

INCEPTION:
May 2018

BENCHMARK:
MSCI Emerging Markets
IMI Index

STRATEGY ASSETS:
£ 263 million

LEAD PORTFOLIO MANAGER:
Arup Datta, MBA, CFA

STRATEGY OVERVIEW

We seek to provide long-term capital appreciation by applying a quantitative, bottom-up stock selection investment process, based on fundamental insights, to a broad emerging market universe.

- Focus on Stock Selection
- Core focus that aims to add value across a variety of market conditions, both growth and value
- Nimble – incorporating daily changes in stock alpha rankings
- Daily rebalancing & trading, predictive transaction cost modelling, focus on capacity
- Mid and small cap focus

APPROACH

- Bottom-up, quantitative stock selection process applied to a broad investable universe of over 5,000 securities from 24 emerging markets countries and a select number of frontier countries.
- Stocks are analyzed through a region/sector relative model framework.
- Individual stock weights are assigned based upon sub-factors, which are grouped into the three aggregate factors, Value, Revisions, and Quality.
 - **Value:** focuses on value metrics, consisting of cash flow, dividend, book, revenue and earnings based sub-factors.
 - **Revisions:** focuses on analyst revisions in forecasts.
 - **Quality:** incorporates sub-factors based upon capital allocation, operating efficiency and the application of accounting principles.
- Contextual modeling is utilized to further refine the weights of factors assigned to stocks.
- The priority in executing the investment process is to remain nimble in seeking to generate alpha for clients. To retain this advantage, the team uses a proprietary transaction cost model, rebalances daily and maintains a strict focus on capacity.

INVESTMENT PROCESS

Universe



- Proprietary data warehouse
- Investable universe of 5,000 securities
- Emerging Markets
- Select Frontier Markets

Stock selection



- Bottom-up
- Region and sector relative
- Alpha Factors
- Contextual

Portfolio construction



- Return Forecast
- Constraint-based optimization
- Proprietary risk models
- PM review

Implementation

- Transaction cost estimates
- Pre/Post trade analysis
- Capacity limits
- CIO/Compliance review

Investing involves risk. Please read the important disclosures under "Disclaimer" which contain more information about the significance and the limitations of the information on this page.

SECTOR ALLOCATION

| SECTOR | PORTFOLIO | BENCHMARK |
|------------------------|----------------|----------------|
| Financials | 19.15% | 20.39% |
| Information Technology | 18.69% | 16.98% |
| Consumer Discretionary | 13.78% | 15.17% |
| Communication Services | 13.37% | 12.22% |
| Materials | 8.51% | 7.08% |
| Industrials | 6.74% | 5.68% |
| Health Care | 5.77% | 4.25% |
| Consumer Staples | 5.06% | 6.60% |
| Energy | 4.16% | 5.53% |
| Real Estate | 1.95% | 3.39% |
| Utilities | 1.26% | 2.71% |
| Cash & Equivalents | 1.57% | 0.00% |
| | 100.00% | 100.00% |

GEOGRAPHIC ALLOCATION

| COUNTRY | PORTFOLIO | BENCHMARK |
|----------------------|----------------|----------------|
| China | 39.14% | 38.07% |
| Taiwan | 16.15% | 13.34% |
| South Korea | 13.86% | 12.38% |
| India | 7.28% | 8.18% |
| Brazil | 4.69% | 5.11% |
| Russia | 3.57% | 3.07% |
| South Africa | 3.16% | 3.65% |
| Saudi Arabia | 2.32% | 2.62% |
| Mexico | 1.86% | 1.95% |
| Indonesia | 1.37% | 1.49% |
| Philippines | 1.27% | 0.83% |
| Thailand | 0.98% | 2.32% |
| United Arab Emirates | 0.90% | 0.55% |
| Turkey | 0.86% | 0.53% |
| Egypt | 0.30% | 0.16% |
| Nigeria | 0.26% | 0.00% |
| Malaysia | 0.22% | 2.01% |
| Argentina | 0.22% | 0.18% |
| Greece | 0.03% | 0.26% |
| Other | 0.00% | 3.30% |
| Cash & Equivalents | 1.57% | 0.00% |
| | 100.00% | 100.00% |

WEIGHTINGS RELATIVE TO BENCHMARK

| OVERWEIGHT | SECTOR | COUNTRY | ACTIVE WEIGHT |
|---|-------------|--------------|---------------|
| Realtek Semiconductor Corp. | Info. Tech. | Taiwan | +1.79% |
| NetEase Inc. | Comm. Serv. | China | +1.73% |
| Anhui Conch Cement Co. Ltd. | Materials | China | +1.71% |
| China National Building Material Co. Ltd. | Materials | China | +1.68% |
| China Construction Bank Corp. | Financials | China | +1.63% |
| UNDERWEIGHT | SECTOR | COUNTRY | ACTIVE WEIGHT |
| Alibaba Group Holding Ltd. | Cons. Disc. | China | -1.23% |
| Naspers Ltd. | Cons. Disc. | South Africa | -1.21% |
| Tencent Holdings Ltd. | Comm. Serv. | China | -0.88% |
| Reliance Industries Ltd. | Energy | India | -0.80% |
| China Mobile Ltd. | Comm. Serv. | China | -0.71% |

TOP TEN HOLDINGS (%)

| HOLDING | SECTOR | COUNTRY | WEIGHT |
|---|-------------|-------------|--------------|
| Alibaba Group Holding Ltd. | Cons. Disc. | China | 5.2% |
| Tencent Holdings Ltd. | Comm. Serv. | China | 4.5% |
| Taiwan Semiconductor Manufacturing Co. Ltd. | Info. Tech. | Taiwan | 4.3% |
| Samsung Electronics Co. Ltd. | Info. Tech. | South Korea | 3.5% |
| China Construction Bank Corp. | Financials | China | 3.1% |
| Ping An Insurance Group Co. of China Ltd. | Financials | China | 2.6% |
| NetEase Inc. | Comm. Serv. | China | 2.2% |
| Bank of China Ltd. | Financials | China | 2.1% |
| Anhui Conch Cement Co. Ltd. | Materials | China | 1.9% |
| SK Hynix Inc. | Info. Tech. | South Korea | 1.9% |
| Total: | | | 31.2% |
| Cash & Equivalents | | | 1.6% |

CHARACTERISTICS

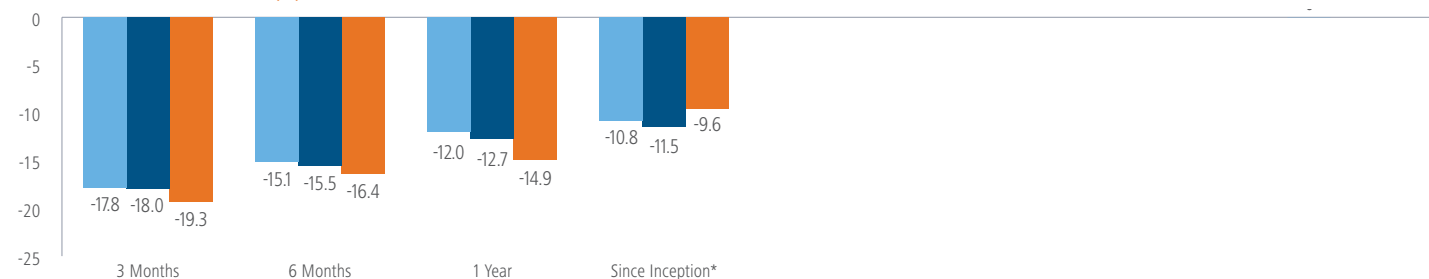
| | PORTFOLIO | BENCHMARK |
|------------------------------------|-----------|-----------|
| Forward Price/Earnings | 7.3 | 10.7 |
| Price/Tangible Book | 1.2 | 1.4 |
| Price/Cash Flow | 4.7 | 6.1 |
| Price/Sales | 0.8 | 0.9 |
| % Net Earnings Revisions (3M) | -12% | -34% |
| % Net Sales Revisions (3M) | -10% | -28% |
| % Net Target Price Revisions (3MO) | -13% | -9% |
| Share Buy Back | -0.1% | -1.2% |
| FCF Margin | 16% | 13% |
| Predicted Beta | 1.1 | 1.0 |
| Dividend Yield | 3.9 | 3.2 |
| Turnover (1 year to March) | 164.1 | N/A |
| Median Market Cap (GBP millions) | 1,947 | 1,016 |
| Weighted Market Cap (GBP millions) | 75,784 | 85,109 |

RISK

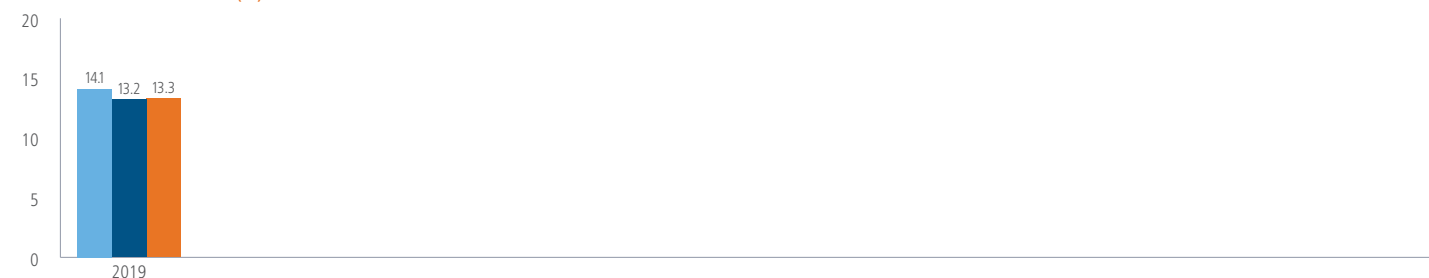
| | PORTFOLIO | BENCHMARK |
|-----------------------------------|-----------|-----------|
| Standard Dev. (3-yr Trailing) | N/A | N/A |
| Alpha (3-yr Trailing) | N/A | N/A |
| Beta (3-yr Trailing) | N/A | N/A |
| Sharpe Ratio (3-yr Trailing) | N/A | N/A |
| Tracking Error (3-yr Trailing) | N/A | N/A |
| Information Ratio (3-yr Trailing) | N/A | N/A |

COMPOSITE PERFORMANCE (£)

COMPOUND ANNUAL RETURNS (%)



CALENDAR YEAR RETURNS (%)



■ Mackenzie Emerging Markets All Cap Equity (Gross)
 ■ Mackenzie Emerging Markets All Cap Equity (Net)
 ■ MSCI Emerging Markets IMI Index

*Since Composite Inception on June 1, 2018

Past performance does not guarantee or indicate future results. Mackenzie Portfolio Analytics Group is responsible for calculating the non-benchmark information shown above. That information, which does not constitute formal investment guidelines/restrictions, is subject to change from time to time and over time.

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Gross and net returns do not include the deduction of custody fees. The returns assume the reinvestment of dividends, interest, and realized and unrealized capital gains and losses. Gross performance results also do not reflect the deduction of management fees and other fees and expenses. Net performance results reflect the deduction of the maximum standard fee of 0.85% charged to institutional clients without considering breakpoints, calculated daily and invoiced quarterly, as well as the transaction costs and other fees and expenses, including certain taxes. Index returns do not reflect transaction costs or the deduction of other fees and expenses and it is not possible to invest directly in an index.

COMPLIANCE STATEMENT

Mackenzie Investments claims compliance with the Global Investment Performance Standards (GIPS®).

COMPOSITE DESCRIPTION

The Emerging Markets All Cap Composite seeks to provide long-term capital appreciation and outperform its benchmark (MSCI EM IMI Index). The strategy applies a quantitative, bottom-up stock selection investment process, based on fundamental insights, to emerging and selected frontier markets across all-cap stocks. The investment process focuses on a succinct, high conviction set of factors, which are applied within the context of a region/sector/industry relative model.

BENCHMARK DESCRIPTION

The benchmark is the MSCI Emerging Markets Investable Market Index, net of withholding tax. The MSCI Emerging Markets Investable Market Index is a free float adjusted, market capitalization weighted index that is designed to measure the large, mid and small cap equity market performance of emerging markets. It consists of 24 emerging market country indices.

REPORTING CURRENCY

Valuations and composite performance are reported in Pounds. The composite includes Canadian dollar and U.S. dollar portfolios that have been converted to Pounds. Returns were converted at the end of each month based on the 4:00 PM spot rate on the last business day of the month as reported by StatPro to our system vendor CGI StarSource.

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MACKENZIE INVESTMENTS

180 Queen Street West, Toronto, Ontario M5V 3K1

T 416 967-2380

F 416 922-3435

E cdeveau@mackenzieinvestments.com

mackenzieinvestments.com