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**S&P Global**

Market Intelligence

## **Alpha Signals**

# **Monthly Model Performance Report**

April 2026

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## Monthly Performance Recap

### US:

Model performance was unfavourable across the board for the US Large Cap universe, with the Price Momentum model earning highest returns at 2.74%. The Relative Value model had the least favourable returns. The models over the US Small Cap universe struggled during the month. On the 12-month basis, the Price Momentum model performed best at 10.05%

### Developed Europe:

Over the Developed Europe universe, the Earnings Momentum model returned 1.69% on a one month decile return spread basis. On a 12-month basis, the Price Momentum model performed the best, at 24.41% cumulative.

### Developed Pacific:

The models struggled over the Developed Pacific universe during this month. On the 12-month basis as well, the Relative Value model performed best at 6.87% and the performance of the Price Momentum model lagged.

### Emerging Markets:

Within the Emerging Markets universe, the Earnings Momentum model returned 2.33% on one month quintile return spread basis. The Earnings Momentum model led over the one-year period, with returns at 21.63%.

### Specialty Models:

Within the specialty model library, the Insurance and the REIT 2 models had the strongest one month quintile return spread performance returning 2.54% and 0.34%, respectively, while the Semiconductor and the Technology models saw weaker returns. The Retail model's one year cumulative performance was the highest at 21.57% while the Technology model's performance was the lowest at -69.47%.

## Alpha Signals Model Matrix

	Deep Value	Earnings Momentum	Price Momentum	Relative Value	Value Momentum
US Large Cap	-3.040	-1.921	2.742	-6.447	-0.743
US Small Cap	-5.915	-1.602	1.144	-6.850	-8.295
Developed World ex North America	-0.569	4.161	3.205	-3.956	-1.207
Canada 500	-6.858	1.939	-0.092	-5.721	-3.043
Developed Pacific STDCAP	-13.471	-3.356	-4.302	-3.446	-6.527
Emerging Markets STDCAP	-8.542	2.329	-2.100	-8.232	-11.433
Frontier Markets STDCAP	2.805	0.839	6.075	3.119	1.857
Europe 1000	-1.337	1.688	0.436	-1.054	1.278
Japan 2000	-4.682	5.680	8.465	-6.099	2.052
Australia-New Zealand 250	-8.901	2.679	-0.404	-6.290	-0.541

Worst  Best

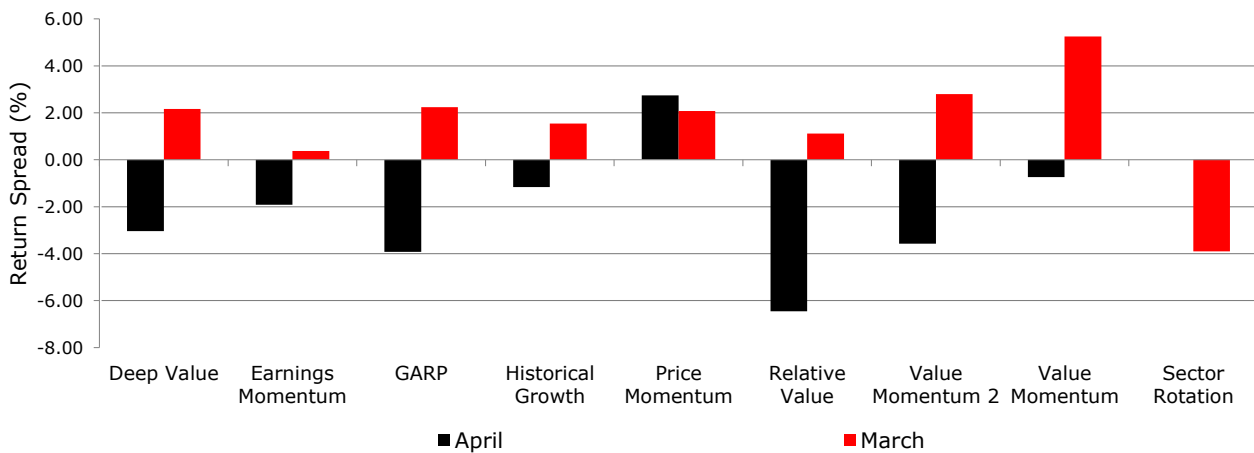
## US Large Cap<sup>(1)</sup>

Model performance was unfavourable across the board for the US Large Cap universe, with the Price Momentum model earning highest returns at 2.74%. The Relative Value model had the least favourable returns. The US Large Cap Sector Rotation model returned 0.00%. The Utilities sector had a favorable ranking and the Financials sector had an unfavorable ranking.

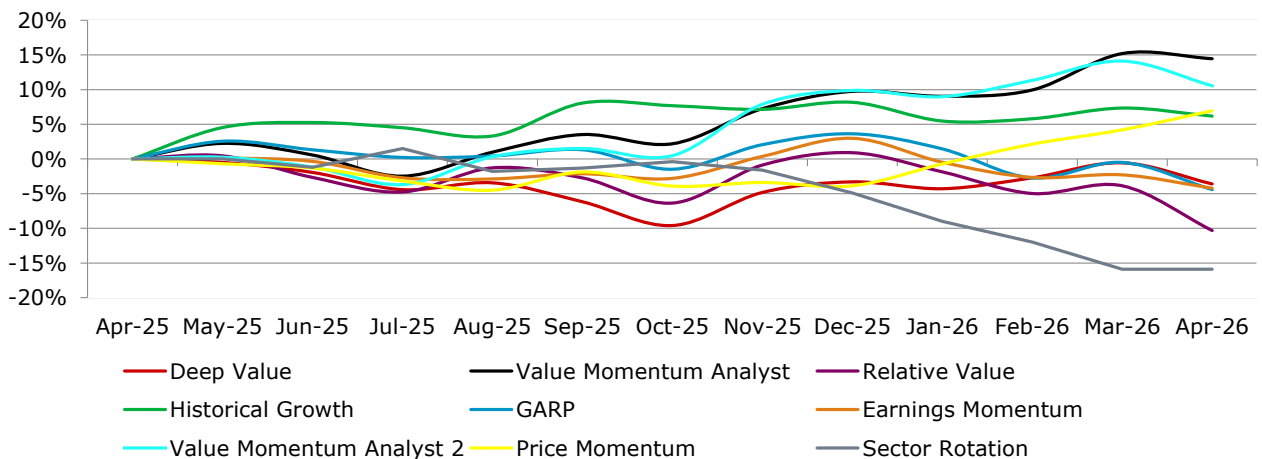
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-3.04	0.69	-3.61	-1.57	-1.58	-1.77	1.47	-2.28	1.83	-0.05	0.00	0.01
<b>Earnings Momentum</b>	-1.92	-3.74	-4.22	0.23	-0.22	0.90	2.15	3.52	5.12	-0.03	-0.04	0.01
<b>GARP</b>	-3.92	-5.87	-4.41	-2.74	-5.08	-1.32	1.19	0.79	3.09	-0.08	-0.03	0.00
<b>Historical Growth</b>	-1.16	0.71	6.18	-0.09	0.17	6.78	1.07	-0.54	0.60	-0.02	-0.02	0.01
<b>Price Momentum</b>	2.74	7.66	6.94	0.83	2.90	2.83	-1.92	-4.76	-4.11	0.10	0.08	0.01
<b>Relative Value</b>	-6.45	-8.46	-10.33	-3.08	-4.69	-5.11	3.37	3.78	5.23	-0.12	-0.04	0.00
<b>Value Momentum 2</b>	-3.57	1.57	10.54	-0.75	2.23	12.07	2.82	0.66	1.52	-0.03	0.01	0.04
<b>Value Momentum</b>	-0.74	5.42	14.46	0.08	4.66	8.38	0.83	-0.76	-6.08	0.00	0.05	0.05
<b>Sector Rotation</b>	0.00	-6.90	-15.90	0.30	-2.40	-8.00	0.30	4.50	7.90	-	-	-

Equal Weighted US Large Cap Universe 1-Month Return = 5.92%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



## US Small Cap<sup>(1)</sup>

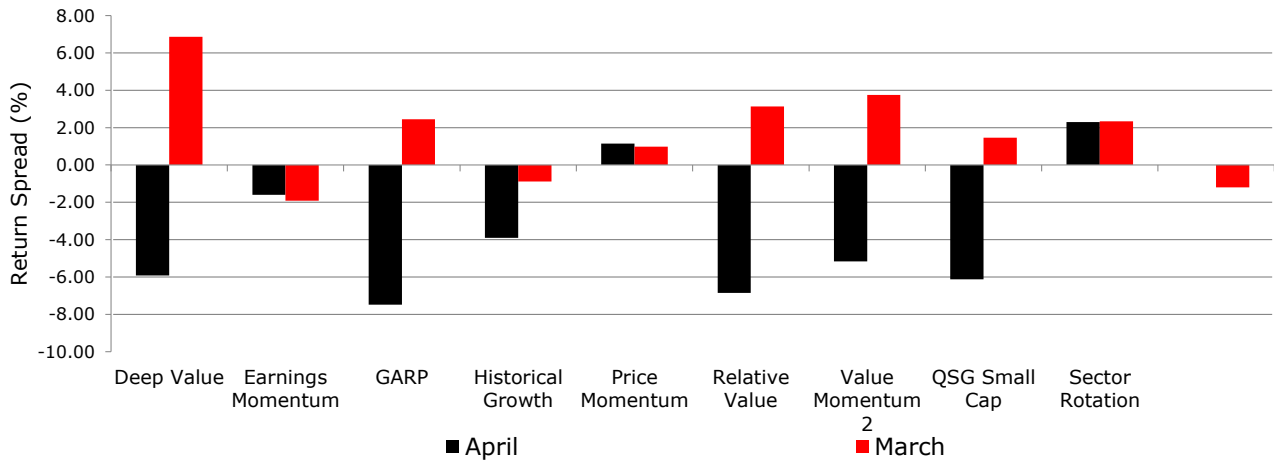
The models over the US Small Cap universe struggled during the month. On the 12-month basis, the Price Momentum model performed best at 10.05% while the performance of the Deep Value model continued to lag.

The US Small Cap Sector Rotation model earned a return of 2.30%. The Telecom sector had a favorable ranking and the Basic Materials sector had an unfavorable ranking.

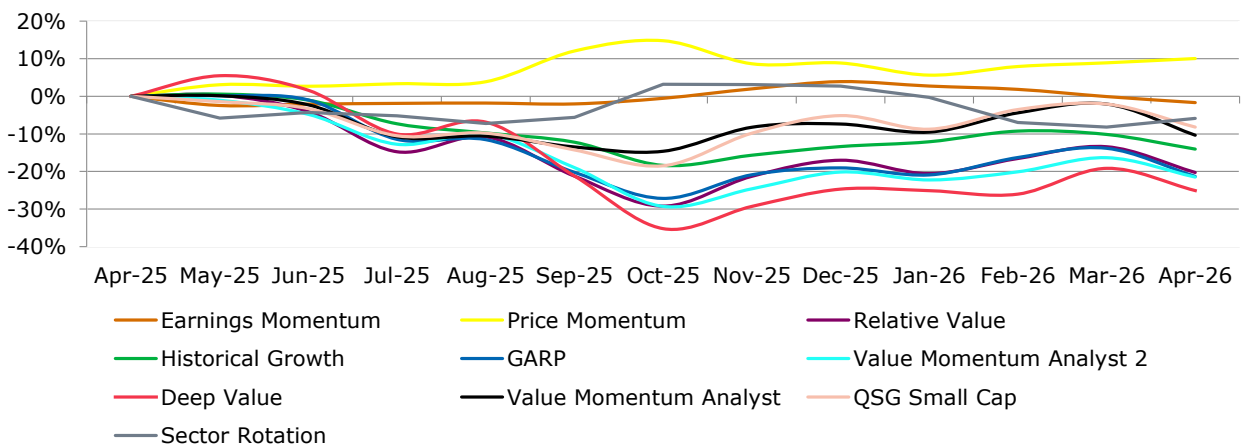
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-5.92	0.03	-25.07	-3.02	-0.39	-6.33	2.90	-0.42	18.74	-0.09	0.06	0.01
<b>Earnings Momentum</b>	-1.60	-4.39	-1.67	-1.17	-5.27	-7.63	0.43	-0.88	-5.96	-0.05	-0.03	0.00
<b>GARP</b>	-7.48	-0.40	-21.33	-1.70	0.50	-2.91	5.78	0.90	18.43	-0.12	0.02	0.01
<b>Historical Growth</b>	-3.90	-1.96	-14.05	0.16	0.82	0.03	4.06	2.78	14.08	-0.09	0.01	0.01
<b>Price Momentum</b>	1.14	4.42	10.04	1.76	2.98	8.81	0.61	-1.43	-1.23	0.04	0.03	0.00
<b>Relative Value</b>	-6.85	0.30	-20.26	-2.93	-2.54	-4.78	3.92	-2.84	15.48	-0.12	0.01	0.00
<b>Value Momentum 2</b>	-5.16	0.76	-21.50	-2.21	1.13	-0.81	2.95	0.37	20.69	-0.08	0.04	0.01
<b>QSG Small Cap</b>	-6.13	0.56	-8.19	-0.74	1.14	1.74	5.39	0.57	9.94	-0.09	0.03	0.01
<b>Sector Rotation</b>	2.30	-5.60	-5.90	-0.60	-6.40	-4.90	-2.90	-0.90	0.90	-	-	-

Equal Weighted US Small Cap Universe 1-Month Return = 10.5%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



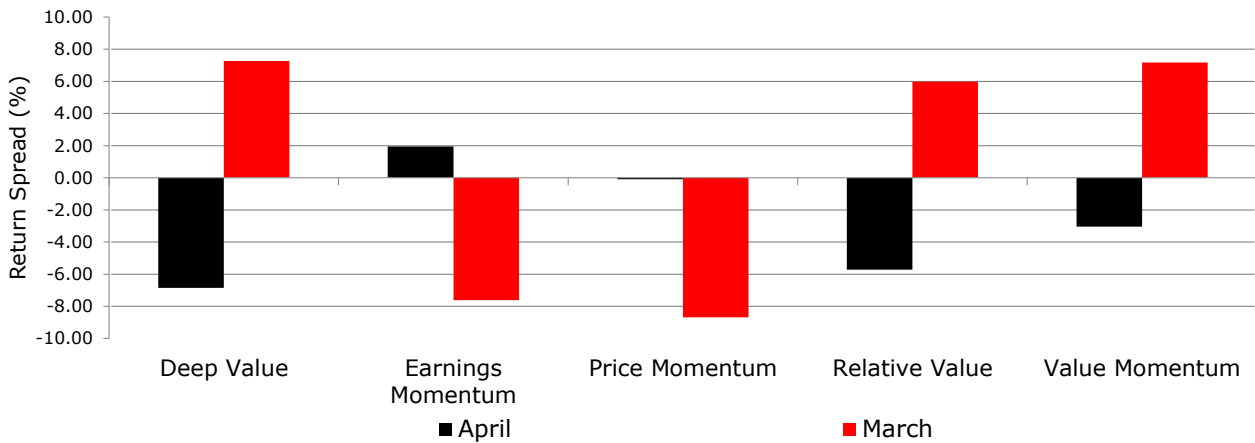
## Canada 500<sup>(1)</sup>

Model performance exhibited variability across the Canadian Universe. The Earnings Momentum model was the best performing model with one month quintile return spread performance of 1.94%. On the 12-month basis, the Price Momentum model performed the best at 33.89% while the performance of the Deep Value model trailed all the other models.

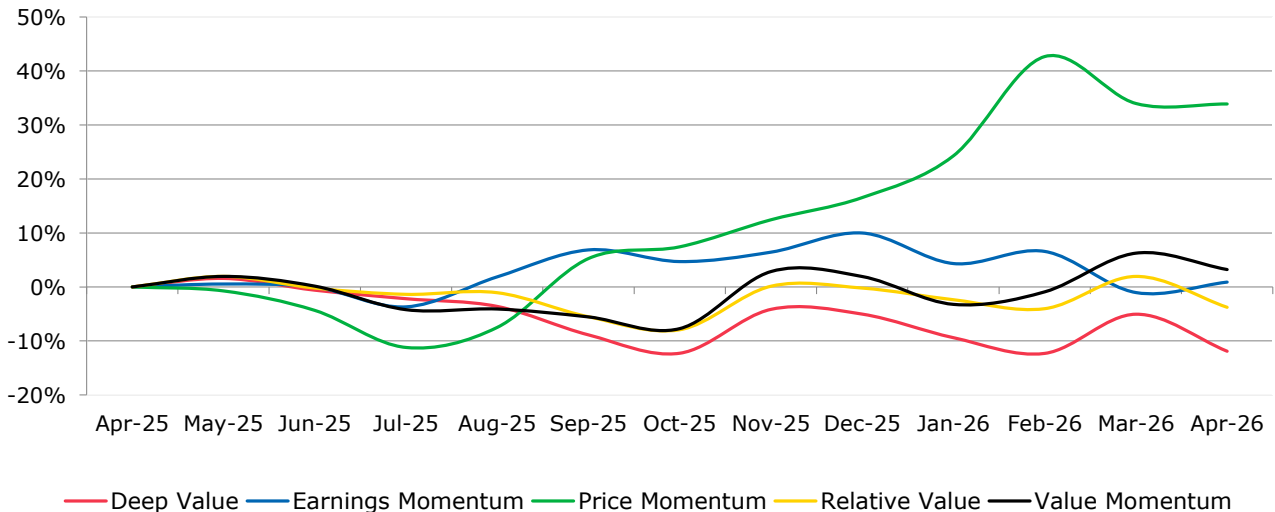
Model <sup>(2)</sup>	Quintile Return Spread <sup>(3)</sup>			Q1 Excess Return <sup>(3)</sup>			Q5 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-6.86	-2.51	-11.90	-2.17	-4.29	6.76	4.68	-1.78	18.67	-0.17	0.00	0.01
<b>Earnings Momentum</b>	1.94	-3.44	0.89	1.10	0.23	5.37	-0.84	3.67	4.49	-0.02	-0.04	0.00
<b>Price Momentum</b>	-0.09	9.60	33.89	0.78	6.82	22.76	0.87	-2.79	-11.13	0.00	0.06	0.06
<b>Relative Value</b>	-5.72	-1.39	-3.77	-2.84	-2.23	6.64	2.88	-0.84	10.40	-0.17	0.00	0.01
<b>Value Momentum</b>	-3.04	6.44	3.21	-2.18	-0.04	10.41	0.86	-6.48	7.20	-0.07	0.07	0.03

Equal Weighted Canada 500 Universe 1-Month Return = 4.75%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



## Japan 2000<sup>(1)</sup>

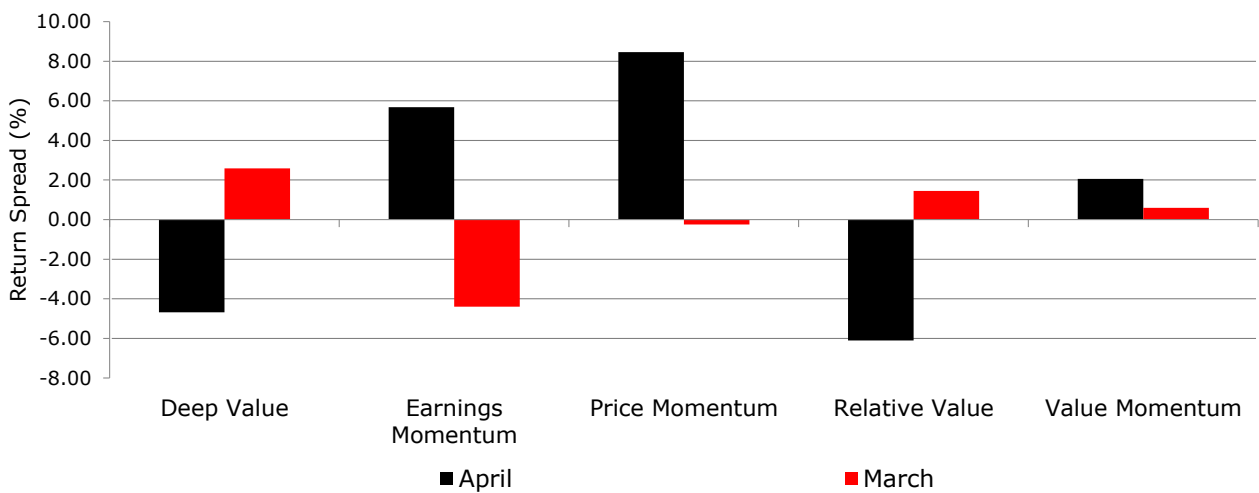
Within the Japan universe, the Price Momentum model had the strongest one month decile return spread performance returning 8.46%, while the Relative Value lagged.

The Deep Value model's one year cumulative performance was the highest at 37.84%. The Slope of 52 Week Price Trend Line factor within the Price Momentum model had a one month decile return spread of 9.78% and was the largest contributor to the model's performance in April.

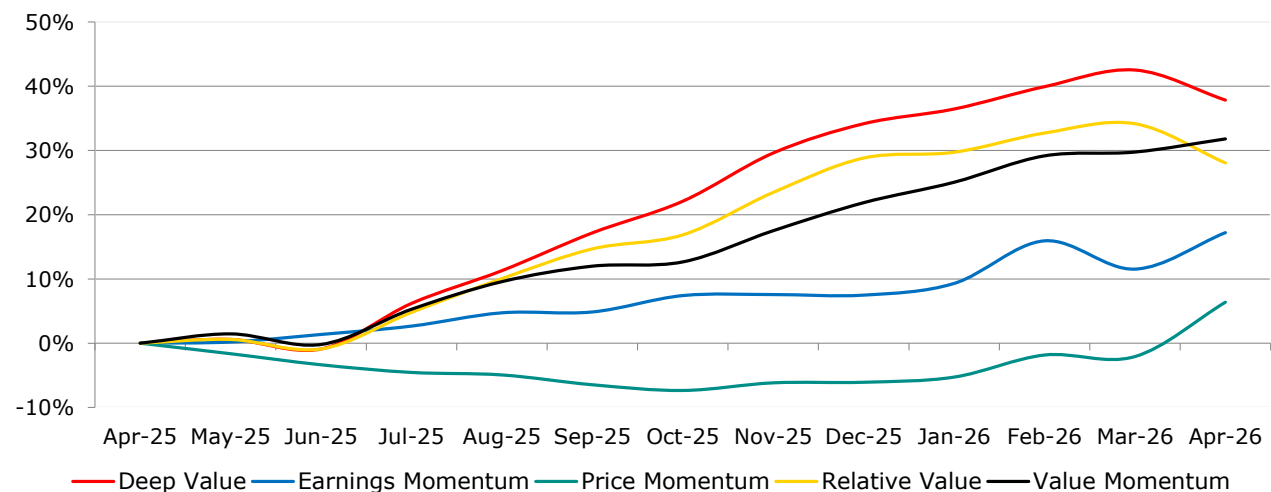
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-4.68	1.39	37.85	-1.15	1.29	18.86	3.53	-0.11	-18.99	-0.04	0.07	0.16
<b>Earnings Momentum</b>	5.68	7.90	17.21	3.65	5.75	11.74	-2.03	-2.15	-5.47	0.16	0.03	0.03
<b>Price Momentum</b>	8.46	11.66	6.38	6.33	6.36	1.65	-2.14	-5.30	-4.73	0.19	0.09	0.02
<b>Relative Value</b>	-6.10	-1.66	28.06	-1.90	-0.98	12.70	4.19	0.67	-15.36	-0.09	0.03	0.11
<b>Value Momentum</b>	2.05	6.75	31.79	-0.34	3.12	17.60	-2.39	-3.63	-14.19	0.08	0.09	0.13

Equal Weighted Japan 2000 Universe 1-Month Return = 3.34%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



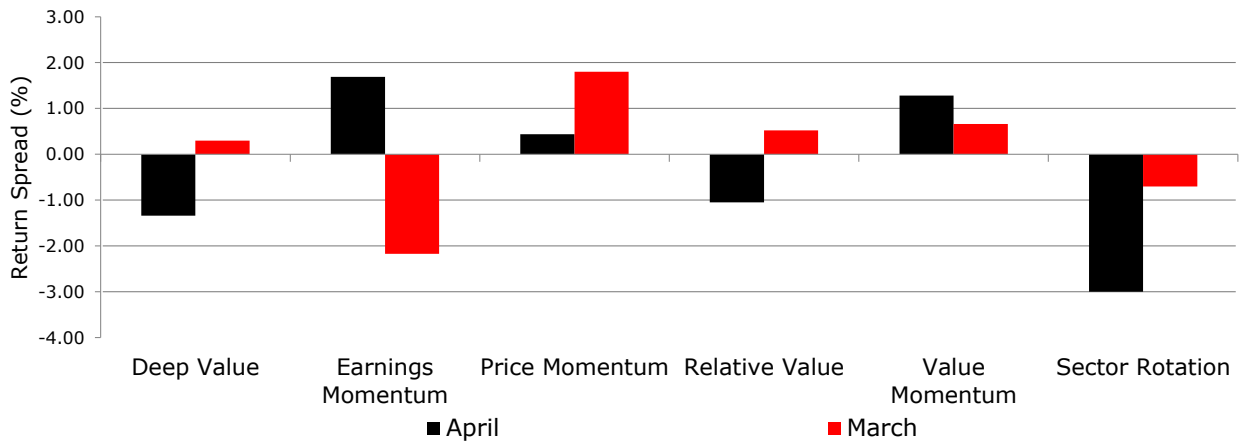
## Developed Europe<sup>(1)</sup>

Over the Developed Europe universe, the Earnings Momentum model returned 1.69% on a one month decile return spread basis. On a 12-month basis, the Price Momentum model performed the best, at 24.41% cumulative. The Developed Europe Sector Rotation model struggled during the month. The Energy sector had a favorable ranking and the Non-Cyclicals sector had an unfavorable ranking.

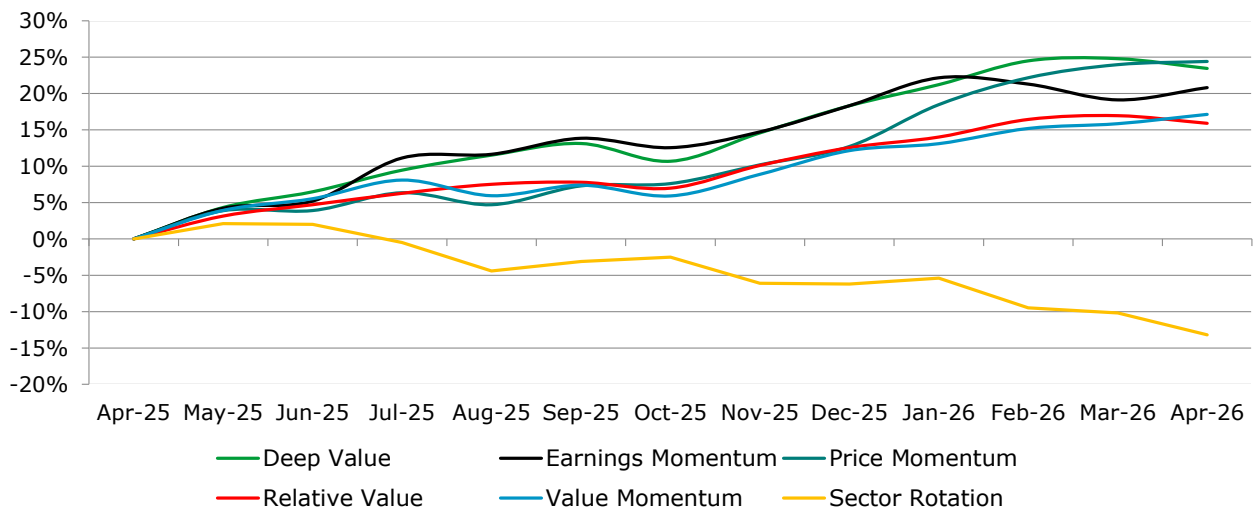
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-1.34	2.24	23.46	0.76	1.36	12.66	2.09	-0.88	-10.80	0.01	0.04	0.10
<b>Earnings Momentum</b>	1.69	-1.35	20.81	1.15	-1.37	15.66	-0.54	-0.03	-5.15	0.10	0.01	0.07
<b>Price Momentum</b>	0.44	5.94	24.42	1.81	2.69	14.17	1.37	-3.25	-10.25	0.04	0.05	0.06
<b>Relative Value</b>	-1.05	1.89	15.91	0.58	2.30	11.12	1.63	0.41	-4.79	0.00	0.02	0.06
<b>Value Momentum</b>	1.28	4.03	17.13	1.29	2.57	15.92	0.01	-1.46	-1.20	0.03	0.05	0.08
<b>Sector Rotation</b>	-3.00	-7.80	-13.20	-3.50	-8.90	-9.90	-0.50	-0.90	3.50	-	-	-

Equal Weighted Europe 1000 Universe 1-Month Return = 6.04%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



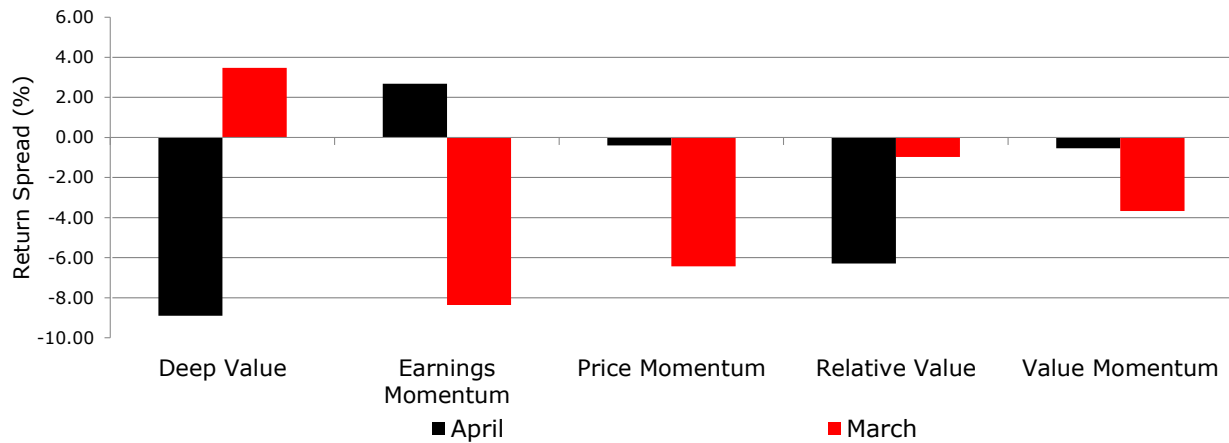
## Australia-New Zealand 250<sup>(1)</sup>

The Price Momentum model's one year cumulative performance was at -2.77% and the performance of the Relative Value model returned -15.91%. The Earnings Momentum model had the strongest one month quintile return spread performance within the Australia-New Zealand universe returning 2.68%, while Deep Value lagged.

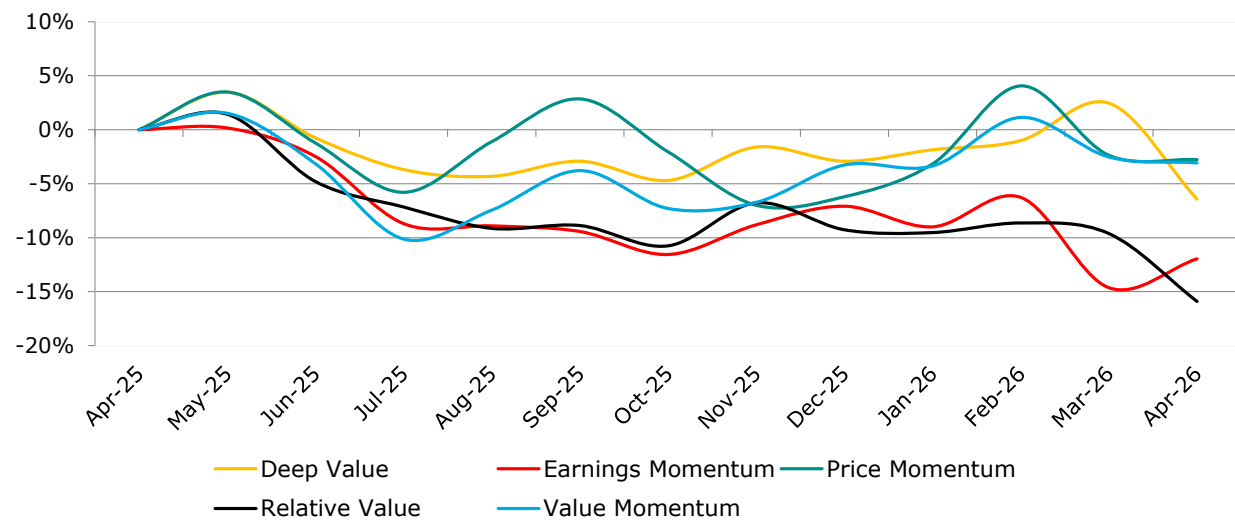
Model <sup>(2)</sup>	Quintile Return Spread <sup>(3)</sup>			Q1 Excess Return <sup>(3)</sup>			Q5 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-8.90	-4.58	-6.45	-3.03	-1.08	3.46	5.87	3.51	9.91	-0.20	-0.02	0.00
<b>Earnings Momentum</b>	2.68	-2.97	-11.98	0.50	-1.35	3.88	-2.18	1.62	15.86	0.12	0.03	-0.03
<b>Price Momentum</b>	-0.40	0.40	-2.76	0.72	0.65	2.27	1.12	0.25	5.03	0.00	0.02	-0.01
<b>Relative Value</b>	-6.29	-6.38	-15.91	-1.75	-0.85	0.44	4.54	5.53	16.34	-0.13	-0.03	-0.02
<b>Value Momentum</b>	-0.54	0.28	-3.07	-0.44	-0.43	3.46	0.11	-0.72	6.53	0.00	0.03	-0.02

Equal Weighted Australia New Zealand 250 Universe 1-Month Return = 3.99%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



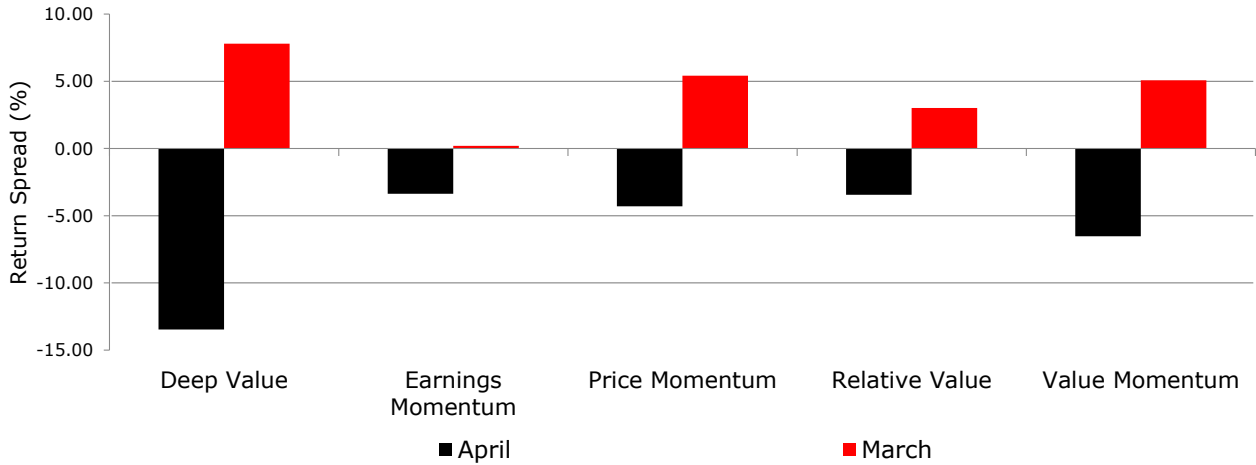
## Developed Pacific<sup>(1)</sup>

The models struggled over the Developed Pacific universe during this month. On the 12-month basis as well, the Relative Value model performed best at 6.87% and the performance of the Price Momentum model lagged.

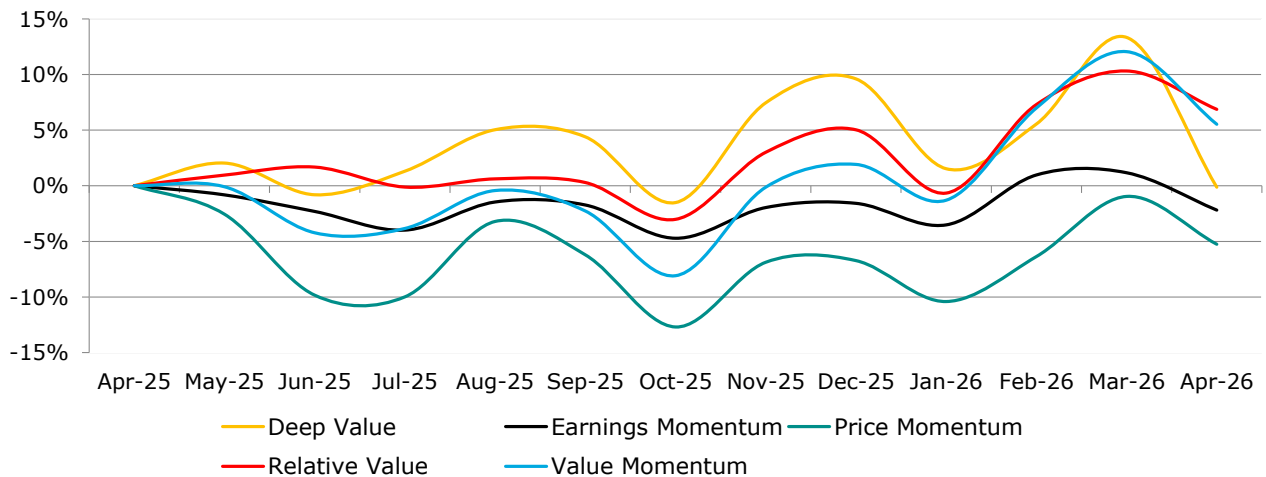
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-13.47	-1.66	-0.13	-3.80	0.20	9.51	9.67	1.85	9.64	-0.18	0.07	0.07
<b>Earnings Momentum</b>	-3.36	1.33	-2.20	-0.49	2.43	4.68	2.87	1.11	6.88	-0.02	0.04	0.01
<b>Price Momentum</b>	-4.30	5.15	-5.26	-4.37	-2.52	-5.72	-0.07	-7.67	-0.47	-0.10	0.07	0.02
<b>Relative Value</b>	-3.45	7.54	6.89	1.20	6.17	9.33	4.65	-1.37	2.44	-0.11	0.06	0.05
<b>Value Momentum</b>	-6.53	6.84	5.56	-1.22	3.56	10.28	5.31	-3.27	4.72	-0.14	0.09	0.06

Equal Weighted Developed Pacific Universe 1-Month Return = 13.02%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



## Developed World Ex North America (EAFE)<sup>(1)</sup>

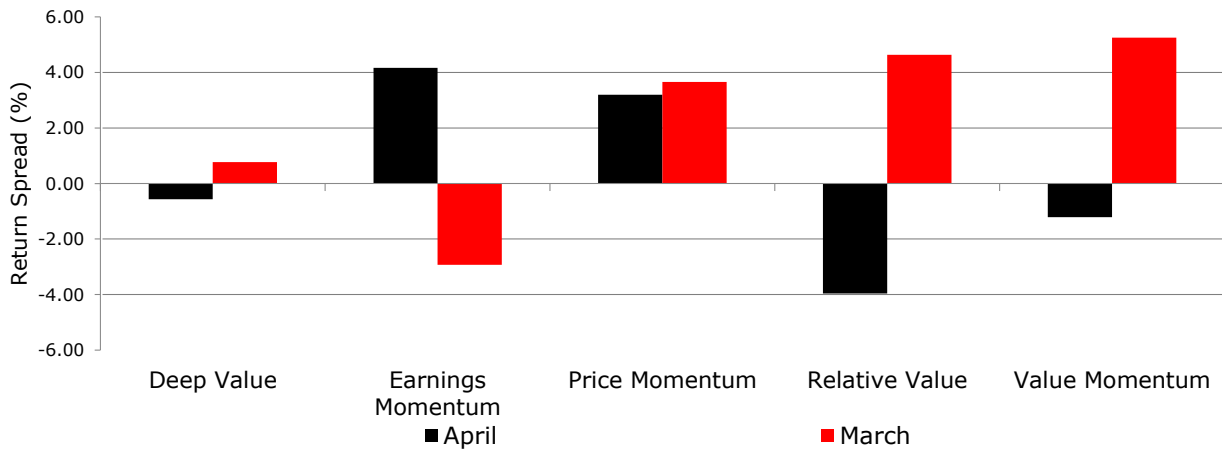
Within the Developed World Ex North America (EAFE) universe, the Earnings Momentum model had the strongest one month decile return spread performance, returning 4.16%, while the Relative Value model lagged.

The Deep Value model's one year cumulative performance was the highest at 29.10%.

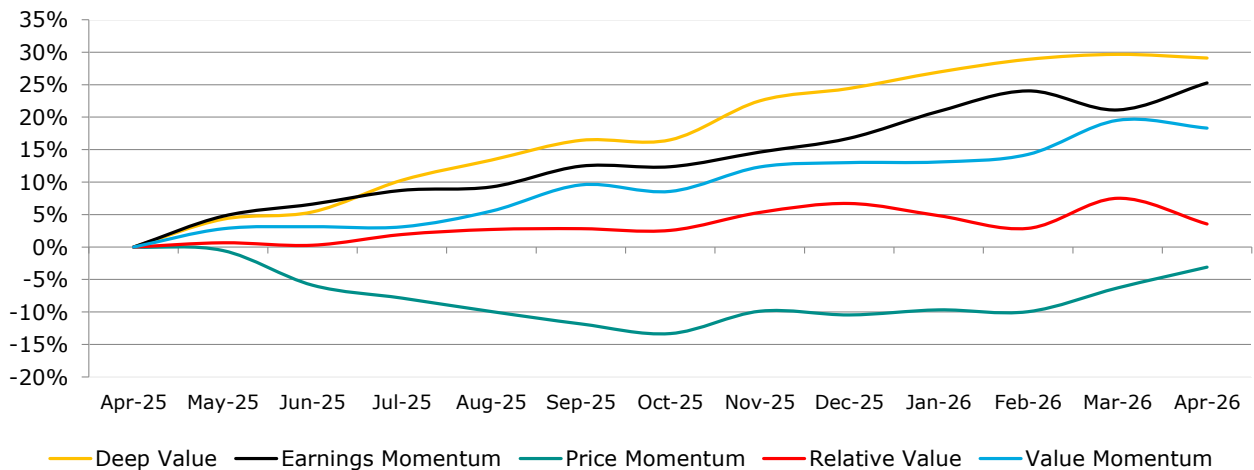
Model <sup>(2)</sup>	Decile Return Spread <sup>(3)</sup>			D1 Excess Return			D10 Excess Return			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-0.57	2.16	29.10	1.81	2.19	17.82	2.38	0.04	-11.28	-0.03	0.03	0.10
<b>Earnings Momentum</b>	4.16	4.39	25.28	1.49	2.15	16.08	-2.68	-2.24	-9.20	0.11	0.03	0.06
<b>Price Momentum</b>	3.20	6.59	-3.09	1.72	1.97	-3.02	-1.49	-4.62	0.07	0.09	0.05	0.00
<b>Relative Value</b>	-3.96	-1.27	3.56	-0.10	1.27	4.88	3.85	2.54	1.32	-0.06	0.02	0.05
<b>Value Momentum</b>	-1.21	5.21	18.30	-1.38	2.49	7.17	-0.18	-2.72	-11.13	0.00	0.05	0.08

Equal Weighted Developed World Ex North America (EAFE) 1-Month Return = 5.13%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



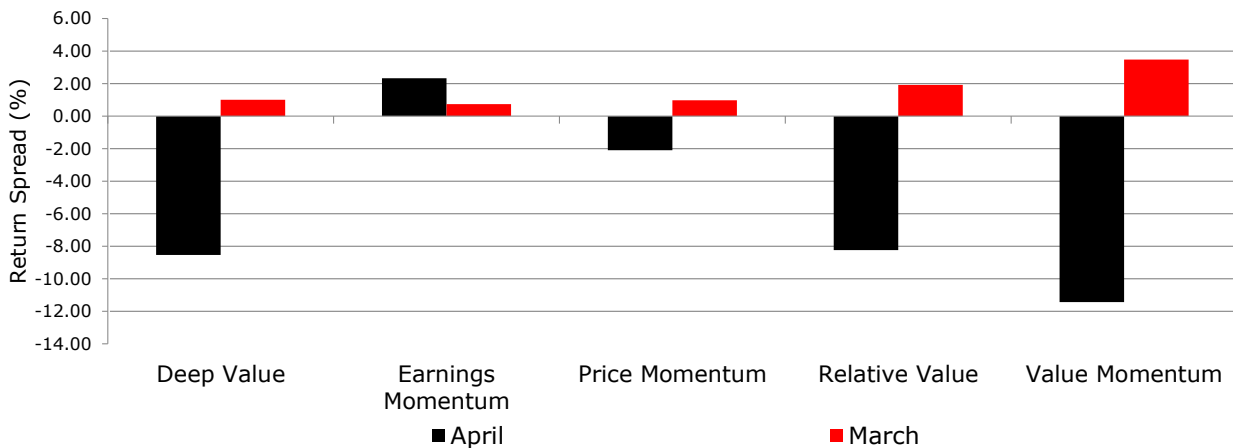
## Emerging Markets<sup>(1)</sup>

Within the Emerging Markets universe, the Earnings Momentum model returned 2.33% on one month quintile return spread basis. The Earnings Momentum model led over the one-year period, with returns at 21.63%.

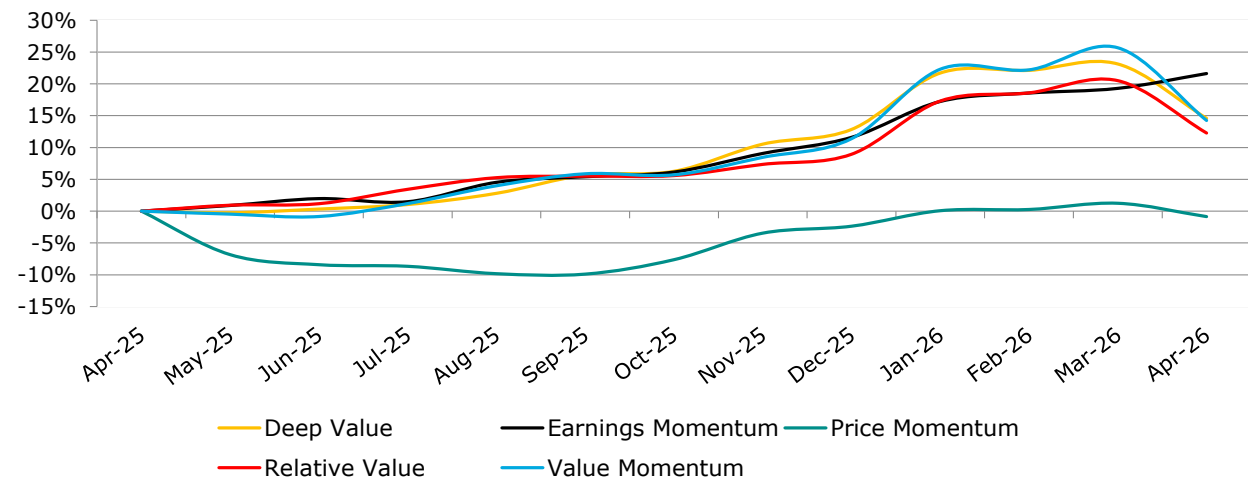
Model <sup>(2)</sup>	Quintile Return Spread <sup>(3)</sup>			Q1 Excess Return <sup>(3)</sup>			Q5 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	-8.54	-7.12	14.57	-4.50	-2.85	7.97	4.04	4.27	-6.61	-0.18	-0.02	0.08
<b>Earnings Momentum</b>	2.33	4.39	21.62	1.42	1.81	11.95	-0.91	-2.58	-9.67	0.00	0.02	0.05
<b>Price Momentum</b>	-2.10	-0.93	-0.88	-1.52	-1.26	-0.44	0.58	-0.32	0.44	0.03	0.05	0.04
<b>Relative Value</b>	-8.23	-5.03	12.28	-3.68	-1.25	9.04	4.56	3.78	-3.24	-0.15	0.00	0.07
<b>Value Momentum</b>	-11.43	-8.06	14.27	-4.43	-1.04	10.32	7.00	7.02	-3.95	-0.22	-0.01	0.09

Equal Weighted Emerging Markets Universe 1-Month Return = 10.95%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



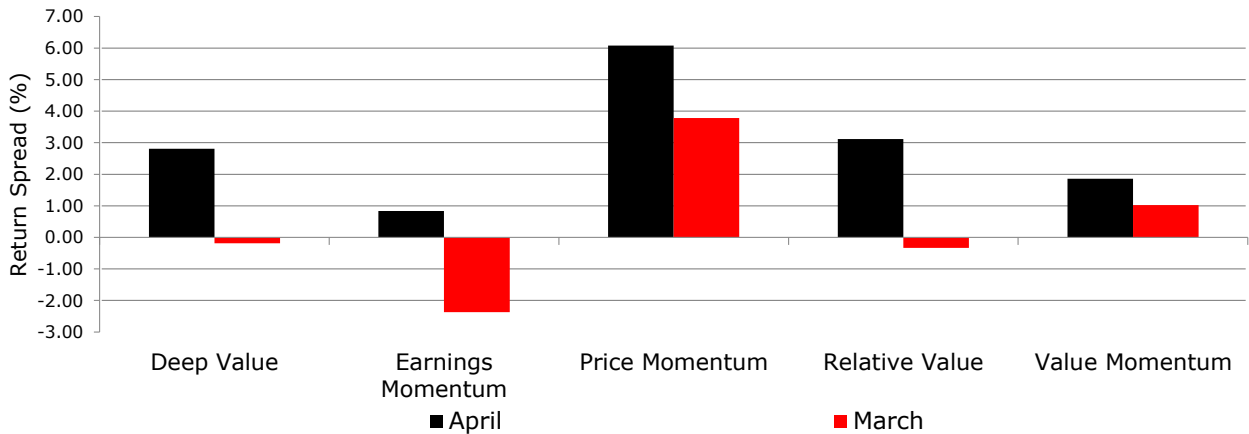
## Frontier Markets<sup>(1)</sup>

Over the Frontier Market's thematic models, the Price Momentum model had the strongest one month quintile return spread performance, returning 6.08%. The Relative Value model's one year cumulative performance was the highest at 34.54%.

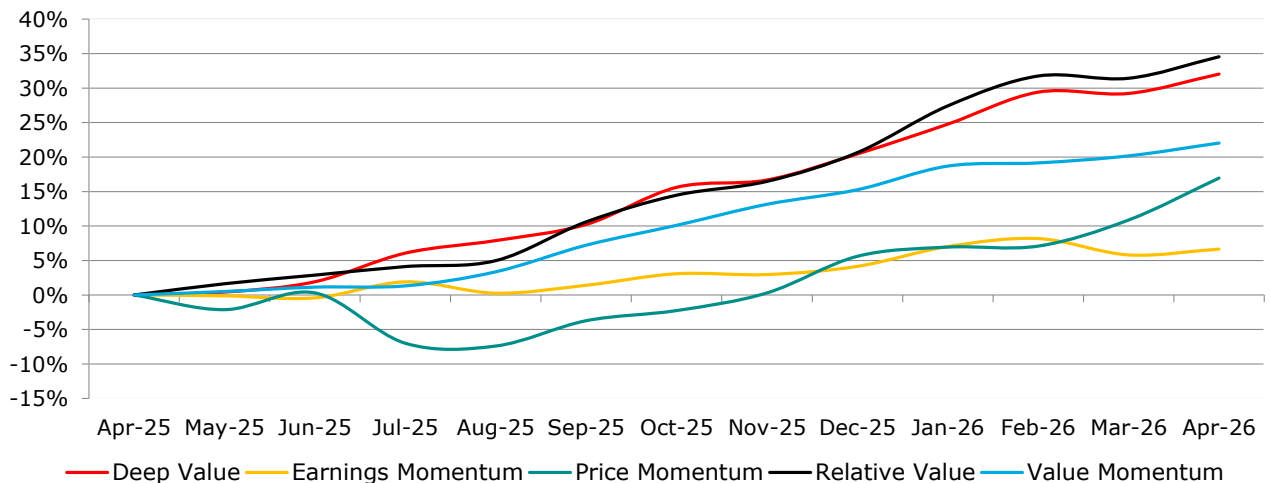
Model <sup>(2)</sup>	Quintile Return Spread <sup>(3)</sup>			Q1 Excess Return <sup>(3)</sup>			Q5 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Deep Value</b>	2.81	7.26	32.04	2.18	3.77	16.26	-0.62	-3.48	-15.77	0.14	0.09	0.10
<b>Earnings Momentum</b>	0.84	-0.37	6.64	1.11	1.92	11.51	0.27	2.30	4.87	0.01	0.00	0.01
<b>Price Momentum</b>	6.08	10.01	16.94	3.00	3.90	10.95	-3.07	-6.11	-5.99	0.23	0.14	0.09
<b>Relative Value</b>	3.12	7.11	34.52	2.10	2.32	18.27	-1.02	-4.79	-16.25	0.15	0.09	0.13
<b>Value Momentum</b>	1.86	3.35	22.04	1.35	1.41	14.38	-0.50	-1.94	-7.67	0.16	0.10	0.11

Equal Weighted Frontier Markets Universe 1-Month Return = 7.27%

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



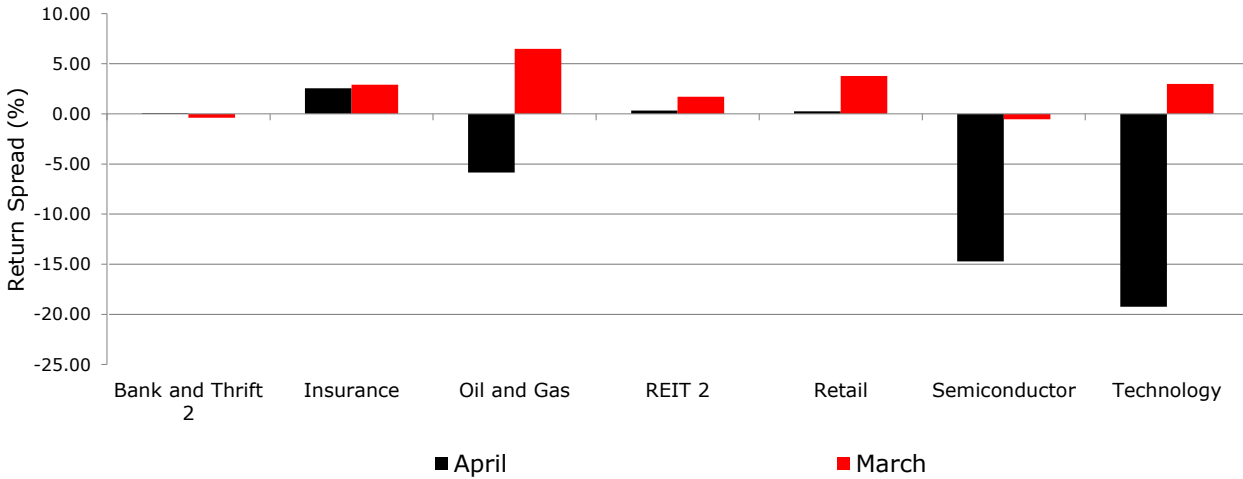
## Specialty Models<sup>(1)</sup>

Within the specialty model library, the Insurance and the REIT 2 models had the strongest one month quintile return spread performance returning 2.54% and 0.34%, respectively, while the Semiconductor and the Technology models saw weaker returns.

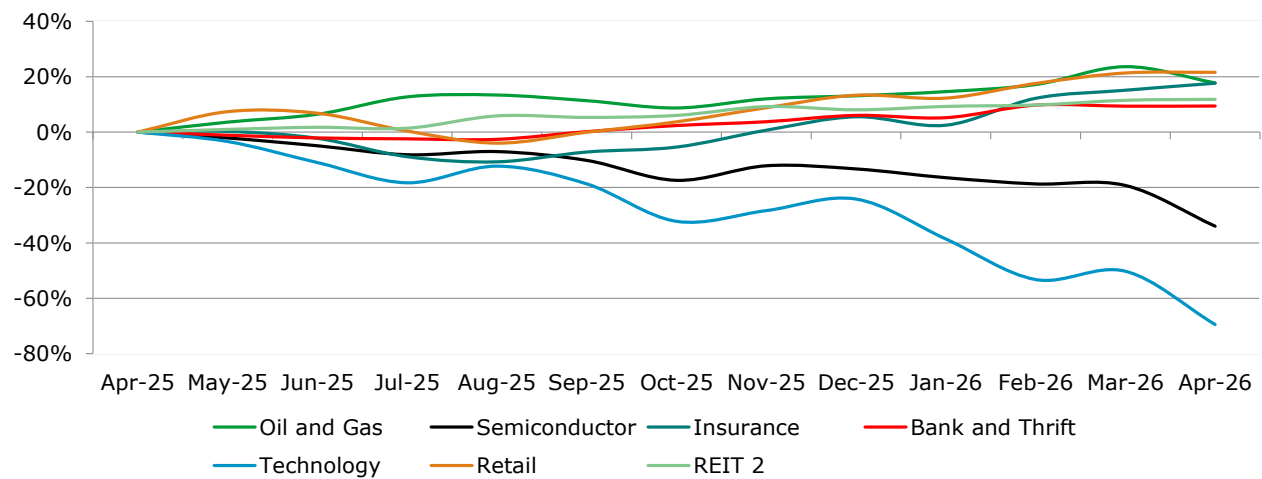
The Retail model's one year cumulative performance was the highest at 21.57% while the Technology model's performance was the lowest at -69.47%.

Model <sup>(2)</sup>	Decile/Quintile Return Spread <sup>(3)</sup>			D1 Excess Return <sup>(3)</sup>			D10 Excess Return <sup>(3)</sup>			Information Coefficient <sup>(3)</sup>		
	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo	1mo	3mo	12mo
<b>Bank and Thrift 2<sup>(4)</sup></b>	0.06	4.21	9.42	-0.33	1.98	4.69	-0.39	-2.23	-4.72	0.02	0.09	0.07
<b>Insurance</b>	2.54	15.16	17.65	-0.94	5.43	10.41	-3.48	-9.73	-7.24	0.13	0.15	0.08
<b>Oil and Gas</b>	-5.86	3.15	17.76	-3.05	3.68	10.76	2.80	0.53	-7.00	-0.12	0.08	0.09
<b>REIT 2</b>	0.34	2.55	11.82	1.13	1.26	7.32	0.80	-1.29	-4.50	0.05	0.05	0.07
<b>Retail</b>	0.24	9.31	21.57	0.83	3.51	6.76	0.59	-5.80	-14.81	-0.01	0.07	0.04
<b>Semiconductor</b>	-14.71	-17.51	-33.98	-9.01	-11.89	-19.24	5.70	5.62	14.74	-0.20	-0.06	-0.02
<b>Technology</b>	-19.23	-30.88	-69.47	-7.93	-12.28	-26.76	11.29	18.60	42.72	-0.27	-0.14	-0.11

### Long/Short Return Performance



### 1 Year Cumulative Spread Returns (1-Month Holding Period)



## APPENDIX

### 1.1 UNIVERSE DESCRIPTIONS

**US Large Cap:** Top 90% of US stocks by cumulative market-cap, including securities held by passively benchmarked ETF's tracking the same market segment.

**US Small Cap:** Securities in 91-98% of US stocks by cumulative market-cap, including securities held by passively benchmarked ETF's tracking the same market segment.

**Canada 500:** Top 500 Canada stocks by market-cap.

**Japan 2000:** Top 2000 Japan stocks by market-cap.

**Australia - New Zealand 250:** Top 250 stocks by market-cap in Australia and New Zealand.

**Developed Europe:** Top 1000 securities in the Developed Europe markets by market-cap.

**Developed Pacific:** Top 95% of stocks by cumulative free float market-cap among developed countries in the region, subject to a minimum free float market-cap of USD 250 mm.

**Developed World Ex-North America (EAFE):** Top 80% of stocks by cumulative market-cap stocks, in global developed countries excluding US/ Canada.

**Emerging Markets:** Top 95% of stocks by cumulative free float market-cap among emerging market countries, subject to a minimum free float market cap of USD 100 mm.

**Frontier Markets:** Top 95% of stocks by cumulative free float market-cap among frontier market countries, subject to a minimum free float market cap of USD 100 mm.

**Bank and Thrift:** All bank and thrift stocks that are part of the US Total Cap universe (top 98% of US stocks), with a share price > \$5 and market-cap >= .01% of the largest bank in the universe.

**Insurance Universe:** All insurance companies listed on US exchanges, excluding ADR's and Insurance brokers.

**Oil & Gas:** Global stocks in the oil & gas industry

**REIT:** All US REITs that are part of the US Total Cap universe (top 98% of US stocks), excluding mortgage REIT's.

**Retail:** All Retail companies in the US Total Cap universe (top 98% of US stocks), including those in the Cyclical and Non-Cyclical sectors.

**Semiconductors:** Global securities classified in the Semiconductor industry.

**Technology:** All Technology companies in the US Total Cap universe (top 98% of US stocks).

## **1.2 MODEL DESCRIPTIONS**

**Deep Value Model (DVM):** seeks to identify securities trading at a steep discount to their intrinsic **Earnings Momentum Model (EMM):** incorporates analyst forecasts alongside in conjunction with past earnings strength to estimate future earnings potential.

**Price Momentum Model (PMM):** seeks to combine price changes with several risk factors to provide a consistent short term investment signal.

**Relative Value Model (RVM):** an alternative approach to the DVM that considers valuation indicators on an industry adjusted basis thus mitigating any concentration risk.

**Value Momentum Analyst (VMA):** a comprehensive style model which includes factors from Value, Price and Earnings Momentum themes to identify attractive/ unattractive securities.

**GARP Model (GARP):** designed to identify attractively valued stocks using valuation techniques that take growth into consideration. The Valuation component selects stocks with attractive valuation characteristics.

**Historical Growth Model (HGM):** identifies stocks with an above-average track-record of earnings growth, strong sales growth and high sustainable growth. This blended approach enables our Historical Growth Model to not only identifies traditional growth stocks, but also value stocks on the verge of growth.

**Small Cap Model:** seeks to exploit the noticeable excess performance in the small cap arena. Constituent factors selected for its individual and orthogonal power within the small cap space.

**Bank and Thrift II Model (QBM2):** seeks to generate consistent outperformance by leveraging specialty data sources to create bank-and-thrift-specific factors which complement a set of broad factors exhibiting strong performance within the bank and thrift industries.

**Insurance Model (QIM):** provides a robust methodology to enhance stock selection processes by comparing the relative performance of insurance companies on a consistent valuation framework designed to identify stocks with significant alpha generating potential.

**Oil and Gas Model (OGM):** uses a comprehensive scoring system that systematically values companies utilizing energy specific operating metrics and fundamental factors relevant to the oil and gas industry.

**Retail Model (QRT):** designed to generate alpha by employing general factor signals alongside key retail specific measures. Retail specific indicators include Same Store Sales and Earnings Expectations.

**REIT Model (QRM):** incorporates detailed property level information such as occupancy rate, location, and building quality to construct a bottom up approach assessment of REIT Net Asset Value; along with several other metrics.

**Technology Model (QTA2):** a multidimensional approach of combining several industry-specific models with a cross-sectional overlay. The model seeks to generate alpha by accounting for the inherent cyclical and volatility of sub-industries.

### **1.3 PERFORMANCE STATS CALCULATION**

*The reported Information Coefficient (correlation between model ranks and equity return) is the average over the given time period. The reported Decile 1 and Decile 10 Excess Returns are Cumulative Sum (CUMSUM) and are measured as the excess return of their respective benchmark over a given time period*

*The reported Decile 1 Excess Returns and Decile 10 Excess Returns are Cumulative Sum (CUSUM) returns and are measured as the excess return of their respective benchmark over the given time period.*

*The reported Long-Short Spread Returns are Cumulative SUM returns and are calculated by subtracting the total returns of stocks in the bottom decile/quintile from those in the top decile/quintile over the given time period.*

*Quintiles are used for performance stats calculations, instead of deciles, in cases of smaller universe sizes.*

*The reported performance stats are all in local currency.*

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