m Price Momentum	Momentum - Low	3.52	-0.59	0.65	0.26	1.45	-1.24	3.58	4.04	4.35	1.4
Low EBIT / EV	Value - Low	-2.29	4.43	0.22	-0.43	-0.94	3.08	2.27	3.99	5.33	6.9
Small Cap	Size	2.61	-1.83	0.92	-0.22	1.46	0.84	1.67	3.79	11.48	4.4
High 12m Price Momentum	Momentum - High	-4.38	5.28	1.01	-0.02	0.29	1.28	1.69	3.27	3.89	4.9
Low Debt To EV	Quality - High	3.02	-0.05	0.81	-1.36	0.17	0.62	3.80	3.20	2.79	2.2
High Volatility	Risk - High	2.23	-2.95	0.98	1.06	1.18	0.47	0.19	2.94	0.36	0.6
Low Historical EPS Growth	Growth - Low	-0.55	0.15	-0.80	0.77	-0.08	3.02	-1.20	2.49	2.56	3.1
Low Capex / Depreciation	Quality - High	-0.81	1.00	-0.58	0.85	-0.02	1.75	-0.40	2.18	3.97	3.4
Low Earnings Momentum	Momentum - Low	4.10	-3.77	0.56	-0.63	1.36	0.67	0.73	2.13	-0.55	0.5
Low Free Cashflow Yield	Value - Low	-3.45	2.88	-0.22	0.65	-0.79	3.01	-0.89	1.95	1.32	2.3
Low Dividend Growth	Growth - Low	1.95	-0.58	-0.15	-0.03	-0.73	1.13	1.20	1.56	1.15	0.9
Low Sales Yield	Value - Low	-3.52	3.16	-0.83	0.16	-1.52	4.19	-1.29	1.45	2.86	3.0
High ROIC	Quality - High	0.63	2.00	-0.93	-0.61	0.62	-0.55	1.69	1.13	0.58	0.0
Low ROE	Quality - Low	0.05	-1.03	-0.66	1.21	0.07	0.95	-1.64	0.57	-0.90	-0.0
High ROE	Quality - High	0.12	0.64	0.01	-0.52	0.26	0.05	0.77	0.56	1.91	1.6
Low 12m Price Momentum	Momentum - Low	4.38	-4.52	0.08	-0.28	0.65	-0.06	-0.26	0.05	2.15	0.2
High Earnings Momentum	Momentum - High	-3.55	3.70	0.12	-0.25	-1.38	1.26	0.14	-0.25	1.66	1.9
High Earnings Growth	Growth - High	-1.56	0.04	-0.31	0.50	0.57	0.48	-1.83	-0.30	-0.28	-1.3
High PEG	Value - Low	1.90	-1.34	0.04	-0.85	-0.96	0.86	0.58	-0.38	-1.34	0.3
High Free Cashflow Yield	Value - High	0.96	-1.10	0.52	-0.64	1.17	-1.80	0.37	-0.92	1.83	-0.
Large Cap	Size	0.14	-0.34	-0.13	-0.27	-0.21	-0.18	-0.33	-0.99	-2.46	-1.4
Low 6m Price Momentum	Momentum - Low	5.00	-4.80	0.16	-0.20	0.87	-1.92	0.13	-1.14	-2.74	-3.4
High Dividend Cover	Quality - High	-0.28	-0.66	0.83	-0.12	0.03	-1.0 ⁻	-0.11	-1.22	-4.38	-2.9
High Capex / Depreciation	Quality - Low	1.05	-0.70	-0.39	-1.33	0.54	-0.44	-0.05	-1.29	-0.69	-1.
Low Earnings Growth	Growth - Low	2.1	-1.18	-0.09	-1.01	-1.05	-0.09	0.81	-1.35	-4.14	-1.7
High Historical EPS Growth	Growth - High	1.79	-0.95	0.03	-1.15	0.22	-1.30	0.86	-1.38	-1.45	-1.4
Low PEG	Value - High	0.28	-1.55	-0.45	0.90	0.70	-1.62	-1.72	-1.76	-1.71	-3.5
High Debt To EV	Quality - Low	-1.42	-0.23	-1.31	0.82	-0.41	0.72	-2.94	-1.84	-1.99	-1.3
High Dividend Growth	Growth - High	-2.45	0.51	0.28	-0.05	0.63	-1.26	-1.68	-2.36	-3.13	-2.4
High Dividend Yield	Value - High	2.55	-2.61	-0.57	-0.99	0.03	-0.86	-0.69	-2.48	-1.08	-2.2
High Sales Yield	Value - High	2.57	-2.47	0.69	-1.25	1.24	-3.34	0.74	-2.65	-3.83	-4.
Low Volatility	Risk - Low	-1.09	1.84	-1.27	-0.86	-1.39	-0.06	-0.55	-2.83	-1.83	-1.8
High 1m Price Momentum	Momentum - High	-3.09	-0.44	-0.30	-0.67	-1.89	3.51	-3.81	-2.97	-6.42	-0.8
High Beta	Risk - High	4.39	-4.96	0.40	-0.75	1.36	-3.85	-0.39	-3.65	-9.71	-7.0
High EBIT / EV	Value - High	4.18	-3.96	1.30	-1.88	0.54	-4.27	1.36		-2.69	-4.6
Low ROIC	Quality - Low	1.98	-3.09	0.23	-0.32	-0.29	-3.90	-0.94	-5.38	-7.33	-7.1
High Book / Price	Value - High	2.18	-4.23	-0.51	-0.36	0.64	-3.17	-2.65	-5.47	-9.80	-7.6
High Earnings Yield	Value - High	3.42	-4.85	0.87	-0.72	0.56	-4.64	-0.74	-5.50	-8.84	-7.5
Value Composite	Value - High	2.95	-4.53	0.03	-0.72	0.87	-4.46	-1.69	-5.80	-8.61	-7.6 -7.€
value composite	value - i ligit	2.33	-4.03	0.03	0.56	0.07	-4.40	-1.09	.5.00	0.01	-1.0
0.00		9.38	10.70	3.08	3.09	3.35	9.48	7.61	11.22	21.33	16.1
0.00		3.30	10.70	5.50	5.59	5.55	3.40	7.01	11.22.	21.00	10.1
	Key:	Top 5	Bottom 5								

Figure 21: Pacific Basin ex Japan - style performance

				Month	nly				Cumula	ative	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	3-Month	1-Year	YTD
High Free Cashflow Yield	Value - High	1.53	2.26	-0.21	-0.17	0.57	4.42	3.61	8.62	9.13	11.0
High Book / Price	Value - High	1.30	1.42	-2.05	0.79	1.61	3.22	0.64	6.38	4.31	6.90
Value Composite	Value - High	2.21	0.95	-0.85	0.18	1.76	1.69	2.31	6.05	4.83	6.31
Low 6m Price Momentum	Momentum - Low	0.45	-0.13	-1.25	1.79	1.18	3.27	-0.94	5.37	7.44	4.21
High EBIT / EV	Value - High	1.1	2.48	0.19	-3.10	1.47	3.07	3.81	5.21	5.77	7.76
High Debt To EV	Quality - Low	0.03	0.43	-3.60	3.34	0.41	4.53	-3.15	5.04	3.44	7.74
Low ROIC	Quality - Low	0.78	0.28	-3.03	3.14	-0.11	3.99	-2.00	4.99	1.60	6.13
High Earnings Yield	Value - High	1.52	0.62	0.06	-1.31	2.12	1.25	2.21	4.29	5.59	4.95
High Sales Yield	Value - High	2.22	1.23	-1.83	-1.44	1.12	2.82	1.58	4.11	9.84	7.47
Low ROE	Quality - Low	1.34	0.43	-3.37	2.51	0.03	3.20	-1.65	4.08	4.19	6.82
Low 1m Price Momentum	Momentum - Low	1.43	-0.67	0.79	0.05	0.61	1.34	1.55	3.60	5.02	5.4
High Beta	Risk - High	1.83	-0.55	-1.97	1.46	2.48	0.16	-0.73	3.38	-1.89	2.02
Low Earnings Momentum	Momentum - Low	0.41	-1.26	-1.53	1.27	1.30	3.23	-2.38	3.38	3.78	3.99
Low Capex / Depreciation	Quality - High	1.25	-0.42	-1.27	0.76	0.51	2.18	-0.45	3.01	-0.54	3.19
High Dividend Yield	Value - High	1.45	-0.65	0.01	0.67	0.12	1.23	0.80	2.85	2.06	3.34
High PEG	Value - Low	0.59	0.15	-1.90	1.29	-0.31	2.56	-1.17	2.36	0.89	3.00
Low Earnings Growth	Growth - Low	0.56	-0.04	-1.50	1.16	-0.05	2.23	-0.99	2.34	-0.09	3.00
High Earnings Growth	Growth - High	0.92	1.12	-0.82	1.02	-0.01	0.06	1.2	2.29	8.30	6.58
Low PEG	Value - High	0.90	1.02	-1.30	0.08	0.30	1.26	0.61	2.27	6.08	5.37
Low Volatility	Risk - Low	-0.14	0.80	0.43	-0.22	-1.91	3.18	1.09	2.08	2.73	5.58
Low Dividend Growth	Growth - Low	1.06	-0.84	-1.32	0.45	0.42	2.13	-1.1	1 1.88	-2.37	3.72
Low 12m Price Momentum	Momentum - Low	0.79	-1.25	-1.31	0.70	0.64	2.30	-1.78	1.82	-2.72	1.69
Large Cap	Size	0.78	0.52	-0.36	0.08	0.37	0.31	0.94	1.7	1.57	2.38
Low EBIT / EV	Value - Low	-0.48	0.07	-1.53	3.56	-1.37	1.49	-1.94	1.65	8.24	6.58
Low Debt To EV	Quality - High	0.31	2.69	0.95	-3.01	-0.50	1.26	3.99	1.62	8.22	5.71
High Dividend Growth	Growth - High	0.86	1.07	-0.63	-1.48	0.30	1.4	1.30	1.52	3.59	4.02
Low Dividend Cover	Quality - Low	1.02	-0.74	-0.94	1.19	-0.04	0.94	-0.67	1.43	2.31	2.51
High ROIC	Quality - High	0.71	0.82	0.85	-1.58	0.40	0.05	2.40	1.24	6.45	2.70
Low Sales Yield	Value - Low	-0.93	1.43	1.81	-1.78	-1.59	1.45	2.31	0.32	7.46	5.12
High Historical EPS Growth	Growth - High	0.53	0.23	1.86	-2.31	-1.42	1.45	2.63	0.27	4.94	3.38
High Earnings Momentum	Momentum - High	0.78	2.00	-0.41	-0.65	-1.29	-0.19	2.37	0.20	4.14	3.28
High ROE	Quality - High	0.00	0.39	1.69	-1.41	-1.38	0.87	2.09	0.13	7.27	3.90
Low Earnings Yield	Value - Low	-0.61	0.46	-0.97	2.04	-1.62	0.80	-1.13	0.05	2.34	3.93
High 6m Price Momentum	Momentum - High	0.91	1.13	0.27	-1.93	-1.65	0.82	2.32	-0.49	4.83	4.36
Low Historical EPS Growth	Growth - Low	0.44	-0.63	-3.54	1.11	0.17	1.97	-3.73	-0.57	-0.29	2.01
High 12m Price Momentum	Momentum - High	0.43	0.51	0.94	-0.69	-1.53	-0.33	1.89	-0.70	5.29	3.13
Low Beta	Risk - Low	-1.12	1.33	0.91	-0.89	-3.06	2.17	1.10	-0.76	6.43	4.64
Small Cap	Size	-0.32	-0.22	-1.16	0.19	-1.52	2.28	-1.69	-0.78	3.50	2.30
Low Dividend Yield	Value - Low	-0.08	1.57	-0.94	-0.48	-0.34	-0.62	0.53	-0.91	2.61	1.8
High 1m Price Momentum	Momentum - High	0.60	0.71	-1.55	-0.02	-2.25	1.38	-0.26	-1.17	0.32	0.65
High Dividend Cover	Quality - High	0.12	0.59	-1.38	-0.63	0.90	-0.86	-0.67	-1.27	2.82	1.55
High Volatility	Risk - High	0.32	-0.35	-2.48	1.13	-0.47	0.50	-2.52	-1.38	0.65	0.84
Low Book / Price	Value - Low	-0.71	0.42	1.51	-0.99	-2.50	0.83	1.21	-1.49	5.40	3.00
Growth Composite	Value - Low	-1.26	0.54	-0.50	1.44	-1.99	0.05	-1.22	-1.74	2.45	2.04
High Capex / Depreciation	Quality - Low	-0.53	-0.41	-0.30	-0.35	-0.56	-0.40	-1.24	-2.52	3.86	-0.37
Low Free Cashflow Yield	Value - Low	-1.35	0.01	-1.24	-0.86	-1.40	0.86	-2.57	-3.94	3.54	1.02
0.00		3.57	3.95	5.46	6.66	5.54	5.39	7.72	12.57	12.56	11.3
	Key:	Top 5	Bottom 5								

Figure 22: US Large Cap - style performance

	1			Month					Cumula		
	Type	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	3-Month	1-Year	Υ٦
Small Cap	Size	1.95	-1.64	-1.36	3.08	3.18	2.03	-1.10	7.32	-2.75	4
High Volatility	Risk - High	2.57	-2.32	0.73	4.57	2.06	-0.77	0.92	6.87	-1.38	
Low 1m Price Momentum	Momentum - Low	3.56	0.65	0.64	1.41	0.49	-0.12	4.90	6.78	5.83	4
Low Earnings Momentum	Momentum - Low	1.22	-2.59	-0.73	3.89	1.73	0.92	-2.12	4.39	0.71	2
High Debt To EV	Quality - Low	-1.25	3.03	-1.46	0.40	1.65	1.68	0.26	4.03	5.48	7
High Free Cashflow Yield	Value - High	1.49	-0.63	0.41	-1.62	0.80	2.43	1.27	2.87	1.38	
Low Earnings Growth	Growth - Low	-0.50	-0.02	-0.82	1.60	1.52	1.07	-1.34	2.86	3.94	4
High Earnings Dispersion	Quality - Low	-0.32	0.46	-0.73	3.40	1.11	-1.10	-0.59	2.79	-1.02	(
Low 12m Price Momentum	Momentum - Low	2.57	-3.83	-1.28	0.78	2.44	2.15	-2.62	2.69	-0.77	2
Low ROIC	Quality - Low	-1.67	2.39	-0.65	2.48	0.69	-0.70	0.02	2.49	1.13	
Low 6m Price Momentum	Momentum - Low	1.60	-3.91	0.45	0.99	1.82	1.48	-1.94	2.33	-1.91	(
Low Share Buyback	Value - Low	0.03	1.83	0.29	0.84	-0.15	-0.66	2.16	2.19	3.25	
Low Dividend Cover	Quality - Low	-3.18	4.97	-1.41	0.77	0.67	0.53	0.20	2.19	10.28	
High Dividend Yield	Value - High	-1.03	2.28	-0.44	0.11	0.04	1.20	0.78	2.13	7.45	
Low ROE	Quality - Low	-1.49	0.48	-1.16	3.43	1.46	-0.80	-2.17	1.84	-3.74	
High PEG	Value - Low	-1.43	1.05	-1.56	2.03	1.19	0.59	-1.95	1.82	2.86	
Low EPS LTG	Growth - Low	-1.22	1.36	-1.05	0.96	0.39	1.18	-0.94	1.59	4.38	
Low Dividend Growth	Growth - Low	2.10	-1.17	-0.32	0.47	0.70	-0.20	0.59	1.56	-1.95	
High EBIT / EV	Value - High	0.49	-0.01	-0.60	-2.18	1.20	2.63	-0.12	1.49	-1.46	
Low Asset Growth	Growth - Low	-1.73	1.90	-1.72	1.98	-0.19	0.99	-1.58	1.18	5.33	
High Beta	Risk - High	0.80	-3.78	-1.14	3.79	1.32	0.05	-4.12	0.88	-10.22	
Low EBIT / EV	Value - Low	-0.58	0.84	0.16	2.95	-0.84	-1.63	0.41	0.84	-0.37	
Value Composite	Value - High	0.10	-1.40	-0.12	0.47	1.52	0.26	-1.42	0.81	-3.30	
High Earnings Variability	Quality - Low	-0.29	0.03	-0.30	1.16	0.59	-0.44	-0.56	0.73	-1.63	
Low Free Cashflow Yield	Value - Low	-0.67	0.87	-0.28	1.69	-0.05	-0.82	-0.08	0.72	1.37	
High Sales Yield	Value - High	0.29	-0.42	-2.52	0.11	0.88	2.24	-2.64	0.53	-4.08	
Low Volatility	Risk - Low	-1.31	1.99	-0.46	-0.58	-0.32	1.23	0.19	0.51	5.47	
Low Earnings Variability	Quality - High	-0.10	0.10	0.15	-0.11	-0.70	1.1	1 0.15		4.80	
Low Earnings Dispersion	Quality - High	-1.21	1.71	-0.34	0.09	-0.89	1.1	1 0.13	0.43	1.04	
Low Earnings Yield	Value - Low	-1.18		-0.50	2.21	0.07	-1.57	-0.33	0.34	0.93	
High Book / Price	Value - High	-0.47	-1.55		2.94	1.23	-1.02		0.24	-2.53	
Low Accruals	Quality - High	0.30	0.56	-0.63	-1.06	0.07	0.66	0.23	-0.11	3.18	
High True Yield	Value - High	-0.45	-0.35	-0.20	-0.27	0.63	0.52	-1.00	-0.13	1.21	
Low Capex / Depreciation	Quality - High	0.64	-1.51	1.30	1.12		-1.10	0.40	-0.14	-3.84	
Low True Yield	Value - Low	0.77	-0.17	0.79	-0.04	-0.42	-1.29	1.39	-0.37	-1.51	
High 6m Price Momentum	Momentum - High	-1.43	3.21	0.32	-1.16		-0.85	2.06	-0.51	2.00	
High Earnings Yield	_	1.44	-2.74	0.19	-0.27	0.64	0.16	-1.15		-6.36	
	Value - High										
High Accruals	Quality - Low	-0.28	1.09 -1.17		0.37 -2.77	-0.52 -0.50	-1.49	0.89 3.00	-0.77 -0.82	-3.02 0.64	
Low Debt To EV	Quality - High	2.78					-0.47			-0.26	
High Capex / Depreciation	Quality - Low	-2.02	1.34	-1.68	0.76	0.27	0.53	-2.38	-0.84		
Low Beta	Risk - Low	-2.16	3.62	-0.55	-0.91	-1.42	0.64	0.83	-0.88	7.09	
Low Dividend Yield	Value - Low	2.34	-2.76	0.90	0.56	-0.89	-0.96	0.40	-0.90	-5.13	
High ROE	Quality - High	0.74	-0.44	0.04	-1.12		-0.06	0.34	-0.92	0.35	
High EPS LTG	Growth - High	0.42	-1.1(0.57	-0.54	-0.75	-0.22	-0.95	-4.81	
Large Cap	Size	-0.23	0.09	-0.01	-0.20	-0.33	-0.36	-0.15		-0.03	
High Share Buyback	Value - High	-0.01	-0.87	-0.55	-0.27	-0.07	0.70	-1.42		-2.85	
Low PEG	Value - High	1.11		0.41	-0.13	0.18	-0.76	-0.56	-1.26	-4.42	
Low Sales Yield	Value - Low	0.49	0.51	0.30	-0.18	-1.21	-1.21	1.31	-1.30	0.62	
High Asset Growth	Growth - High	1.37	-0.80	0.94	-2.43	0.22	-0.78	1.50		-5.27	
Growth Composite	Value - Low	0.49	0.03	0.18	-0.06	-0.79	-1.38	0.71	-1.53	0.54	
High Earnings Momentum	Momentum - High	-0.07	0.72	0.30	-0.72	-0.86	-1.10	0.95	-1.73	-1.39	
High Earnings Growth	Growth - High	0.52	-0.99	0.38	-0.30	0.08	-1.44	-0.09	-1.75	-4.54	
Low Book / Price	Value - Low	0.21	0.12	0.35	-1.99	-0.14	-0.60	0.68	-2.05	0.89	
High ROIC	Quality - High	1.03	-1.36	0.35	-2.37	0.03	0.14	0.01	-2.18	-0.21	
ligh 12m Price Momentum	Momentum - High	-0.61	2.33	0.47	-1.64	-0.86	-1.84	2.19	-2.19	-1.40	
High Dividend Growth	Growth - High	0.42	-1.32	0.51	-1.12	0.11	-0.85	-0.41	-2.25	-4.36	
High Dividend Cover	Quality - High	0.53	-3.19	0.11	-1.38	0.67	-0.05	-2.57	-3.33	-10.06	
High 1m Price Momentum	Momentum - High	-2.63	-2.03	-0.57	-0.57	-0.12	0.14	-5.16	-5.68	-2.18	
		6.74	8.88	3.92	7.33	4.60	4.48	10.06	13.00	20.49	
Spread (Best - Worst)											

Figure 23: Emerging Markets - style performance

				Montl	nly				Cumula	ative	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	3-Month	1-Year	YTD
High Beta	Risk - High	1.63	1.10	-0.93	1.41	3.62	-0.29	1.79	6.65	-2.37	2.2
High Book / Price	Value - High	1.07	1.23	-2.01	0.91	3.23	1.19	0.26	5.68	2.93	3.6
High Volatility	Risk - High	1.82	1.1	-3.59	2.32	3.39	0.06	-0.75	5.05	0.05	3.5
Low Capex / Depreciation	Quality - High	1.36	1.33	0.11	0.59	-0.12	1.02	2.82	4.37	4.36	5.0
Small Cap	Size	1.75	0.23	-0.44	1.21	0.93	0.24	1.53	3.97	5.57	6.4
High Dividend Yield	Value - High	0.49	1.55	-0.37	0.19	0.41	1.44	1.68	3.76	0.97	5.0
High EBIT / EV	Value - High	1.60	1.69	-0.28	-1.32	0.38	1.53	3.02	3.60	6.80	4.4
High Free Cashflow Yield	Value - High	0.76	2.40	0.80	-1.59	-0.24	1.35	4.01	3.49	8.22	5.2
Value Composite	Value - High	1.06	1.55	-1.86	0.11	1.57	0.93	0.72	3.37	1.50	2.6
Low 6m Price Momentum	Momentum - Low	-0.76	-0.37	-0.80	1.33	2.39	1.59	-1.93	3.36	0.30	-0.
Low 1m Price Momentum	Momentum - Low	-1.04	0.79	1.62	0.90	0.41	0.53	1.35	3.23	-0.23	2.4
Low ROIC	Quality - Low	0.65	-0.60	-3.34	2.45	1.61	2.44	-3.29	3.14	-1.14	1.0
Low Dividend Cover	Quality - Low	-0.38	1.66	0.27	0.37	-0.91	2.12	1.55	3.13	4.20	6.7
High Debt To EV	Quality - Low	0.34	-0.44	-3.82	2.47	1.88	2.67	-3.91	2.99	-0.13	3.5
Low PEG	Value - High	0.71	0.03	0.25	1.48	0.90	-0.62	1.00	2.78	0.28	0.9
Low 12m Price Momentum	Momentum - Low	1.20	-1.26	-2.55	1.30	3.01	1.02	-2.62	2.65	-0.29	1.2
High ROIC	Quality - High	0.31	0.63	2.62	-0.09	0.15	-0.99	3.59	2.62	7.33	4.
Low Historical EPS Growth	Growth - Low	0.91	1.03	-2.63	1.08	1.06	1.18	-0.73	2.61	1.67	3.4
Low Earnings Momentum	Momentum - Low	0.44	-0.09	-2.40	1.26	1.97	1.10	-2.06	2.24	2.61	1.3
High Earnings Yield	Value - High	0.78	0.87	-1.36	-0.43	2.08	0.21	0.27	2.13	3.18	0.8
Low ROE	Quality - Low	0.88	0.11	-3.31	0.25	2.13	1.22	-2.36	1.20	1.28	0.6
High Earnings Growth	Growth - High	0.67	-0.81	0.92	1.43	-0.11	-0.94	0.77	1.14	0.84	0.2
High Historical EPS Growth	Growth - High	0.24	-0.31	1.47	-0.74	0.41	-0.12	1.4	0.94	-0.13	-0.
High Sales Yield	Value - High	1.33	0.02	-1.25	-1.49	0.88	1.30	0.08	0.74	4.34	1.
High Dividend Growth	Growth - High	-0.36	0.48	1.30	-0.16	-0.24	-0.47	1.42	0.53	2.82	0.
High Earnings Momentum	Momentum - High	0.34	0.47	2.20	-1.51	-0.61	-0.51	3.02	0.33	3.82	2.
High PEG	Value - Low	-0.49	0.71	-1.53	0.26	0.14	0.98	-1.32	0.06	-0.90	-0.4
High 1m Price Momentum	Momentum - High	1.37	-0.34	-2.47	0.90	0.07	0.54	-1.46	0.03	3.10	0.2
Low Earnings Growth	Growth - Low	-0.54	0.32	-1.44	0.26	0.19	1.22	-1.66	-0.01	0.27	-0.:
Large Cap	Size	-0.26	0.34	0.20	-0.20	0.04	-0.28	0.28	-0.15	-0.73	-0.3
High ROE	Quality - High	-0.47	-0.29	2.86	-0.71	-0.90	-0.97	2.09	-0.52	0.44	0.8
High Dividend Cover	Quality - High	-0.29	-0.24	0.48	0.23	0.20	-1.2	-0.06	-0.84	3.58	-1.:
Low Free Cashflow Yield	Value - Low	0.10	-0.43	-2.26	1.46	1.01	-0.76	-2.58	-0.92	-2.52	-0.5
Low Debt To EV	Quality - High	0.16	0.21	3.02	-2.20	-0.69	-1.4	3.40	-0.98	5.23	-0.
Low Sales Yield	Value - Low	-0.67	-0.58	4.11	-1.12	-1.43	-1.37	2.81	-1.17	3.86	0.4
High Capex / Depreciation	Quality - Low	-1.20	-0.63	-0.48	0.31	0.84	-0.25	-2.29	-1.41	-3.70	-3.
High 6m Price Momentum	Momentum - High	0.01	1.60	0.85	-0.88	-2.16	-0.83	2.47	-1.44	-0.02	0.5
Low Volatility	Risk - Low	-0.76	-0.88	2.86	-1.29	-1.71	0.29	1.17		2.84	0.6
Low EBIT / EV	Value - Low	-0.65	-0.96	1.35	0.98	-1.49	-0.89	-0.28	-1.68	0.41	-2.:
Low Dividend Yield	Value - Low	0.09	-2.23	1.06	1.21	-0.82	-1.56			1.39	-3.0
Low Earnings Yield	Value - Low	-0.42	-1.71	1.09	0.87	-1.07	-1.14			-1.22	-1.
Low Dividend Growth	Growth - Low	-0.47	-1.31	-0.97	-0.28	-0.36	0.31	-2.73	-3.06	-7.34	-4.4
High 12m Price Momentum	Momentum - High	-1.45	-0.51	3.06	-0.50	-1.60	-2.01	1.05		-1.12	-1.
Growth Composite	Value - Low	-0.85	-1.05	2.11	-0.01	-1.37	-1.95			-1.45	-2.7
Low Book / Price	Value - Low	-1.22	-1.61	3.64	-0.77	-1.90	-2.1	0.73	-4.03	-2.00	-2.5
Low Beta	Risk - Low	-1.47	-0.14	1.35	-1.38	-3.46	0.67	-0.28	-4.43	0.20	-0.6
20 2014	25W		J			00	0.07	3.20	3	5.20	0.0
Spread (Best - Worst)		3.29	4.63	7.93	4.67	7.08	4.78	7.92	11.08	15.56	11
					,,	,,,					
	Key:	Top 5	Bottom 5								

Figure 24: Emerging Europe - style performance

				Month	ly				Cumula	tive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	3-Month	1-Year	YTD
Low 1m Price Momentum	Momentum - Low	-1.63	3.58	4.13	3.47	1.85	0.62	6.09	12.50	15.91	14.9
Low Capex / Depreciation	Quality - High	0.26	3.42	2.82	1.02	-1.26	-0.19	6.61	6.14	9.44	7.79
High 6m Price Momentum	Momentum - High	-0.08	3.15	3.31	1.59	-1.04	-1.98	6.47	4.93	15.66	6.40
High Volatility	Risk - High	2.09	1.83	0.72	1.19	1.79	-2.77	4.71	4.86	11.01	5.98
High Earnings Growth	Growth - High	-0.63	1.11	1.04	2.18	0.51	-0.24	1.51	4.00	6.70	3.1
High Dividend Growth	Growth - High	-0.69	1.41	0.94	1.22	1.10	-0.44	1.66	3.57	9.25	3.33
Low Beta	Risk - Low	3.13	1.48	-0.87	-0.42	-4.85	5.26	3.75	3.48	3.55	1.6
Low Earnings Momentum	Momentum - Low	-0.38	-0.32	-2.38	3.68	0.54	2.31	-3.06	3.39	-1.33	4.0
Low PEG	Value - High	-0.64	1.39	0.90	2.41	0.02	-0.78	1.64	3.30	8.02	3.66
Low ROIC	Quality - Low	0.45	-0.39	-2.48	2.22	1.03	2.49	-2.41	3.29	2.82	1.5
High 12m Price Momentum	Momentum - High	-1.41	1.21	4.59	0.55	0.09	-2.01	4.36	2.92	8.26	3.62
Small Cap	Size	3.11	-2.88	0.28	0.56	3.68	-1.85	0.42	2.76	0.09	4.69
High Earnings Yield	Value - High	-1.73	-0.88	-0.60	2.41	0.77	2.47	-3.17	2.39	8.16	3.77
High Dividend Cover	Quality - High	-2.28	1.17	2.01	1.55	-0.31	0.25	0.84	2.34	11.64	2.1
High ROIC	Quality - High	0.43	1.44	2.30	0.01	-0.05	-1.89	4.22	2.22	-1.43	4.50
High Dividend Yield	Value - High	0.54	1.55	-3.49	2.31	-0.48	1.18	-1.47	1.50	-3.86	3.73
Low Sales Yield	Value - Low	0.64	0.91	5.14	-2.30	-0.32	-2.54	6.78	1.35	3.01	-0.67
High Debt To EV	Quality - Low	-0.96	0.32	-3.77	4.63	-1.27	2.14	-4.39	0.87	8.04	5.79
High EBIT / EV	Value - High	-1.69	-0.06	-3.47	4.26	0.19	1.38	-5.16	0.43	7.65	4.23
High Free Cashflow Yield	Value - High	-0.27	2.68	-1.18	1.07	-1.73	-0.29	1.19	0.21	7.58	6.65
High ROE	Quality - High	0.52	0.98	4.66	-1.59	-0.66	-3.59	6.24	0.14	-2.36	-1.0
Low Book / Price	Value - Low	1.17	0.88	3.51	-1.56	-0.74	-3.04	5.63	0.07	-1.35	-2.07
High Beta	Risk - High	0.06	-2.26	0.52	2.14	0.97	-1.3	-1.69	0.06	-0.92	1.2
Low Dividend Yield	Value - Low	-1.44	-0.82	4.02	-1.44	0.91	-1.22	1.69	-0.09	5.28	-1.48
Value Composite	Value - High	-1.22	0.37	-4.05	2.11	0.75	2.07	-4.87	-0.1	3.53	2.34
High Historical EPS Growth	Growth - High	1.85	0.37	2.04	-2.59	1.06	-2.72	4.31	-0.12	-3.06	-1.30
Low ROE	Quality - Low	1.44	-1.89	-2.02	-0.62	1.75	1.22	-2.48	-0.19	0.10	1.1
Low Historical EPS Growth	Growth - Low	0.23	-0.95	-1.28	1.31	-1.20	1.58	-2.00	-0.36	2.70	1.2
High Sales Yield	Value - High	0.59	-0.36	-2.09	0.79	0.57	0.16	-1.86	-0.37	8.17	4.3
High Book / Price	Value - High	-1.97	-2.29	-2.51	1.97	2.56	1.60	-6.62	-0.79	2.44	0.67
Growth Composite	Value - Low	0.47	1.22	2.85	-3.61	0.25	-1.87	4.60	-0.82	-0.95	-3.47
Low EBIT / EV	Value - Low	0.99	1.99	3.37	-3.77	1.32	-4.47	6.48	-0.82	2.21	-3.87
Low Free Cashflow Yield	Value - Low	-0.15	-1.24	1.72	-0.43	1.35	-2.04	0.31	-0.84	2.99	-1.58
Large Cap	Size	-1.00	0.47	0.59	-0.41	-0.20	-0.42	0.05	-0.98	-0.32	-0.59
Low Debt To EV	Quality - High	0.58	0.72	5.58	-4.25	0.58	-3.89	6.96	-1.00	0.39	-1.1
Low Earnings Yield	Value - Low	0.88	0.28	1.85	-3.77	0.29	-2.08	3.03	-2.64	-1.48	-4.35
Low 6m Price Momentum	Momentum - Low	1.12	-2.27	-2.47	-0.86	0.86	0.69	-3.61	-2.96	-10.29	-5.19
Low Dividend Growth	Growth - Low	-0.65	-2.06	-0.36	-1.15	-1.25	1.84	-3.05	-3.62	-9.59	-5.27
High PEG	Value - Low	-1.34	-1.46	-0.27	-1.55	-0.67	1.64	-3.04	-3.63	-9.25	-3.96
Low Earnings Growth	Growth - Low	-2.00	-0.83	-0.25	-1.21	-1.16	1.74	-3.05	-3.69	-7.73	-3.36
Low 12m Price Momentum	Momentum - Low	2.68	-1.88	-4.11	-1.95	0.75	0.67	-3.39	-3.93	-14.29	-5.39
Low Dividend Cover	Quality - Low	-0.47	-1.07	-1.68	-0.36	-1.60	0.44	-3.19		-10.09	-4.72
Low Volatility	Risk - Low	-1.63	-3.27	-1.19	0.65	-2.31	2.87	-5.98	-4.90	-7.00	-6.65
High Earnings Momentum	Momentum - High	-1.19	-1.12	3.67	-3.04	-1.01	-2.68	1.29	-5.39	2.62	-5.84
High 1m Price Momentum	Momentum - High	3.64	-2.89	-3.63	-1.71	-1.55	0.07	-3.02	-6.09	-5.05	-7.25
High Capex / Depreciation	Quality - Low	-2.21	-3.62	-0.15	-0.64	0.43	-0.55	-5.90	-6.61	-6.71	-8.1
Spread (Best - Worst)		5.92	7.20	9.68	8.88	8.53	9.73	13.58	19.11	30.20	23.08

Figure 25: Emerging Asia - style performance

				Month	nly				Cumula	tive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month	6-Month	1-Year	YTD
High Free Cashflow Yield	Value - High	1.49	3.08	0.11	-1.05	0.66	2.13	4.73	6.53	11.27	8.3
High EBIT / EV	Value - High	1.99	2.12	0.02	-1.84	1.21	1.89	4.17	5.46	8.93	6.68
Low Capex / Depreciation	Quality - High	1.53	1.32	-0.26	0.51	0.55	1.37	2.60	5.12	5.20	6.2
Low PEG	Value - High	1.10	0.29	0.04	1.87	1.99	-0.65	1.43	4.70	1.87	1.4
High Sales Yield	Value - High	2.05	0.75	-1.92	-0.86	1.93	1.9	0.85	3.86	7.81	4.0
Low Dividend Cover	Quality - Low	-0.06	1.80	0.57	0.09	-1.66	3.06	2.32	3.79	5.00	8.3
Low 6m Price Momentum	Momentum - Low	-0.54	1.05	-0.28	1.63	0.52	1.29	0.22	3.70	3.24	-0.1
Value Composite	Value - High	1.54	1.64	-1.76	0.12	1.40	0.72	1.39	3.67	3.00	3.3
Low Historical EPS Growth	Growth - Low	0.68	1.61	-2.64	0.84	1.50	1.30	-0.39	3.27	3.07	4.6
High Beta	Risk - High	0.86	0.41	-0.12	0.17	2.55	-0.76	1.16	3.13	-5.02	-2.3
High Book / Price	Value - High	1.07	1.41	-2.21	0.24	2.11	0.51	0.23	3.12	1.24	1.0
High ROIC	Quality - High	0.48	0.43	2.46	-0.09	0.25	-0.72	3.39	2.80	9.35	4.8
Low Volatility	Risk - Low	0.08	0.74	1.76	-0.57	-0.02	0.72	2.59	2.72	5.99	5.5
High Debt To EV	Quality - Low	-0.12	-0.84	-2.78	1.69	1.72	2.86	-3.72	2.43	0.16	3.3
High Dividend Yield	Value - High	0.54	1.56	-0.28	-0.38	-0.74	1.62	1.82	2.31	0.38	3.7
High Earnings Momentum	Momentum - High	0.45	1.12	1.45	-0.60	-0.91	0.22	3.04	1.72	5.01	4.1
High Earnings Growth	Growth - High	1.02	-1.43	1.54	1.93	0.19	-1.56	1.1	1 1.65	2.39	0.1
High Earnings Yield	Value - High	1.42	1.08	-1.74	-0.76	2.07	-0.52	0.74	1.52	2.43	0.0
Low Debt To EV	Quality - High	0.51	0.52	1.38	-1.23	0.30	-0.25	2.43	1.22	6.99	2.2
High Dividend Cover	Quality - High	0.89	0.23	-0.11	0.33	1.48	-1.68	1.00	1.12	4.65	0.2
Small Cap	Size	0.86	0.32	-1.59	0.93	-0.12	0.71	-0.43	1.09	4.41	3.9
High 1m Price Momentum	Momentum - High	0.34	1.08	-1.18	-0.06	-0.69	1.30	0.22	0.77	3.77	1.
Low 12m Price Momentum	Momentum - Low	0.24	-0.21	-1.36	0.76	0.95	0.40	-1.33	0.77	1.64	-0.4
Low Earnings Momentum	Momentum - Low	0.22	-0.08	-2.16	0.56	1.30	0.95	-2.02	0.76	3.94	0.
Low Sales Yield	Value - Low	-0.86	-0.14	3.46	-0.61	-0.75	-0.33	2.43	0.71	5.81	2.9
High ROE	Quality - High	-0.40	-0.61	3.05	-0.41	-0.92	-0.17	2.02	0.48	3.94	2.3
Large Cap	Size	-0.10	0.44	0.29	-0.19	0.06	-0.16	0.63	0.34	-0.04	0.0
High Historical EPS Growth	Growth - High	-0.07	-0.72	1.78	-0.65	-0.35	0.21	0.98	0.19	1.19	-1.2
Low ROIC	Quality - Low	-0.11	-1.29	-3.08	1.62	0.93	2.12	-4.44	0.09	-3.36	-0.5
Low EBIT / EV	Value - Low	-1.18	-1.49	1.37	2.10	-1.26	0.22	-1.32	-0.30	-0.17	-0.8
High Dividend Growth	Growth - High	-0.04	-0.19	1.22	-0.53	-0.28	-0.57	0.99	-0.40	0.04	-1.3
Low ROE	Quality - Low	0.01	0.23	-3.45	-0.26	2.01	1.05	-3.22	-0.49	0.70	-0.8
Low 1m Price Momentum	Momentum - Low	-0.39	-1.83	0.49	0.71	0.73	-0.84	-1.74	-1.16	-4.66	-2.4
Low Beta	Risk - Low	-1.04	0.80	0.45	-0.33	-2.22	0.81	0.20	-1.55	1.37	3.2
High 6m Price Momentum	Momentum - High	-0.17	0.07	0.88	-1.10	-1.29	-0.10	0.78	-1.71	-2.92	0.3
High PEG	Value - Low	-0.97	0.12	-1.29	-0.46	-1.05	1.45	-2.13	-2.21	-3.11	-2.1
Growth Composite	Value - Low	-1.25	-1.53	2.20	1.28	-1.32	-1.66	-0.61	-2.32	-0.75	-1.6
Low Earnings Growth	Growth - Low	-0.86	-0.01	-1.30	-0.55	-0.91	1.26	-2.16	-2.36	-1.78	-1.8
High 12m Price Momentum	Momentum - High	-1.00	-0.33	2.06	-0.02	-1.10	-1.99	0.71	-2.40	-2.58	-1.2
Low Earnings Yield	Value - Low	-1.16	-2.11	1.82	1.63	-1.56	-1.10	-1.48	-2.52	-1.11	-1.3
Low Book / Price	Value - Low	-1.18	-1.93	3.59	-0.16	-1.50	-1.55	0.39	-2.80	-0.16	-0.9
Low Dividend Growth	Growth - Low	-0.71	-1.24	-1.08	0.14	-0.61	0.54	-3.00	-2.93	-6.20	-4.1
Low Dividend Yield	Value - Low	0.35	-2.68	0.93	1.69	-1.37	-2.21	-1.43		0.19	-4.1
High Capex / Depreciation	Quality - Low	-1.68	-0.42	-0.32	0.00	-0.42	-0.77	-2.41	-3.57	-5.51	-5.1
Low Free Cashflow Yield	Value - Low	-1.08	-1.30	-1.66	0.22	-0.27	-0.74	-3.98	-4.74	-5.19	-3.3
High Volatility	Risk - High	-0.21	-2.07	-2.50	-0.10	-0.09	-0.57	-4.71	-5.43	-7.82	-7.8
ingii voiatiilty	rtian - riigii	-0.21	2.07	2.50	-0.10	0.03	-0.37	-4.7	0.43	7.02	-1.0
Spread (Best - Worst)		3.73	5.76	7.04	3.94	4.77	5.27	9.44	11.97	19.09	16.2

Figure 26: Emerging Latin America - style performance

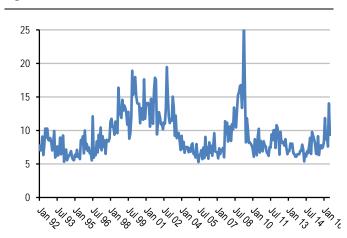
				Month	ly				Cumulat	ive	
	Туре	Jul-16	Jun-16	May-16	Apr-16	Mar-16	Feb-16	3-Month 3	-Month	1-Year	YTD
High Volatility	Risk - High	7.06	8.55	-6.32	6.11	14.36	4.80	8.87	38.45	11.00	31.50
Small Cap	Size	5.60	8.63	4.15	4.74	5.70	2.88	19.48	36.09	31.85	36.20
High Beta	Risk - High	6.87	7.68	-5.75	5.73	13.47	4.29	8.45	35.70	13.99	29.73
High Book / Price	Value - High	4.59	4.67	-4.02	4.41	11.51	5.94	5.07	29.60	9.45	23.49
Low ROIC	Quality - Low	4.36	2.39	-4.11	5.40	5.52	3.95	2.45	18.44	6.46	10.58
Low Earnings Growth	Growth - Low	2.32	2.86	-4.90	4.81	9.95	2.34	0.09	18.04	12.43	13.00
High PEG	Value - Low	2.59	3.61	-5.52	4.96	9.66	-0.47	0.43	15.05	15.12	11.2
High Capex / Depreciation	Quality - Low	2.32	2.43	-2.17	2.03	6.10	2.20	2.53	13.44	7.12	10.1
Low ROE	Quality - Low	4.65	2.13	-5.40	4.78	4.27	2.66	1.12	13.4	5.45	9.5
Low Free Cashflow Yield	Value - Low	4.73	3.83	-6.04	6.07	3.49	-0.34	2.17	11.77	-0.49	5.96
Low 12m Price Momentum	Momentum - Low	3.48	-5.98	-5.40	4.39	11.32	4.32	-7.95	11.58	-1.50	8.82
High Dividend Yield	Value - High	0.34	1.02	0.12	2.05	5.83	1.80	1.48	11.57	6.24	11.6
Value Composite	Value - High	1.01	3.07	-2.22	-0.44	5.83	3.15	1.80	10.64	-6.86	4.68
Low Earnings Momentum	Momentum - Low	2.16	-1.28	-3.37	2.67	7.91	1.36	-2.55	9.43	4.62	7.33
High 1m Price Momentum	Momentum - High	4.73	-4.00	-3.65	6.06	7.75	-3.37	-3.13	6.98	17.23	7.72
Low Dividend Cover	Quality - Low	-1.96	3.08	-1.71	4.17	3.95	-0.88	-0.66	6.62	15.37	9.53
High Earnings Yield	Value - High	0.26	1.73	-1.21	-1.36	4.57	2.30	0.75	6.31	1.26	4.76
High ROIC	Quality - High	-0.55	2.07	1.93	0.12	2.32	-0.55	3.48	5.41	4.81	8.50
Low 6m Price Momentum	Momentum - Low	-3.88	-6.42	0.11	1.85	10.37	2.63	-9.96	3.87	-5.13	0.30
High Historical EPS Growth	Growth - High	-0.31	0.27	1.25	-0.27	2.03	0.79	1.21	3.80	-1.51	3.91
Low Historical EPS Growth	Growth - Low	3.14	0.43	-5.52	2.90	2.16	0.89	-2.14	3.78	-4.64	0.5
High Debt To EV	Quality - Low	3.14	-1.44	-6.07	2.26	4.03	1.39	-4.51	2.99	-9.00	-2.42
High Dividend Growth	Growth - High	-1.51	1.18	4.04	-0.66	-2.51	0.31	3.69	0.72	9.98	1.66
Low 1m Price Momentum	Momentum - Low	-3.43	4.08	2.97	-4.38	-4.48	6.30	3.49	0.48	-6.70	-0.45
High EBIT / EV	Value - High	2.46	1.87	-2.97	-0.91	-1.94	1.69	1.27	0.07	-9.78	-3.18
High Earnings Momentum	Momentum - High	1.98	1.87	0.03	-2.84	0.17	-1.72	3.92	-0.60	-4.41	0.87
Low Dividend Yield	Value - Low	1.06	-1.49	0.08	1.47	-1.81	-0.27	-0.35	-0.99	4.67	-1.82
Low Capex / Depreciation	Quality - High	1.78	-1.40	-2.87	2.07	-1.92	1.19	-2.53	-1.27	-5.33	-2.43
Low Earnings Yield	Value - Low	1.33	-2.06	-1.59	2.55	-1.58	-0.91	-2.33	-2.32	2.24	-1.8
Large Cap	Size	-0.22	-0.36	-1.22	0.12	-0.02	-0.85	-1.79	-2.52	-5.49	-2.80
Low Dividend Growth	Growth - Low	0.94	-1.38	-2.18	-1.23	0.75	-1.19	-2.61	-4.24	-9.24	-5.67
High ROE	Quality - High	-2.17	-0.35	2.06	-1.86	-2.02	-2.16	-0.51	-6.39	-8.45	-4.30
High Earnings Growth	Growth - High	0.76	-1.73	2.79	-4.43	-4.76	-1.1	1.79	-8.45	-9.29	-8.09
High Free Cashflow Yield	Value - High	-2.77	-1.31	0.35	-3.60	-1.59	0.01	-3.70	-8.64	-11.68	-9.21
Low Debt To EV	Quality - High	-2.92	0.78	5.94	-1.76	-5.84	-4.78	3.65	-8.70	0.08	-5.70
Low PEG	Value - High	0.74	-2.73	2.09	-3.92	-4.20	-0.88	0.03	-8.73	-11.68	-8.52
High 6m Price Momentum	Momentum - High	1.36	6.69	-2.90	-1.83	-9.17	-3.40	5.01	-9.54	-6.68	-7.13
Low EBIT / EV	Value - Low	-0.18	-2.20	0.12	1.27	-7.94	-2.53	-2.26	-11.13	1.16	-10.0
Growth Composite	Value - Low	-0.97	-1.49	1.82	-1.66	-4.73	-4.57	-0.67	-11.19	-3.94	-8.89
Low Sales Yield	Value - Low	-1.07	-3.68	4.38	-0.29	-5.61	-5.52	-0.54	-11.56	-5.04	-8.66
High Sales Yield	Value - High	-1.90	-3.35	1.20	-5.69	-3.79	-0.45	-4.05	-13.33	-17.12	-15.03
High Dividend Cover	Quality - High	-4.05	-4.49	1.66	-2.70	-6.26	-0.50	-6.83	-15.45	-12.60	-14.23
High 12m Price Momentum	Momentum - High	-4.46	-3.10	5.70	-3.56	-7.91	-3.14	-2.15	-15.82	-7.11	-13.1
Low Book / Price	Value - Low	-4.44	-3.70	3.65	-2.52	-5.65	-4.66	-4.61	-16.36	-11.18	-13.39
Low Volatility	Risk - Low	-5.79	-7.93	6.06	-3.16	-9.60	-2.86	-8.01	-21.77	-8.79	-18.33
Low Beta	Risk - Low	-7.04	-6.64	5.70	-6.13	-8.15	-3.58	-8.26	-23.73	-11.20	-19.86
Spread (Best - Worst)		14.10	16.56	12.38	12.24	23.96	11.82	29.44	62.18	48.97	56.06
-p (2001 110101)			. 5.50	.2.00		_0.00			-22.10	12.07	
	Key:	Top 5	Bottom 5								

Cross-sectional Dispersion

The charts below show the cross-sectional dispersion of returns for five developed regions and the emerging markets. This is calculated as the simple, un-weighted standard deviation of the monthly returns of stocks in the relevant Dow Jones World Index (MSCI for EM). This data is available in the <u>UBS Market Statistics</u> file.

Figure 27: UK

Figure 28: North America



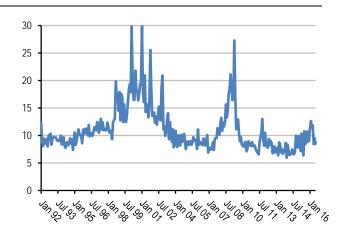
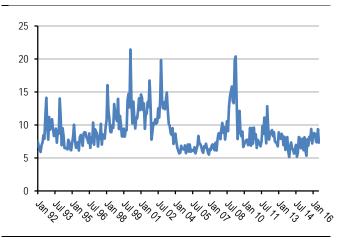


Figure 29: Europe ex UK

Figure 30: Japan



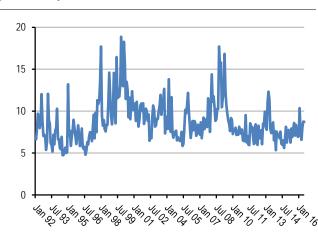
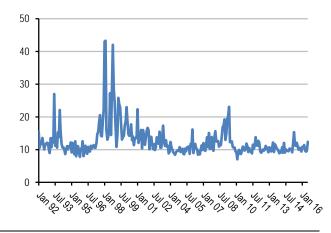
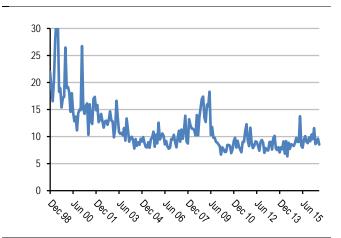


Figure 31: Pacific Basin ex Japan

Figure 32: Emerging

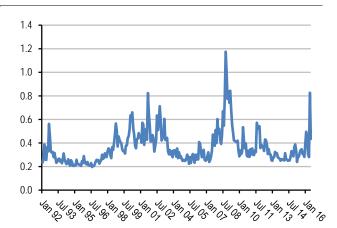




Average Volatility

The charts below show the average volatility for selected regions. This is calculated based on the daily returns in the month of the stocks in the relevant Dow Jones World Index (MSCI for EM). This data is available in the UBS Market Statistics file.

Figure 33: UK



141 02 0 041 05 0 041 06

Figure 34: North America

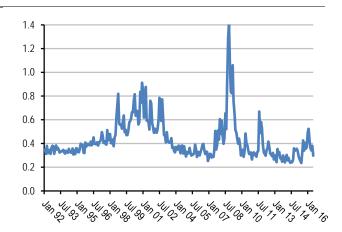


Figure 35: Europe ex UK

41 Jan 41 35 96 199

41 29 107

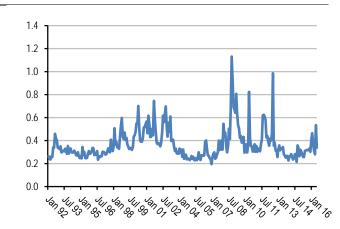


Figure 36: Japan

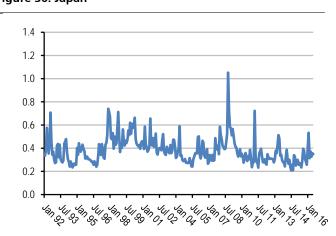


Figure 37: Pacific Basin ex Japan

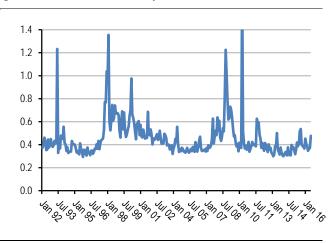
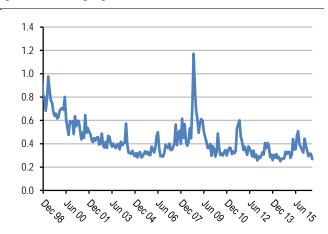


Figure 38: Emerging



Average Pair-wise Correlation

The charts below show the average pair-wise correction for selected regions. This is calculated based on the correlation of daily returns over the month of each pair of stocks in the relevant Dow Jones World Index (MSCI for EM). This data is available in the <u>UBS Market Statistics</u> file.

Figure 39: UK

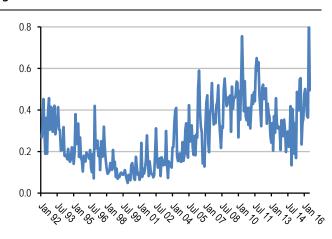


Figure 40: North America

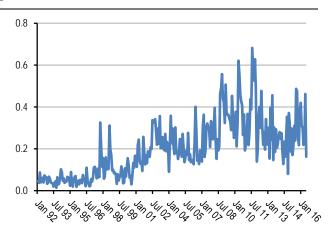


Figure 41: Europe ex UK

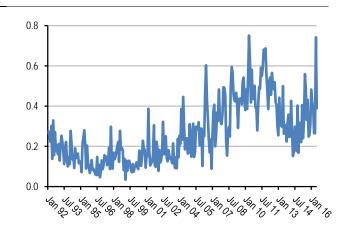


Figure 42: Japan

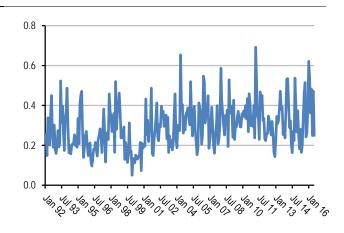


Figure 43: Pacific Basin ex Japan

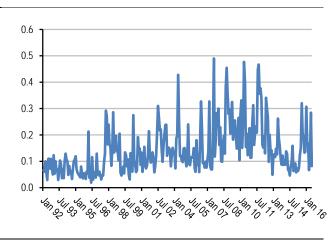
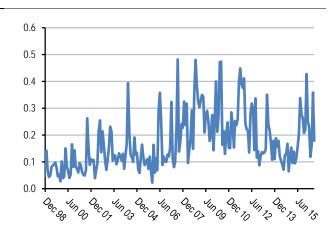


Figure 44: Emerging



Style Definitions

Style Basket Allocation

The stock sorting process assigns each stock as being in the high, medium or low basket for the style in relation to its peer group – generally a subset of the benchmark for the style 'product'. These subsets are generally based on size and region but may also be based on sector and region for our Industrial Classification Benchmark (ICB) sector-based styles.

For our 'Global' – developed markets - style product, stocks are categorised into large, medium or small market cap bands in each of six sub-regions: UK, Europe ex UK, North America, Latin America, Japan and Pacific Basin ex Japan (PBXJA). The thresholds for the size bands move with the relevant regional benchmark and were based at \$5.0bn or greater for large caps and less than \$1.5bn for Small Cap as at 31st December 1999. The equivalent values used for our 'Emerging Markets' styles are \$2.5bn or greater for large caps and less than \$1.25bn for Small Cap re-based from 31st December 2001. Different thresholds are used for our 'local' (Asia Pacific, UK, Japan, Australia, South Africa and US) style products. The current market cap thresholds for our developed and emerging markets' styles are shown in the 'Size Bands' section on page 34.

Stocks in each size:region peer group are then sorted by the relevant style factor value and allocated to 3 groups, the precise method depending on the style and the factor values to take account of null or extreme values etc. The stocks in each high, medium and low style baskets are then 'rolled-up' for each market cap band to give an 'All Cap' evaluation. Finally each of these regional groups is summarized over the regions to give a 'WORLD' view. Country and other Regional summaries are also possible. The sorting routine for our Global – developed markets' - product is summarised in the diagram below for the UK

produc	.t is sairiiriarisca	III CI	ic diagram below	/V 101	tile oit.		
UK =	Large cap	+	Medium Cap	+	Small Cap	=	All Cap
	=		=		=		=
	High	+	High	+	High	+	UK High
	+		+		+		+
	Medium	+	Medium	+	Medium	+	UK Medium
	+		+		+		+
	Low	+	Low	+	Low	+	UK Low

The process is repeated for the other five regions and the baskets are 'rolled-up' to build up a 'Global' set of stocks for, for example, World: Large Cap: High. These baskets are then used to calculate the style indices. This methodology is adopted to ensure that roughly the same proportion of the peer group is preserved over time in the large, medium and Small Cap baskets; though, of course, the proportions of these size baskets that fall into the high, medium and low style baskets may be more volatile. The process seeks to reduce any regional or size tilts. Also, with the exception of the 'size' style, this means there is generally no predetermined threshold to identify high, medium or low stocks in a style.

This sorting and style basket assignment process is repeated at each month-end.

Price and total (for some of our style products) return indices are calculated daily on a market cap weighted basis. In addition, we calculate indices on an equal weighted basis for our US style product.

Style Factor Value definitions

We currently maintain data for styles based on the following factors. Further factors are available for our US style product and on a bespoke basis for backtesting. Additional style factors are regularly assessed for future inclusion.

Style Factor	Data definition, sources and notes
Book / Price	The universe is ranked by the inverse of the P/BV multiple. Values are returned from the source cascade: HOUSE (12 months trailing time-weighted) then WLDSCOPE (latest actual). We 'cascade' through the sources until a style factor value is found then use that value.
Beta	Beta value of the stock calculated over 60 monthly returns. Null values are filled with country-sector or country returns. All values are adjusted for risk free rates.
Capex / Depreciation	The universe is ranked by the ratio Capital Expenditure to Depreciation. Values are obtained from the cascade: HOUSE (12 months forward time-weighted then 12 months trailing time-weighted) then WLDSCOPE (latest actual).
Debt /EV	The universe (excluding financials) is ranked by the ratio (core) Net Debt to EV (see below). Values are obtained from the cascade: HOUSE (12 months forward time-weighted then 12 months trailing time-weighted) then WLDSCOPE (latest actual).
Dividend Cover	The universe is ranked by the ratio EPS/DPS. Values are obtained from the cascade: HOUSE (12 months forward time-weighted), IBES (12 months forward time-weighted) WIRE (12 months trailing time-weighted), IBES (12 months trailing time-weighted) and finally WLDSCOPE (latest actual). Further test that DPS is non-zero.
Dividend Growth	The universe is ranked by the percentage change of the 12 months forward (time-weighted) DPS over the 12 months trailing (time-weighted) DPS. Values are obtained from the cascade: HOUSE then IBES. Test that the 12 months trailing (time-weighted) DPS is neither 'null' nor 0
Dividend Yield	The universe is ranked by the 12 months trailing dividend yield. Values are obtained from the cascade: HOUSE (12 months trailing time-weighted), IBES (12 months trailing time-weighted) then WLDSCOPE (latest actual).
EBIT Yield	The universe (excluding financials) is ranked by the ratio (core) EBIT to EV (see below). Values are obtained from the cascade: HOUSE (12 months forward time-weighted then 12 months trailing time-weighted) then WLDSCOPE (latest actual).
Historical EPS Growth	The universe is ranked by the ratio: (EPS (0-12 months trailing,) – EPS (60-72 months trailing)) / SUM (absolute(EPS) for 2 – 5 years trailing). Values are obtained from the cascade: HOUSE, IBES, WLDSCOPE, COMPUSTAT(for US) and EDS(for JP). Notes: 1) This method allows for any change of EPS sign between the two periods and distinguishes between patterns of growth between the end points. 2) The time-weighting process may result in very small values especially where the underlying data changes sign, potentially leading to extreme values of the ratio.

Forecast EPS Growth	The universe is ranked by the (absolute) percentage change of the 12 months forward (time-weighted) EPS over the 12 months trailing (time-weighted) EPS. Values are obtained from the cascade: HOUSE, then IBES. Notes: see Historical EPS Growth.
Earnings Momentum	The universe is ranked by the weighted average of the percentage changes in the 12 months forward forecast (time weighted) EPS as at the 'latest' month-end compared with the forecasts for the same period as available 1, 2 and 3 months ago. The revisions are weighted at 60%, 30% and 10% for 1, 2 and 3 months ago respectively. Values are obtained from IBES.
Earnings Yield	The universe is ranked by the inverse of the P/E multiple. Values are obtained from the cascade: HOUSE (12 months forward time-weighted) then IBES (12 months forward time-weighted).
Free Cash- flow Yield	The universe is ranked by the ratio free cash-flow / market capitalisation. Free cash-flow = trading profit + depreciation + net interest - tax charge - (abs) capex. Values are obtained from the cascade: HOUSE (12 months forward time-weighted then 12 months trailing time-weighted) then WLDSCOPE (latest actual). Additionally at each cascade level we test that each component has a value before accepting the resultant FCF.
Growth - Value Composite	The universe is ranked by a composite of rank scores of the Book / Price, Dividend Yield, EBIT Yield and Earnings Yield factors, plus supplementary tests on Sales Yield, for extreme values and to 'interpret' the factor values.
Market Capitalisation	These baskets are split up according to the market capitalisation thresholds used for each style product. The thresholds are generally adjusted monthly in line with market movements. Our South Africa and US style products preserve a number of stocks in the size baskets. The Asia ex Japan style product maintains stocks to a weight threshold in the size baskets.
PEG	The universe is ranked by 1/PEG = Earnings Yield * Forecast EPS Growth (see above). There is also a check that where both components of the PEG are less than zero then a low value (-9999) is set.
RoE	The universe is ranked by Return on Equity, RoE = Earnings Yield / (Book / Price) (see above). There is also a check that where both components of the RoE are less than zero a low value (-9999) is set.
ROIC	The universe is ranked by Return on Invested Capital (RoIC) = EBIT/ invested capital (non-financials) or PBT/ shareholders' funds (financials). Values are obtained from the cascade: HOUSE (12 months forward time-weighted then 12months trailing time-weighted) then WLDSCOPE (latest actual). There is also a check that both components of the ratio are positive.
12 Month Price Momentum	The universe is ranked by the -12 months to -1 month (adjusted – local currency) price return, for the 'current' month end.

Medium- Term Price Momentum	The universe is ranked by the -7 months to -1 month (adjusted – local currency) price return, for the 'current' month end.
Short-Term Price Momentum	The universe is ranked on the monthly (adjusted – local currency) price return, for the 'current' month end.
Sales Yield	The universe (excluding financials) is ranked by the ratio (core) Sales to EV (see below). Values are obtained from the cascade: House (12 months forward time-weighted then 12 months trailing time-weighted) then WLDSCOPE (latest actual).
Volatility	Volatility is based on the sum of the squares of the daily price returns in US\$ of the stock over the preceding 12 months. If a stock doesn't have 12 months of daily returns history it will be in the medium basket
Enterprise Value	House: Market Cap + (Core) Net Debt + Pensions Provisions + Minority Buy-outs - Peripheral Assets (UBS House), or WLDSCOPE: Market Cap + Short-term Debt + Long-term Debt Excluding Leases - Cash & Short Term Investments + Minority Interest. Additionally we test that the EV is greater than 10% of the Market Cap before accepting results at any level of the cascade.

Sector-neutral, equal weighted styles (page 10).

For these equally weighted, sector-neutral factors the performance is shown on a long/short basis. Our US universe is composed of the largest 1000 companies according to the Centre for Research on Security Prices (CRSP) and in Europe we use the constituents of the Dow Jones Global Index as our starting point and select the largest 500 stocks. The five composite factors shown are:

Value (Forward and Trailing) the composite value score of each company is calculated using the earnings yield, the dividend yield and the book to price factor scores. We track the returns of two value composites, one based on 1-year trailing data and the other using 12 months forecast earnings and dividend yields.

Growth is the equal weighted combination of the 1 year trailing and the 12 months' forward earnings growth rates.

Momentum is based on the 12-month price momentum and the 3-month earnings revisions scores.

Quality is based on the gross profit margin, the return on invested capital and the 12 months volatility scores.

Composite V + Q + M is a naïve approximation of what many quantitative equity investors do. It is a composite score based on the Value (trailing), Quality and Momentum composites above.

US style returns (page 22)

We also include a table of returns for our US styles (Figure 22) which are based on the 1000 largest stocks in the US - the top 3000 is also available. This table includes some factors that are not in our other style products. For each factor:

Factor	Data definition, sources and notes
Asset Growth	Change in total assets (%) over the 'latest' year, values from COMPUSTAT
Earnings Dispersion	Standard deviation of the EPS forecast divided by its mean, values from IBES.
Earnings Variability	Standard deviation of the EPS / average over the 'latest' five years, values from COMPUSTAT.
EPS Long- term Growth	EPS long-term growth forecast, values from IBES
Share Buybacks	Change in adjusted shares (%) annualised over 'latest' three years, values from CRSP.
True Yield	Dividend yield + share buybacks (above).

Style data

The style indices are available on our web site and constituent lists are available on request. Further details of these factors are available on request.

Market Cap Size bands

Mid cap defined as Market Cap between (\$m) as at 29th July 2016:

Figure 45: Cap Size Thresholds

Developed Markets (Dow Jones Global Indices based)	
UK	1365.15 and 4550.52
Europe Ex UK	1680.86 and 5602.86
North America	2405.01 and 8016.69
Latin America	3311.10 and 11037.0
Japan	1254.92 and 4183.06
Asia-Pacific Ex Japan	2722.84 and 9076.13
World	1965.79 and 6552.64
Emerging Markets (MSCI based)	
Latin America	3411.68 and 6823.36
Europe	2922.82 and 5845.64
Asia	3557.49 and 7114.98
Emerging World	3439.95 and 6879.89

UBS Equity Quantitative Research

Team

UK – London		Hong Kong	
Nick Baltas	+44-20-7568 3072	Josh Holcroft	+852-2971 7705
Maylan Cheung	+44-20-7568 4477	Shanle Wu	+852-2971 7513
Ian Francis	+44-20-7568 1872		
Josie Gerken	+44-20-7568 3560	Australia– Sydr	пеу
Simon Iley	+44-20-7568 6327	Oliver Antrobus	+61-3-9242 6467
David Jessop	+44-20-7567 9882	Luke Brown	+61-2-9324 3620
Claire Jones	+44-20-7568 1873	Pieter Stoltz	+61-2-9324 3779
Manoj Kothari	+44-20-7568 1997	Paul Winter	+61-2-9324 2080
Simon Stoye	+44-20-7568 1876		
Christine Vargas	+44-20-7568 2409		

Research Publications

Monographs, Keys and Q-Series		Academic Research Monitor	
Title	Date	Торіс	Date
Follow the smart money	Jul-16	Portfolio Construction and Overfitting	Jun-16
How can supply chains improve earnings visibility?	Jul-16	UBS Equity Markets Conference	May-16
Where are the attractive dividend paying stocks?	Mar-16	European Quantitative Conference 2015 Highlights	Apr-16
Why does increasing volatility matter?	Feb-16	Does Oil matter for Equity Markets?	Mar-16
What crowded positions are bubbling up in equity markets	Feb-16	Low Risk Investing	Feb-16
What happened to Value, and when will it return?	Jan-16	Value Investing	Dec-15
Who benefits from automation?	Nov-15	Analyst Forecasts and Measuring Distance	Nov-15
The Spectre of Equity-Bond allocation	Nov-15	UBS Market Microstructure Conference	Oct-15
Dynamic Asset Allocation	Nov-15	Equity Risk Premium Forecasting and Market Timing	Sep-15
How will demographics shape investing for the next ten years?	Nov-15	Behavioural Investing Patterns	Jul-15
Surfing the macro wave	Sep-15	Quality and Size Investing	May-15
Why blame Risk-parity and CTAs?	Sep-15	European Quantitative Conference 2015 Highlights	Apr-15
Bonds are better: asset allocation in target dated funds	Sep-15	Smart Beta, Factors and Style Investing	Feb-15
Low-Risk Investing: perhaps not everywhere	Jul-15	Momentum-Investing	Jan-15
Cost efficient trading with time varying alphas	Jul-15	Investment Strategies & Textual Analysis Signals	Dec-14
The Madness of Crowds	Jul-15	Commodity Risk & Institutional Investing Habits	Nov-14
Lessons from Behavioural Finance	Jul-15	Index Membership, Investor (in)attention to News & Spurious Correlations	Sep-14
A Closer look at the Trend Factor	Jun-15	Forecasting the Equity Risk Premium	Aug-14
Understanding Size Investing	Jun-15	Implied Cost of Capital & Shorting Premium	Jun-14
Safe Dividends in Times of Financial Repression	Jun-14	European Quantitative Conference 2014 Highlights	May-14
Costs as a Style Factor	Apr-15	Trend Following	Mar-14
Cross-Asset Seasonality	Mar-15	Factor investing & Quality	Feb-14
Extending our quality model to financials	Mar-15	Quality & Gross Profitability	Jan-14
Where are the crowded trades?	Jan-15	Minimum variance: valuation, concentration and exchange rates	Dec-13
Stock Selection using Machine Learning	Jan-15	Liquidity & back test overfitting	Oct-13
Investing in Growth	Jan-15	News and its effect on asset prices	Sep-13
Harvesting Cross-Asset Value	Dec-14	Asset pricing & skewness	Aug-13
How to avoid 'Torpedoes'	Nov-14	Timing momentum & risk parity	Jul-13
PAS User Guides			
Ouick Reference Guide	Nov-15	Advanced Analysis	Oct-12
Risk Parity and Composite Assets	Jan-15	PAS Macros	Feb-16
Introduction to the UBS Portfolio Analysis System	Jan-15	Risk Models	Nov-11
Long-Short Analysis	Jan-15	UBS Hybrid Risk Model	Dec-10
<u>Installation</u>	May-14	Quick Portfolio Analysis	Jul-10
Reports	Apr-14	Portfolio Analysis	Jun-10
Risk Parity	Feb-13	Optimisation with PAS	Jun-10

Valuation Method and Risk Statement

This analysis is based on quantitative techniques, the outcomes of which may or may not vary from the underlying analyst's views on the stock.

The results of this analysis do not constitute recommendations in themselves, but illustrate the potential outcomes from a given quantitative approach.

Factor based quantitative techniques depend on statistical and other analysis and do/do not necessarily reflect underlying market/economic fundamentals.

Our quantitative techniques rely on reported and forecast financial statement information and stock prices amongst other factors. Errors in these numbers are sometime impossible to prevent.

Required Disclosures

This report has been prepared by UBS Limited, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS.

For information on the ways in which UBS manages conflicts and maintains independence of its research product; historical performance information; and certain additional disclosures concerning UBS research recommendations, please visit www.ubs.com/disclosures. The figures contained in performance charts refer to the past; past performance is not a reliable indicator of future results. Additional information will be made available upon request. UBS Securities Co. Limited is licensed to conduct securities investment consultancy businesses by the China Securities Regulatory Commission. UBS acts or may act as principal in the debt securities (or in related derivatives) that may be the subject of this report. This recommendation was finalized on: 02 August 2016 10:04 AM GMT.

Analyst Certification: Each research analyst primarily responsible for the content of this research report, in whole or in part, certifies that with respect to each security or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about those securities or issuers and were prepared in an independent manner, including with respect to UBS, and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in the research report.

UBS Investment Research: Global Equity Rating Definitions

12-Month Rating	Definition	Coverage ¹	IB Services ²
Buy	FSR is > 6% above the MRA.	47%	32%
Neutral	FSR is between -6% and 6% of the MRA.	38%	25%
Sell	FSR is > 6% below the MRA.	15%	21%
Short-Term Rating	D-f::4:	_	
Short-Term Rating	Definition	Coverage ³	IB Services ⁴
Buy	Stock price expected to rise within three months from the time the rating was assigned because of a specific catalyst or event.	Coverage ³	IB Services ⁴

Source: UBS. Rating allocations are as of 30 June 2016.

- 1:Percentage of companies under coverage globally within the 12-month rating category.
- 2:Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.
- 3: Percentage of companies under coverage globally within the Short-Term rating category.
- 4:Percentage of companies within the Short-Term rating category for which investment banking (IB) services were provided within the past 12 months.

KEY DEFINITIONS: Forecast Stock Return (FSR) is defined as expected percentage price appreciation plus gross dividend yield over the next 12 months. **Market Return Assumption (MRA)** is defined as the one-year local market interest rate plus 5% (a proxy for, and not a forecast of, the equity risk premium). **Under Review (UR)** Stocks may be flagged as UR by the analyst, indicating that the stock's price target and/or rating are subject to possible change in the near term, usually in response to an event that may affect the investment case or valuation. **Short-Term Ratings** reflect the expected nearterm (up to three months) performance of the stock and do not reflect any change in the fundamental view or investment case. **Equity Price Targets** have an investment horizon of 12 months.

EXCEPTIONS AND SPECIAL CASES: UK and European Investment Fund ratings and definitions are: Buy: Positive on factors such as structure, management, performance record, discount; **Neutral:** Neutral on factors such as structure, management, performance record, discount; **Sell:** Negative on factors such as structure, management, performance record, discount. **Core Banding Exceptions (CBE):** Exceptions to the standard +/-6% bands may be granted by the Investment Review Committee (IRC). Factors considered by the IRC include the stock's volatility and the credit spread of the respective company's debt. As a result, stocks deemed to be very high or low risk may be subject to higher or lower bands as they relate to the rating. When such exceptions apply, they will be identified in the Company Disclosures table in the relevant research piece.

Research analysts contributing to this report who are employed by any non-US affiliate of UBS Securities LLC are not registered/qualified as research analysts with FINRA. Such analysts may not be associated persons of UBS Securities LLC and therefore are not subject to the FINRA restrictions on communications with a subject company, public appearances, and trading securities held by a research analyst account. The name of each affiliate and analyst employed by that affiliate contributing to this report, if any, follows.

UBS Limited: Simon lley; David Jessop; Claire Jones, CFA. UBS AG Hong Kong Branch: Shanle Wu, PhD.

Unless otherwise indicated, please refer to the Valuation and Risk sections within the body of this report. For a complete set of disclosure statements associated with the companies discussed in this report, including information on valuation and risk, please contact UBS Securities LLC, 1285 Avenue of Americas, New York, NY 10019, USA, Attention: Investment Research.

Global Disclaimer

This document has been prepared by UBS Limited, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates are referred to herein as UBS.

Global Research is provided to our clients through UBS Neo and, in certain instances, UBS.com (each a "System"). It may also be made available through third party vendors and distributed by UBS and/or third parties via e-mail or alternative electronic means. The level and types of services provided by Global Research to a client may vary depending upon various factors such as a client's individual preferences as to the frequency and manner of receiving communications, a client's risk profile and investment focus and perspective (e.g., market wide, sector specific, long-term, short-term, etc.), the size and scope of the overall client relationship with UBS and legal and regulatory constraints.

All Global Research is available on UBS Neo. Please contact your UBS sales representative if you wish to discuss your access to UBS Neo.

When you receive Global Research through a System, your access and/or use of such Global Research is subject to this Global Research Disclaimer and to the terms of use governing the applicable System.

When you receive Global Research via a third party vendor, e-mail or other electronic means, your use shall be subject to this Global Research Disclaimer and to UBS's Terms of Use/Disclaimer (http://www.ubs.com/global/en/legalinfo2/disclaimer.html). By accessing and/or using Global Research in this manner, you are indicating that you have read and agree to be bound by our Terms of Use/Disclaimer. In addition, you consent to UBS processing your personal data and using cookies in accordance with our Privacy Statement (http://www.ubs.com/global/en/legalinfo2/privacy.html) and cookie notice (http://www.ubs.com/global/en/homepage/cookies/cookie-management.html).

If you receive Global Research, whether through a System or by any other means, you agree that you shall not copy, revise, amend, create a derivative work, transfer to any third party, or in any way commercially exploit any UBS research provided via Global Research or otherwise, and that you shall not extract data from any research or estimates provided to you via Global Research or otherwise, without the prior written consent of UBS.

This document is for distribution only as may be permitted by law. It is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject UBS to any registration or licensing requirement within such jurisdiction. It is published solely for information purposes; it is not an advertisement nor is a solicitation or an offer to buy or sell any financial instruments or to participate in any particular trading strategy. No representation or warranty, either expressed or implied, is provided in relation to the accuracy, completeness or reliability of the information contained in this document ("the Information"), except with respect to Information concerning UBS. The Information is not intended to be a complete statement or summary of the securities, markets or developments referred to in the document. UBS does not undertake to update or keep current the Information. Any opinions expressed in this document may change without notice and may differ or be contrary to opinions expressed by other business areas or groups of UBS. Any statements contained in this report attributed to a third party represent UBS's interpretation of the data, information and/or opinions provided by that third party either publicly or through a subscription service, and such use and interpretation have not been reviewed by the third party.

Nothing in this document constitutes a representation that any investment strategy or recommendation is suitable or appropriate to an investor's individual circumstances or otherwise constitutes a personal recommendation. Investments involve risks, and investors should exercise prudence and their own judgement in making their investment decisions. The financial instruments described in the document may not be eligible for sale in all jurisdictions or to certain categories of investors. Options, derivative products and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backet securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates or other market conditions. Foreign currency rates of exchange may adversely affect the value, price or income of any security or related instrument referred to in the document. For investment advice, trade execution or other enquiries, clients should contact their local sales representative.

The value of any investment or income may go down as well as up, and investors may not get back the full (or any) amount invested. Past performance is not necessarily a guide to future performance. Neither UBS nor any of its directors, employees or agents accepts any liability for any loss (including investment loss) or damage arising out of the use of all or any of the Information.

Any prices stated in this document are for information purposes only and do not represent valuations for individual securities or other financial instruments. There is no representation that any transaction can or could have been effected at those prices, and any prices do not necessarily reflect UBS's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by UBS or any other source may yield substantially different results.

This document and the Information are produced by UBS as part of its research function and are provided to you solely for general background information. UBS has no regard to the specific investment objectives, financial situation or particular needs of any specific recipient. In no circumstances may this document or any of the Information be used for any of the following purposes:

- (i) valuation or accounting purposes;
- (ii) to determine the amounts due or payable, the price or the value of any financial instrument or financial contract; or
- (iii) to measure the performance of any financial instrument.

By receiving this document and the Information you will be deemed to represent and warrant to UBS that you will not use this document or any of the Information for any of the above purposes or otherwise rely upon this document or any of the Information.

UBS has policies and procedures, which include, without limitation, independence policies and permanent information barriers, that are intended, and upon which UBS relies, to manage potential conflicts of interest and control the flow of information within divisions of UBS and among its subsidiaries, branches and affiliates. For further information on the ways in which UBS manages conflicts and maintains independence of its research products, historical performance information and certain additional disclosures concerning UBS research recommendations, please visit www.ubs.com/disclosures.

Research will initiate, update and cease coverage solely at the discretion of UBS Investment Bank Research Management, which will also have sole discretion on the timing and frequency of any published research product. The analysis contained in this document is based on numerous assumptions. All material information in relation to published research reports, such as valuation methodology, risk statements, underlying assumptions (including sensitivity analysis of those assumptions), ratings history etc. as required by the Market Abuse Regulation, can be found on NEO. Different assumptions could result in materially different results.

The analyst(s) responsible for the preparation of this document may interact with trading desk personnel, sales personnel and other parties for the purpose of gathering, applying and interpreting market information. UBS relies on information barriers to control the flow of information contained in one or more areas within UBS into other areas, units, groups or affiliates of UBS. The compensation of the analyst who prepared this document is determined exclusively by research management and senior management (not including investment banking). Analyst compensation is not based on investment banking revenues; however, compensation may relate to the revenues of UBS Investment Bank as a whole, of which investment banking, sales and trading are a part, and UBS's subsidiaries, branches and affiliates as a whole.

For financial instruments admitted to trading on an EU regulated market: UBS AG, its affiliates or subsidiaries (excluding UBS Securities LLC) acts as a market maker or liquidity provider (in accordance with the interpretation of these terms in the UK) in the financial instruments of the issuer save that where the activity of liquidity provider is carried out in accordance with the definition given to it by the laws and regulations of any other EU jurisdictions, such information is separately disclosed in this document. For financial instruments admitted to trading on a non-EU regulated market: UBS may act as a market maker save that where this activity is carried out in the US in accordance with the definition given to it by the relevant laws and regulations, such activity will be specifically disclosed in this document. UBS may have issued a warrant the value of which is based on one or more of the financial instruments referred to in the document. UBS and its affiliates and employees may have long or short positions, trade as principal and buy and sell in instruments or derivatives identified herein; such transactions or positions may be inconsistent with the opinions expressed in this document.

United Kingdom and the rest of Europe: Except as otherwise specified herein, this material is distributed by UBS Limited to persons who are eligible counterparties or professional clients. UBS Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. France: Prepared by UBS Limited and distributed by UBS Limited and UBS Securities France S.A. UBS Securities France S.A. is regulated by the ACPR (Autorité de Contrôle Prudentiel et de Résolution) and the Autorité des Marchés Financiers (AMF). Where an analyst of UBS Securities France S.A. has contributed to this document, the document is also deemed to have been prepared by UBS Securities France S.A. Germany: Prepared by UBS Limited and distributed by UBS Deutschland AG. UBS Deutschland AG is regulated by the Bundesanstalt fur Finanzdienstleistungsaufsicht (BaFin). Spain: Prepared by UBS Limited and distributed by UBS Limited and UBS Securities España SV, SA. UBS Securities España SV, SA is regulated by the Comisión Nacional del Mercado de Valores (CNMV). Turkey:

Distributed by UBS Limited. No information in this document is provided for the purpose of offering, marketing and sale by any means of any capital market instruments and services in the Republic of Turkey. Therefore, this document may not be considered as an offer made or to be made to residents of the Republic of Turkey. UBS AG is not licensed by the Turkish Capital Market Board under the provisions of the Capital Market Law (Law No. 6362). Accordingly, neither this document nor any other offering material related to the instruments/services may be utilized in connection with providing any capital market services to persons within the Republic of Turkey without the prior approval of the Capital Market Board. However, according to article 15 (d) (ii) of the Decree No. 32, there is no restriction on the purchase or sale of the securities abroad by residents of the Republic of Turkey. Poland: Distributed by UBS Limited (spolka z ograniczona odpowiedzialnoscia) Oddzial w Polsce regulated by the Polish Financial Supervision Authority. Where an analyst of UBS Limited (spolka z ograniczona odpowiedzialnoscia) Oddzial w Polsce has contributed to this document, the document is also deemed to have been prepared by UBS Limited (spolka z ograniczona odpowiedzialnoscia) Oddzial w Polsce. Switzerland: Distributed by UBS AG to persons who are institutional investors only. UBS AG is regulated by the Swiss Financial distributed by UBS Bank (OOO). Market Supervisory Authority (FINMA). Italy: Prepared by UBS Limited and distributed by UBS Limited and UBS Limited, Italy Branch. Where an analyst of UBS Limited, Italy Branch has contributed to this document, the document is also deemed to have been prepared by UBS Limited, Italy Branch. **South Africa**: Distributed by UBS South Africa (Pty) Limited (Registration No. 1995/011140/07), an authorised user of the JSE and an authorised Financial Services Provider (FSP 7328). **Israel:** This material is distributed by UBS Limited. UBS Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. UBS Securities Israel Ltd is a licensed Investment Marketer that is supervised by the Israel Securities Authority (ISA). UBS Limited and its affiliates incorporated outside Israel are not licensed under the Israeli Advisory Law. UBS Limited is not covered by insurance as required from a licensee under the Israeli Advisory Law. UBS may engage among others in issuance of Financial Assets or in distribution of Financial Assets of other issuers for fees or other benefits. UBS Limited and its affiliates may prefer various Financial Assets to which they have or may have Affiliation (as such term is defined under the Israeli Advisory Law). Nothing in this Material should be considered as investment advice under the Israeli Advisory Law. This Material is being issued only to and/or is directed only at persons who are Eligible Clients within the meaning of the Israeli Advisory Law, and this material must not be relied on or acted upon by any other persons. Saudi Arabia: This document has been issued by UBS AG (and/or any of its subsidiaries, branches or affiliates), a public company limited by shares, incorporated in Switzerland with its registered offices at Aeschenvorstadt 1, CH-4051 Basel and Bahnhofstrasse 45, CH-8001 Zurich. This publication has been approved by UBS Saudi Arabia (a subsidiary of UBS AG), a Saudi closed joint stock company incorporated in the Kingdom of Saudi Arabia under commercial register number 1010257812 having its registered office at Tatweer Towers, P.O. Box 75724, Riyadh 11588, Kingdom of Saudi Arabia. UBS Saudi Arabia is authorized and regulated by the Capital Market Authority to conduct securities business. **Dubai:** The information distributed by UBS AG Dubai Branch is intended for Professional Clients only and is not for further under license number 08113-37. United States: Distributed to US persons by either UBS Securities LLC or by UBS Financial Services Inc., subsidiaries of distribution within the United Arab Emirates. UBS AG; or by a group, subsidiary or affiliate of UBS AG that is not registered as a US broker-dealer (a 'non-US affiliate') to major US institutional investors only. UBS Securities LLC or UBS Financial Services Inc. accepts responsibility for the content of a document prepared by another non-US affiliate when distributed to US persons by UBS Securities LLC or UBS Financial Services Inc. All transactions by a US person in the securities mentioned in this document must be effected through UBS Securities LLC or UBS Financial Services Inc., and not through a non-US affiliate. UBS Securities LLC is not acting as a municipal advisor to any municipal entity or obligated person within the meaning of Section 15B of the Securities Exchange Act (the "Municipal Advisor Rule"), and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of the Municipal Advisor Rule. Canada: Distributed by UBS Securities Canada Inc., a registered investment dealer in Canada and a Member-Canadian Investor Protection Fund, or by another affiliate of UBS AG that is registered to conduct business in Canada or is otherwise exempt Mexico: This report has been distributed and prepared by UBS Casa de Bolsa, S.A. de C.V., UBS Grupo Financiero, an entity that is part of UBS Grupo Financiero, S.A. de C.V. and is an affiliate of UBS AG. This document is intended for distribution to institutional or sophisticated investors only. Research reports only reflect the views of the analysts responsible for the reports. Analysts do not receive any compensation from persons or entities different from ÚBS Casa de Bolsa, S.A. de C.V., UBS Grupo Financiero, or different from entities belonging to the same financial group or business group of such. For Spanish translations of applicable disclosures, please see www.ubs.com/disclosures

Brazil: Except as otherwise specified herein, this material is prepared by UBS Brasil CCTVM S.A. to persons who are eligible investors residing in Brazil, which are considered to be: (i) financial institutions, (ii) insurance firms and investment capital companies, (iii) supplementary pension entities, (iv) entities that hold financial investments higher than R\$300,000.00 and that confirm the status of qualified investors in written, (v) investment funds, (vi) securities portfolio managers and securities consultants duly authorized by Comissão de Valores Mobiliários (CVM), regarding their own investments, and (vii) social security systems created by the Federal Government, States, and Municipalities.

Hong Kong: Distributed by UBS Securities Asia Limited and/or UBS AG, Hong Kong Franch. Singapore: Distributed by UBS Securities Pte. Ltd. [MCI (P) 018/09/2015 and Co. Reg. No.: 198500648C] or UBS AG, Singapore Branch. Please contact UBS Securities Pte. Ltd., an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110); or UBS AG, Singapore Branch, an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110) and a wholesale bank licensed under the Singapore Banking Act (Cap. 19) regulated by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with, the analysis or document. The recipients of this document represent and warrant that they are accredited and institutional investors as defined in the Securities and Futures Act (Cap. 289). Japan: Distributed by UBS Securities Japan Co., Ltd. to professional investors (except as otherwise permitted). Where this document has been prepared by UBS Securities Japan Co., Ltd., UBS Securities Japan Co., Ltd. is the author, publisher and distributor of the document. Distributed by UBS AG, Tokyo Branch to Professional Investors (except as otherwise permitted) in relation to foreign exchange and other banking businesses when relevant. Australia: Clients of UBS AG. Distributed by UBS AG (Holder of Australian Financial Services License No. 231087). Clients of UBS Securities Australia Ltd: Distributed by UBS Securities Australia Ltd (Holder of Australian Financial Services License No. 231098). This Document contains general information and/or general advice only and does not constitute personal financial product advice. As such, the Information in this document has been prepared without taking into account any investor's objectives, financial situation or needs, and investors should, before acting on the Information, consider the appropriateness of the Information, having regard to their objectives, financial situation and needs. If the Information contained in this document relates to the acquisition, or potential acquisition of a particular financial product by a 'Retail' client as defined by section 761G of the Corporations Act 2001 where a Product Disclosure Statement would be required, the retail client should obtain and consider the Product Disclosure Statement relating to the product before making any decision about whether to acquire the product. The UBS Securities Australia Limited Financial Services Guide is available at: www.ubs.com/ecs-research-fsg. New Zealand: Distributed by UBS New Zealand Ltd. The information and recommendations in this publication are provided for general information purposes only. To the extent that any such information or recommendations constitute financial advice, they do not take into account any person's particular financial situation or goals. We recommend that recipients seek advice specific to their circumstances from their financial advisor. **Korea:** Distributed in Korea by UBS Securities Pte. Ltd., Seoul Branch. This document may have been edited or contributed to from time to time by affiliates of UBS Securities Pte. Ltd., Seoul Branch. **Malaysia:** This material is authorized to be distributed in Malaysia by UBS Securities Malaysia Sdn. Bhd (Capital Markets Services License No.: CMSL/A0063/2007). This material is intended for professional/institutional clients only and not for distribution to any retail clients. India: Distributed by UBS Securities India Private Ltd. (Corporate Identity Number U67120MH1996PTC097299) 2/F, 2 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000. It provides brokerage services bearing SEBI Registration Numbers: NSE (Capital Market Segment) INB230951431, NSE (F&O Segment) INF230951431, NSE (Currency Derivatives Segment) INE230951431, BSE (Capital Market Segment) INB010951437; merchant banking services bearing SEBI Registration Number: INM000010809 and Research Analyst services bearing SEBI Registration Number: INH000001204. UBS AG, its affiliates or subsidiaries may have debt holdings or positions in the subject Indian company/companies. Within the past 12 months, UBS AG, its affiliates or subsidiaries may have received compensation for non-investment banking securities-related services and/or non-securities services from the subject Indian company/companies. The subject company/companies may have been a client/clients of UBS AG, its affiliates or subsidiaries during the 12 months preceding the date of distribution of the research report with respect to investment banking and/or non-investment banking securities related services and/or non-securities services. With regard to information on associates, please refer to the Annual Report at: regard http://www.ubs.com/global/en/about_ubs/investor_relations/annualreporting.html

The disclosures contained in research documents produced by UBS Limited shall be governed by and construed in accordance with English law.

UBS specifically prohibits the redistribution of this document in whole or in part without the written permission of UBS and UBS accepts no liability whatsoever for the actions of third parties in this respect. Images may depict objects or elements that are protected by third party copyright, trademarks and other intellectual property rights. © UBS 2016. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

