

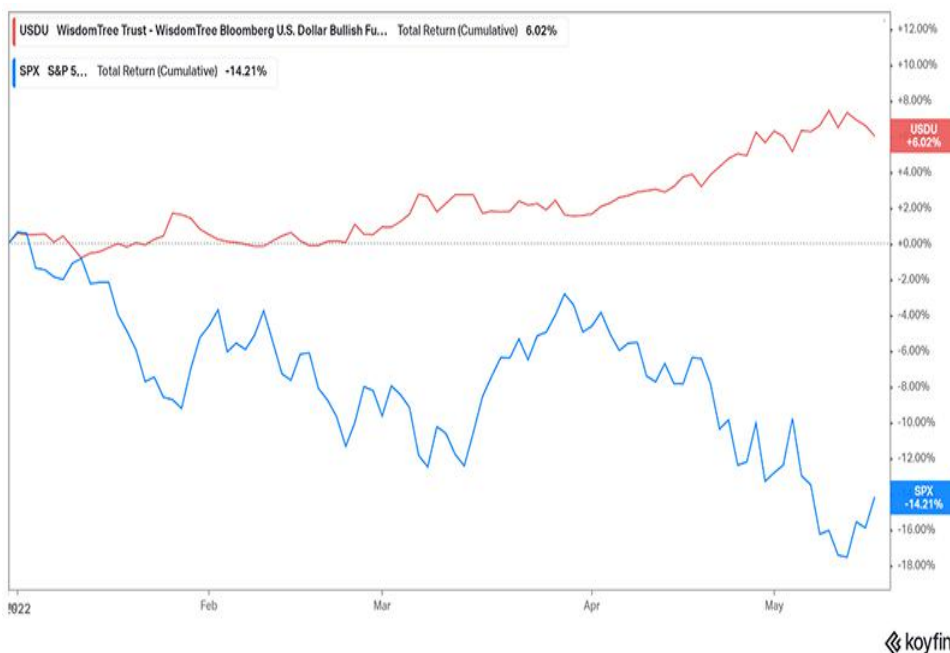
MANAGING CURRENCY RISK IN A SYSTEMATIC FASHION

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Despite fears of a collapsing U.S. dollar fueled by high [inflation](#) levels, the dominating driver for currencies has been an aggressive Federal Reserve [hiking rates](#), while [central banks](#) from Europe and Japan have been slow to remove their accommodation. The Bank of Japan (BoJ) has rather aggressively defended capping its long-term bond [yields](#), which has sent the yen downward as a growing gap exists between [U.S. Treasuries](#) and [Japanese government bonds \(JGBs\)](#).

The Dollar: A [Hedge](#) on Risk

The dollar has been one of the most negatively [correlated](#) assets to the [S&P 500](#) over the last 12 months—and also the last decade—and the evidence questions the merit of assuming foreign currency [risk](#) when investing overseas. I recently wrote a note on the benefits of being neutral on foreign currency risk due to the declining [diversification](#) properties of [weak dollar bets](#).



Source: Koyfin, as of 5/17/22. Past performance is not indicative of future results. You cannot invest directly in an index. Subject to change. Performance is historical and does not guarantee future results. Current performance may be lower or higher than quoted. Investment returns and principal value of an investment will fluctuate so that an investor's shares, when redeemed, may be worth more or less than their original cost. Performance data for the most recent month-end is available at [wisdomtree.com](#).

For the most recent standardized performance click [here](#).

[Dynamic Hedging](#)

There is also a middle ground between a completely hedged and unhedged approach. Six years ago, WisdomTree launched a suite of dynamically hedged currency ETFs, and the

track records of these systematic hedging strategies have been quite impressive, in my view. This family incorporates currency signals across [momentum](#), [interest rates](#) and currency [valuations](#) to determine a [hedge ratio](#) on every currency.

The current aggregate hedge ratios are approximately 63% for the basket and range from a low hedge ratio of 50% for the Australian dollar to 100% hedged for the Swiss franc. The euro and yen are both two-thirds hedged—based on the combination of interest rate and momentum signals, while the valuations of those currencies are “cheap” on a [purchasing power parity](#) basis, that segment of the signals is unhedged, for one-third of the total hedge ratio.

We have a broad international [value](#) strategy and international [small-cap](#) strategy with this dynamic hedge feature. Both strategies on an unhedged basis have 16-year histories that were part of the original 20 dividend ETFs WisdomTree launched in 2006.

The [WisdomTree Dynamic Currency Hedged International Equity Fund \(DDWM\)](#) has received a five-star rating from Morningstar (*overall rating as of 7/31/22 based on risk adjusted return out of 315 funds in the Foreign Large Value category*), while the small-cap version, the [WisdomTree Dynamic Currency Hedged International SmallCap Equity Fund \(DDLS\)](#), has a four-star rating (*overall rating as of 7/31/22 based on risk adjusted return out of 57 funds in the Foreign Small/Mid Value category*). See our [Morningstar ratings page](#) for more info.

The stars are a quick way of summarizing these strategies as having delivered strong risk-adjusted returns, and there is a good emphasis on the risk-reduction properties that come with the dynamic currency hedge.

Since we launched [DDWM](#) in 2016, the [MSCI EAFE Value Index](#) has been riskier than the [MSCI EAFE Index](#).

By contrast, our dynamic currency-hedged [DDWM](#) has displayed lower risk than the MSCI EAFE Index. We can illustrate this risk reduction in two ways:¹

1. **Beta:** Since Fund inception, the MSCI EAFE Value Index has had a higher beta relative to MSCI EAFE, while [DDWM](#) has a beta of 0.83.
2. **Standard Deviation:** The MSCI EAFE Value Index had a two-point higher standard deviation relative to MSCI EAFE, while [DDWM](#) was nearly two points lower, again since Fund inception.

The dynamic currency hedge contained in [DDWM](#)—when compared to the same basket of equities without the currency hedge (available via the [WisdomTree International Equity Fund \(DWM\)](#))—added almost 200 [basis points](#) per year over the last six years.

The currency hedge value-add to returns was high over this period, but the risk reduction is what we would expect on a longer-run basis.

| | DDWM | DWM | MSCI EAFE Index | MSCI EAFE Value Index |
|--------------------|--------|--------|-----------------|-----------------------|
| NAV Total Return | 7.55% | 5.68% | 7.36% | 5.68% |
| Standard Deviation | 12.56% | 14.08% | 14.38% | 16.19% |
| Beta | 0.83 | 0.96 | 1.00 | 1.08 |

Source: Zephyr StyleADVISOR, as of 4/30/22. Past performance is not indicative of future results. Subject to change. You cannot invest directly in an index. Inception of DDWM: 1/7/16. Inception of DWM: 6/16/06. MSCI EAFE Index: a market cap-weighted index composed of companies representative of the developed market structure of developed countries in Europe, Australasia and Jaapan. MSCI EAFE Value Index: Market capitalization-weighted subset of stocks within the MSCI EAFE Index that have lower share prices relative to their earnings or dividends per share.

For the Fund’s full standardized performance and other important information, click the respective ticker: [DDWM](#), [DWM](#).

Over the last decade, the U.S. markets have strongly outperformed international stocks—some of it was tied to the Technology sector dominating U.S. markets—while global markets have more value-tilted exposures and sector biases. Another factor is currency

fluctuations and a stronger dollar hurting unhedged strategies that relied on weak dollar bets.

WisdomTree's dynamically hedged currency family can help access the low valuations of foreign markets but with a strategic approach to managing currency risk.

¹ Source: Zephyr StyleADVISOR, as of April 30, 2022. Past performance is not indicative of future results. Subject to change. You cannot invest directly in an index.

Important Risks Related to this Article

There are risks associated with investing, including possible loss of principal. Foreign investing involves special risks, such as the risk of loss from currency fluctuation or political or economic uncertainty. The Fund invests in derivatives in seeking to obtain a dynamic currency hedge exposure. Derivative investments can be volatile, and these investments may be less liquid than other securities and more sensitive to the effects of varied economic conditions. Derivatives used by the Fund may not perform as intended. A Fund that has exposure to one or more sectors may be more vulnerable to any single economic or regulatory development. This may result in greater share price volatility. The composition of the Index underlying the Fund is heavily dependent on quantitative models and data from one or more third parties, and the Index may not perform as intended. The Fund invests in the securities included in, or representative of, its Index regardless of their investment merit, and the Fund does not attempt to outperform its Index or take defensive positions in declining markets. Please read the Fund's prospectus for specific details regarding the Fund's risk profile.

The Morningstar Rating™ for funds, or "star rating", is calculated for managed products (including mutual funds, variable annuity and variable life subaccounts, exchange-traded funds, closed-end funds, and separate accounts) with at least a three-year history. Exchange-traded funds and open-ended mutual funds are considered a single population for comparative purposes. It is calculated based on a Morningstar Risk-Adjusted Return measure that accounts for variation in a managed product's monthly excess performance, placing more emphasis on downward variations and rewarding consistent performance. The top 10% of products in each product category receive 5 stars, the next 22.5% receive 4 stars, the next 35% receive 3 stars, the next 22.5% receive 2 stars, and the bottom 10% receive 1 star. The Overall Morningstar Rating for a managed product is derived from a weighted average of the performance figures associated with its three-, five-, and 10-year (if applicable) Morningstar Rating metrics. The weights are: 100% three-year rating for 36-59 months of total returns, 60% five-year rating/40% three-year rating for 60-119 months of total returns, and 50% 10-year rating/30% five-year rating/20% three-year rating for 120 or more months of total returns. While the 10-year overall star rating formula seems to give the most weight to the 10-year period, the most recent three-year period has the greatest impact because it is included in all three rating periods.

For standardized performance and the most recent month-end performance click [here](#) NOTE, this material is intended for electronic use only. Individuals who intend to print and physically deliver to an investor must print the monthly performance report to accompany this blog.

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Related Funds

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+ [WisdomTree Dynamic Currency Hedged International SmallCap Equity Fund](#)

+ [WisdomTree International Equity Fund](#)

View the online version of this article [here](#).

IMPORTANT INFORMATION

U.S. investors only: Click [here](#) to obtain a WisdomTree ETF prospectus which contains investment objectives, risks, charges, expenses, and other information; read and consider carefully before investing.

There are risks involved with investing, including possible loss of principal. Foreign investing involves currency, political and economic risk. Funds focusing on a single country, sector and/or funds that emphasize investments in smaller companies may experience greater price volatility. Investments in emerging markets, currency, fixed income and alternative investments include additional risks. Please see prospectus for discussion of risks.

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You cannot invest directly in an index.

DEFINITIONS

Inflation: Characterized by rising price levels.

Rate Hike: refers to an increase in the policy rate set by a central bank. In the U.S., this generally refers to the Federal Funds Target Rate.

Central bank: Refers to the the monetary authority of any country.

Yield: The income return on an investment. Refers to the interest or dividends received from a security that is typically expressed annually as a percentage of the market or face value.

Treasury: Debt obligation issued by the U.S. government with payments of principal and interest backed by the full faith and credit of the U.S. government.

Japanese Government Bond (JGB): A bond issued by the government of Japan. The government pays interest on the bond until the maturity date. At the maturity date, the full price of the bond is returned to the bondholder. Japanese government bonds play a key role in the financial securities market in Japan.

Hedge: Making an investment to reduce the risk of adverse price movements in an asset. Normally, a hedge consists of taking an offsetting position in a related security, such as a futures contract.

Correlation: Statistical measure of how two sets of returns move in relation to each other. Correlation coefficients range from -1 to 1. A correlation of 1 means the two subjects of analysis move in lockstep with each other. A correlation of -1 means the two subjects of analysis have moved in exactly the opposite direction.

S&P 500 Index: Market capitalization-weighted benchmark of 500 stocks selected by the Standard and Poor's Index Committee designed to represent the performance of the leading industries in the United States economy.

Risk: Also standard deviation, which measures the spread of actual returns around an average return during a specific period. Higher risk indicates greater potential for returns to be farther away from this average.

Diversification: A risk management strategy that mixes a wide variety of investments within a portfolio.

Dynamic Hedge: Strategy in which a currency hedge can be varied (as opposed to targeting a constant level) and change over the course of time.

Momentum: Characterized by assets with recent price increase trends over time. This term is also associated with the Momentum Factor which associates these stock characteristics with excess return vs the market over time.

Interest rates: The rate at which interest is paid by a borrower for the use of money.

Valuation: Refers to metrics that relate financial statistics for equities to their price levels to determine if certain attributes, such as earnings or dividends, are cheap or expensive.

Hedge Ratio: The specified percentage of currency exposure being hedged, with 0% indicating that none of the currency exposure is being hedged and 100% indicating that all of the currency exposure is being hedged.

Purchasing power parity: Academic concept stating that exchange rates should adjust so that equivalent goods and services cost the same across countries, after accounting for exchange-rate differences.

Value: Characterized by lower price levels relative to fundamentals, such as earnings or dividends. Prices are lower because investors are less certain of the performance of these fundamentals in the future. This term is also related to the Value Factor, which associates these stock characteristics with excess returns vs the market over time.

Small caps: new or relatively young companies that typically have a market capitalization between \$200 million to \$2 billion.

MSCI EAFE Value Index: Market capitalization-weighted subset of stocks within the MSCI EAFE Index that have lower share prices relative to their earnings or dividends per share.

MSCI EAFE Index: is a market cap-weighted index composed of companies representative of the developed market structure of developed countries in Europe, Australasia and Japan.

Beta: A measure of the volatility of a security or a portfolio in comparison to a benchmark. In general, a beta less than 1 indicates that the investment is less volatile than the benchmark, while a beta more than 1 indicates that the investment is more volatile than the benchmark.

Standard deviation: measure of how widely an investment or investment strategy's returns move relative to its average returns for an observed period. A higher value implies more "risk", in that there is more of a chance the actual return observed is farther away from the average return.

Basis point: 1/100th of 1 percent.