

RESEARCH

Developing Dimensional Wealth Models (UK)

September 2025

Dimensional applies robust investment principles to asset allocation. Our approach starts with defining an investment goal and identifying the key risks relevant to this goal. Then we build a set of asset allocations that aim to help investors achieve their goals by systematically and cost-effectively pursuing reliable sources of higher expected returns while managing risks and costs efficiently.

The Dimensional Wealth Models are designed for investors with a broad range of wealth goals ranging from aggressive wealth growth to preservation of capital and purchasing power.

We have created three sets of models: the first uses Dimensional's core equity strategies, which have a moderate focus on securities with higher expected returns; the second set adds component equity strategies and applies a stronger emphasis on securities with higher expected returns. We refer to these models as the Core Wealth Models (UK) and Core Plus Wealth Models (UK), respectively.

The third set of models are asset allocations that incorporate Dimensional's ESG approach and simultaneously pursue a moderate focus on securities with higher expected returns.

Below is an outline of four key decisions incorporated in our wealth-focused asset allocation approach: the split between equity and fixed income, considerations for the allocation across global regions, emphasis on known drivers of higher expected returns, and investor preferences around ESG considerations.

I. ALLOCATION BETWEEN EQUITY AND FIXED INCOME

Fixed income can serve many roles in a portfolio to help investors achieve their goals, including managing overall portfolio volatility or managing liabilities. For example, adding fixed income to an equity portfolio is one of the most effective tools an investor can use to balance the expected volatility and returns of the total portfolio. Determining the appropriate amount of fixed income to include in a portfolio should be based on an investor's goals, needs, preferences, and constraints.

For investors focused on the growth of their assets, we have designed all-equity and equity-heavy allocations.

For investors seeking to dampen some of the volatility in their portfolios, we incorporate a greater allocation to fixed income. The 60/40 Wealth Model (60% equity/40% fixed income), for example, seeks total return consisting of capital appreciation and current income.

For investors who first and foremost seek the preservation of capital, we have designed conservative allocations invested predominantly in fixed income securities. The all-fixed income and 20/80 (20% equity/80% fixed income) Wealth Models seek to constrain potential losses in the event of poor equity market performance.

II. GLOBAL ALLOCATION

The global market portfolio's allocations to various regions are a sensible starting point for an equity investor. The global market portfolio is a theoretical basket of investments that holds all securities in the investment universe, and therefore all industries and countries, according to their market capitalisation weights. It incorporates the aggregate forward-looking expectations of all market participants and provides a continuously updated, instantaneous snapshot of global diversification.

We believe global diversification is an effective way to manage country-specific risks and provides a good rationale for investors to hold the equity and fixed income securities of UK and non-UK firms. While both UK and non-UK securities offer the potential to earn positive expected returns in the long run, they may perform quite differently over short periods, though there is no reliable evidence that the performance of one country or region relative to another can be predicted in advance.

Therefore, the Wealth Models hold equities in the UK, developed markets outside the UK, and emerging markets at approximately market cap weights. Over time, regional weights will naturally change, and the Wealth Models may be updated to reflect such changes.

In fixed income, the Wealth Models hold Dimensional funds at weights that help maintain the desired duration and credit exposure in each allocation. The funds use up-to-date information in global yield curves to identify and target the developed market currencies with higher expected bond returns. As a result, the models may systematically shift across currencies in the pursuit of higher returns while hedging currency exposure.

III. DRIVERS OF HIGHER EXPECTED RETURN

Dimensional believes prices in global competitive capital markets reflect the aggregate expectations of market participants. We therefore use information contained in market prices to identify systematic differences in expected returns across securities in equity and fixed income markets.

a. Equities

Valuation theory provides a framework about the drivers of expected stock returns, linking expectations about a firm's future cash flows to its current value through a discount rate (or, equivalently, the expected return on the stock). While an approximation, this framework provides useful insights. One insight is that, all else equal, the lower the price paid for a security, the higher the expected return. Another insight is that, for a given price, the higher the expected future cash flows, the higher the expected return.

Market capitalisation and relative price contain information about the prices investors pay. Profitability contains information about the cash flows they expect to receive.¹ Using the valuation framework, we can identify systematic differences in expected stock returns along the company size, relative price, and profitability dimensions. That is, we expect small cap stocks to have higher expected returns than large cap stocks (size premium); stocks with low relative price— as measured, for instance, by the price-to-book ratio—to have higher expected returns than high relative price stocks (value premium); and high profitability stocks to have higher expected returns than low profitability stocks (profitability premium).

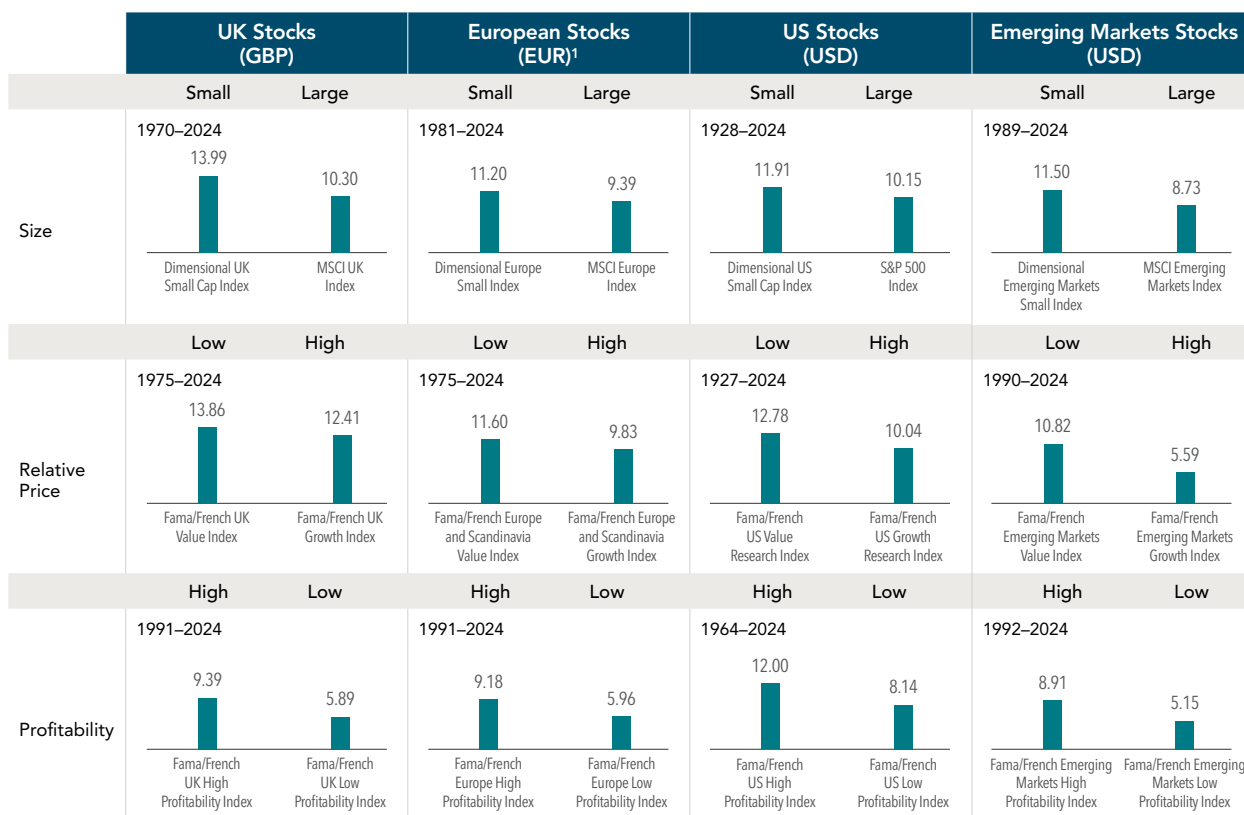
1. Profitability is measured as operating income before depreciation and amortisation minus interest expense scaled by book.

Empirically, extensive literature links firm size, relative price, and profitability to the cross-section of expected stock returns.² Exhibit 1 shows the historical annualised compound returns across size, relative price, and profitability groups in the UK, in Europe, in the US and in Emerging Markets.³ Consistent with valuation theory, size, value, and profitability premiums are sizable and have been pervasive across different markets around the world.

Dimensional’s core equity strategies seek to efficiently target the size, value, and profitability premiums through a total market solution. These solutions systematically

overweight stocks with higher expected returns (those with lower market capitalisations, lower relative prices, and higher profitability) relative to their market weights and underweight stocks with lower expected returns (those with higher market capitalisations, higher relative prices, and lower profitability) across the entire market in each eligible country. To do that, we use a weighting schema that integrates multiple premiums and maintains a link to price. A link to price is important because it allows us to control the level of deviation from the market in a more transparent and cost-efficient manner than many alternative approaches (e.g., rank-weighted,

Exhibit 1: Return Dimensions Around the World
Illustrative Index Performance (%)



Past performance is no guarantee of future results. Actual returns may be lower. Indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the management of an actual portfolio.

¹ Pre-1999 returns calculated in DEM, post-1999 returns calculated in EUR.

Performance may increase or decrease as a result of currency fluctuations. Indices include gross dividends. S&P data © 2025 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. MSCI data © MSCI 2025, all rights reserved. The Dimensional and Fama/French Indices represent academic concepts that may be used in portfolio construction and are not available for direct investment or for use as a benchmark. See "Index Descriptions" in the appendix for descriptions of Dimensional and Fama/French index data.

2. For example, see: Eugene F. Fama, Kenneth R. French, "The Cross-Section of Expected Stock Returns," *Journal of Finance* 47, No. 2, (June 1992); Eugene F. Fama, Kenneth R. French, "Common Risk Factors in the Returns on Stocks and Bonds," *Journal of Financial Economics* 33, No. 1, (February 1993); Eugene F. Fama, Kenneth R. French, "Profitability, Investment and Average Returns," *Journal of Financial Economics* 82, No. 3 (December 2006); Eugene F. Fama, Kenneth R. French, "A Five-Factor Asset Pricing Model," *Journal of Financial Economics* 116, No. 1 (April 2015); Eugene F. Fama, Kenneth R. French, "International Tests of a Five-Factor Asset Pricing Model," *Journal of Financial Economics* 123, No. 3 (March 2017); Robert Novy-Marx, "The Other Side of Value: The Gross Profitability Premium," *Journal of Financial Economics* 108, No. 1 (April 2013); and Gerard O'Reilly and Savina Rizova, "Expected Profitability: A New Dimension of Expected Returns" (white paper, Dimensional Fund Advisors, June 2013).

3. Note that the time periods reported in the exhibit differ depending on the region and the dimension, based on data availability.

equal-weighted) and provides real-time information about changes in expected returns. Through this well-thought-out weighting schema approach, the strategies pursue the size, value, and profitability premiums in an integrated, broadly diversified, and cost-effective manner. Integration allows us to consider multiple sources of information about expected returns and the interactions among those sources. It also increases the probability of delivering outperformance. Broad diversification reduces stock-, sector-, and country-specific risks; allows for flexibility at the point of execution; and increases the reliability of outcomes (see Dai 2016).⁴ By spreading investments across the entire market and having built-in flexibility, these strategies seek to reduce unnecessary turnover and lower implementation costs.

Dimensional’s equity portfolios use a daily investment process that also allows them to incorporate short-term drivers of returns, such as investment, momentum, short-run reversals and information from the securities lending market. We also take into consideration differences in expected returns at an intraday horizon through Dimensional’s flexible, thoughtful approach to trading.⁵

The Core Wealth Models (UK) and the Sustainability Wealth Models (UK) use Dimensional’s core equity strategies. The Core Plus Wealth Models (UK) aim to provide a deeper

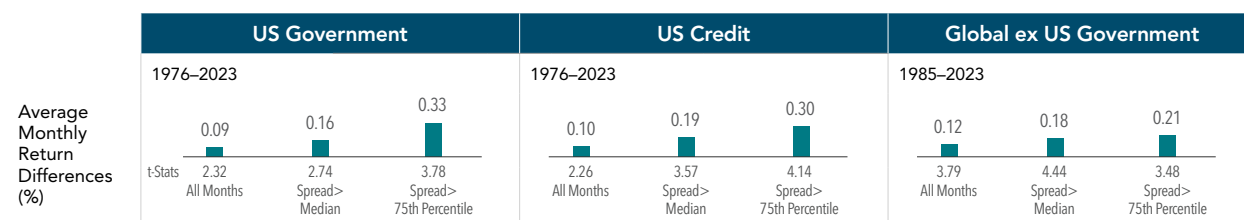
emphasis on the known drivers of higher expected returns by allocating weight to component portfolios. One third of the equity exposure of Core Plus models is composed of targeted value strategies. The remaining two thirds is composed of core strategies.

b. Fixed Income

Like in equities, we use current market prices to identify systematic differences in expected returns among fixed income securities. Across bonds, expected returns vary by duration, credit quality, and currency of issuance. We also use information in current market prices to monitor and manage risks and eliminate unnecessary trading costs. Portfolio implementation—which includes research, portfolio design, portfolio management and trading—integrates those functions with the goal of increasing overall returns or meeting investors’ goals efficiently.⁶

Dimensional focuses on the components of a bond’s expected return that are known and observable. These components are the bond’s current yield and expected capital appreciation over the holding period, based on the current term structure. The larger the sum of those two components (i.e., the higher the forward rate of a bond), the larger the bond’s expected return. Hence, the larger the differences in expected returns among bonds of different

Exhibit 2: Term Spreads and Future Term Premiums
Intermediate minus Short Duration



Past performance is no guarantee of future results. Actual returns may be lower. Indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the management of an actual portfolio.

The bar charts in this exhibit show the average monthly difference in returns between longer-maturity and shorter-maturity bond indices. The first bar in each chart represents the average USD return difference unconditional on the term spread, while the second and third bars are average USD return differences conditional on the beginning-of-month term spread being greater than the median and 75th percentiles of all months. Short-term bond indices include bonds with 1-3 year maturities and intermediate-term indices include bonds with 3-10 year maturities. The monthly time series of yield and return data are provided by Bloomberg and FTSE.

4. Wei Dai, “How Diversification Impacts the Reliability of Outcomes” (white paper, Dimensional Fund Advisors, November 2016).
 5. For further discussion, see the following Dimensional white papers: Stanley Black, Eric Geffroy, and Lukas Smart, “Understanding the Performance of Small Cap Stocks” (June 2018); Joe Hohn, Mary Phillips, and Savina Rizova, “Applying Profitability to Large Caps” (May 2017); Namiko Saito, “Value and Profitability Premiums Across Sectors” (September 2018); Savina Rizova and Namiko Saito, “Investment and Expected Stock Returns” (October 2019).
 6. For further discussion, see the following Dimensional white papers: David Plecha and L. Jacobo Rodriguez, “A Market-Driven Approach to Fixed Income” (June 2016); and Wei Dai, Joseph Kolerich, and Douglas Longo, “Pursuing Higher Expected Returns with Duration Constraints” (October 2017).

durations—as captured, for example, by term spreads—the larger the expected future term premiums. **Exhibit 2** illustrates the relation between current term spreads and term premiums.

Dimensional uses this information in global yield curves to dynamically vary a portfolio’s duration. For instance, when global yield curves are upwardly sloped and term spreads are wide (or forward rates are high), Dimensional may extend durations due to larger expected term premiums. When global yield curves are flat or inverted and term spreads are narrow (or forward rates are low), Dimensional may shorten durations due to lower expected term premiums.

Research also shows that the expected return of a credit bond is related to its yield and expected capital appreciation (forward rate). In particular, the larger the differences in expected returns among bonds of different credit quality—as reflected, for instance, in credit spreads—the larger the expected credit premium. **Exhibit 3** shows the reliable relation between credit spreads and credit premiums. Using this information from current yield curves, we can also dynamically vary the credit quality of our strategies to pursue higher expected returns.

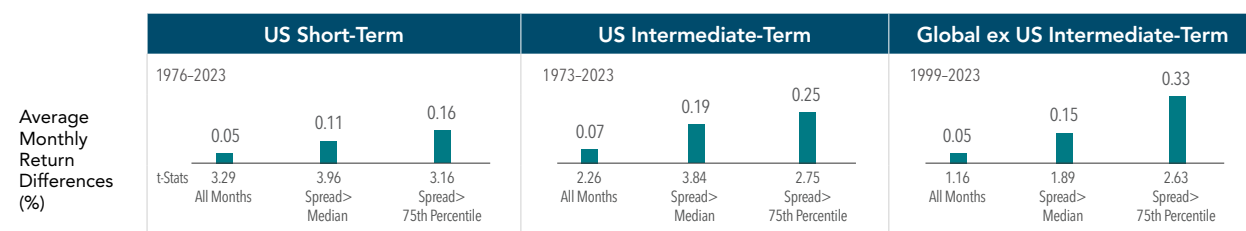
The available global opportunity set is a further consideration within a fixed income allocation. Investing in global bonds can increase expected returns, diversify term and credit exposure, and reduce idiosyncratic risks. Considering a global opportunity set in fixed income allows us to more effectively pursue higher expected returns and manage risks.

In portfolios with higher equity allocations, taking on more term and credit exposure (by focusing on longer duration or lower credit quality bonds, respectively) can supplement the higher expected return goal of such asset allocations without materially impacting the overall volatility of the portfolio since this volatility is dominated by the equity component. In portfolios with higher fixed income allocations, the goal is to preserve capital and minimise losses in consumption power, so such allocations would benefit from fixed income investments that emphasise short duration, high credit quality, and inflation protection.

In the portfolios with higher equity allocations in both the Core and Core Plus Wealth Models, we pursue higher expected returns within fixed income through an allocation to the Global Core Fixed Income Fund. This fund aims to provide investors with a diversified exposure to global term and credit premiums by dynamically varying its duration and allocation between government and credit and higher- and lower-credit quality securities. Within this fund, Dimensional applies constraints designed to provide diversification across issuers, guarantors, industries, countries of issuance and currencies. Additionally, Dimensional uses current market prices in conjunction with published credit ratings to continuously monitor an issuer’s credit quality.⁷ The Global Core Fixed Income Fund employs our robust, transparent, and integrated approach, using the information contained in market prices to target higher expected returns.

In the more fixed income heavy allocations we generally emphasise shorter duration and higher credit quality through the Global Ultra-Short Fixed Income Fund and/or the Global

Exhibit 3: Credit Spreads and Future Credit Premiums
Credit minus Government



Past performance is no guarantee of future results. Actual returns may be lower. Indices are not available for direct investment; therefore, their performance does not reflect the expenses associated with the management of an actual portfolio.

The bar charts in this exhibit show the average monthly difference in USD returns between credit/corporate bond and government bond indices with similar maturities. The first bar in each chart represents the average return difference unconditional on the credit spread, while the second and third bars are average return differences conditional on the beginning-of-month credit spread being greater than the median and 75th percentile of all months. Intermediate-term indices include bonds with 1–10 year maturities. The monthly time series of yield and return data are provided by Bloomberg.

7. To learn more, see “The Dimensional Approach to Monitoring Credit Risk” (Dimensional Fund Advisors, 2018).

Short-Dated Bond Fund. Dimensional also allocates to the Sterling Short Duration Real Return Fund, which seeks to provide protection against unexpected changes in UK inflation. This fund targets term and credit premiums within the universe of primarily short-term investment grade securities and also seeks inflation protection through the use of inflation swap agreements. Incorporating inflation swaps into a fixed income solution is a liquid and flexible approach to seek protection from unexpected inflation.

IV. ESG CONSIDERATIONS

Investors may wish to incorporate additional considerations into their asset allocation. For example, those who want to reduce their portfolio exposure to firms with less sustainable business practices or firms that are involved in controversial activities could achieve this goal with the Sustainability Wealth Models (UK).

Whether in equity or fixed income, the models offer investors the ability to pursue their ESG and investment goals simultaneously. Dimensional's ESG funds take into account key environmental and social considerations within a robust investment framework that emphasises securities with higher expected returns, maintains broad diversification, and remains mindful of transaction costs.

Dimensional uses a combination of internal and external data to systematically evaluate companies on sustainability issues. While there are many sustainability-related concerns an investment strategy can seek to address, an approach that attempts to consider all—or a large number of—variables may find that each has a limited effect or that some variables offset others. That may leave few investors satisfied with the weight given to their primary concerns. In addition, sustainability-related issues may be difficult to define and measure. ESG rating providers, for example, often reach different conclusions for the same company. For these reasons, we seek to address a focused set of issues that we believe are commonly of concern to sustainability investors and for which robust, relevant and widely reported data are available, which may help mitigate subjectivity. The primary consideration of our ESG approach is environmental impacts from company emissions, including greenhouse gas emissions and potential emissions from fossil fuel reserves. The Dimensional ESG funds overweight lower carbon companies relative to peers and/or avoid highest

carbon companies in the market, which leads to a meaningful reduction in the exposure to carbon intensity and potential emissions from reserves.

Additional considerations encompass the exclusion of companies involved in environmentally or socially adverse business activities, such as coal, oil, gas, palm oil, factory farming, adult entertainment, alcohol, gambling, tobacco, private prisons, civilian firearms, and controversial as well as nuclear weapons. Companies that are materially involved in severe ESG controversies are also excluded, in particular if a company is operating in a manner inconsistent with responsible business conduct standards, such as those defined by the UN Global Compact Principles and the OECD Guidelines for Multinational Enterprises.⁸

Dimensional has managed value-added ESG solutions for more than two decades. Our well-diversified equity and fixed income strategies provide investors with the ability to build global asset allocations with a consistent ESG approach across their total portfolio without compromising on sound investment principles.

V. THE DIMENSIONAL DIFFERENCE

At Dimensional, our investment approach is based on a belief in markets. We believe that in public capital markets, competition among many market participants all around the globe makes prices quickly reflect new information and expectations. As a result, the global market portfolio provides a continuously updated, instantaneous snapshot of global diversification across securities, sectors, and countries and represents a sensible starting point for an asset allocation. We then deviate from the market portfolio in order to pursue higher expected returns while managing risks and controlling costs.

Valuation theory provides a robust framework about the drivers of expected stock returns. It tells us that a stock's current market price reflects information about future cash flows discounted by the expected stock return. Numerous studies using data that cover over 40 countries and span close to a century show that price variables, such as market capitalisation and relative price, combined with cash flow variables like profitability and investment contain reliable information about the cross-section of expected stock returns.

8. For additional information on Dimensional's sustainability strategies, see "ESG Considerations" (Fund Documents, Dimensional Fund Advisors). For Dimensional's perspective on sustainable investing, see "12 Principles of Sustainable Investing" (Brochure, Dimensional Fund Advisors).

We use this information to structure equity portfolios that systematically target the well-known long-term drivers of expected returns, while also incorporating into the daily implementation process information about short-term drivers of expected returns, such as investment, momentum, short-run reversals and securities lending as well as information about intraday costs. The equity portfolios in the Wealth Models aim to maintain a consistent focus on the size, value, and profitability premiums, as there is no compelling evidence that timing the equity premiums is profitable for investors.⁹ In summary, our approach to equities is based on rigorous theoretical and empirical research.

The same applies to our approach to asset allocation within fixed income. The analytical framework for the expected return of a bond shows that forward rates (the yield and expected capital appreciation components of a bond's expected return) can provide information about differences in expected bond returns. Decades of rigorous empirical research spanning from Fama in the 1970s¹⁰ to Lee et al. (2022)¹¹ show that differences in forward rates across bonds of different duration, credit quality, and currency of issuance do contain reliable information about differences in their average subsequent returns. Based on that research, our fixed income portfolios target higher expected returns by using information in current forward rates to dynamically vary their allocations to different durations, credit qualities, and yield curves within the allowed ranges of their guidelines. Just like in our equity model allocations, we seek to outperform the market without trying to outguess it in our fixed income model allocations. Ample research shows that, like changes in stock prices, changes in interest rates are largely unpredictable.¹² Hence, our fixed income allocations do not try to forecast interest rate changes but instead focus on reliable drivers of expected bond returns that are observable today.

Overall, the investment solutions in our models seek to add value by using up-to-date information embedded in the latest market prices to identify reliable differences in expected returns across securities and are supported by

rigorous theoretical and empirical research. Thus, unlike some competitors, we avoid both the rigidities of indexing as well as the unreliability of forecasting.

Across both equities and fixed income, we have an integrated emphasis on reliable drivers of higher expected returns in order to incorporate useful information about interactions among premiums. In contrast, other models either do not target sources of higher expected returns or may target them separately.

Another way our models differ from competitors' models is that Dimensional does not employ traditional optimisation techniques in developing asset allocations but instead designs models using a thoughtful framework designed to help investors meet their goals. An approach to asset allocation that uses ex post investment outcomes as ex ante return assumptions in a complex, opaque model may result in poorly understood or misleading conclusions for investors. For more on this, see Lee (2013) and Davis (2008).¹³

For investors, building a broadly diversified portfolio with a consistent focus on the reliable drivers of expected returns and continuously balancing the tradeoffs among competing premiums, diversification, and costs when managing the portfolio may be a more reliable way to pursue higher expected returns than relying on capital market assumptions or opaque optimisation techniques.

VI. CONCLUSION

We have highlighted what we believe to be the key issues to consider when choosing an asset allocation suitable for an individual investor's goals. Along with the broad split between equities and fixed income, it is important to consider the specific characteristics within the equity and fixed income allocations—such as a focus on reliable drivers of expected returns. Investors have different risk tolerances, sensitivities, and time horizons, all of which need to be taken into account in the asset allocation process.

9. For example, see: Wei Dai, "Premium Timing with Valuation Ratios" (white paper, Dimensional Fund Advisors, September 2016) and Jim Davis, "Mean Reversion in the Dimensions of Expected Stock Returns" (white paper, Dimensional Fund Advisors, November 2014). See also: "The Randomness of Global Equity Returns" (Dimensional Fund Advisors, June 2019).

10. See, for example, Eugene F. Fama, "Forward Rates as Predictors of Future Spot Rates," *Journal of Financial Economics* 3, No. 4 (October 1976).

11. Marlena Lee, Savina Rizova, and Samuel Yusun Wang, "The Cross-Section of Global Corporate Bond Returns," (March 2022).

12. For example, see: Eugene F. Fama (1976); Eugene F. Fama, "The Information in the Term Structure," *Journal of Financial Economics* 13, No. 4 (December 1984); Eugene F. Fama and Robert R. Bliss, "Term Premiums in Bond Returns," *Journal of Financial Economics* 13, No. 4 (December 1984); Eugene F. Fama and Robert R. Bliss, "The Information in Long-Maturity Forward Rates," *The American Economic Review* 77, No. 4 (September 1987); John Y. Campbell and Robert J. Shiller, "Yield Spreads and Interest Rate Movements: A Bird's Eye View," *Review of Economic Studies* 58, No. 3 (May 1991); Gregory R. Duffee, "Term Premia and Interest Rate Forecasts in Affine Models," *The Journal of Finance* 57, No. 1 (February 2002).

13. Marlena Lee, "Stress Testing Monte Carlo Assumptions" (Pension Research Council Working Paper October 2013); Jim Davis, "Efficient Frontiers Constructed with Historical Data Can Be Misleading" (October 2008).

Each portfolio included in the Dimensional Wealth Models is broadly diversified and aims to efficiently target a level of expected return while managing sources of risk that are not expected to add value, and minimising implementation costs through efficient portfolio design and flexibility in execution. We believe these portfolios are effective solutions that can help many investors pursue their investment goals.

APPENDIX

Index Descriptions

Dimensional UK Small Cap Index was created by Dimensional in April 2008 and is compiled by Dimensional. January 1990–present: Market-capitalisation-weighted index of small company securities in the eligible markets excluding those with the lowest profitability and highest relative price within their country's the small cap universe. The index also excludes those companies with the highest asset growth within their country's small cap universe. The index monthly returns are computed as the simple average of the monthly returns of four sub-indices, each one reconstituted once a year at the end of each quarter of the year. Maximum index weight of any one company is capped at 10%. The country currently included is United Kingdom. Exclusions: REITs and Investment Companies. Source: Bloomberg, LSPD. The calculation methodology for the index was amended in January 2014 to include profitability as a factor in selecting securities for inclusion in the index. The calculation methodology for the index was amended in November 2019 to include asset growth as a factor in selecting securities for inclusion in the index. July 1981–December 1989: Includes securities in the bottom 10% of market capitalisation, excluding the bottom 1%. Rebalanced semiannually. March 1955–June 1981: Elroy Dimson and Paul Marsh, Hoare Govett Smaller Companies Index 2009, ABN-AMRO / Royal Bank of Scotland, January 2009. Country included is UK.

Dimensional Europe Small Index was created by Dimensional in April 2008 and is compiled by Dimensional. January 1990–present: Market-capitalization-weighted index of small company securities in the eligible markets, excluding those with the lowest profitability and highest relative price within their country's small cap universe. The index also excludes those companies with the highest asset growth within their country's small cap universe. The index monthly returns are computed as the simple average of the monthly returns of four sub-indices, each one reconstituted once a year at the end of each quarter of the year. Maximum index weight of any one company is capped at 5%. Countries currently included

are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and United Kingdom. Exclusions: REITs and Investment Companies. Source: Bloomberg. The calculation methodology for the index was amended in January 2014 to include profitability as a factor in selecting securities for inclusion in the index. The calculation methodology for the index was amended in November 2019 to include asset growth as a factor in selecting securities for inclusion in the index. January 1981–December 1989: Dimensional Europe ex UK Small Cap Index and Dimensional UK Small Cap Index combined using small portfolio weights.

Dimensional US Small Cap Index was created by Dimensional in March 2007 and is compiled by Dimensional. January 1975–present: Market-capitalization-weighted index of securities of the smallest US companies whose market capitalization falls in the lowest 8% of the total market capitalization of the Eligible Market. The Eligible Market is composed of securities of US companies traded on the NYSE, NYSE MKT (formerly AMEX), and Nasdaq Global Market. Exclusions: Non-US companies, REITs, UITs, and Investment Companies and companies with the lowest profitability and highest relative price within the small cap universe. The index also excludes those companies with the highest asset growth within the small cap universe. Source: CRSP and Compustat. The index monthly returns are computed as the simple average of the monthly returns of 12 sub-indices, each one reconstituted once a year at the end of each month of the year. The calculation methodology for the index was amended in January 2014 to include profitability as a factor in selecting securities for inclusion in the index. The calculation methodology for the index was amended in December 2019 to include asset growth as a factor in selecting securities for inclusion in the index. June 1927–December 1974: Market-capitalization-weighted index of securities of the smallest US companies whose market capitalization falls in the lowest 8% of the total market capitalization of the Eligible Market. The Eligible Market is composed of securities of US companies traded on the NYSE, NYSE MKT (formerly AMEX), and Nasdaq Global Market. Exclusions: Non-US companies, REITs, UITs, and Investment Companies. Source: CRSP and Compustat.

Dimensional Emerging Markets Small Index was created by Dimensional in April 2008 and is compiled by Dimensional. January 1990–present: Market-capitalization-weighted index of small company securities in the eligible

markets, excluding those with the lowest profitability and highest relative price within their country's small cap universe. The index also excludes those companies with the highest asset growth within their country's small cap universe. The index monthly returns are computed as the simple average of the monthly returns of four sub-indices, each one reconstituted once a year at the end of each quarter of the year. Maximum index weight of any one company is capped at 5%. Countries currently included are Brazil, Chile, China, Colombia, Czech Republic, Hungary, India, Indonesia, Malaysia, Mexico, Peru, Philippines, Poland, South Africa, South Korea, Taiwan, Thailand, and Turkey. Exclusions: REITs and Investment Companies. Source: Bloomberg. The calculation methodology for the index was amended in January 2014 to include profitability as a factor in selecting securities for inclusion in the index. The calculation methodology for the index was amended in November 2019 to include asset growth as a factor in selecting securities for inclusion in the index. January 1989–December 1989: Fama/French Emerging Markets Small Cap Index.

Fama/French UK Value Index: January 1975–present: Consists of companies whose relative price is in the bottom 30% for the region. The index is reconstituted once a year at the end of December. Source: Ken French website. Simulated from MSCI and Bloomberg data.

Fama/French UK Growth Index: January 1975–present: Consists of companies whose relative price is in the top 30% for the region. The index is reconstituted once a year at the end of December. Source: Ken French website. Simulated from MSCI and Bloomberg data.

Fama/French Europe and Scandinavia Value Index: January 1975–present: Fama/French Europe Value Index and Fama/French Scandinavia Value Index combined at regional market weights. Consists of companies whose relative price is in the bottom 30% for the region. The index is reconstituted once a year at the end of December. Source: Ken French website. Simulated from MSCI and Bloomberg data.

Fama/French Europe and Scandinavia Growth Index: Fama/French Europe Growth Index and Fama/French Scandinavia Growth Index combined at regional market weights. Consists of companies whose relative price is in

the top 30% for the region. The index is reconstituted once a year at the end of December. Source: Ken French website. Simulated from MSCI and Bloomberg data.

Fama/French US Value Research Index: Provided by Fama/French from CRSP securities data. Includes the lower 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973).

Fama/French US Growth Research Index: Provided by Fama/French from CRSP securities data. Includes the higher 30% in price-to-book of NYSE securities (plus NYSE Amex equivalents since July 1962 and Nasdaq equivalents since 1973).

Fama/French Emerging Markets Value Index: Courtesy of Fama/French from Bloomberg and IFC securities data. Includes stocks in the upper 30% book-to-market range in each country; companies weighted by float-adjusted market cap; rebalanced annually in June.

Fama/French Emerging Markets Growth Index: Courtesy of Fama/French from Bloomberg and IFC securities data. Includes stocks in the bottom 30% book-to-market range in each country; companies weighted by float-adjusted market cap; rebalanced annually in June.

Fama/French UK High Profitability Index: Courtesy of Fama/French from Bloomberg securities data. Includes stocks in the upper 30% operating profitability range in the country; companies weighted by float-adjusted market cap; rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in $t-1$.

Fama/French UK Low Profitability Index: Courtesy of Fama/French from Bloomberg securities data. Includes stocks in the lower 30% operating profitability range in the country; companies weighted by float-adjusted market cap; rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in $t-1$.

Fama/French Europe High Profitability Index: Courtesy of Fama/French from Bloomberg securities data. Includes stocks in the upper 30% operating profitability (OP) range in each region; companies weighted by float-adjusted market cap. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in t-1.

Fama/French Europe Low Profitability Index: Courtesy of Fama/French from Bloomberg securities data. Includes stocks in the lower 30% operating profitability (OP) range in each region; companies weighted by float-adjusted market cap. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in t-1.

Fama/French US High Profitability Index: Courtesy of Fama/French from CRSP and Compustat securities data. Includes all stocks in the upper 30% operating profitability (OP) range of NYSE eligible firms. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in t-1.

Fama/French US Low Profitability Index: Courtesy of Fama/French from CRSP and Compustat securities data. Includes all stocks in the lower 30% operating profitability (OP) range of NYSE eligible firms. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, and selling, general, and administrative expenses divided by book equity for the last fiscal year end in t-1.

Fama/French Emerging Markets High Profitability Index: Courtesy of Fama/French from Bloomberg and IFC securities data. Includes stocks in the upper 30% operating profitability (OP) range in each region; companies weighted by float-adjusted market cap. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, selling, general and administrative expenses divided by book equity for the last fiscal year end in t-1.

Fama/French Emerging Markets Low Profitability Index: Courtesy of Fama/French from Bloomberg and IFC securities data. Includes stocks in the lower 30% operating profitability (OP) range in each region; companies weighted by float-adjusted market cap. Rebalanced annually in June. OP for June of year t is annual revenues minus cost of goods sold, interest expense, selling, general and administrative expenses divided by book equity for the last fiscal year end in t-1.

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