

MSCI CUSTOM RISK WEIGHTED INDEXES

An Approach to Combining Low Risk and Size Exposure

Index Marketing

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- The MSCI Risk Weighted Indexes are uniquely designed to reflect the low volatility and smaller size effect
- The indexes employ a simple yet effective method to overweight low risk and smaller market cap stocks
- The MSCI Risk Weighted Indexes can be replicated cost-effectively, used to benchmark low volatility managers, and in combination with other MSCI Factor Indexes
- The MSCI Europe Risk Weighted Top 100 Index Hedged to CAD is customized to contain a maximum of 100 stocks

Why Do Investors Use Risk Weighted Strategies?

- Reduction of portfolio risk by about 10% over the long-term, with less drawdown than the broad market
- Historically, these strategies have yielded higher risk-adjusted returns
- To gain exposure to smaller size stocks, mostly mid-caps, while maintaining a structural bias towards less volatile stocks

Key Characteristics of the MSCI Risk Weighted Indexes

- Effective and transparent risk reduction weighting via the inverse of realized variance
- Emphasis on low risk and smaller market cap stocks
- Number of constituents from the parent index is customizable (e.g., the top 200)
- Low annual index turnover
- High investability and replicability

Upside and Downside Capture

- The upside and downside capture ratios of a risk weighted index indicate how it has performed over periods of market strength and weakness relative to its parent index
- Since May 2003 through Dec 2016, the MSCI Europe Risk Weighted Top 100 Hedged to CAD captured 67% of the positive returns of its parent
- Over the same period, the MSCI Europe Risk Weighted Top 100 Hedged to CAD lost 33% relative to the losses of the parent

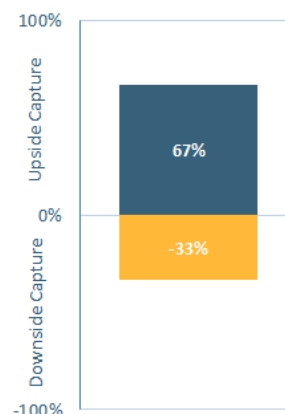
Net Returns of the MSCI Europe Risk Weighted Top 100, the MSCI Europe Risk Weighted Top 100 Hedged to CAD, and the MSCI Europe Indexes (CAD) (May 2003 – Dec 2016)



Historical Net Total, CAD	MSCI Europe	MSCI Europe Risk Weighted Top 100	MSCI Europe Risk Weighted Top 100 Hedged to CAD
Total Return* (%)	6.19	9.36	10.36
Return Risk* (%)	14.25	11.68	10.31
Risk Adjusted Return	0.43	0.80	1.00
Active Return* (%)	0.00	3.17	4.17
Tracking Error* (%)	0.00	6.44	9.89

* Annualized from May 2003 to Dec 2016

Upside & Downside Capture:
MSCI Europe Risk Weighted Top 100 Hedged to CAD vs. MSCI Europe Index



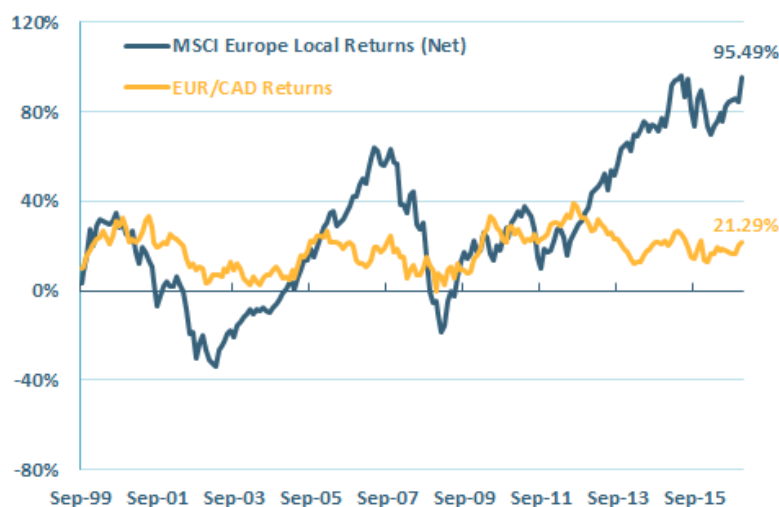
MSCI Customized Risk Weighted Hedged to CAD Methodology Highlights

Parameter	Methodology	Comments
Universe	All constituents of the market cap-weighted parent index are assigned a security-level risk weight and ranked so that stocks with lower risk have higher index weights; the top 100 securities with the highest weights are then selected	Approach obtains a targeted low volatility opportunity set
Variables	3-year historical variance	Objective measure that captures the variation of historical volatility
Weighting	The index first reweights every security in the parent index so that stocks with lower risk (based on their 3-year variance) are given higher risk weights. The final constituents of the MSCI Europe Risk Weighted Top 100 Index are determined by ranking these security level risk weights and taking the top 100 subset securities	Effective risk reduction weighting scheme
Hedging	Notionally "buy" the equity index portfolio and "sell" foreign currency forwards at the one-month forward rate, based on their market cap value in the MSCI Europe Risk Weighted Top 100 Index	Reflects the equity performance of the unhedged MSCI Risk Weighted Top 100 Index, while removing the impacts of currency fluctuations
Rebalancing	Semi-annual	Timely data updates, consistent with the MSCI rebalancing calendar

On Currency Hedging

- Currency fluctuations can substantially impact the performance and volatility of foreign equity indexes—both positively and negatively
- There may be periods in the investment cycle when investors are comfortable taking on both equity and currency risk; at other times, investors may wish to decouple the two by hedging exposure to foreign currencies
- In the short run, currency returns can be driven by an array of factors, including Central Bank decisions, changes in inflation, the balance of trade and cross-country capital flows
- For example, from peak to trough (Jun 2001 to Dec 2002), the EUR/CAD exchange rate lost nearly 90% of its value (See chart.)

A Comparison of the MSCI Europe Index Returns in Local Currency vs. the EUR/CAD Currency (Feb 99 – Dec 16)



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