



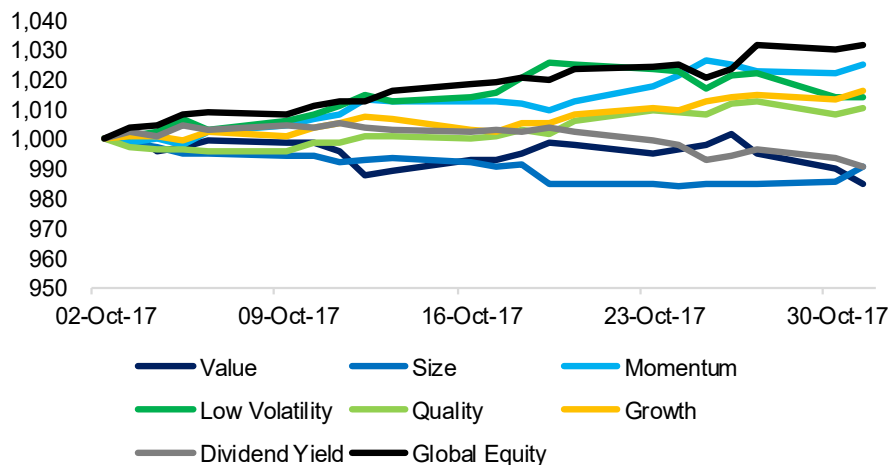
Factor Performance & Research Update

Factor Performance Update

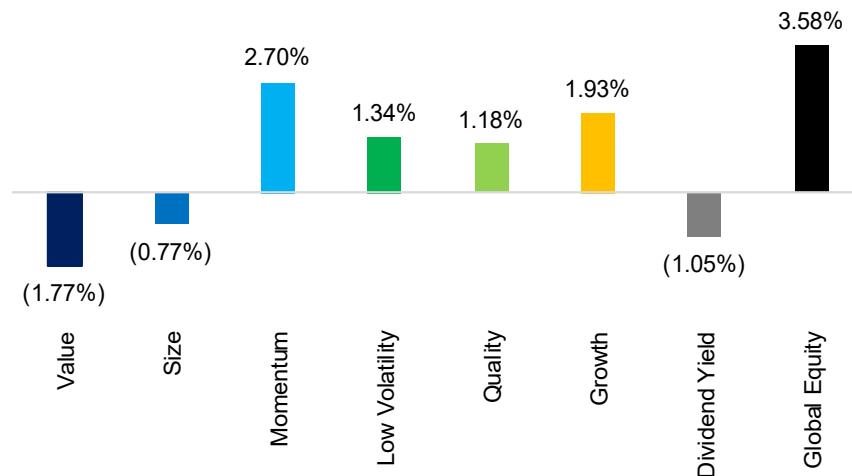
Factor Performance Update: October

January 2017 Consensus Trade, i.e. Value, Continues to Underperform

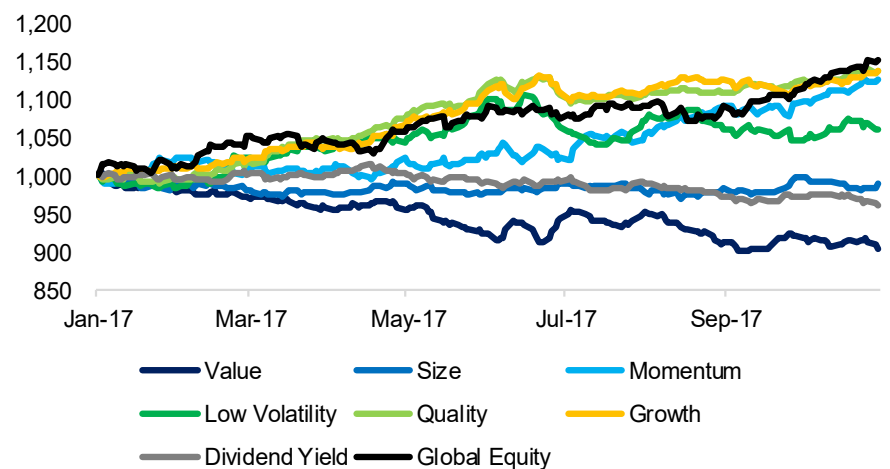
Global Equity Factors (L/S): Last Month



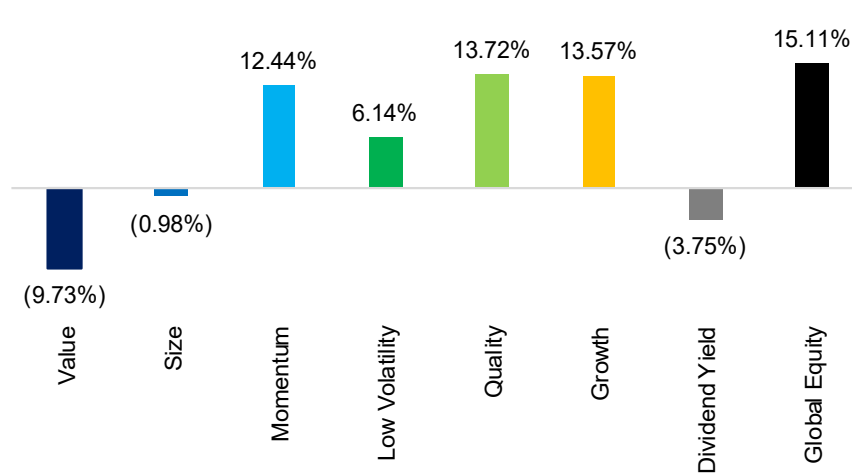
Global Equity Factors (L/S): Last Month



Global Equity Factors (L/S): YTD



Global Equity Factors (L/S): YTD



Research Topic 1:
Death, Taxes and Mean-Reversion

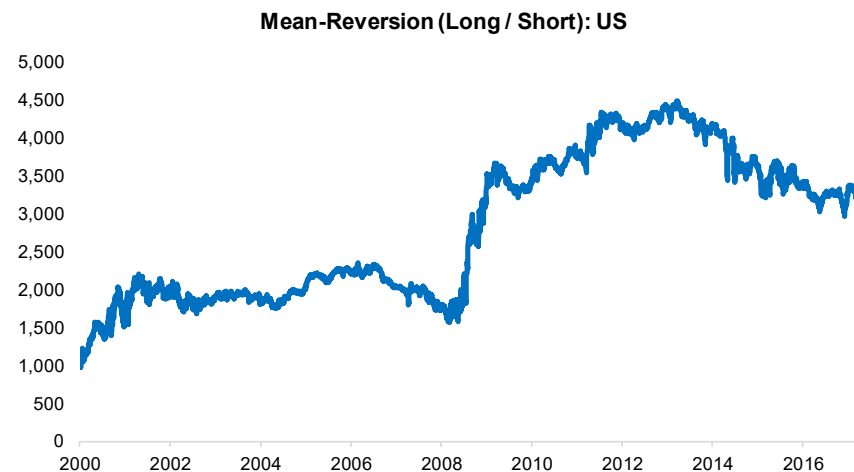
Death, Taxes & Mean-Reversion (I / II)

Low Market Volatility, Low Mean-Reversion Returns

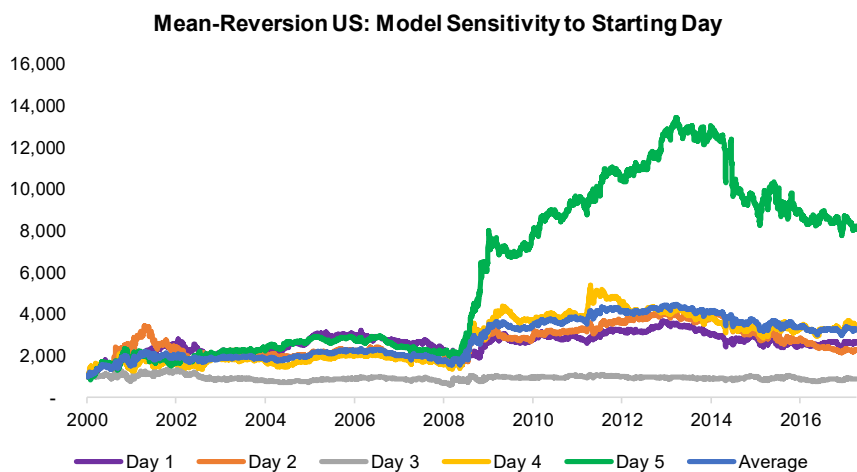
Comment

- Mean-Reversion is defined as buying last week's losers and shorting the winners
- Has not performed well over last few years
 - Requires higher levels of market volatility
- Highly sensitive to model assumptions

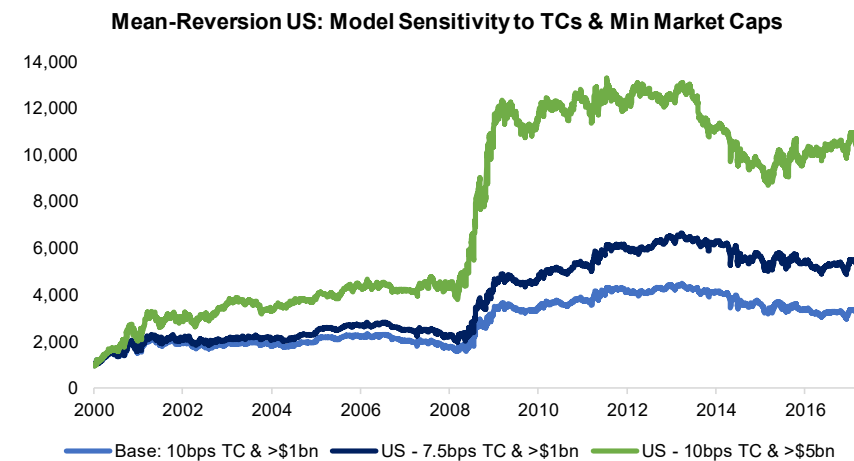
Mean-Reversion (Long / Short): US



Mean-Reversion US: Model Sensitivity to Starting Day



Model Sensitivity to TCs & Min Market Caps



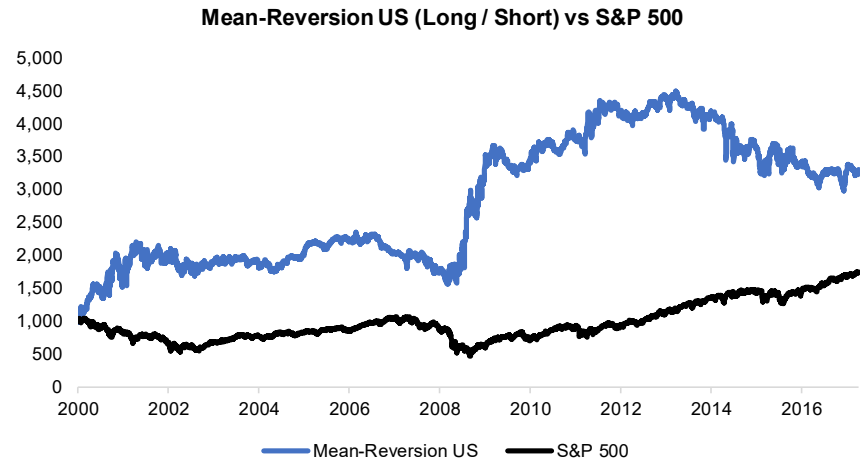
Death, Taxes & Mean-Reversion (II / II)

Attractive Addition for an Equity-Centric Portfolio

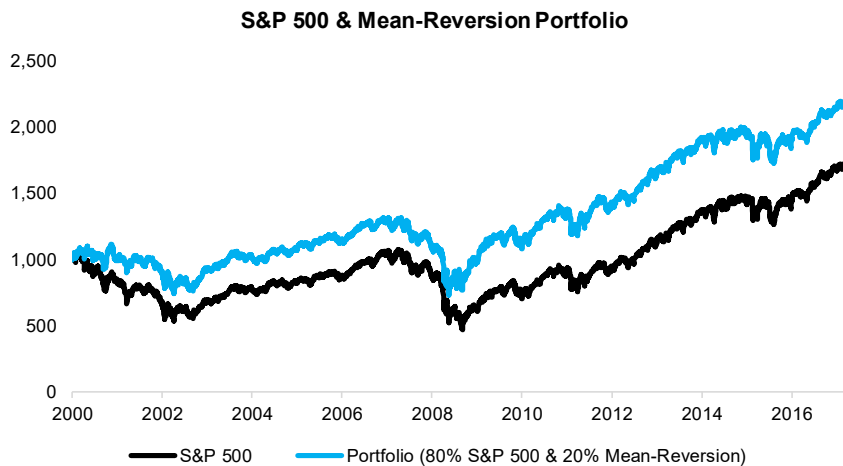
Comment

- Mean-Reversion does well when volatility is high, which occurs typically when markets decline
 - Attractive addition for an equity-centric portfolio

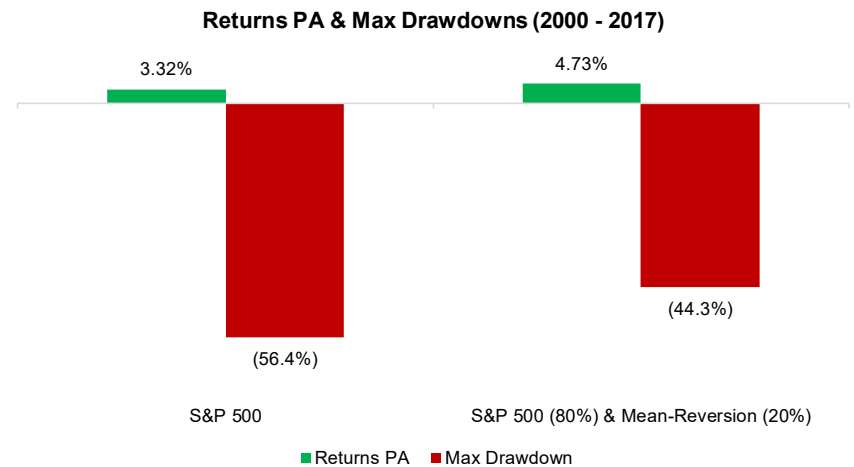
Mean-Reversion (Long / Short): US



S&P 500 & Mean-Reversion Portfolio



Returns PA & Max Drawdowns (2000 - 2017)



Research Topic 2:
Quality Factor: Zero Alpha for Most Investors?

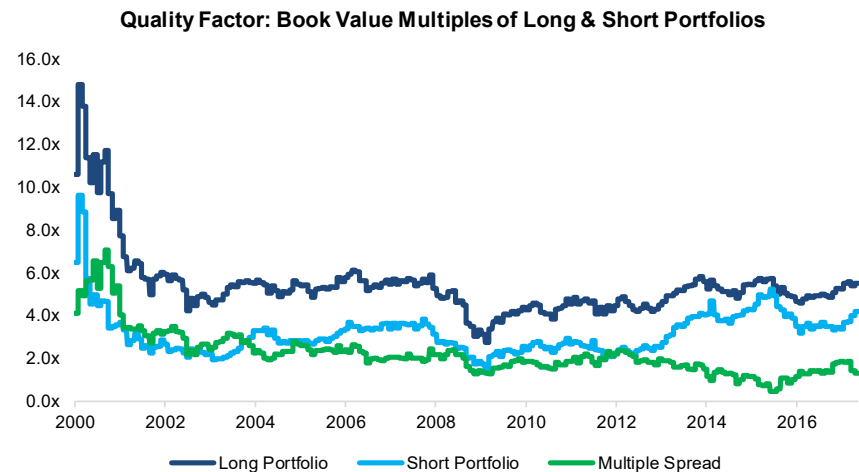
Quality Factor: Zero Alpha for Most Investors? (I / II)

Why Should there be Positive Returns from the Quality Factor?

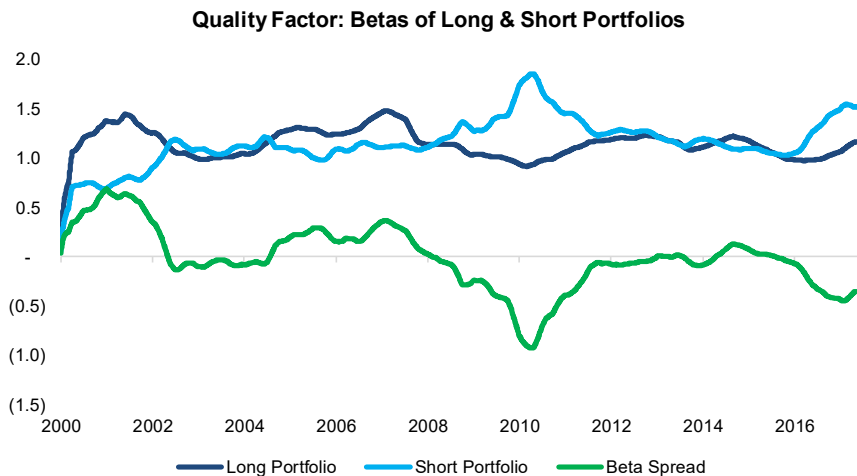
Comment

- Quality factor (long/short) is defined as a combination of return-on-equity and debt-over-equity
- It's difficult to rationalise why there should be excess returns from high quality stocks
 - Most investors like stocks with quality characteristics

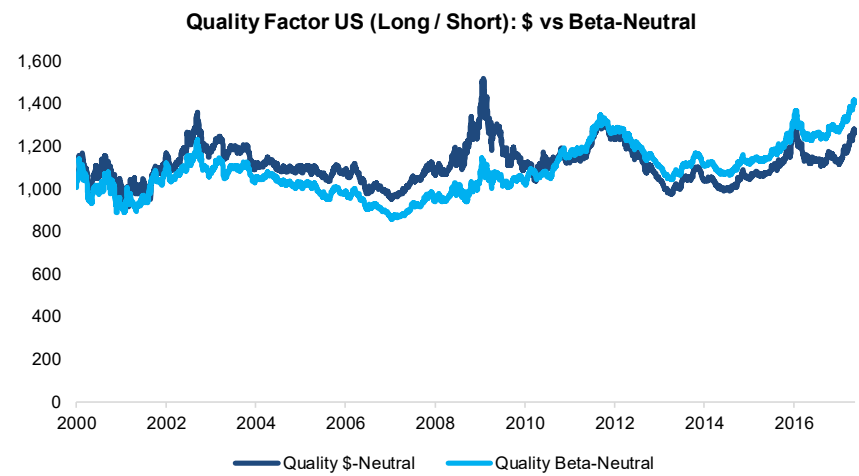
Quality Factor: Book Value Multiples of Long & Short Portfolios



Quality Factor US (Long / Short): \$ vs Beta-Neutral



Quality Factor US (Long / Short): \$ vs Beta-Neutral



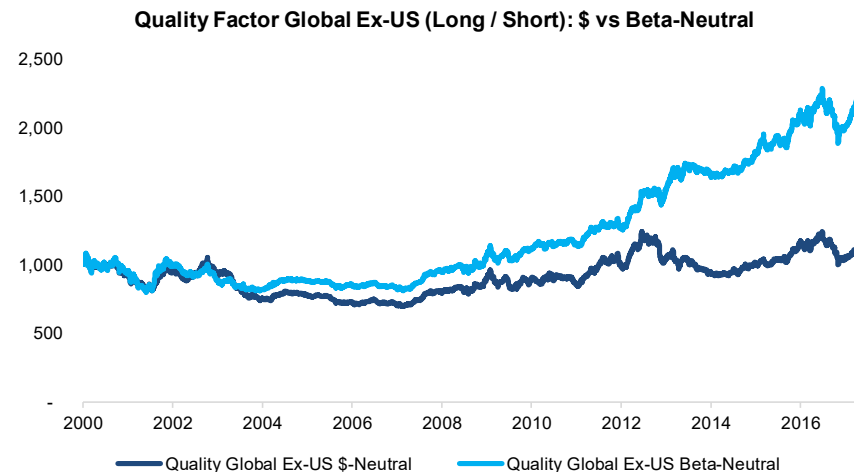
Quality Factor: Zero Alpha for Most Investors? (II / II)

Requires Beta-Neutrality for Positive Excess Returns

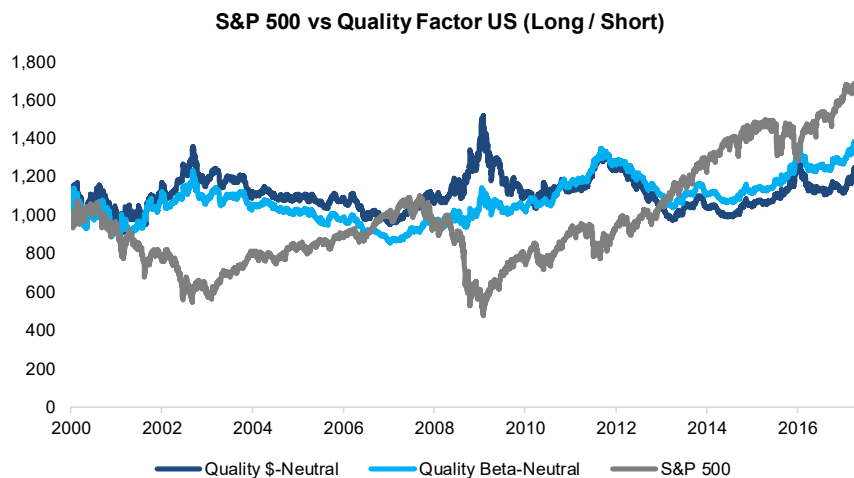
Comment

- Factor construction matters
 - Significant difference between beta and \$-neutral portfolios
- Quality tends to move opposite of the market
 - Attractive addition to an equity-centric portfolio

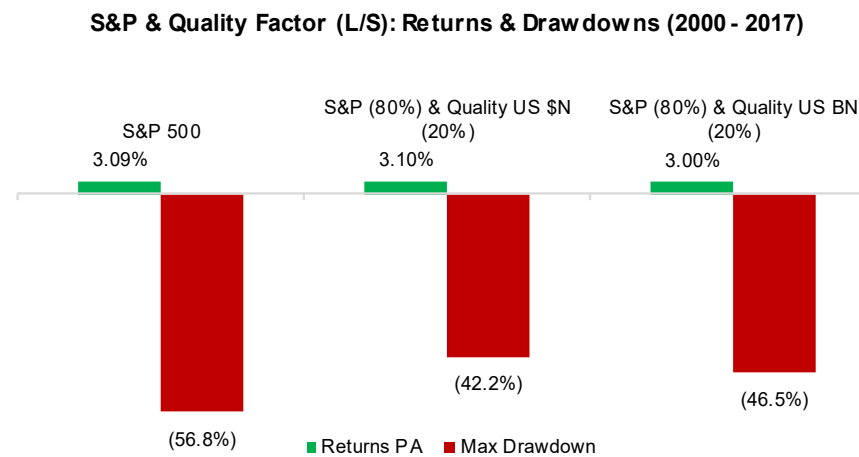
Quality Factor Global Ex-US: \$ vs Beta-Neutral



S&P 500 vs Quality Factor US (Long / Short)



S&P 500 & Quality Factor: Return PA & Max Drawdowns



Research Topic 3:
Factor Allocation 101: Equal vs Volatility-Weighted?

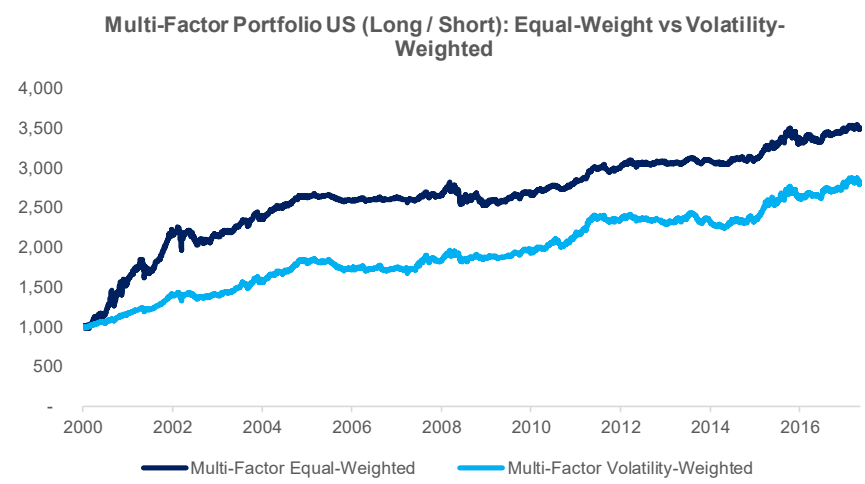
Factor Allocation 101: Equal vs Volatility-Weighted? (I / II)

Vol-Weighted Portfolios Don't Show Higher Returns than Equal-Weight Portfolios

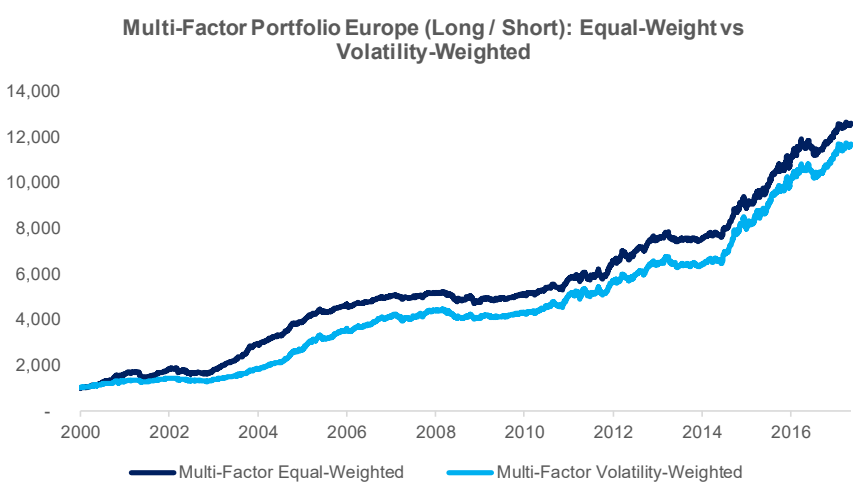
Comment

- Equal-weight and volatility-weighted allocations are two common factor allocation frameworks
- Multi-factor portfolios include Value, Size, Momentum, Low Volatility, Quality and Growth
 - All constructed as beta-neutral long-short portfolios

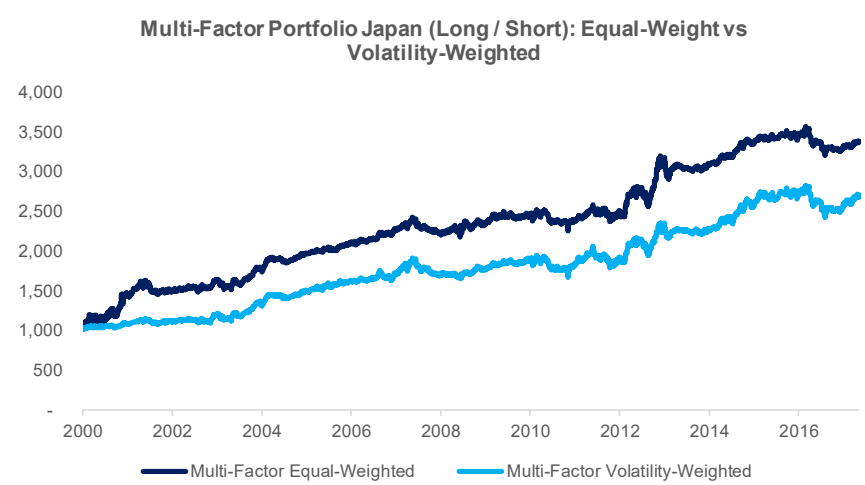
Multi-Factor Portfolio US (L/S): Equal- vs Vol-Weighted



Multi-Factor Portfolio Europe (L/S): Equal- vs Vol-Weighted



Multi-Factor Portfolio Japan (L/S): Equal- vs Vol-Weighted



Factor Allocation 101: Equal vs Volatility-Weighted? (II / II)

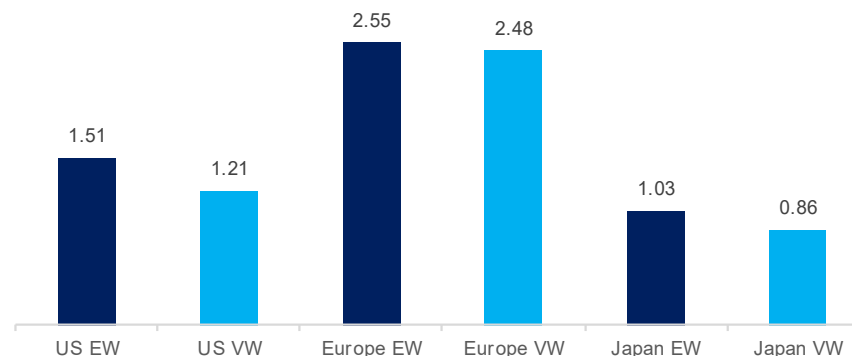
Risk-Return Ratios and Max Draw-Downs Don't Improve with Vol-Weighting

Comment

- Risk-return ratios and drawdowns don't improve with volatility-weighted allocations
- Different reasons can explain the superiority of equal-weight allocations
 - The relationship between historical and future volatility is weak
 - Higher factor volatility does not imply lower risk-return ratios for all factors

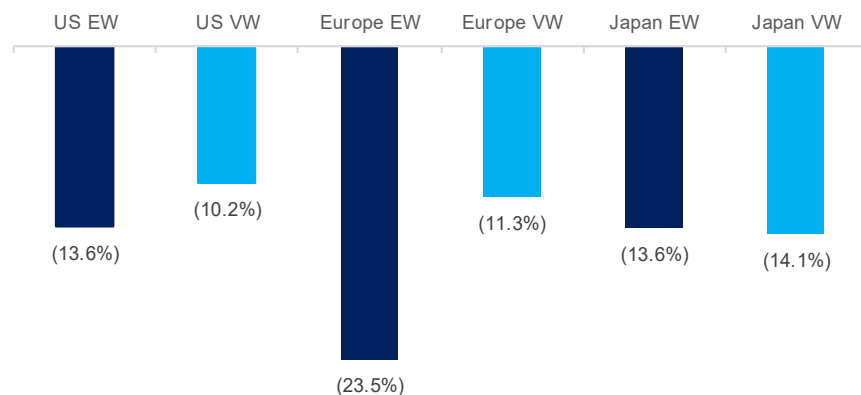
Risk-Return Ratios

Multi-Factor Portfolios (L/S): Equal-Weight vs Vol-Weighted: Risk-Return Ratios



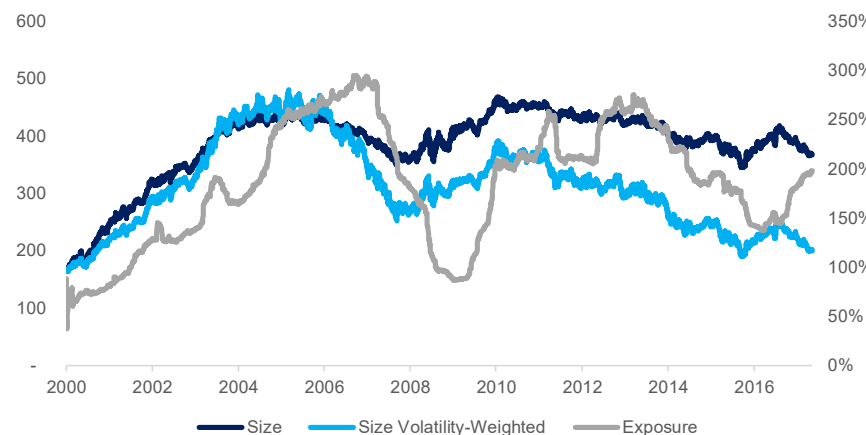
Max Drawdowns

Multi-Factor Portfolios (L/S): Equal-Weight vs Vol-Weighted: Max Drawdowns



Size Factor US: Base vs Volatility-Weighted

Size Factor US (Long / Short): Base vs Volatility-Weighted



Q&A

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Contact Details

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