

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 Japan Index is part of the FTSE RAFI Country Index Series; the index is comprised of each Japanese stock in the FTSE RAFI Developed ex US 1000 Index.

Performance

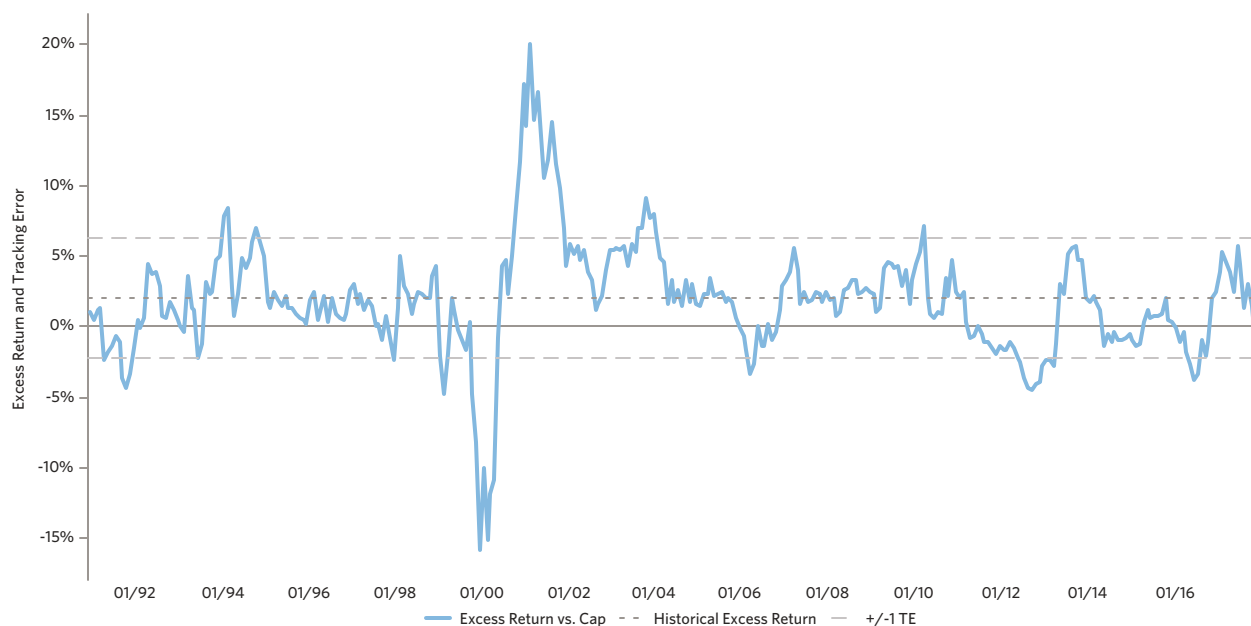
Exhibit 1:
Performance Table

Exhibit 2:
Rolling 1-Year Excess Returns

Exhibit 1: Performance Tableⁱ

	QTD	1-Yr	3-Yr	5-Yr	10-Yr	ITD*
FTSE RAFI™ Japan Index	8.8%	24.4%	13.4%	12.7%	4.4%	4.7%
FTSE All World Series Japan Index	8.8%	25.3%	12.7%	12.0%	3.7%	3.8%
Value Added	0.0%	-0.9%	0.7%	0.7%	0.7%	0.9%
MSCI Japan	8.5%	24.4%	12.0%	11.5%	3.4%	3.7%
Portfolio Standard Deviation		4.9%	13.3%	12.7%	16.5%	15.5%
Benchmark Standard Deviation		5.1%	12.5%	12.3%	15.6%	14.8%
Tracking Error		2.3%	3.1%	2.8%	3.0%	2.9%

Exhibit 2: Rolling 1-Year Excess Returnsⁱⁱ



i. Exhibit 1.
Performance derived from FactSet. All returns are total returns in USD. 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 November 28, 2005.

ii. Exhibit 2.
Performance derived from FactSet. All returns are total returns in USD. Rolling 1-year excess returns and tracking error are calculated starting January 31, 1990. If applicable, strategy returns prior to inception are simulated. Inception date is November 28, 2005.

The Value Premium

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

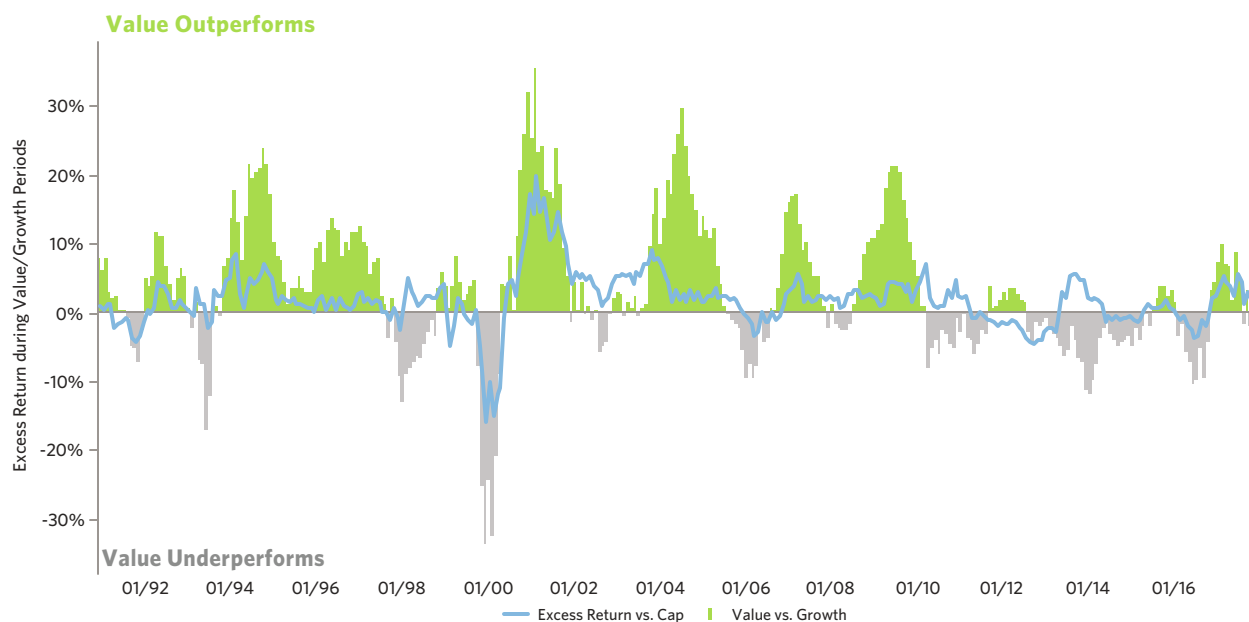
On a one-year rolling basis, the FTSE RAFI™ Japan Index outperformed 87% of the time when value won and 51% of the time when growth won.

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™ Japan Index delivered consistent outperformance over full market cycles, with positive excess returns in 74% of rolling 1-year periods, 82% of rolling 3-year periods, and 87% of rolling 5-year periods.

Exhibit 3: Rolling 1-Year Excess Returns

Exhibit 3: Rolling 1-Year Excess Returnsⁱ



ⁱ. Exhibit 3.
FTSE RAFI™ Japan Index rolling 1-year excess returns are measured against FTSE All World Series Japan Index. Value / Growth periods measured by rolling 1-year excess returns of MSCI Japan Value vs. MSCI Japan Growth. Calculation starts on January 31, 1990. Strategy returns prior to inception are simulated. Strategy inception is November 28, 2005.

Portfolio Characteristics

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

Exhibit 4:
Portfolio Characteristics

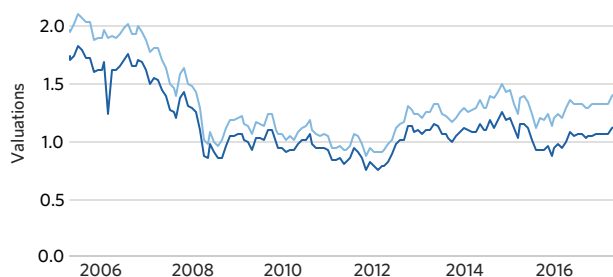
Exhibit 5:
Historical Portfolio Characteristics

Exhibit 4: Portfolio Characteristicsⁱ

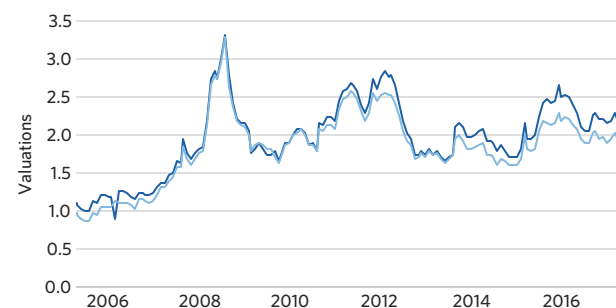
	Number of Holdings	Active Share	Price to Sales	Price to Cash Flow	Price to Book	Div. Yield	Market Cap. (Billions)	Sharpe Ratio*	Info. Ratio*	Tracking Error*
FTSE RAFI™ Japan Index	270	27.2	0.7	7.3	1.2	2.1%	38	0.23	0.32	2.9%
FTSE Japan	503	--	1.0	9.2	1.4	1.8%	34	0.18	--	--

Exhibit 5: Historical Portfolio Characteristicsⁱⁱ

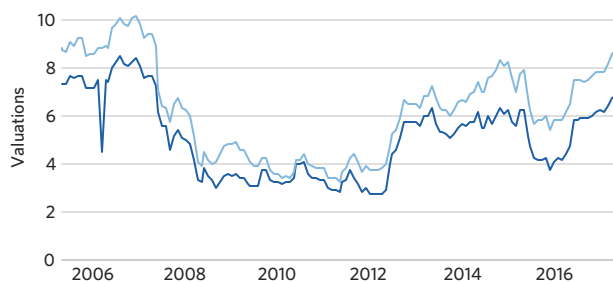
Price to Book



Dividend Yield (%)



Price to Cash Flow



Price to Sales



— FTSE RAFI™ Japan Index (Left) — FTSE Japan (Left)

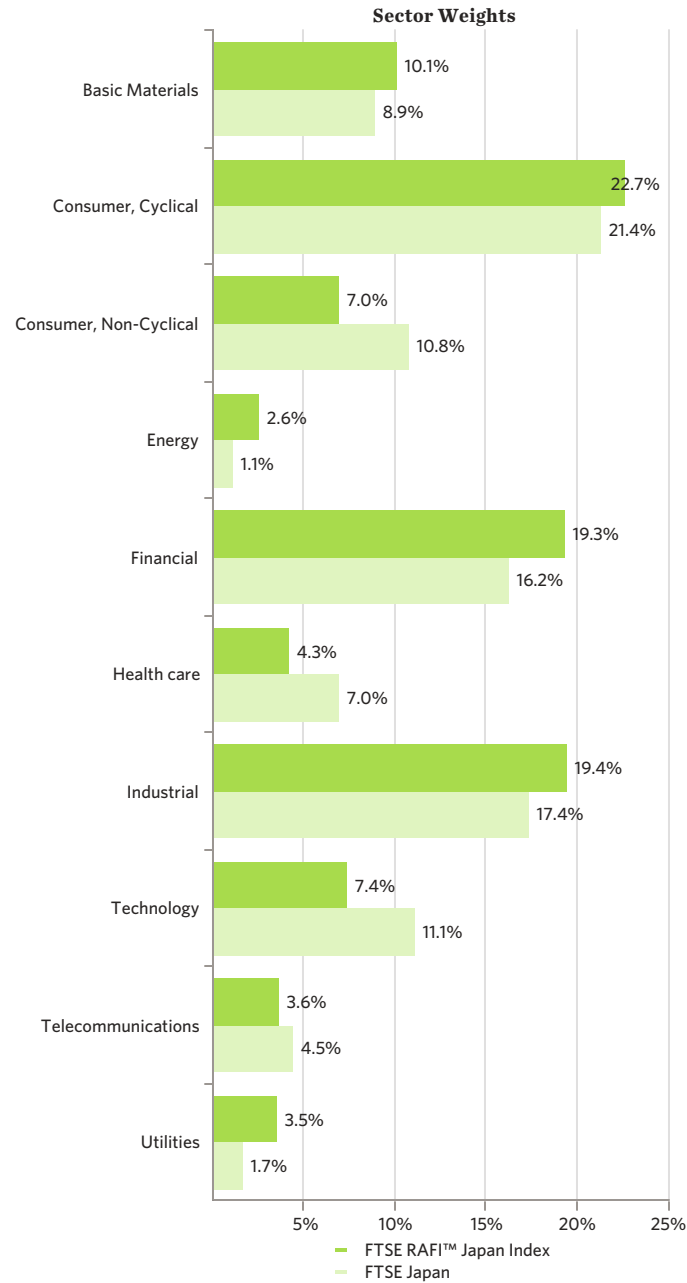
i. Exhibit 4.
Portfolio characteristics data derived from FactSet.
*Sharpe Ratio, Information Ratio, and Tracking Error are calculated starting the first full month of returns following November 28, 2005. Minimum 1-year return history. The 3-mo US Treasury Bill return is used as a proxy for risk-free rate. If applicable, strategy returns prior to inception are simulated. Inception date is November 28, 2005.

ii. Exhibit 5.
Portfolio characteristics derived from FactSet. Data prior to strategy inception is simulated. Strategy inception is November 28, 2005.

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™ Japan Index vs. FTSE All World Series Japan Index					
Index	Weights	1-Yr Perf.	Benchmark	Weights	1-Yr Perf.
Toyota	5.9%	12.6%	Toyota	4.2%	12.6%
Mitsubishi Financial	3.8%	21.9%	Mitsubishi Financial	2.4%	21.9%
Honda	2.4%	19.2%	SoftBank Group Corp.	1.7%	19.9%
Sumitomo Mitsui Financial Group, Inc.	2.4%	16.8%	Honda	1.6%	19.2%
Hitachi	2.2%	46.6%	Sumitomo Mitsui Financial Group, Inc.	1.5%	16.8%
Mizuho Financial Group, Inc.	1.9%	4.9%	Sony	1.5%	60.2%
Sony	1.7%	60.2%	Keyence Corporation	1.3%	65.4%
Mitsubishi Corporation	1.5%	32.8%	Fanuc Corporation	1.2%	43.5%
SoftBank Group Corp.	1.3%	19.9%	Mizuho Financial Group, Inc.	1.2%	4.9%
Canon	1.3%	39.1%	KDDI Corporation	1.1%	0.6%

Exhibit 8: Top Over/Underweightsⁱ

FTSE RAFI™ Japan Index vs. FTSE All World Series Japan Index					
Top Overweights	Active Weights	1-Yr Total Effect	Top Underweights	Active Weights	1-Yr Total Effect
Toyota	1.7%	0.0%	Keyence Corporation	-1.1%	-0.3%
Mitsubishi Financial	1.4%	0.0%	Nintendo Co., Ltd.	-0.7%	-0.3%
Hitachi	1.3%	0.2%	Fanuc Corporation	-0.6%	-0.1%
Sumitomo Mitsui Financial Group, Inc.	0.9%	-0.1%	Nidec Corporation	-0.5%	-0.1%
Honda	0.8%	0.0%	Recruit Holdings Co., Ltd.	-0.5%	-0.2%
Toshiba Corporation	0.8%	-0.1%	Shin-Etsu Chemical Co Ltd	-0.4%	0.0%
Mizuho Financial Group, Inc.	0.8%	-0.2%	SoftBank Group Corp.	-0.4%	0.0%
JXTG Holdings, Inc.	0.7%	0.1%	Tokyo Electron Ltd.	-0.4%	-0.2%
Tokyo Electric Power	0.7%	-0.2%	Daikin Industries, Ltd.	-0.4%	0.0%
Mitsubishi Corporation	0.6%	0.0%	Murata Manufacturing Co., Ltd.	-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

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1-Quarter Ending 12/31/2017

Sector	Portfolio Weight	Bench. Weight	Sector Excess Return	Allocation Effect	Selection + Interaction Effect	Total Effect
Basic Materials	10.14%	8.90%	3.48%	0.03%	-0.02%	0.01%
Consumer, Cyclical	22.68%	21.38%	-0.59%	0.00%	-0.01%	-0.01%
Consumer, Non-Cyclical	6.95%	10.78%	-2.88%	0.02%	-0.04%	-0.02%
Energy	2.63%	1.11%	18.68%	0.24%	-0.20%	0.03%
Financial	19.32%	16.24%	0.66%	0.00%	0.02%	0.02%
Health care	4.27%	6.97%	-1.04%	0.05%	-0.04%	0.01%
Industrial	19.43%	17.39%	2.10%	0.05%	-0.05%	0.00%
Technology	7.43%	11.10%	-1.94%	0.00%	-0.02%	-0.02%
Telecommunications	3.62%	4.45%	-9.95%	0.09%	-0.08%	0.01%
Utilities	3.52%	1.68%	-10.22%	-0.21%	0.18%	-0.03%
Excess Return						0.00%

1-Year Ending 12/31/2017

Sector	Portfolio Weight	Bench. Weight	Sector Excess Return	Allocation Effect	Selection + Interaction Effect	Total Effect
Basic Materials	10.14%	8.90%	14.16%	0.16%	0.17%	0.33%
Consumer, Cyclical	22.68%	21.38%	-1.90%	-0.01%	-0.07%	-0.08%
Consumer, Non-Cyclical	6.95%	10.78%	-2.73%	-0.04%	-0.17%	-0.21%
Energy	2.63%	1.11%	23.91%	0.30%	-0.10%	0.20%
Financial	19.32%	16.24%	-8.87%	-0.33%	0.25%	-0.09%
Health care	4.27%	6.97%	-3.50%	0.17%	0.02%	0.19%
Industrial	19.43%	17.39%	5.19%	0.12%	-0.14%	-0.02%
Technology	7.43%	11.10%	5.57%	-0.52%	-0.41%	-0.93%
Telecommunications	3.62%	4.45%	-14.55%	0.10%	-0.04%	0.06%
Utilities	3.52%	1.68%	-25.44%	-0.50%	0.16%	-0.34%
Excess Return						-0.88%

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 November 28, 2005.

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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