

Risk Factor Diversification—A Look Backward and Forward

Published February 16, 2022

Scott Welch, CIMA®

Chief Investment Officer, Model Portfolios

This article is relevant to financial professionals who are considering offering model portfolios to their clients. If you are an individual investor interested in WisdomTree ETF Model Portfolios, please inquire with your financial professional. Not all financial professionals have access to these Model Portfolios.

If you are a regular reader of the WisdomTree blogs, you know how seriously we take factor [diversification](#) in the construction of our [Model Portfolios](#). With 2021 now behind us, it is time to revisit this important topic.

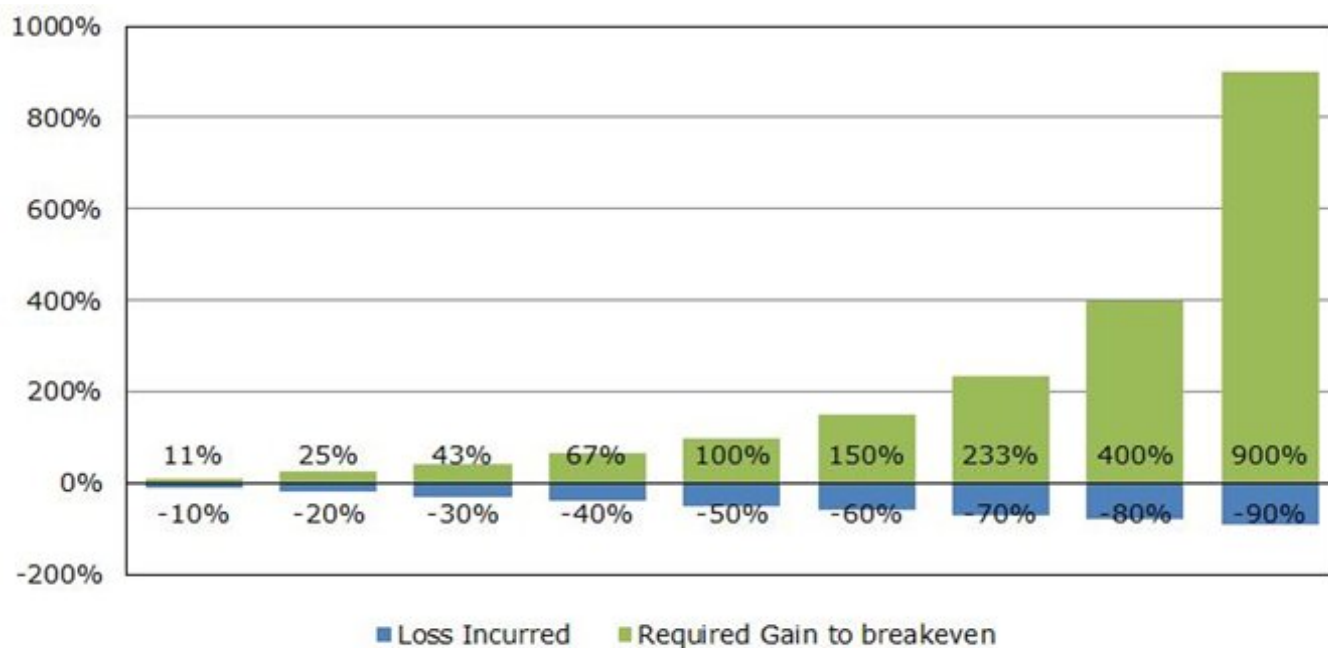
A quick reminder. Almost everyone understands and agrees on the importance of **asset allocation**—that is, diversifying a portfolio across multiple asset classes to improve its consistency and risk-adjusted performance potential. And many are very familiar with the “asset class quilt chart,” which illustrates just how difficult it can be to predict which asset classes will perform best and how diversifying may offer a more consistent performance, as illustrated in the example of the “Asset Allocation” portfolio below.

																2007 - 2021	
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Ann.	Vol.
Investing Principles	EM Equity 39.8%	Fixed Income 5.2%	EM Equity 79.0%	REITs 27.9%	REITs 8.3%	REITs 19.7%	Small Cap 38.8%	REITs 28.0%	REITs 2.8%	Small Cap 21.3%	EM Equity 37.8%	Cash 1.8%	Large Cap 31.5%	Small Cap 20.0%	REITs 41.3%	Large Cap 10.6%	REITs 23.2%
	Comdty. 16.2%	Cash 1.8%	High Yield 59.4%	Small Cap 26.9%	Fixed Income 7.8%	High Yield 19.6%	Large Cap 32.4%	Large Cap 13.7%	Large Cap 1.4%	High Yield 14.3%	DM Equity 25.6%	Fixed Income 0.0%	REITs 28.7%	EM Equity 18.7%	Large Cap 28.7%	Small Cap 8.7%	EM Equity 22.9%
	DM Equity 11.6%	Asset Alloc. 25.4%	DM Equity 32.5%	EM Equity 19.2%	High Yield 3.1%	EM Equity 18.6%	DM Equity 23.3%	Fixed Income 6.0%	Fixed Income 0.5%	Large Cap 12.0%	Large Cap 21.8%	REITs -4.0%	Small Cap 25.5%	Large Cap 18.4%	Comdty. 27.1%	REITs 7.5%	Small Cap 22.5%
	Asset Alloc. 7.1%	High Yield -26.9%	REITs 28.0%	Comdty. 16.8%	Large Cap 2.1%	DM Equity 17.9%	Asset Alloc. 14.9%	Asset Alloc. 5.2%	Cash 0.0%	Comdty. 11.8%	Small Cap 14.6%	High Yield -4.1%	DM Equity 22.7%	Asset Alloc. 10.6%	Small Cap 14.8%	High Yield 6.6%	Comdty. 19.1%
	Fixed Income 7.0%	Small Cap -33.6%	Small Cap 27.2%	Large Cap 15.1%	Cash 0.1%	Small Cap 16.3%	High Yield 7.3%	Small Cap 4.9%	DM Equity -0.4%	EM Equity 11.6%	Asset Alloc. 14.6%	Large Cap -4.4%	Asset Alloc. 19.5%	DM Equity 8.3%	Asset Alloc. 13.4%	Asset Alloc. 5.7%	DM Equity 18.9%
	Large Cap 5.5%	Comdty. -35.6%	Large Cap 23.5%	High Yield 14.8%	Asset Alloc. -0.7%	Large Cap 16.0%	REITs 2.9%	Cash 0.0%	Asset Alloc. -2.0%	REITs 8.6%	High Yield 10.4%	Asset Alloc. -5.8%	EM Equity 18.9%	Fixed Income 7.5%	DM Equity 11.8%	EM Equity 4.8%	Large Cap 16.9%
	Cash 4.8%	Large Cap -37.0%	Asset Alloc. 25.0%	Asset Alloc. 13.3%	Small Cap -4.2%	Asset Alloc. 12.2%	Cash 0.0%	High Yield 0.0%	High Yield -2.7%	Asset Alloc. 8.3%	REITs 8.7%	Small Cap -11.0%	High Yield 12.6%	High Yield 7.0%	High Yield 1.0%	DM Equity 4.1%	High Yield 12.2%
	High Yield 3.2%	REITs -37.7%	Comdty. 18.9%	DM Equity 8.2%	DM Equity -11.7%	Fixed Income 4.2%	Fixed Income -2.0%	EM Equity -1.8%	Small Cap -4.4%	Fixed Income 2.6%	Fixed Income 3.5%	Comdty. -11.2%	Fixed Income 8.7%	Cash 0.5%	Cash 0.0%	Fixed Income 4.1%	Asset Alloc. 11.7%
	Small Cap -1.6%	DM Equity -43.1%	Fixed Income 5.9%	Fixed Income 6.5%	Comdty. -13.3%	Cash 0.1%	EM Equity -2.3%	DM Equity -4.5%	EM Equity -14.6%	DM Equity 1.5%	Comdty. 1.7%	DM Equity -13.4%	Comdty. 7.7%	Comdty. -3.1%	Fixed Income -1.5%	Cash 0.8%	Fixed Income 3.3%
	REITs -15.7%	EM Equity -53.2%	Cash 0.1%	Cash 0.1%	EM Equity -18.2%	Comdty. -1.1%	Comdty. -9.5%	Comdty. -17.0%	Comdty. -24.7%	Cash 0.3%	Cash 0.8%	EM Equity -14.2%	Cash 2.2%	REITs -5.1%	EM Equity -2.2%	Comdty. -2.6%	Cash 0.7%

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management.
 Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Global HY Index, Fixed Income: Bloomberg US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg 1-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg US Aggregate, 5% in the Bloomberg 1-3m Treasury, 5% in the Bloomberg Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period from 12/31/2006 to 12/31/2021. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns.
 Guide to the Markets - U.S. Data as of December 31, 2021.

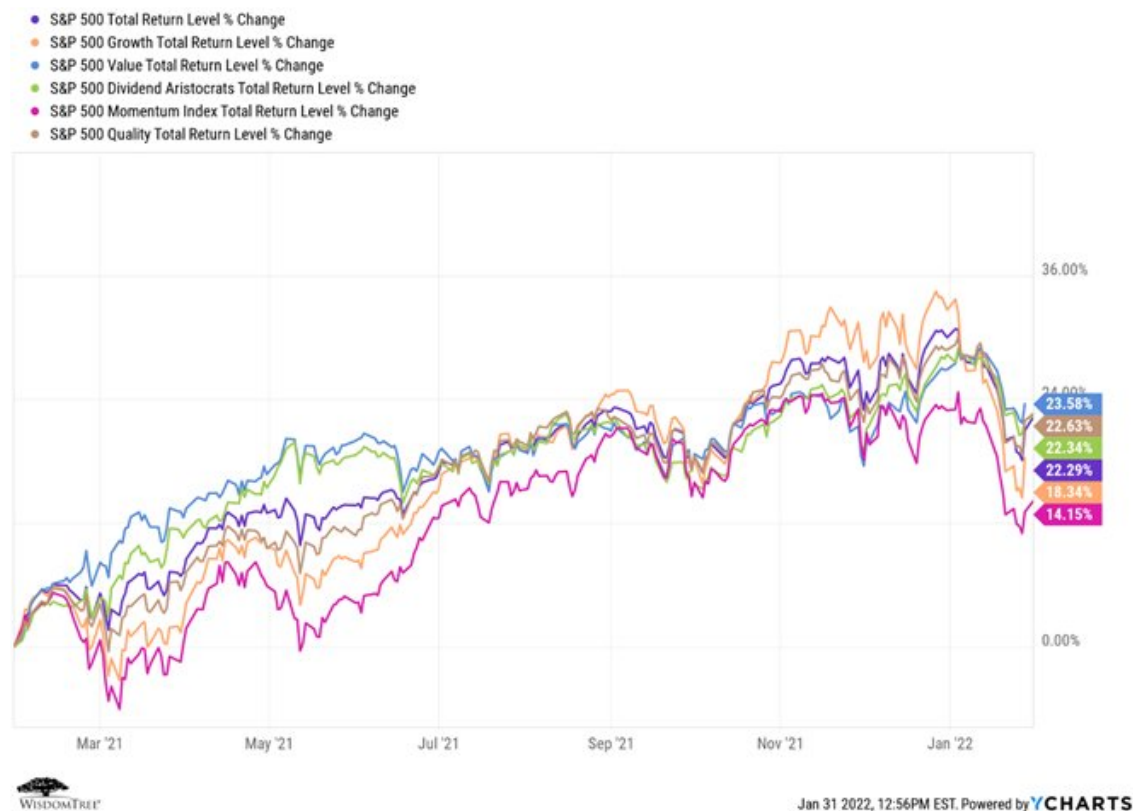
Source: JP Morgan "Guide to the Markets" as of 12/31/21. You cannot invest in an index and past performance does not guarantee future results.

Why does consistency of performance matter? Let's remind ourselves of the **power of compounding**—if you don't lose as much in down markets, you don't need to gain as much in up markets to still come out ahead.



Source: BizNews, September 2014.

As our friends and readers know, we take diversification one level further and diversify across risk factors as well as across asset classes. Take a look at the performances of multiple **risk factors** within the S&P 500 Index over the past 12 months and note there is an almost 9.5% return dispersion between them.



Source: YCharts, 12-month data through 1/30/22. You cannot invest in an index and past performance does not guarantee future performance.

For definitions of terms in the chart above please visit the [glossary](#).

A factor that doesn't show up in the above chart is the size factor, that is, the performance of small-cap stocks versus large-cap stocks. Using the S&P 500 equal-weighted index – a large cap index – as a proxy (since it gives equal weighting to the stocks in the S&P 500 index that have smaller market capitalizations, versus the strict market capitalization weightings used for the broad index), we can see the outperformance of “smaller-cap” stocks within the S&P 500 – a large cap index – over the course of the past 12 months (despite the fact that those stocks have been punished in the current YTD market downturn, as illustrated in the second chart by the performance of the Russell 1000 – a large cap index – versus the Russell 2000 – a small cap index).



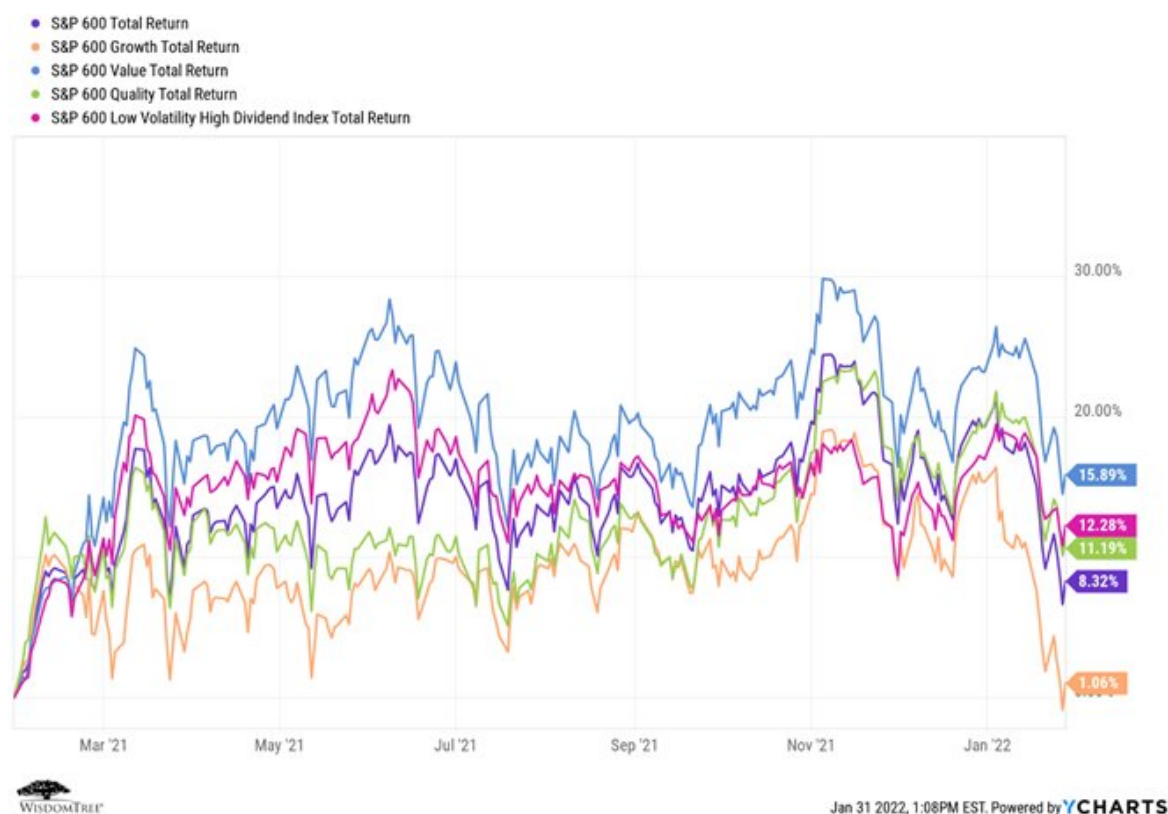
Source: YCharts, 12-month data through 1/30/22. You cannot invest in an index and past performance does not guarantee future results.



Source: YCharts, YTD data through 1/30/22. You cannot invest in an index and past performance does not guarantee future results.

For definitions of terms in the chart above please visit the [glossary](#).

It is worth noting that factor performance is not consistent across asset styles. Compare the factor performances in the above S&P 500 index-based graph to that same graph using [S&P 600](#) (small- and mid-cap) performances.



For definitions of terms in the chart above please visit the [glossary](#).

If you look closely, you will notice that quality is the most consistent factor, with dividends close behind (focus on the turquoise and olive-green lines below, respectively). It is rarely the best but also rarely the worst.



Sources: WisdomTree, Ken French, data as of 11/30/2021. You cannot invest in an index and past performance does not guarantee future results.

The implication, therefore, is that a factor-diversified portfolio should be anchored on quality and dividends—which is what we do.^{1,2}

As we enter what we believe will be [a much more volatile year for the equity markets](#), and long duration assets feel the pinch of rising rates, higher inflation and increasing investor pessimism, we believe historical fundamentals such as quality, dividends and value will matter again. Our Model Portfolios are positioned accordingly.

As a final point, it is almost impossible to out-guess the market with respect to which risk factors will outperform, or for how long when they do. We prepare a risk factor performance quilt every month to highlight this point.

2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Momentum (-1.6%)	Value (46.32%)	Correlation (24.04%)	Quality (15.8%)	LowVol (19.36%)	Quality (10.33%)	LowVol (-23.16%)	Value (58.13%)	Quality (25.67%)	LowVol (12.31%)	Quality (18.82%)	Value (44.52%)	LowVol (17.2%)	Momentum (7.45%)	Value (19.44%)	Quality (25.42%)	LowVol (-1.27%)	Size (28.03%)	Correlation (25.54%)	Value (28.57%)
LowVol (-2.56%)	WTUSMFU (38.38%)	Multifactor (21.43%)	Value (15.24%)	Momentum (17.42%)	Correlation (7.33%)	Momentum (-25.75%)	WTUSMFU (40.14%)	WTUSMFU (23.23%)	Momentum (12.08%)	Value (17.73%)	Size (35.77%)	Multifactor (16.54%)	LowVol (5.32%)	WTUSMFU (13.3%)	Size (22.21%)	Momentum (-2.14%)	Quality (27.37%)	WTUSMFU (15.73%)	LowVol (23.31%)
Multifactor (-2.87%)	Correlation (34.08%)	Value (19.65%)	Correlation (15.0%)	Value (17.36%)	Size (7.18%)	Multifactor (-32.59%)	Quality (38.07%)	Value (20.57%)	Multifactor (10.85%)	WTUSMFU (17.2%)	WTUSMFU (35.31%)	Correlation (15.55%)	Quality (15%)	Quality (13.23%)	WTUSMFU (19.63%)	Correlation (-3.67%)	Value (21.75%)	Size (15.11%)	Quality (21.77%)
Correlation (-7.41%)	Quality (32.31%)	LowVol (18.53%)	Multifactor (14.05%)	Multifactor (15.42%)	Multifactor (5.85%)	Quality (-35.08%)	Correlation (32.81%)	Correlation (20.12%)	Correlation (4.41%)	Size (16.7%)	Correlation (34.81%)	Momentum (15.32%)	Size (0.66%)	LowVol (13.06%)	Value (19.1%)	Multifactor (-4.01%)	LowVol (27.45%)	Quality (13.77%)	Size (21.47%)
Quality (-8.27%)	Multifactor (30.37%)	Quality (17.46%)	WTUSMFU (11.88%)	WTUSMFU (14.6%)	WTUSMFU (5.77%)	Size (-36.67%)	Size (32.79%)	Momentum (17.56%)	Quality (3.4%)	Multifactor (15.67%)	Quality (33.78%)	Size (14.23%)	Multifactor (0.55%)	Size (11.59%)	Momentum (18.77%)	Size (-4.38%)	WTUSMFU (27.1%)	Momentum (8.65%)	WTUSMFU (20.36%)
Value (-15.47%)	Size (30.15%)	WTUSMFU (17.44%)	Size (7.59%)	Size (13.33%)	Momentum (5.53%)	Value (-38.47%)	Multifactor (24.53%)	Multifactor (17.36%)	Size (1.05%)	Correlation (15.52%)	Multifactor (32.23%)	Value (13.58%)	WTUSMFU (-1.31%)	Momentum (9.85%)	Multifactor (17.32%)	Quality (-6.65%)	Momentum (26.01%)	Multifactor (4.24%)	Momentum (19.13%)
WTUSMFU (-17.37%)	LowVol (27.01%)	Momentum (17.02%)	Momentum (5.53%)	Quality (12.57%)	LowVol (1.14%)	WTUSMFU (-38.85%)	LowVol (20.2%)	LowVol (15.34%)	WTUSMFU (0.13%)	Momentum (13.15%)	Momentum (27.89%)	Quality (13.52%)	Value (-5.3%)	Multifactor (7.37%)	LowVol (17.24%)	WTUSMFU (-7.85%)	Correlation (23.15%)	LowVol (0.34%)	Multifactor (19.61%)
Size (-22.11%)	Momentum (25.57%)	Size (13.16%)	LowVol (5.07%)	Correlation (11.24%)	Value (0.27%)	Correlation (-41.0%)	Momentum (15.13%)	Size (14.5%)	Value (-1.34%)	LowVol (12.3%)	LowVol (23.72%)	WTUSMFU (12.72%)	Correlation (-7.79%)	Correlation (7.53%)	Correlation (13.51%)	Value (-13.2%)	Multifactor (20.11%)	Value (-0.23%)	Correlation (6.36%)

Data source: Bloomberg, as of 12/31/21. The starting universe for the referenced factor portfolios is the 800 largest companies listed in the U.S. Securities in the Low Correlation portfolio are selected based on their trailing 6- and 12-month correlation versus the broad market. Securities in the Low Volatility portfolio are selected based on their trailing 12-month standard deviation. Securities in the Momentum portfolio are selected based on their trailing 6- and 12-month risk-adjusted performance. Securities in the Quality portfolio are selected based on stronger current and historical (3-year) measures of profitability compared to their peers in the same GICS industry using four main variables: return-on-equity, return-on-assets, gross profits over assets, cash flow over assets. Securities in the Value portfolio are selected based on more attractive valuation metrics compared to their peers in the same GICS industry using six main variables: sales-to-price, book-to-price, earnings-to-price, estimated earnings-to-price, EBITDA-to-enterprise value, operating cash flow-to-price. Securities in the Size portfolio are selected based on their market capitalization compared to their peers in the starting universe. Securities in the Multifactor portfolio are selected based on a composite score calculated by equally weighting their low correlation, momentum, quality and value scores.

Conclusions and Model Portfolio Implications

While [each WisdomTree Model Portfolio has a different mandate](#), they all have certain common characteristics at the asset allocation and portfolio construction levels:

1. Global in nature—we are a global shop, and we believe in global diversification
2. ETF-centric, to improve the potential for optimizing fees and taxes
3. Open architecture—they include both WisdomTree and third-party products, which is not only the right thing to do from the end client perspective, but also ensures that we can access any and all risk factor exposures we want to include in a given Model Portfolio
4. The ETF structure and embedded risk factor tilts inherent in the WisdomTree product set allow us to build “core/satellite” Model Portfolios, increasing the potential to deliver both cost and tax efficiency and outperformance versus cap-weighted beta portfolios over full market cycles
5. We charge no strategist fee—our revenue is derived solely from the expense ratios associated with the WisdomTree products we choose to include

We believe in diversification and the power of compounding—delivering consistent performance regardless of market regime. We believe that diversifying at both the asset class and risk factor levels optimizes our potential for meeting that objective.

We also believe that our quality, dividend and value tilt positions us well for the market conditions we expect in 2022.

You can learn more about our Model Portfolios at our [Model Adoption Center](#).

1 We define “quality” to mean companies with stronger earnings, cash flow, balance sheets and dividends.

2 For a summary description of investment “risk factors” and the “Fama French Model”, see: <https://www.investopedia.com/terms/f/factor-investing.asp>.

Important Risks Related to this Article

Neither diversification nor an asset allocation strategy assures a profit or eliminates the risk of experiencing investment losses.

For retail investors: WisdomTree's Model Portfolios are not intended to constitute investment advice or investment recommendations from WisdomTree. Your investment advisor may or may not implement WisdomTree's Model Portfolios in your account. The performance of your account may differ from the performance shown for a variety of reasons, including but not limited to: your investment advisor, and not WisdomTree, is responsible for implementing trades in the accounts; differences in market conditions; client-imposed investment restrictions; the timing of client investments and withdrawals; fees payable; and/or other factors. WisdomTree is not responsible for determining the suitability or appropriateness of a strategy based on WisdomTree's Model Portfolios. WisdomTree does not have investment discretion and does not place trade orders for your account. This material has been created by WisdomTree, and the information included herein has not been verified by your investment advisor and may differ from information provided by your investment advisor. WisdomTree does not undertake to provide impartial investment advice or give advice in a fiduciary capacity. Further, WisdomTree receives revenue in the form of advisory fees for our exchange-traded Funds and management fees for our collective investment trusts.

For financial professionals: WisdomTree Model Portfolio information is designed to be used by financial advisors solely as an educational resource, along with other potential resources advisors may consider, in providing services to their end clients. WisdomTree's Model Portfolios and related content are for information only and are not intended to provide, and should not be relied on for, tax, legal, accounting, investment or financial planning advice by WisdomTree, nor should any WisdomTree Model Portfolio information be considered or relied upon as investment advice or as a recommendation from WisdomTree, including regarding the use or suitability of any WisdomTree Model Portfolio, any particular security or any particular strategy. In providing WisdomTree Model Portfolio information, WisdomTree is not acting and has not agreed to act in an investment advisory, fiduciary or quasi-fiduciary capacity to any advisor or end client, and has no responsibility in connection therewith, and is not providing individualized investment advice to any advisor or end client, including based on or tailored to the circumstance of any advisor or end client. The Model Portfolio information is provided "as is," without warranty of any kind, express or implied. WisdomTree is not responsible for determining the securities to be purchased, held and/or sold for any advisor or end client accounts, nor is WisdomTree responsible for determining the suitability or appropriateness of a Model Portfolio or any securities included therein for any third party, including end clients.

Advisors are solely responsible for making investment recommendations and/or decisions with respect to an end client and should consider the end client's individual financial circumstances, investment time frame, risk tolerance level and investment goals in determining the appropriateness of a particular investment or strategy, without input from WisdomTree. WisdomTree does not have investment discretion and does not place trade orders for any end client accounts. Information and other marketing materials provided to you by WisdomTree concerning a Model Portfolio—including allocations, performance and

other characteristics—may not be indicative of an end client's actual experience from investing in one or more of the funds included in a Model Portfolio. Using an asset allocation strategy does not ensure a profit or protect against loss, and diversification does not eliminate the risk of experiencing investment losses. There is no assurance that investing in accordance with a Model Portfolio's allocations will provide positive performance over any period. Any content or information included in or related to a WisdomTree Model Portfolio, including descriptions, allocations, data, fund details and disclosures, is subject to change and may not be altered by an advisor or other third party in any way.

WisdomTree primarily uses WisdomTree Funds in the Model Portfolios unless there is no WisdomTree Fund that is consistent with the desired asset allocation or Model Portfolio strategy. As a result, WisdomTree Model Portfolios are expected to include a substantial portion of WisdomTree Funds notwithstanding that there may be a similar fund with a higher rating, lower fees and expenses or substantially better performance. Additionally, WisdomTree and its affiliates will indirectly benefit from investments made based on the Model Portfolios through fees paid by the WisdomTree Funds to WisdomTree and its affiliates for advisory, administrative and other services.