

Revisiting Core Principles

The FTSE RAFI Index series utilizes fundamental measures of company size (sales, cash flow, dividends, and book value) as a rebalancing anchor to trade against the constantly shifting expectations of the market.

This approach results in overweights to out-of-favor securities, which are often undervalued, and underweights to popular securities, which are often overvalued.

Over the short term, these exposures can cause relative performance to vary, but this simple, disciplined approach has historically outperformed the cap-weighted benchmark over the long-term.

As a rebalancing strategy that trades against recent winners, the Fundamental Index™ methodology will often face performance headwinds during periods of trending prices, sustained momentum, or extreme value underperformance - and benefit from performance tailwinds during periods of security mean reversion or value outperformance.

The FTSE RAFI UK 300 Index is comprised of the 300 companies with the largest fundamental scores in the UK.

Performance

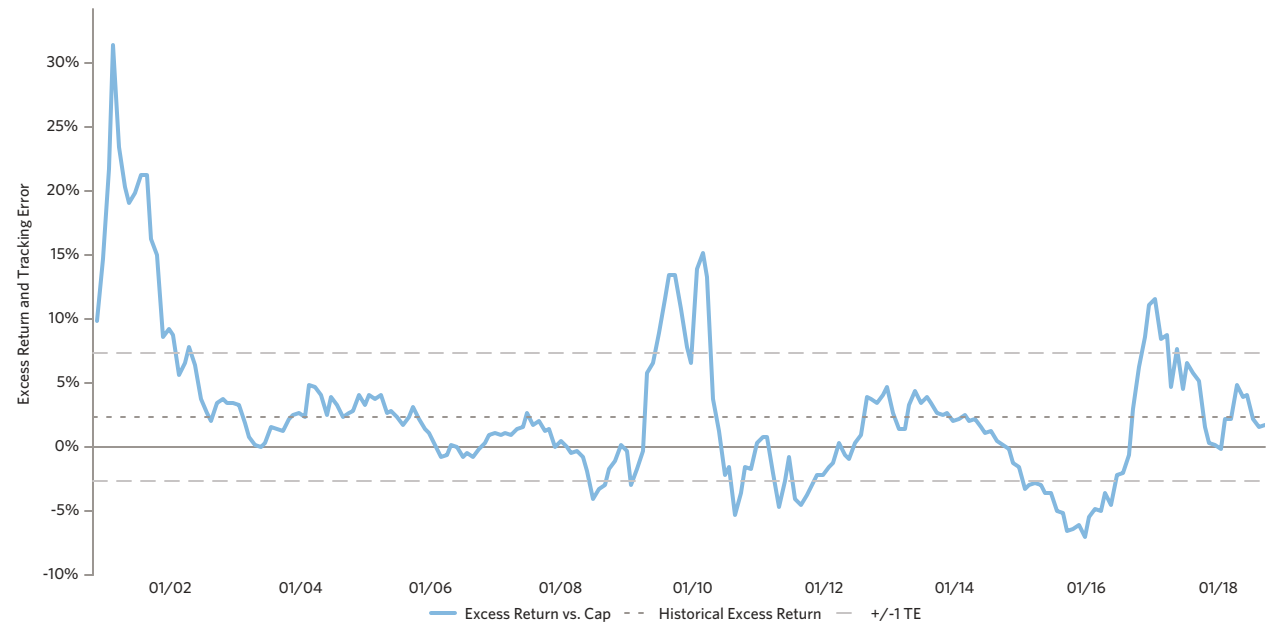
Exhibit 1:
Performance Table

Exhibit 2:
Rolling 1-Year Excess Returns

Exhibit 1: Performance Tableⁱ

	QTD	1-Yr	3-Yr	5-Yr	10-Yr	ITD*
FTSE RAFI™ UK 300 Index	-1.3%	7.6%	14.7%	7.9%	10.3%	9.6%
FTSE All-Share Index	-0.8%	5.9%	11.5%	7.5%	9.1%	8.9%
Value Added	-0.4%	1.7%	3.2%	0.4%	1.2%	0.7%
MSCI UK	-0.4%	5.9%	11.7%	6.8%	8.3%	8.0%
Portfolio Standard Deviation		11.6%	9.5%	10.3%	15.2%	10.7%
Benchmark Standard Deviation		10.6%	8.5%	9.3%	12.8%	9.9%
Tracking Error		2.1%	3.8%	3.3%	4.7%	3.0%

Exhibit 2: Rolling 1-Year Excess Returnsⁱⁱ



i. Exhibit 1.
Performance derived from FactSet. All returns are total returns in GBP. All returns greater than one year are annualized. Standard deviation and tracking error require a minimum of 1 year return history.
*Inception to Date (ITD) returns are calculated starting the first full month of returns following March 16, 2012.

ii. Exhibit 2.
Performance derived from FactSet. All returns are total returns in GBP. Rolling 1-year excess returns and tracking error are calculated starting December 31, 1999.
If applicable, strategy returns prior to inception are simulated. Inception date is March 16, 2012.

The Value Premium

The strategy invests broadly across the entire economy; however a byproduct of the strategy's rebalancing process is a value tilt.

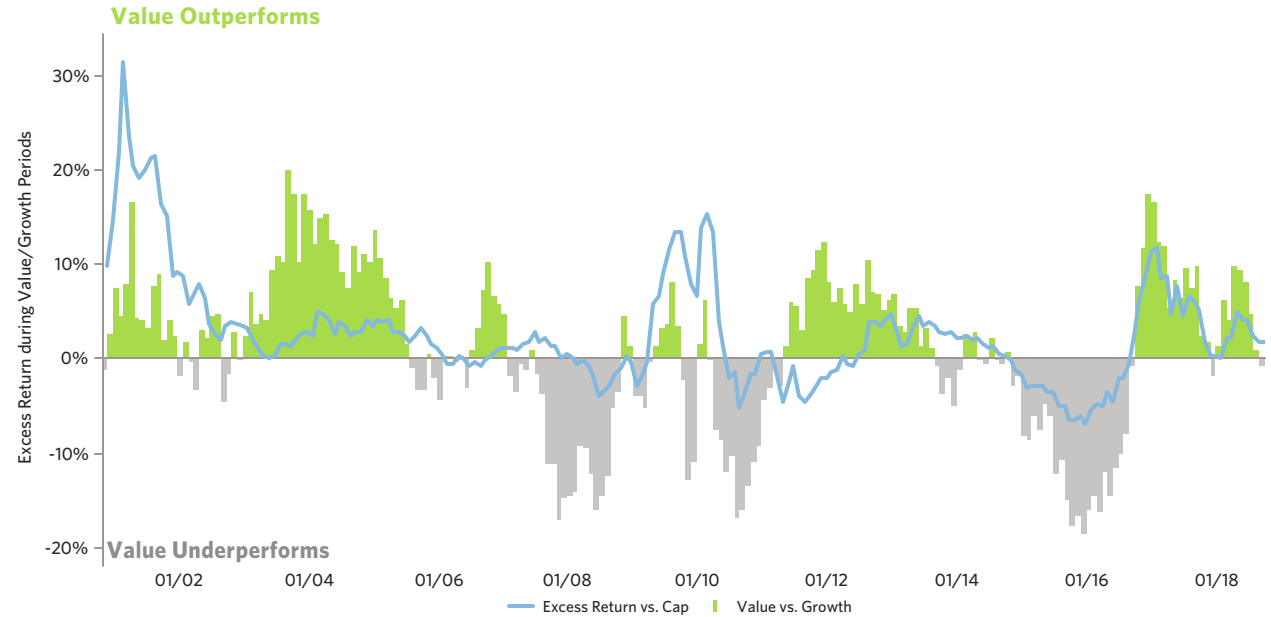
On a one-year rolling basis, the FTSE RAFI™ UK 300 Index outperformed 84% of the time when value won and 51% of the time when growth won.

Generally, excess returns were achieved by taking advantage of mean reversion in stock prices which can sometimes take several years to run its course.

The FTSE RAFI™ UK 300 Index delivered consistent outperformance over full market cycles, with positive excess returns in 70% of rolling 1-year periods, 76% of rolling 3-year periods, and 88% of rolling 5-year periods.

Exhibit 3: Rolling 1-Year Excess Returns

Exhibit 3: Rolling 1-Year Excess Returnsⁱ



ⁱ Exhibit 3.
FTSE RAFI™ UK 300 Index rolling 1-year excess returns are measured against FTSE All-Share Index. Value / Growth periods measured by rolling 1-year excess returns of MSCI United Kingdom Value vs. MSCI United Kingdom Growth. Calculation starts on December 31, 1999. Strategy returns prior to inception are simulated. Strategy inception is March 16, 2012.

Portfolio Characteristics

The FTSE RAFI™ UK 300 Index is attractively positioned relative to the cap-weighted benchmark.

[Exhibit 4:](#)
Portfolio Characteristics

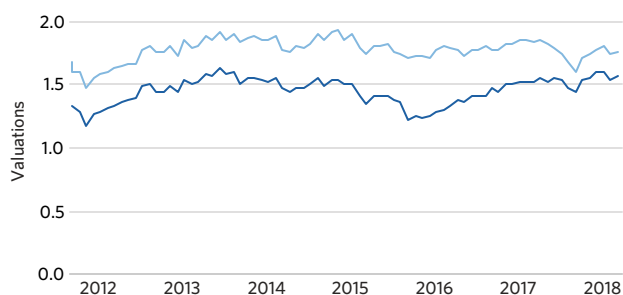
[Exhibit 5:](#)
Historical Portfolio Characteristics

Exhibit 4: Portfolio Characteristicsⁱ

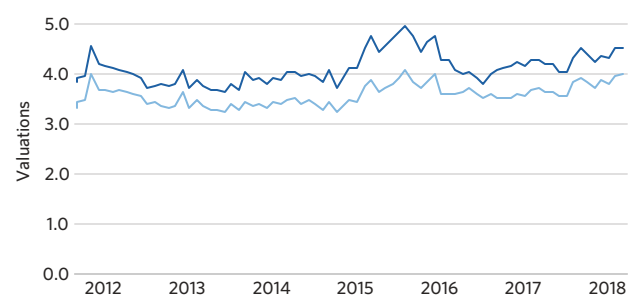
	Number of Holdings	Active Share	Price to Sales	Price to Cash Flow	Price to Book	Div. Yield	Market Cap. (Billions)	Sharpe Ratio*	Info. Ratio*	Tracking Error*
FTSE RAFI™ UK 300 Index	293	23.8	0.9	7.2	1.6	4.5%	85	0.56	0.23	3.0%
FTSE All Share	642	--	1.2	9.0	1.8	4.0%	68	0.54	--	--

Exhibit 5: Historical Portfolio Characteristicsⁱⁱ

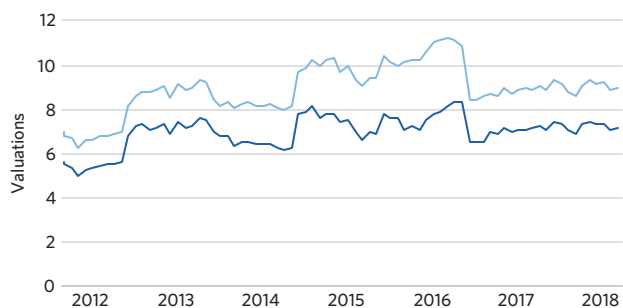
Price to Book



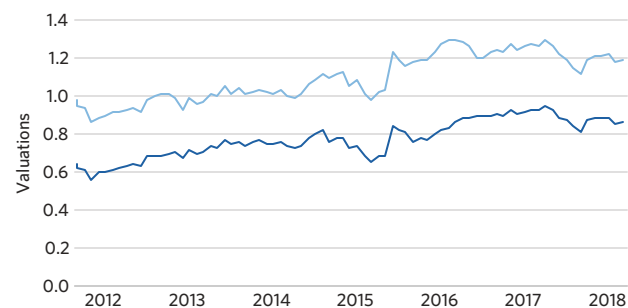
Dividend Yield (%)



Price to Cash Flow



Price to Sales



— FTSE RAFI™ UK 300 Index (Left) — FTSE All Share (Left)

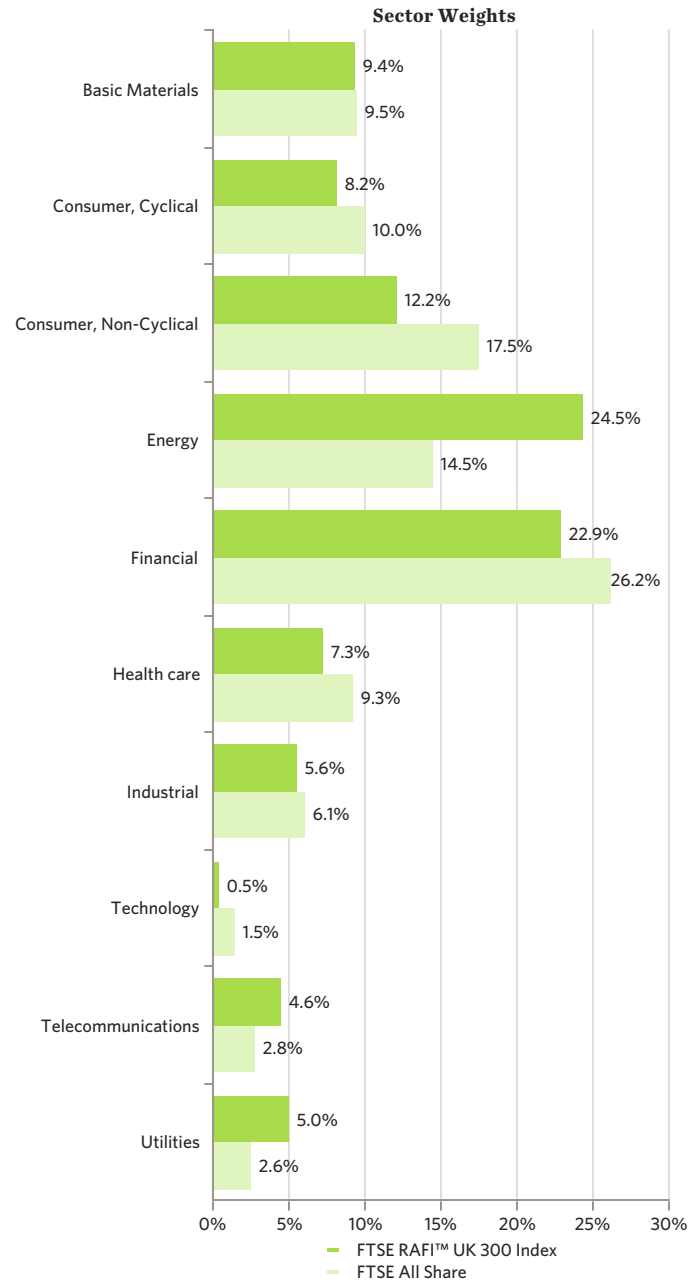
i. Exhibit 4.
Portfolio characteristics data derived from FactSet.
*Sharpe Ratio, Information Ratio, and Tracking Error are calculated starting the first full month of returns following March 16, 2012. Minimum 1-year return history. The 3-mo US Treasury Bill return is used as a proxy for risk-free rate. If applicable, strategy returns prior to inception are simulated. Inception date is March 16, 2012.

ii. Exhibit 5.
Portfolio characteristics derived from FactSet. Data prior to strategy inception is simulated. Strategy inception is March 16, 2012.

Current Position

Exhibit 6: Sector Weights

Exhibit 6: Sector Weightsⁱ



ⁱ. Exhibit 6.
Portfolio characteristics data derived from FactSet.



Current Position

Exhibit 7: Top 10 Holdings

Exhibit 8: Top Over/Underweights

Exhibit 7: Top 10 Holdingsⁱ

FTSE RAFI™ UK 300 Index vs. FTSE All-Share Index					
Index	Weights	1-Yr Perf.	Benchmark	Weights	1-Yr Perf.
Royal Dutch Shell	14.5%	24.5%	Royal Dutch Shell	9.1%	24.5%
BP	9.3%	31.0%	HSBC	5.5%	-3.7%
HSBC	6.7%	-3.7%	BP	4.7%	31.0%
GlaxoSmithKline	3.1%	9.7%	British American Tobacco	3.4%	-20.3%
Vodafone	3.1%	-14.4%	AstraZeneca	3.1%	26.3%
Glencore plc	2.4%	2.4%	GlaxoSmithKline	3.1%	9.7%
AstraZeneca	2.4%	26.3%	Diageo	2.7%	14.2%
Barclays PLC	2.3%	-8.6%	Unilever	1.9%	2.0%
Lloyds Banking Group plc	2.0%	-7.5%	Prudential plc	1.9%	1.6%
National Grid plc	1.9%	-9.3%	Rio Tinto	1.8%	20.4%

Exhibit 8: Top Over/Underweightsⁱ

FTSE RAFI™ UK 300 Index vs. FTSE All-Share Index					
Top Overweights	Active Weights	1-Yr Total Effect	Top Underweights	Active Weights	1-Yr Total Effect
Royal Dutch Shell	5.3%	0.8%	British American Tobacco	-1.7%	0.7%
BP	4.5%	0.9%	Diageo	-1.4%	-0.1%
Vodafone	1.3%	-0.3%	Reed Elsevier	-1.0%	0.1%
HSBC	1.2%	-0.1%	Reckitt Benckiser Group plc	-0.9%	0.0%
Barclays PLC	1.1%	-0.2%	Unilever	-0.8%	0.0%
Centrica	0.8%	0.0%	AstraZeneca	-0.7%	-0.1%
Glencore plc	0.8%	0.0%	Shire	-0.6%	0.0%
National Grid plc	0.8%	0.0%	Compass Group PLC	-0.4%	0.0%
Tesco	0.6%	0.2%	London Stock Exchange Group plc	-0.4%	-0.1%
Aviva plc	0.6%	0.0%	Melrose Industries PLC	-0.4%	0.1%

i. Exhibit 7, Exhibit 8.

Portfolio characteristics and securities data derived from FactSet. 1-Yr Total Effect is calculated using a holdings based attribution, and measures the impact that a security had on relative performance. It is a function of the active weight of a company as well as that company's performance versus the overall benchmark.



Attribution

Exhibit 9: Sector Attribution

Exhibit 9: Sector Attributionⁱ

1-Quarter Ending 09/30/2018

1-Year Ending 09/30/2018

Sector	Portfolio Weight	Bench. Weight	Sector Excess Return	Allocation Effect	Selection + Interaction Effect	Total Effect	Sector	Portfolio Weight	Bench. Weight	Sector Excess Return	Allocation Effect	Selection + Interaction Effect	Total Effect
Basic Materials	9.40%	9.51%	-1.83%	0.00%	0.01%	0.01%	Basic Materials	9.40%	9.51%	6.65%	0.02%	0.26%	0.28%
Consumer, Cyclical	8.19%	10.00%	-1.93%	0.01%	-0.10%	-0.09%	Consumer, Cyclical	8.19%	10.00%	-0.10%	-0.07%	-0.32%	-0.39%
Consumer, Non-Cyclical	12.15%	17.50%	-1.10%	0.02%	-0.09%	-0.07%	Consumer, Non-Cyclical	12.15%	17.50%	-3.07%	0.41%	0.56%	0.98%
Energy	24.47%	14.52%	3.05%	0.29%	0.00%	0.29%	Energy	24.47%	14.52%	20.89%	1.94%	0.29%	2.23%
Financial	22.93%	26.20%	-2.67%	0.03%	-0.38%	-0.34%	Financial	22.93%	26.20%	-8.58%	0.10%	-1.01%	-0.90%
Health care	7.27%	9.26%	6.67%	-0.13%	0.02%	-0.11%	Health care	7.27%	9.26%	10.83%	-0.19%	0.15%	-0.04%
Industrial	5.55%	6.08%	-0.88%	0.01%	0.01%	0.02%	Industrial	5.55%	6.08%	3.67%	-0.01%	0.06%	0.05%
Technology	0.45%	1.49%	-5.65%	0.03%	-0.01%	0.02%	Technology	0.45%	1.49%	-5.03%	0.12%	0.04%	0.15%
Telecommunications	4.58%	2.81%	-4.68%	-0.08%	-0.02%	-0.10%	Telecommunications	4.58%	2.81%	-20.18%	-0.43%	0.02%	-0.41%
Utilities	5.00%	2.63%	-3.69%	-0.10%	0.03%	-0.07%	Utilities	5.00%	2.63%	-14.52%	-0.25%	0.03%	-0.22%
Excess Return						-0.44%	Excess Return						1.73%

i. Exhibit 9
Portfolio characteristics and securities data derived from FactSet. The attributions have been normalized to match the return of the strategy, as presented in the performance table on page 2. Data prior to strategy inception is simulated. Strategy inception is March 16, 2012.



Disclosures

Source: FactSet based on data from FTSE Russell.

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Prior to 11/1/2016, the 1-yr performance values reported in the Top 10 Holdings exhibit and the Top Over/Underweights exhibit were incorrect. The calculation has been modified to report the appropriate values moving forward.

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