

The 60/40 Portfolio Revisited: Back from the Dead?

February 2023

The 60/40 Portfolio Revisited: Back from the Dead?

CONTENTS

- 03** Setting the Stage
- 05** The Future Ain't What It Used to Be
 - 05** Equities
 - 06** Fixed Income
- 08** What to Do Now?
- 09** Conclusion

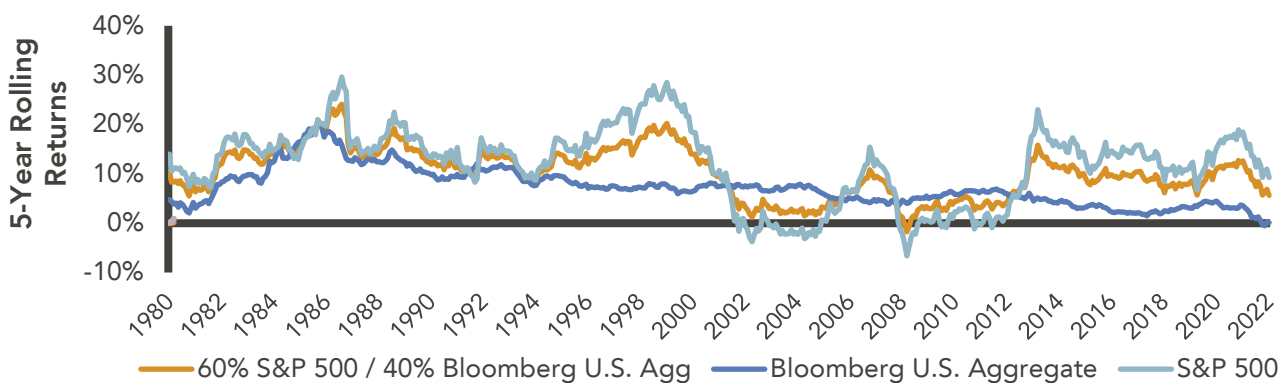
Evan Frazier, CFA, CAIA, Senior Research Analyst

In response to an inquiry concerning rumors of his demise in 1897, American writer and satirist Mark Twain quipped, “The report of my death was an exaggeration.” This quote may also apply in the case of the 60/40 portfolio and a white paper published by Marquette Associates in late 2021. The piece, entitled, [“Is the 60/40 Portfolio Dead Forever?”](#) examined the challenges faced by the popular model consisting of a 60% allocation to diversified equities and a 40% allocation to a broad basket of fixed income securities. These challenges included elevated equity valuations and the prospects of rising interest rates and slowing economic growth. Indeed, both stocks and bonds struggled mightily last year due to these and other headwinds, with 2022 one of the worst on record for the 60/40 portfolio. That said, and amid a strong start to 2023, there are reasons for optimism when it comes to the viability of the model to again generate attractive risk-adjusted performance. This white paper provides historical context for the 60/40 portfolio, details its current outlook, and outlines ways in which investors can augment the model to achieve desired return targets.

SETTING THE STAGE

The 60/40 portfolio rose to prominence among investors due to its ease of implementation and attractive pattern of performance that has historically offered both participation during robust market environments and protection amid periods of turbulence. These attributes are a function of the diversification benefits provided by the model, which are commonly referred to as “the only free lunch on Wall Street” and typically lead to a smoother return profile. Since 2012, the model has returned approximately 8.7% on an annualized basis, compared to roughly 12.5% and 1.1% for the S&P 500 and Bloomberg Aggregate Bond indices, respectively. One of the most compelling aspects of this performance, however, is the efficiency with which the model has delivered these returns. Over the same period, the 60/40 portfolio has exhibited a standard deviation of roughly 60% of the S&P 500 and a Sharpe Ratio (a measure of risk-adjusted return) that is more attractive than both equities and bonds. Exhibits 1 and 2 below outline the relatively smooth rolling returns for the model over the last several decades, as well as risk and return figures over the last ten years.

▾ **Exhibit 1:** 5-year rolling returns of the 60/40 model have been smoother than those of the S&P 500 index since the 1980s



Source: Bloomberg, eVestment as of December 31, 2022; 60/40 portfolio rebalanced annually

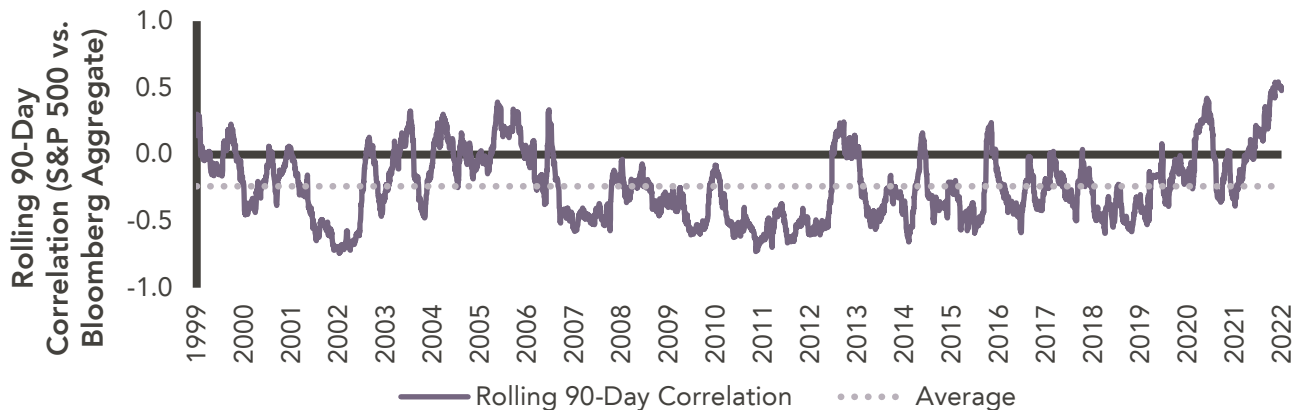
▾ **Exhibit 2:** The 60/40 portfolio has delivered relatively efficient performance over the last decade

| Last 10 Years | Annualized Return (%) | Annualized Standard Deviation (%) | Sharpe Ratio |
|--------------------------------------|-----------------------|-----------------------------------|--------------|
| 60% S&P 500 / 40% Bloomberg U.S. Agg | 8.7 | 9.2 | 0.9 |
| Bloomberg U.S. Aggregate Index | 1.1 | 4.1 | 0.1 |
| S&P 500 Index | 12.5 | 15.0 | 0.8 |

Source: Bloomberg, eVestment as of December 31, 2022; 60/40 portfolio rebalanced annually, risk-free rate represented by 3-month T-Bill

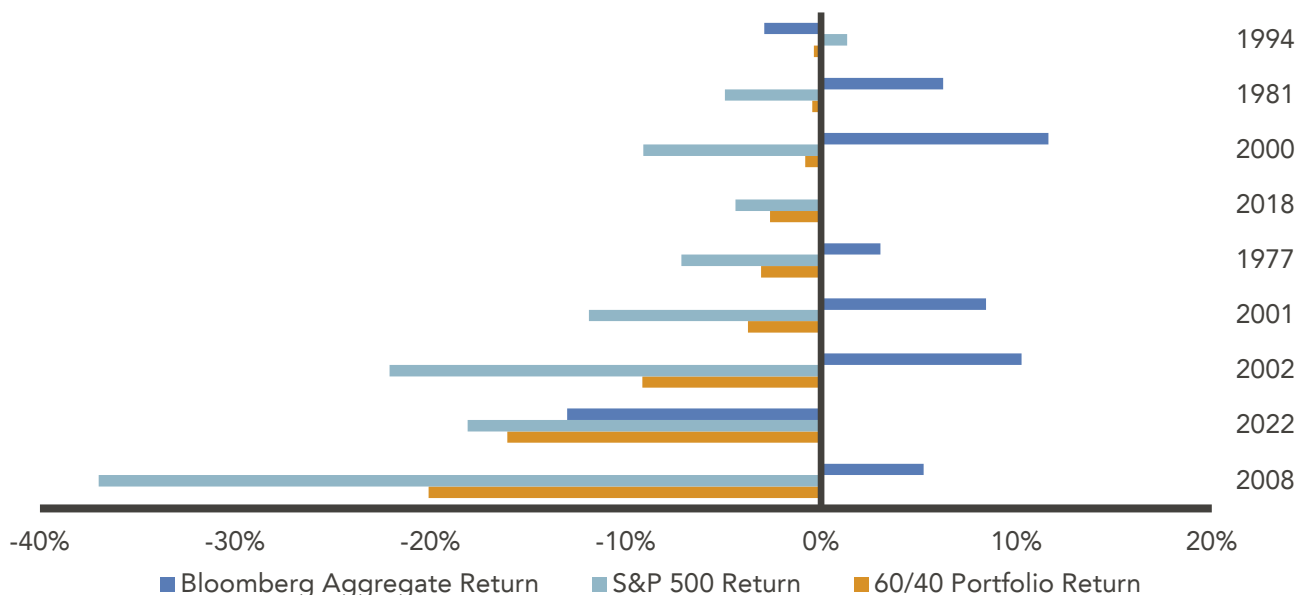
Recent performance of the 60/40 portfolio belies the attractive historical risk/return profile, as the diversification benefits normally provided by the model eroded as fixed income and equity securities largely moved in tandem throughout 2022. Specifically, as shown in Exhibit 3, rolling 90-day correlations between the S&P 500 and the Bloomberg Aggregate Bond indices climbed to a 20-plus year high in December 2022, with the full-year average of 0.15 well above the long-term average of -0.24. The significant increase in correlation was due to poor performance for both asset classes during the year. The S&P 500 index declined 18.1% in 2022 due to myriad investor concerns regarding the trajectory of inflation and restrictive monetary policy, among other factors. The reversal of lax financial conditions, which had buoyed most asset classes over the last several years, was also a headwind for fixed income indices, with bond prices falling as yields rose. The Bloomberg Aggregate Bond index declined 13.1% in 2022, its worst calendar year on record. As a result, the 60/40 portfolio notched a return of -16.1% for the year due to the lack of diversification benefits. To provide a sense of the extreme and aberrational nature of this performance, Exhibit 4 highlights the worst-returning years for the 60/40 portfolio since the 1970s, along with the returns for both the S&P 500 and Bloomberg Aggregate Bond indices.

Exhibit 3: The correlation between the S&P 500 and Bloomberg Aggregate indices moved well above its long-term average in 2022



Source: Bloomberg as of December 31, 2022

Exhibit 4: 2022 marked the worst year for the 60/40 portfolio since 2008



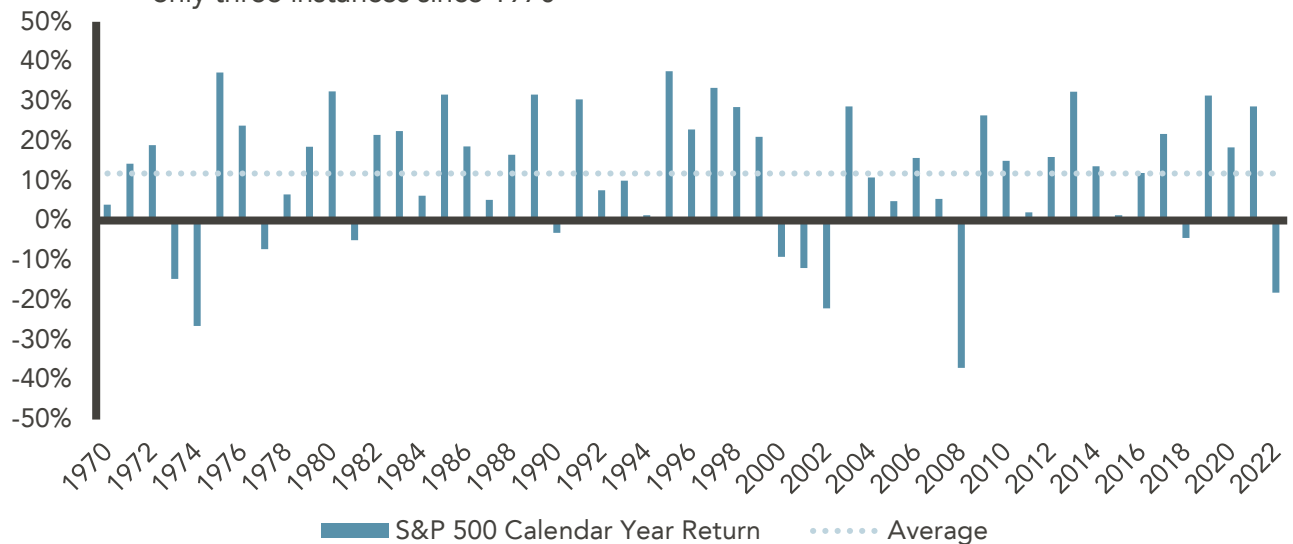
Source: Bloomberg, eVestment from 1976 through 2022

THE FUTURE AIN'T WHAT IT USED TO BE

Equities

While the 60/40 portfolio has not served investors well over the last year, recent changes in market dynamics could serve as tailwinds for both absolute and risk-adjusted returns going forward. First, to the extent a continued slowdown in inflation and moderation in Federal Reserve interest rate hikes results in a “soft landing,” equities may begin to recover from last year’s difficulties. Indeed, stocks have generally been strong to start 2023, and this type of resurgence after challenging periods has been common throughout history. Since 1970, as shown in Exhibit 5, there have been only three instances of the S&P 500 index recording a negative return in two consecutive calendar years. This occurred most recently during the Dot-Com Crash of the early 2000s, as well as during the recession of the 1970s. The figures displayed below, while not indicative of an immediate reversal within equity markets, suggest last year’s return of -18.1% is historically unlikely — especially if the United States avoids a deep recession — and that stock indices trend up over time.

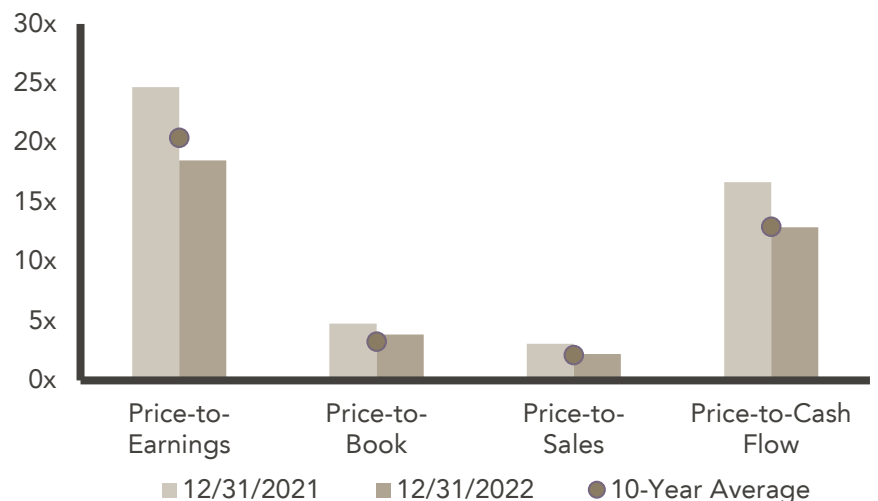
▾ **Exhibit 5:** The S&P 500 index has notched negative returns in two consecutive calendar years in only three instances since 1970



Source: Bloomberg as of December 31, 2022

The S&P 500’s negative return in 2022 can be primarily attributed to valuation compression. After starting the year at roughly 24.7X, an extreme level relative to the history of the index, the benchmark’s price-to-earnings multiple contracted by more than 25% amid an uptick in interest rates. The multiple sat at 18.5X at the end of last year — below its long-term average of 20.4X. The story is similar across most valuation metrics (*Exhibit 6*), including price-to-book, price-to-sales, and price-to-cash flow, all of which have seen significant compression.

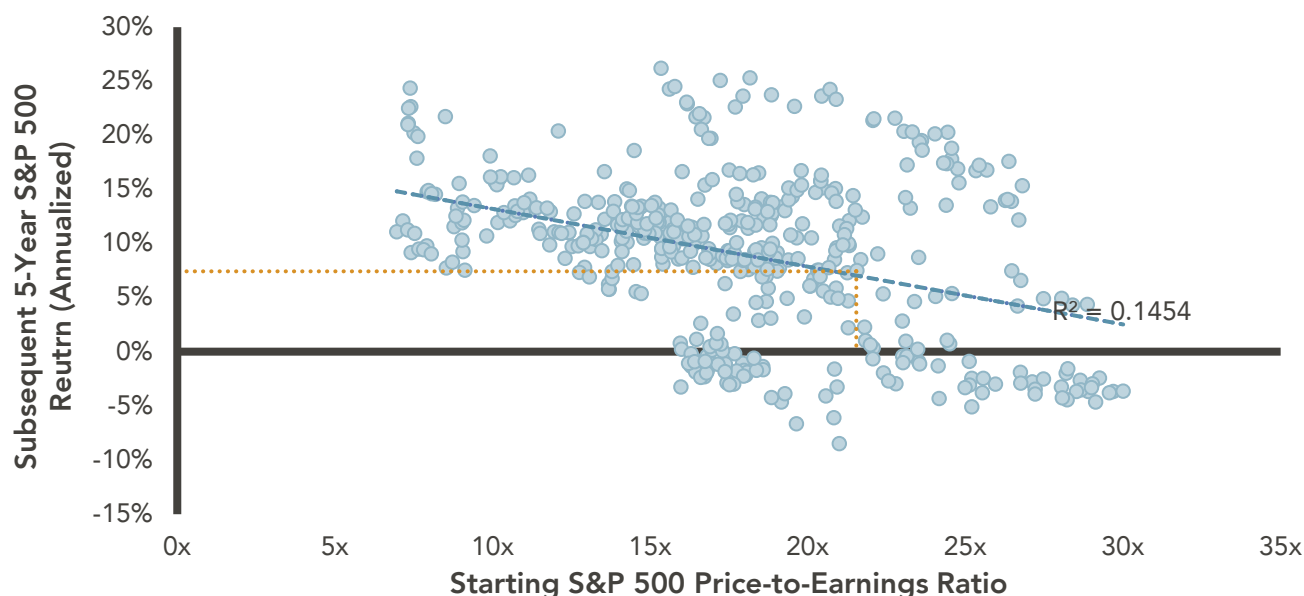
▾ **Exhibit 6:** S&P 500 price multiples contracted significantly in 2022



Source: Bloomberg as of December 31, 2022

It is important to outline the relationship between multiples and performance for equity indices throughout history. As displayed in Exhibit 7 below, there is an association between the price-to-earnings ratio of the S&P 500 and the subsequent 5-year annualized return for the benchmark that indicates that lower and average-sized multiples generally portend stronger performance. Exhibit 7 also shows the line of best fit for these data points, which can serve as an indication of future returns given a certain level of valuation. The current price-to-earnings ratio for the S&P 500 index of 18.5X corresponds to a future 5-year annualized return for the benchmark of around 8.6%, according to the regression model. While certainly not meant to serve as an explicit predictor of performance, the relationship does provide some clarity on what might be reasonably expected from the S&P 500 index over the long term given a certain valuation starting point.

▣ **Exhibit 7:** Lower and mid-sized multiples have historically portended higher go-forward returns for the S&P 500



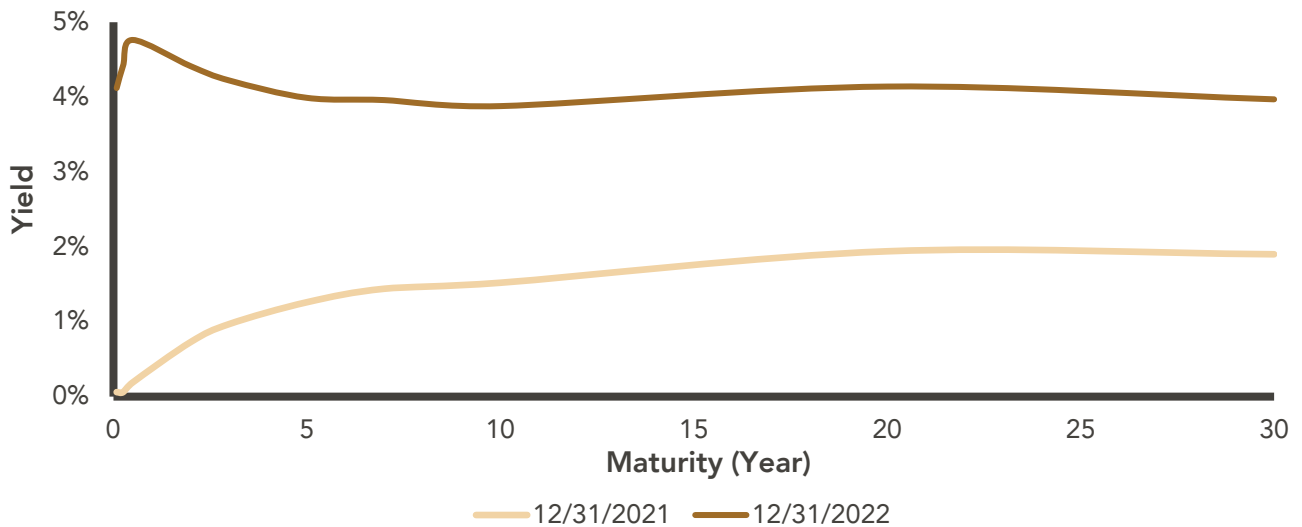
Source: Bloomberg from 1979 through 2022 using monthly data. Orange dotted lines plot December 31, 2022.

Of course, valuation is only one factor contributing to equity returns, and a few notable risks could impact the outlook from here. First, corporate earnings are likely to face pressure in the coming months. Given concerns about a possible economic downturn, analysts have begun to lower earnings projections across most sectors. Bottom-up 2023 EPS estimates for the S&P 500 declined by 2.5% from December 2022 to January 2023, with the index now only expected to grow earnings 3.0% this year. At the macro level, geopolitical turmoil, ongoing labor market strength, and/or renewed inflation pressures that result in additional rate hikes could also hamper the near-term outlook for equities.

Fixed Income

There is perhaps more reason for optimism regarding the prospects of fixed income over the coming years. As noted, interest rates climbed precipitously in 2022 as the Federal Reserve grappled with inflation levels not seen in decades. Specifically, the effective fed funds rate rose from roughly 0.1% at the beginning of the year to around 4.3% at its close. This marked the largest twelve-month increase since 1981, with additional increases expected in the coming months (though asset prices may already largely reflect the effects of these future increases). Yields of tenors across the term structure followed a similar trajectory during the period, with the 10-year and 30-year notes finishing 2022 at 3.9% and 4.0% after starting the year at 1.5% and 1.9%, respectively. Exhibit 8 on the next page shows the shape of the Treasury yield curve at both the beginning and end of 2022.

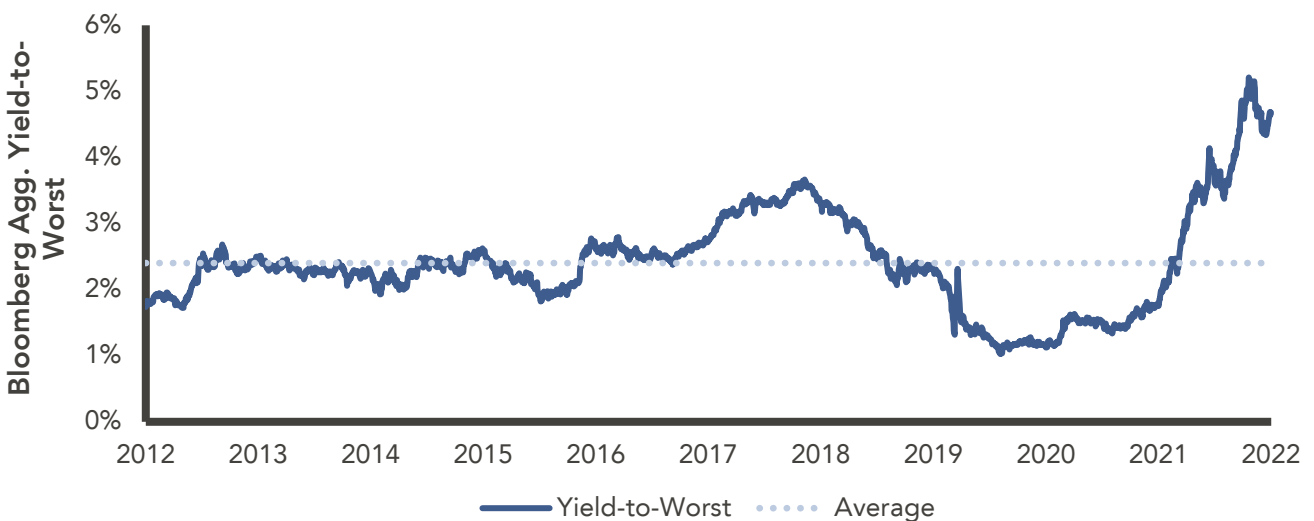
▾ **Exhibit 8:** Rates rose across the Treasury curve over the course of 2022



Source: Bloomberg as of December 31, 2022

As a result of these dynamics, yields offered by fixed income securities are now much more attractive than they have been over the last decade and are back to fulfilling their income-generating role in investor portfolios. At the beginning of 2022, the bellwether fixed income index — the Bloomberg Aggregate Bond index — exhibited a yield-to-worst of 1.8%. That figure increased to 4.7% over the year and now sits well above the long-term average for the benchmark.

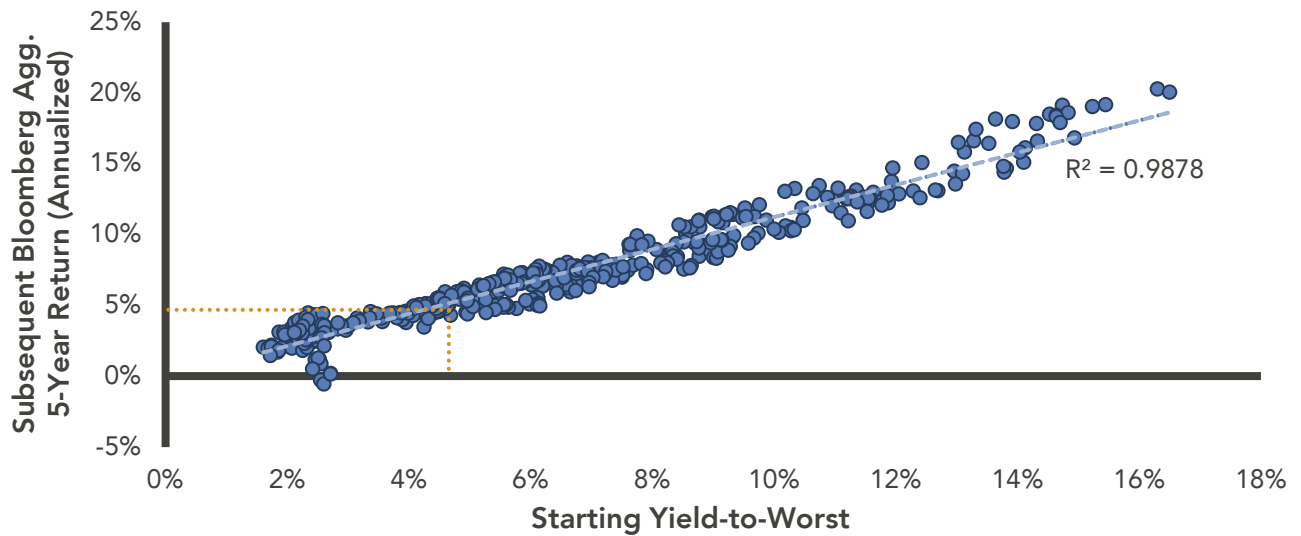
▾ **Exhibit 9:** The Bloomberg Aggregate Bond index now offers a yield-to-worst well above both that exhibited at the start of 2022 and its long-term average



Source: Bloomberg as of December 31, 2022

As lower equity multiples are generally associated with higher go-forward returns, in fixed income, higher yields have typically portended higher returns. A similar regression analysis on the Bloomberg Aggregate Bond index suggests an extremely strong linear relationship. Without taking into account the effects of important factors like duration, the yield-to-worst for the benchmark as of December 31, 2022 of 4.7% implies a subsequent 5-year annualized return of 4.3%. Again, this model, highlighted in Exhibit 10 on the following page, is not meant to be predictive, but rather illustrative of the historical relationship between yields and future returns for the index.

Exhibit 10: There is a very strong historical relationship between the yield-to-worst for the Bloomberg Aggregate Bond index and its subsequent 5-year return



Source: Bloomberg from 1979 through 2022 using monthly data. Orange dotted lines plot December 31, 2022.

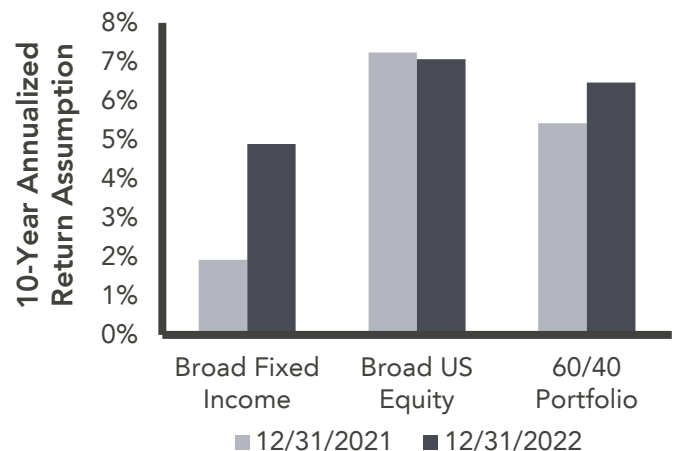
Similar to equities, the bond market also faces risks that could impact future returns. First, while the Federal Reserve has signaled the likelihood of fewer rate increases in 2023, fixed income performance may be challenged if higher-than-expected rates are required to cool inflation or the labor market. Additionally, with credit spreads generally near long-term averages, spread widening could weigh on fixed income performance if economic conditions deteriorate.

WHAT TO DO NOW?

As described, dynamics have changed within both equity and fixed income markets over the last year such that the 60/40 portfolio may be poised for a resurgence. However, the question remains: Can this simple model help investors achieve desired return targets or do modifications need to be made?

As of the end of 2021, according to Marquette’s asset class return forecasting software, a 60/40 portfolio exposed to broad equity and fixed income indices was projected to return roughly 5.4% on an annualized basis. This assumption fell short of most institutional requirements and forced investors to consider adding riskier or less liquid options to their portfolios. At the end of 2022, the 10-year forward return assumption for the 60/40 portfolio had increased to nearly 6.5%. Interestingly, this increase was entirely driven by the change in the forward assumptions for fixed income returns, which more than doubled. This change indicates that bonds, once a low-volatility diversifier, may contribute significantly more to portfolio returns in the decade to come than years previously. Exhibit 11 highlights these differentials at right.

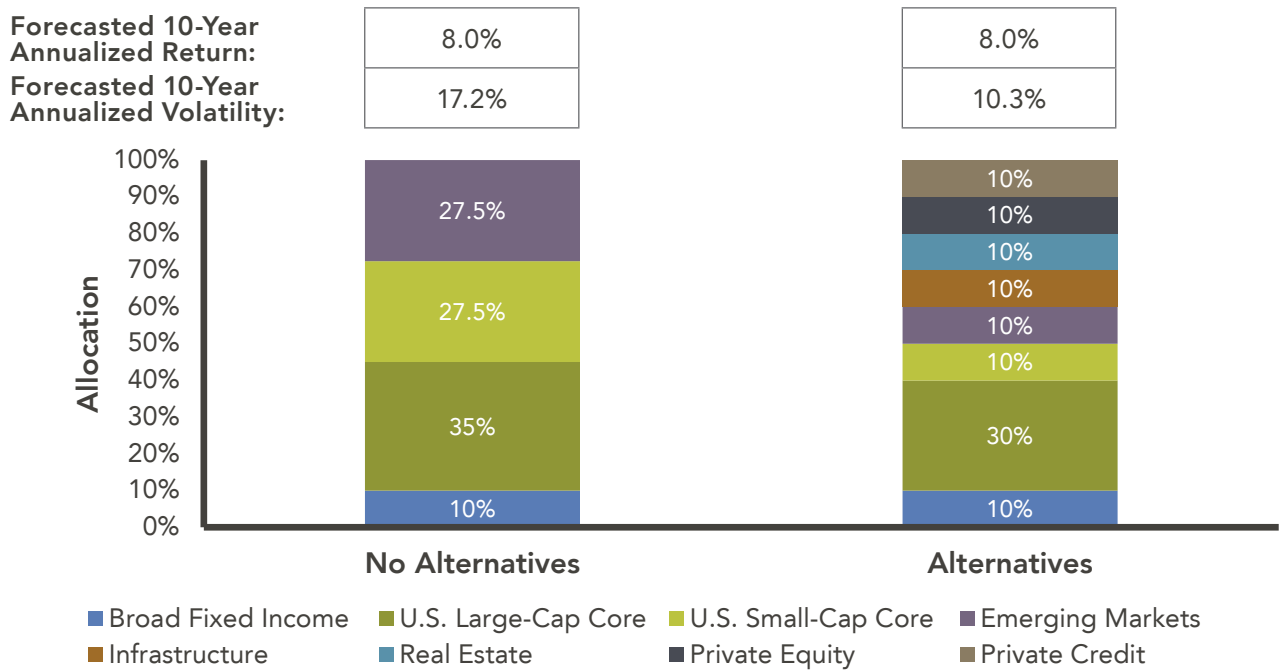
Exhibit 11: Forward return assumptions for the 60/40 model have increased over the last 12 months



Source: Marquette Associates Asset Allocation Software as of December 31, 2022. The 10-year return assumptions are simulated capital market returns. It is important to note that these values are present output from the software simulations and not deterministic views of future capital market performance.

While proponents of the model should be encouraged by these new forecasts, it is clear that riskier or more illiquid asset classes still have a role to play in helping investors achieve desired returns. To that point, portfolios with allocations to alternatives like infrastructure, real estate, private equity, and private credit may allow institutions to reach their return goals while also reducing overall portfolio volatility. Exhibit 12 provides an example of what is required to reach an 8% annualized rate of return over the next decade with and without exposure to private markets.

▾ **Exhibit 12:** Alternative asset classes can help investors achieve 8% annualized returns with lower forecasted volatility



Source: Marquette Associates Asset Allocation Software as of December 31, 2022. The 10-year return assumptions are simulated capital market returns. It is important to note that these values are present output from the software simulations and not deterministic views of future capital market performance.

CONCLUSION

While negative market sentiment and elevated correlations hampered the performance of the 60/40 portfolio last year, there is renewed optimism for the model going forward. First, fixed income securities finally offer attractive yields after the end of the long-running “TINA” era (There Is No Alternative to equities due to low interest rates). This means that, barring significant rate increases from here, bond indices are likely to exhibit stronger performance going forward, which would serve as a boon to the 60/40 model. While the near-term outlook for equity market performance is somewhat less clear, a reversion to the mean in correlations between equities and bonds would at a minimum improve the diversification benefits of the traditional model. Should headwinds come to pass, it may be said that reports of the death of the 60/40 portfolio were greatly exaggerated. ▀

PREPARED BY MARQUETTE ASSOCIATES

180 North LaSalle St, Ste 3500, Chicago, Illinois 60601 PHONE 312-527-5500
CHICAGO BALTIMORE MILWAUKEE PHILADELPHIA ST. LOUIS WEB marquetteassociates.com

CONFIDENTIALITY NOTICE: *This communication, including attachments, is for the exclusive use of the addressee and contains proprietary, confidential and/or privileged information; any use, copying, disclosure, dissemination or distribution is strictly prohibited. Marquette Associates, Inc. retains all proprietary rights they may have in the information.*

Marquette Associates, Inc. ("Marquette") has prepared this document for the exclusive use by the client or third party for which it was prepared. The information herein was obtained from various sources, including but not limited to third party investment managers, the client's custodian(s) accounting statements, commercially available databases, and other economic and financial market data sources.

The sources of information used in this document are believed to be reliable. Marquette has not independently verified all of the information in this document and its accuracy cannot be guaranteed. Marquette accepts no liability for any direct or consequential losses arising from its use. The information provided herein is as of the date appearing in this material only and is subject to change without prior notice. Thus, all such information is subject to independent verification and we urge clients to compare the information set forth in this statement with the statements you receive directly from the custodian in order to ensure accuracy of all account information. Past performance does not guarantee future results and investing involves risk of loss. No graph, chart, or formula can, in and of itself, be used to determine which securities or investments to buy or sell.

Forward-looking statements, including without limitation any statement or prediction about a future event contained in this presentation, are based on a variety of estimates and assumptions by Marquette, including, but not limited to, estimates of future operating results, the value of assets, and market conditions. These estimates and assumptions, including the risk assessments and projections referenced, are inherently uncertain and are subject to numerous business, industry, market, regulatory, geopolitical, competitive, and financial risks that are outside of Marquette's control. There can be no assurance that the assumptions made in connection with any forward looking statement will prove accurate, and actual results may differ materially.

The inclusion of any forward-looking statement herein should not be regarded as an indication that Marquette considers forward-looking statements to be a reliable prediction of future events. The views contained herein are those of Marquette and should not be taken as financial advice or a recommendation to buy or sell any security. Any forecasts, figures, opinions or investment techniques and strategies described are intended for informational purposes only. They are based on certain assumptions and current market conditions, and although accurate at the time of writing, are subject to change without prior notice. Opinions, estimates, projections, and comments on financial market trends constitute our judgment and are subject to change without notice. Marquette expressly disclaims all liability in respect to actions taken based on any or all of the information included or referenced in this document. The information is being provided based on the understanding that each recipient has sufficient knowledge and experience to evaluate the merits and risks of investing.

This presentation does not constitute an offer to sell, or a solicitation of an offer to buy, any interest in any investment vehicle, and should not be relied on as such. Targets, ranges, and expectations set forth in this presentation are approximations; actual results may differ. The information and opinions expressed herein are as of the date appearing in this material only, are subject to change without prior notice, and do not contain material information regarding the Marquette Model Portfolio, including specific information relating to portfolio investments and related important risk disclosures. The descriptions herein of Marquette's investment objectives or criteria, the characteristics of its investments, investment process, or investment strategies and styles may not be fully indicative of any present or future investments, are not intended to reflect performance and may be changed in the discretion of Marquette. While the data contained herein has been prepared from information that Marquette believes to be reliable, Marquette does not warrant the accuracy or completeness of such information. Client account holdings may differ significantly from the securities in the indices and the volatility of the index may be materially different from client account performance. You cannot invest directly in an index.

About Marquette Associates

Marquette was founded in 1986 with the sole objective of providing investment consulting at the highest caliber of service. Our expertise is grounded in our commitment to client service — our team aims to be a trusted partner and as fiduciaries, our clients' interests and objectives are at the center of everything we do. Our approach brings together the real-world experience of our people and our dedication to creativity and critical thinking in order to empower our clients to meet their goals. Marquette is an independent investment adviser registered under the Investment Advisers Act of 1940, as amended. Registration does not imply a certain level of skill or training. More information about Marquette including our investment strategies, fees and objectives can be found in our ADV Part 2, which is available upon request and on our website. For more information, please visit www.MarquetteAssociates.com.