

Foreword

We hope that this CMA document helps you navigate and fulfil your long-term investment goals.



Welcome to EFG's inaugural Capital Market Assumptions (CMA) document. CMAs were immensely popular pre the 2008/09 financial crisis where, in many respects, the financial markets were "normal". However, from 2009 onwards as exceptionally low interest rates and quantitative easing from central banks around the world took hold, financial asset prices became exceptionally distorted, CMAs became more challenged given the paradigm shift that occurred. In 2007, no one would have expected the environment of negative interest rates, which we had rarely seen throughout history. Since Covid in 2020 and then the post Covid period, a sense of normality has started to appear for financial asset prices. Indeed, the traditional 60:40 portfolio (60% allocation to stocks and a 40% allocation to bonds), now has the opportunity to earn diversified returns.

As a result, we believe CMAs will make a return in popularity to help investors navigate the expected returns and volatilities of different asset classes and provide guidance relative to an investor's risk profile and time horizon.

In addition to normalised expectations, we are starting to see return expectations for the major stock markets changing, for example smaller companies, have significantly underperformed their larger counterparts over the last 10 to 15 years or so, to the point that the theoretical concept of small-cap risk premium has been challenged. Of course, we can argue that Private Equity has taken some of this mantle as well as regulation making it difficult for companies to list and use the stock markets to raise capital. We do wonder, however, whether the new Trump administration which is heavily biased towards de-regulation can start to change this narrative, at least in part. Regulation does help larger companies, as they use this to protect their interests. We are also interested in market concentration, for example the top ten companies in the

S&P 500 are at the most concentrated level since the 1960's. This is possibly why so many commentators including ourselves expect lower returns for some of the major markets such as the US, compared to history, as this element unwinds.

Finally, with the advent of artificial intelligence (AI), and its influence on pretty much all companies and consumers it will certainly have an impact on productivity and ultimately margins and earnings for companies. Will it lead to higher investment returns? This is unknown, but one thing we do know is that there will be many winners and losers from AI and it could be that the net impact is negligible for the time being. But over the long-term it could have a huge impact as the internet did over the last 20 years with some of the most successful companies in history born over that period. The future in this regard is exciting.

Please do refer to our Outlook 2025 to delve deeper into some of these enduring themes and we hope that this CMA document stimulates debate and challenge but most importantly it provides you with a framework to help you navigate and fulfil your long-term investment goals.

Moz Afzal, Chief Investment Officer

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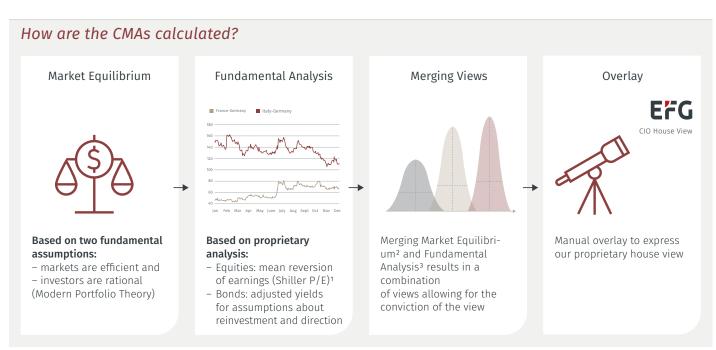
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Introduction

The world has been through enormous change in recent years, starting with the Covid crisis that began in 2020, soon followed by Russia's invasion of Ukraine in 2022 that, in turn, set off a sharp rise in oil and commodity prices. The ensuing rate hiking cycle was one of the sharpest in history and, more recently, has been accompanied by an escalation of tensions in the Middle East to levels not seen since the 1970s. These events are highlighted because they are important in terms of setting the scene for the outlook over the next 7-10 years.

We expect slowing trend growth around the world, a return to more normal inflation dynamics and greater disparity between the economic performance of countries and regions. De-globalisation is expected to continue with an increasingly fragmented global trade network that will weigh more heavily on those countries and regions more dependent on exports for growth.

Our Capital Market Assumptions (CMAs) set out our long-term return expectations across a broad range of markets and asset classes. The time horizon for our long-term market assumptions is 7-10 years. They are largely derived from a quantitative process combined with a qualitative overlay. The process consists of four steps as outlined below (please refer to the Technical Appendix for further information).



¹ The Shiller P/E ratio is a valuation measure that uses real earnings per share (EPS) over a 10-year period to smooth out fluctuations in corporate profits that occur over different periods of a business cycle. ² Market equilibrium is defined as the price and quantity point at which market supply and market demand for an item are equal. ³ Fundamental analysis is used to value a company and determine whether a stock is over- or undervalued by the market. Source: EFGAM.



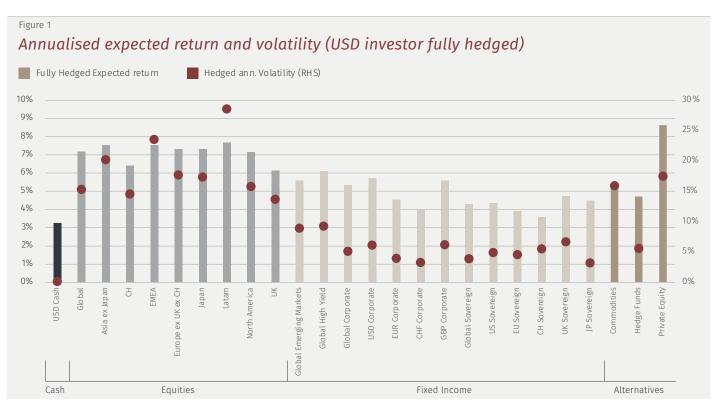
Finding the right asset allocation for an investor is therefore critical to achieving long-term investment goals.

How the CMAs can help your investment decisions

To help you achieve long-term investment success, we believe in the following core principles:

- **1.** Develop and maintain your strategy: Establish and maintain a clear investment strategy that is consistent with your goals, regardless of market conditions. Review your strategy regularly to ensure that it continues to meet your objectives, especially as your personal circumstances are likely to change.
- **2.** Align your strategy with your goals and risk tolerance: Ensure that your investment strategy is consistent with your risk capacity and personal risk tolerance. It is important that the level of risk you take is appropriate to your risk tolerance and financial situation.
- **3.** Build a solid portfolio: Create a well-diversified portfolio that includes different asset classes, sectors, markets and securities. This diversification can help reduce overall risk and provide access to a wider range of potential sources of return than a more concentrated portfolio.

Finding the right asset allocation for an investor is therefore critical to achieving long-term investment goals. Our Capital Market Assumptions are an important part of this process, helping to build and define robust strategies in line with your risk appetite. As Figure 1 shows, there is much variation in terms of expected return and volatility across asset classes, sub asset classes and geographies. Typically the greater the volatility, the higher the expected return, although this is not guaranteed.



Note: EFGs Capital Market Assumptions – forecast utilises a fully hedged expected risk and return for an USD investor. The above data is based on projections. Certain assumptions have been made regarding the above information and such information is provided by way of illustration only. Any changes to these assumptions may have a material impact on the assessment presented. The term hedging can be used to describe diversifying a portfolio by buying shares in a 'conservative' bond fund to offset potential losses in more volatile investments. Source: EFGAM.



Equity Market assumptions



Key statements

Below average returns

Returns will be slightly below average with many regions appearing around fair value and some sectors seeming expensive.

Nominal growth rates

Equity market growth influenced by the nominal growth rate of the economy.

Regional variations

Valuations in Europe and Asia are more appealing than the US. The expectation is that US equities will underperform relative to global markets.



1 **Equity Market** assumptions

We expect AI to remain a major investment theme over the next 10 years, affecting the world we in which we live in ways we cannot yet imagine.

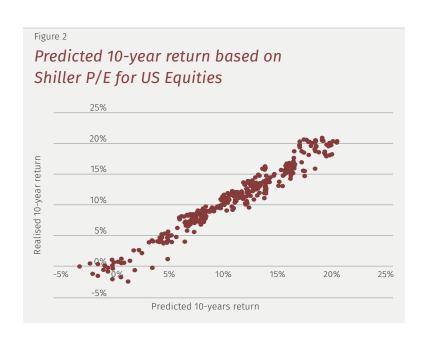
The starting point for thinking about equities over the next 10 years are valuations. On average these look to us to be around fair value in many parts of the world and a little bit above fair value in some others. Some sectors, notably technology, look to be expensive. Against this valuation backdrop, our expectation is that equity market returns are a little bit below average over the next 7-10 years, as shown in our CMAs. There is limited room for multiple expansion, rather it is more likely that there is marginal multiple contraction over the next 7-10 years.

The extent to which equity markets are able to increase will be impacted by the nominal growth rate of the economy, which sets the speed limit for earnings growth. Slightly higher inflation will be helpful in this regard as it is simply a function of companies' pricing power. However, better pricing will be offset by the slowing trend growth highlighted in the macro section.

Valuations in Europe and Asia look more attractive than in the US but the counterbalance is slower trend growth and inflation in those parts of the world relative to the US. On balance, we expect US equities to underperform most of the rest of the world over the next 7-10 years, primarily because global markets are over-concentrated in US stocks at the moment. Our view is that we will see a multi-year trend of market broadening, reflected in outperformance of non-US stocks and outperformance of small caps relative to large and mega cap stocks.

We expect AI to remain a major investment theme over the next 10 years, affecting the world in which we live in ways we cannot yet imagine. However, it will be disruptive and there will be some industries and sectors that are major losers. In particular, we expect the white-collar service sector to feel an outsized impact from AI and to undergo extreme change as a result. While those companies benefiting from AI are likely to grow quickly, it will be important not to get caught up in the hype and overpay to access such opportunities.

With this in mind, EFG's process for generating equity capital market assumptions is based on two complementary approaches. The starting point are the equilibrium returns then the second step focuses on fundamentals. A critical input into the fundamental analysis are valuations leveraging the Shiller P/E. This simple model works rather well, as shown in Figure 2.



The data on the right is based on projections. Certain assumptions have been made regarding the above information and such information is provided by way of illustration only. Any changes to these assumptions may have a material impact on the assessment presented. Source: EFGAM.



Fixed Income assumptions



Key statements

Returns below bond yields

Expectation for the next ten years is that fixed income returns will be below bond vields.

Neutral yield range

US Government 10-year yield expected to be between 4.25% – 4.75% with the fed funds rate around 3.25%.

Eurozone yield curve flatter

Use Germany as the overall indicator, with countries like Italy and Spain experiencing constant or slightly declining spreads; France will experience spread widening.

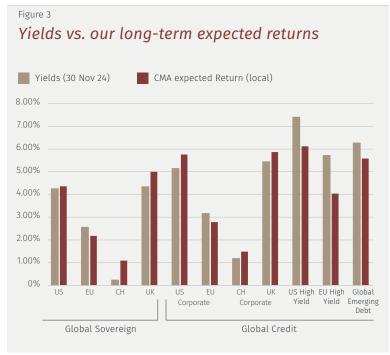


2 Fixed Income assumptions

We expect fixed income returns to be a little bit below bond yields in the coming decades.

Fixed income markets have received a massive boost over the past 40 years from the trend decline in inflation, interest rates and bond yields that began in the early-to-mid 1980s. We expect the next 10 years to see that process go into reverse. Whereas fixed income returns have been a little bit higher than bond yields over the past few decades, we expect fixed income returns to be a little bit below bond yields in the coming decades.

It is important also to think about neutral interest rates and the slope of the curve. Our view is that policy rates in most of the developed world remain in restrictive territory but only just. We expect the Federal Reserve to impart fewer rate cuts in this cycle than in Europe while the Bank of Japan is expected to hike rates very gently. Over the next 10 years we expect the average fed funds rate to be around 3.25%. Given the normal steepness of the curve we would expect the 10-year yield to be 1.0% to 1.5% above that, suggesting a neutral range of 4.25% to 4.75%. In our view, this is around 0.5% higher under Trump and the Republican clean sweep than it would have been under a Democrat administration, due to the fact budget deficits will likely be higher for longer.



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We believe the eurozone yield curve will be anchored by a policy rate that is around 1.50% below that in the US and a yield curve that is a bit flatter, with the gap between the short end and the long end more like 0.5% to 1.0%. However, it will be important to think about yield spreads relative to Germany. Our view is that some countries like Italy and Spain will see constant or possibly slightly declining spreads while others such as France will experience spread widening.

With regard to credit, we note that credit spreads are unusually tight at the moment, both in Investment Grade (IG) and High Yield (HY). A normalisation of these spreads over the next 7-10 years will see returns that are below current yields.



Currencies and Commodities assumptions



Key statements

Varied outlook

Little variation in USD, strengthening yen, weakening Swiss franc and renminbi as China uses its currency to offset headwinds to export growth.

Global reserve currency movements

Gold will remain attractive diversifier over USD as the world's global reserve currency as alternatives are sought.

Weak oil price dynamics

Affected by volume of oil being pumped, over capacity supplies and lower demand due to greater environmental awareness.

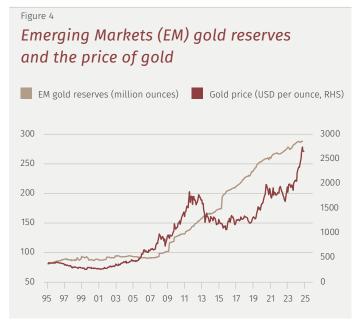


3 Currencies and Commodities assumptions

The fragmentation of the post-WWII global trading system will encourage countries to seek alternatives to the US dollar as the world's global reserve currency. The currency outlook over the next 7-10 years depends very much on which currency pair is being looked at. On average we expected the trade weighted US dollar to be little changed over the next 7-10 years. However, within the aggregate we think that there is potential for the yen to strengthen in response to tighter monetary policy and for the Swiss franc to weaken as it takes the place of the yen as the main funding currency in the global carry trade. The renminbi is also expected to weaken as China uses its currency as a tool to help offset headwinds to export growth.

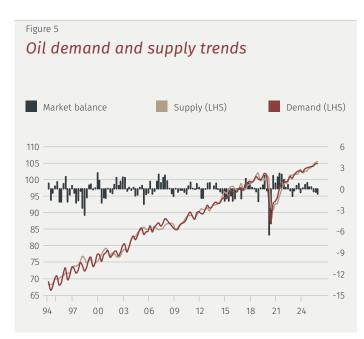
The fragmentation of the post-WWII global trading system will encourage countries to seek alternatives to the US dollar as the world's reserve currency. However, in the absence of any serious contenders, gold will remain an attractive diversifier despite its 0% yield. Holding gold is also much less antagonistic to US politicians than seeking to set up an alternative global reserve currency.

Underlying oil price dynamics look weak. Despite output cuts from OPEC+ (Organisation of the Petroleum Exporting Countries) and rising Middle East tension, the oil price has struggled to gain traction. This is for a number of reasons. First, the US is pumping a significant volume of oil, something that will expand further under the Trump administration. Secondly, the large oil producers have plenty of spare capacity such that even if global markets were to lose Iran's oil supply, the gap could be easily filled. Thirdly, demand for hydrocarbons has weakened as a result of greater environmental awareness. We expect these factors to continue to limit the ability of the oil price to sustain meaningful gains in the years ahead.



Source: LSEG Data & Analytics and EFGAM calculations 2024.

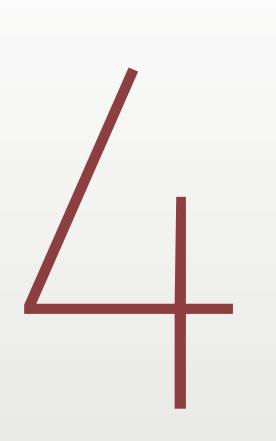
Past performance is not indicative of future results.



Source: LSEG Data & Analytics, US Energy Information Administration, and EFGAM calculations 2024. Past performance is not indicative of future results.



Private Market assumptions



Key statements

Hedge funds exploit opportunities

International divergence, steeper yield curves and varied cross-sectional opportunities in equity markets will enable hedge funds to exploit market conditions.

Two opposing forces

Outlook balanced between effects of a reduction in the illiquidity premium and strong demand for private markets.

Attractive but varied returns

Risk – return will be attractive relative to public markets but strongly dependent on the selected manager given the large dispersion in returns.



4 **Private Market** assumptions

The outlook for private markets is finely balanced by two opposing forces.

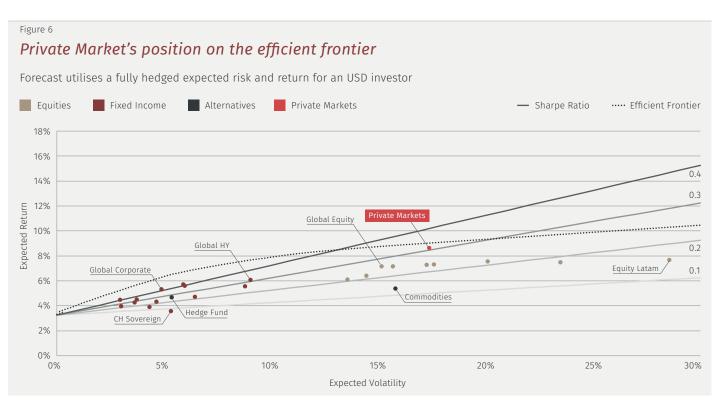
It is harder to think about the outlook for alternatives because the term encompasses such a broad array of investment opportunities and styles.

Nonetheless, there are certain things we can say.

Against the macro backdrop described above in which we expect a greater degree of international divergence, steeper yield curves and varied cross-sectional opportunities in equity markets, hedge funds as an asset class are expected to provide good diversification benefits over the next 7-10 years. The greater flexibility afforded to hedge funds means that they should be able to exploit markets in ways that long only products are unable to do so.

The outlook for private markets is finely balanced by two opposing forces. First, we note that there has been a surge of money into private markets in recent years. This has resulted in valuations that look expensive relative to history; deals are taking place at higher multiples and the yield spreads on offer relative to publicly traded debt have shrunk. In other words, there has been a reduction in the illiquidity premium. At the same time, there are several trillion dollars in dry powder, suggesting there remains strong demand for private markets. Against this background our expectation is that returns over the next decade will be attractive relative to public markets but not as attractive as a few years ago. One should bear in mind, given the large dispersion of return of private market managers, being in the top performing managers in private markets will determine whether indeed these returns are better or significantly worse than our assumptions.

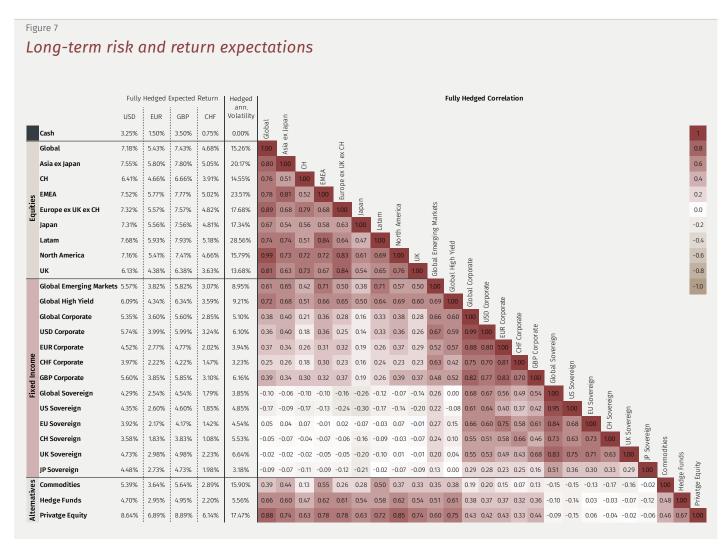
Figure 6 shows, there is much variation in terms of expected return and volatility across asset classes, sub asset classes and geographies. Typically the greater the volatility, the higher the expected return, although this is not guaranteed. Private Markets expected risk and return is shown below.



An efficient frontier is a set of investment portfolios that are expected to provide the highest returns at a given level of risk. A portfolio is said to be efficient if there is no other portfolio that offers higher returns for a lower or equal amount of risk. The above data is based on projections. Certain assumptions have been made regarding the above information and such information is provided by way of illustration only. Any changes to these assumptions may have a material impact on the assessment presented. The Sharpe ratio compares the return of an investment with its risk, Source: EFGAM.

Capital Market Assumptions

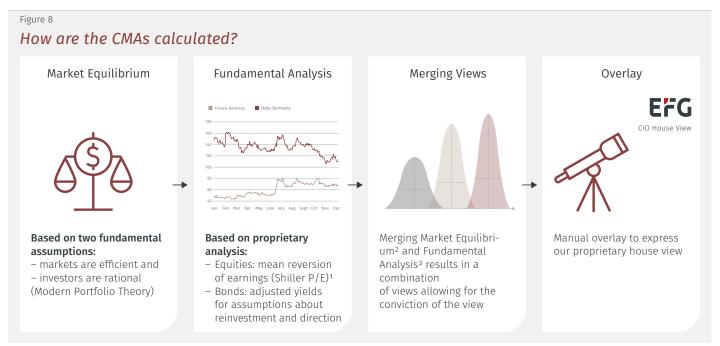
The Capital Market Assumptions set out our long-term risk and return expectations across a broad range of markets and asset classes over the next 7-10 years.



The above data is based on projections for risk and return expectations over the next 7-10 year period. Certain assumptions have been made regarding the above information and such information is provided by way of illustration only. Any changes to these assumptions may have a material impact on the assessment presented. There is no guarantee that these forecasts will be achieved. Source: EFGAM.

Technical **Appendix**

The Capital Market Assumptions are developed using a predominantly quantitative process that consists of four stages, as set out below.



¹ The Shiller P/E ratio is a valuation measure that uses real earnings per share (EPS) over a 10-year period to smooth out fluctuations in corporate profits that occur over different periods of a business cycle. ² Market equilibrium is defined as the price and quantity point at which market supply and market demand for an item are equal. ³ Fundamental analysis is used to value a company and determine whether a stock is over- or undervalued by the market. Source: EFGAM.

Stage 1 – Market Equilibrium

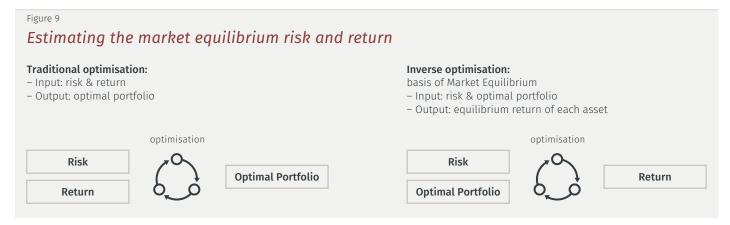
The first stage in developing our CMAs is to estimate the market equilibrium risk and return. The horizon of these expectations is very long term, about 30 years.

Standard mean-variance optimisation 4 is used to identify the optimal portfolio mix based on expected returns, standard deviations and co-variances. It is possible to reverse this process: if we know the optimal weights and the co-variances – including the standard deviations – of the underlying asset classes, then we can estimate the returns consistent with these parameters.

In practice, the optimal weights are taken to be the market weights, since the market is assumed to be efficient, and the co-variance matrix can be estimated using 30 years of historical data to produce relatively stable results over time.

Using the market weights and the covariance matrix, an expected return estimate can be developed.

⁴ Mean-variance analysis is the process of weighing risk, expressed as variance, against expected return. Investors use mean-variance analysis to make investment decisions.



Source: EFGAM.

Stage 2 – Fundamental Analysis

The second stage in developing our CMAs is to estimate the expected risk and return on a long-term basis, typically 7 – 10 years using a different, independent methodology.

This methodology uses fundamentals to forecast long-term returns.

- 1. Equities the analysis is based on valuations. While valuations are considered a sub optimal guide to short-term performance, they are a reliable guide to long-term returns. The underlying assumption is that valuations are means-reverting. This means that if current valuations are above the cyclicallyadjusted, long-term valuation the model expects future returns to be below the long-term average. Conversely, if the current valuation is below the cyclically-adjusted long-term valuation then the model expects the future returns to be above the long-term average.
- 2. Bonds the most reliable predictor of long-term returns is the current yield-to-maturity (YTM) rate. When yields are trending lower the model anticipates long-term returns that are slightly above the YTM and vice versa.

Stage 3 - Merging Views

The third stage in developing our CMAs focuses on merging the equilibrium expectation with the expectation derived from the fundamental analysis using our own confidence level.

This is achieved by using the Black-Littterman (BL) approach. This methodology is explicitly designed to incorporate other views into a standard optimisation approach. This is ideal for combining output from the Market Equilibrium process (stage 1) with the output from the Fundamental Analysis (stage 2) process. The BL approach balances the risk premia from each process according to assumptions about the likelihood of each occurring. The BL approach is extremely flexible in its application:

- The combination of two or more sources of output (allowing additional processes to be added to ME and FA if deemed necessary).
- · Different assumptions about either absolute or relative returns, e.g., assumption 1 US equities will return X% over the next 10 years vs. assumption 2 US equities will outperform European equities by Y% over the next 10 years.
- Each forecasting process involves different assumptions about probabilities, however they are calculated (subjectively or quantitatively).

Although this stage is largely quantitative, it requires the expression of a confidence level based on two key inputs, namely market equilibrium and fundamental analysis. This is a crucial stage in the process as it requires us to confirm which outcome better reflects what we expect over the next 7-10 years. The starting point is to assign a 50% / 50% confidence level, the confidence level is then adjusted up or down depending on our economic outlook.

Stage 4 – Subjective Overlay

The final and fourth stage allows us to adjust the expected risk and return in a completely subjective manner. While we always try to minimise the use of this, we have to acknowledge that any model has its shortcomings and a subjective overlay is necessary to reflect our proprietary outlook over the next 7-10 years.

Please reach out to use if you have any inputs or would like to challenge our approach.



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Moz Afzal, EFG's Chief Investment Officer, shares his insights on the developments shaping the markets and the global economy, speaking with special guests who have a particular point of view



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Equity Market

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Equity Market



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