



Principles for successful long-term investing

Using Market Insights to achieve better outcomes

Max McKechnie, Global Market Strategist





The key to successful investing isn't predicting the future, it's learning from the past and understanding the present. In “Principles for successful long-term investing”, we present seven time-tested strategies for guiding portfolios through today's challenging markets and towards tomorrow's goals.

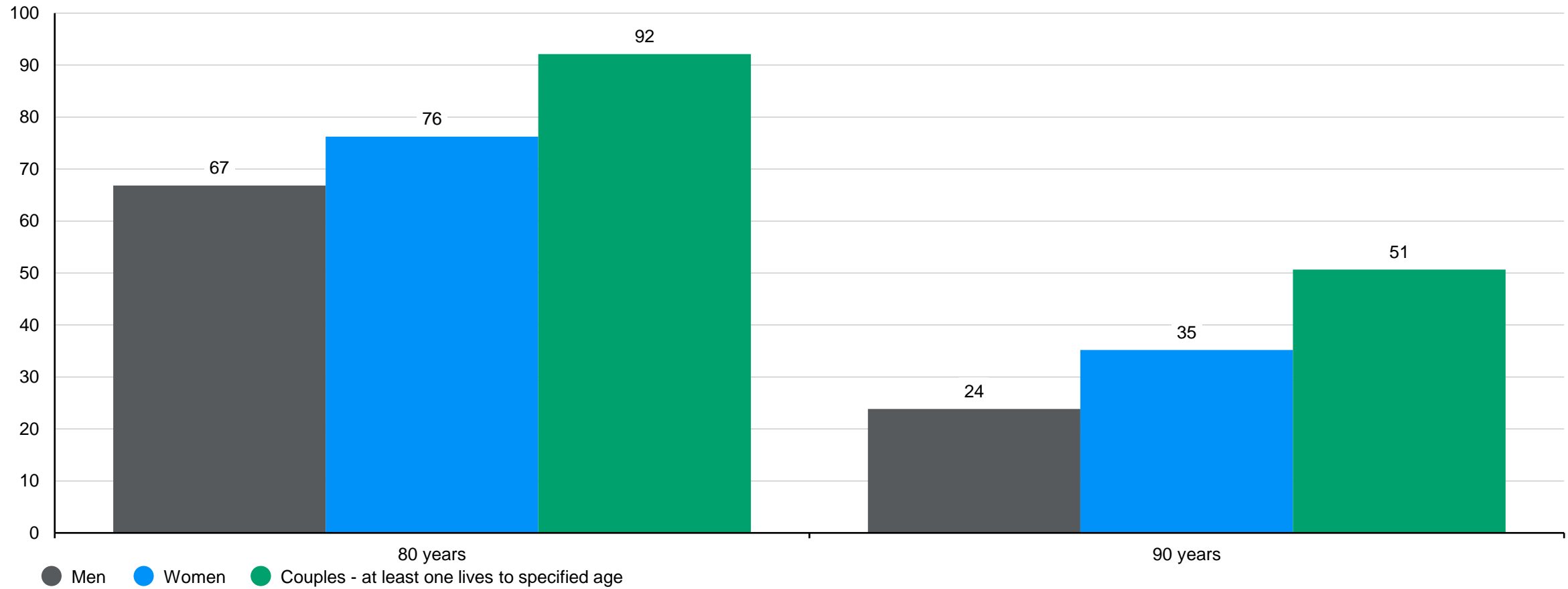
Principles for successful long- term investing

- 1 Plan on living a long time
- 2 Cash is rarely king
- 3 Start early and reinvest income
- 4 Returns and risks generally go hand in hand
- 5 Volatility is normal
- 6 Timing the market is difficult
- 7 Diversification works



1 Plan on living a long time

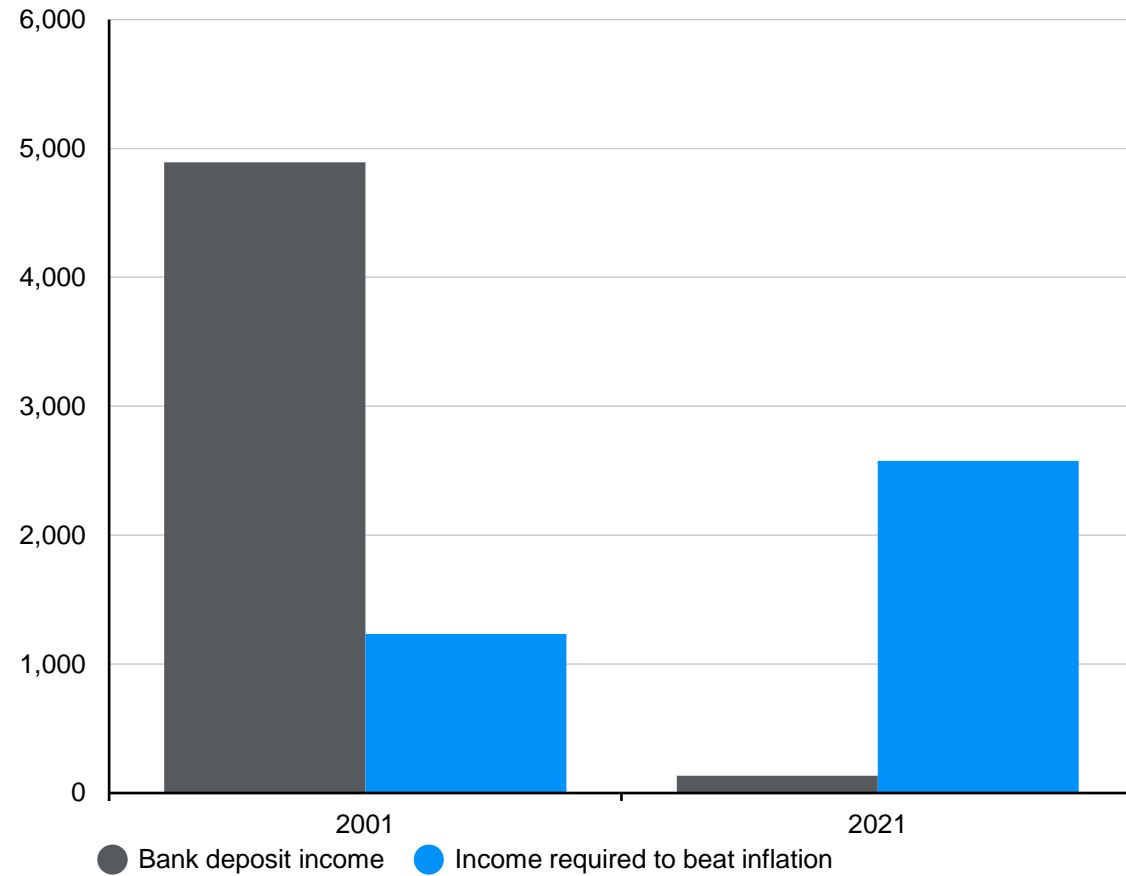
Probability of reaching ages 80 and 90
% probability, persons aged 65, by gender and combined couple



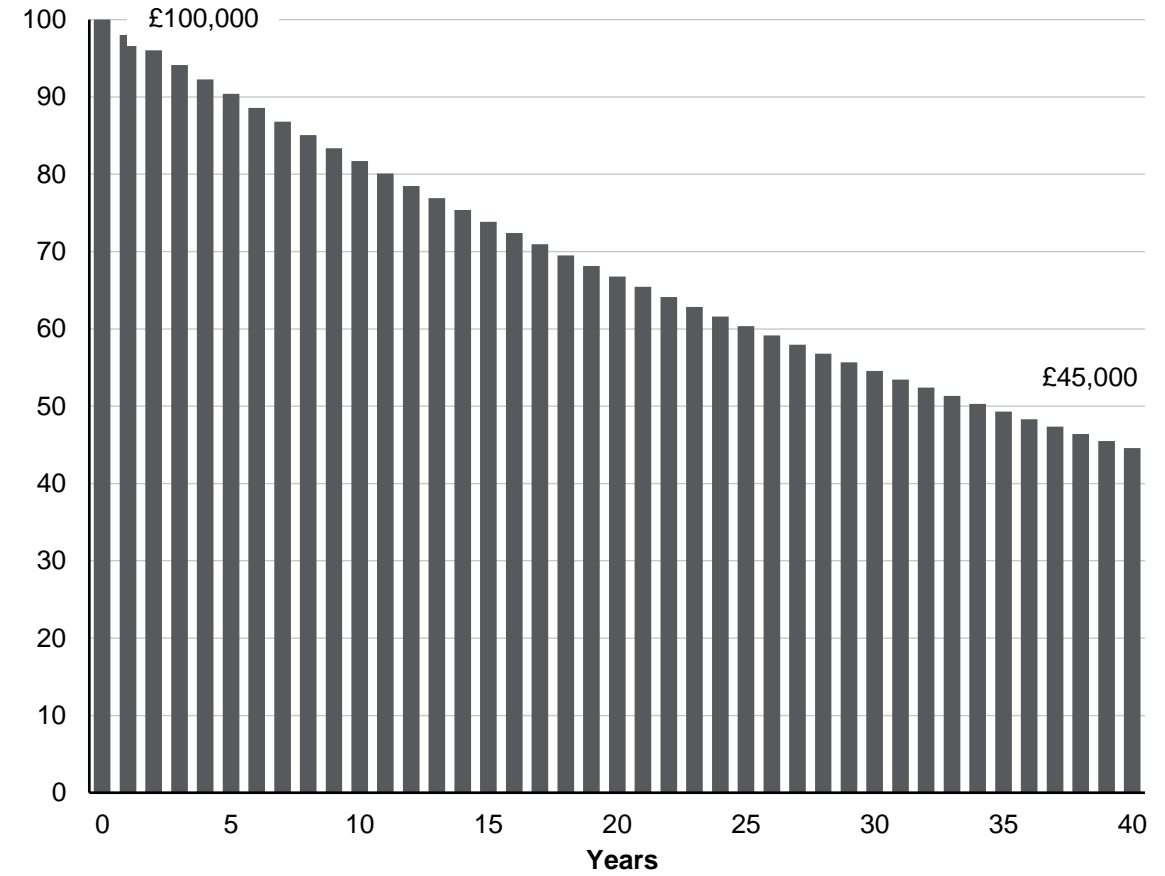


2 Cash is rarely king (part 1)

Income generated by £100,000 in a three-month bank deposit GBP



Effect of 2% inflation on purchasing power of £100,000 GBP, thousands



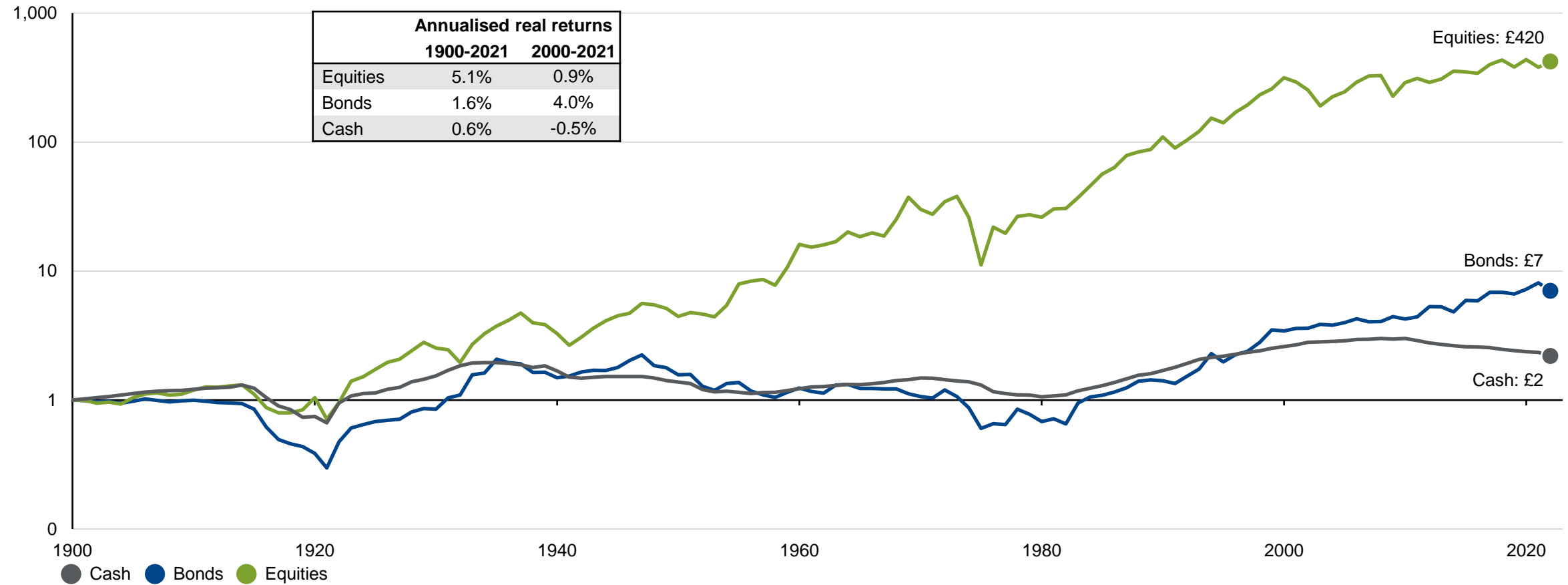
Source: (Left) ONS, Refinitiv Datastream, J.P. Morgan Asset Management. Data shown are averages over the course of the calendar year. (Right) J.P. Morgan Asset Management. For illustrative purposes only, assumes no return on cash and an inflation rate of 2%. Past performance is not a reliable indicator of current and future results. Guide to the Markets - UK. Data as of 30 September 2022.



2 Cash is rarely king (part 2)

Total return of £1 in real terms

GBP, log scale for total returns

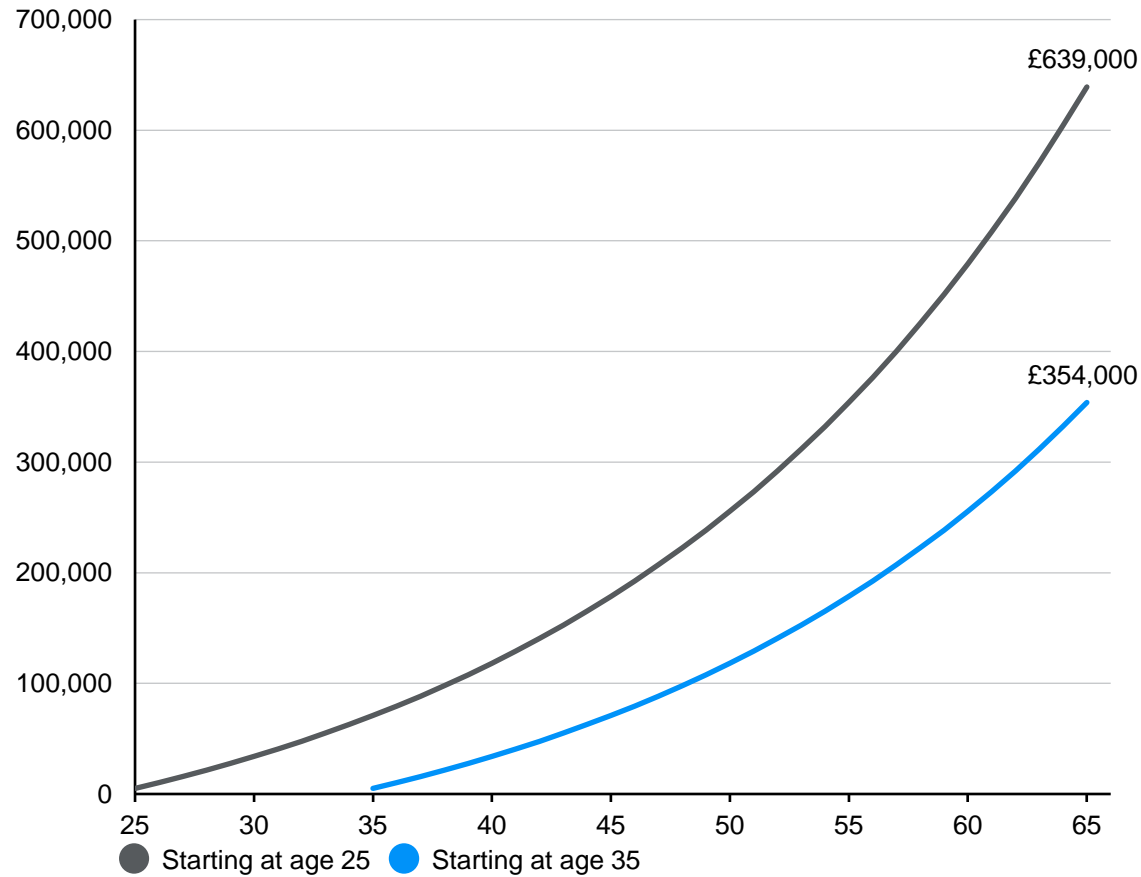


Source: Bloomberg, Bloomberg Barclays, Dimson, FactSet, FTSE, J.P. Morgan, Marsh and Staunton ABN AMRO/LBS Global Investment Returns calculated from the Yearbook 2008, J.P. Morgan Asset Management. Equities: FTSE 100; Bonds: JPMorgan GBP Government Bond Index; Cash: three-month GBP LIBOR (prior to 2008 cash is short-dated Treasury bills). Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.

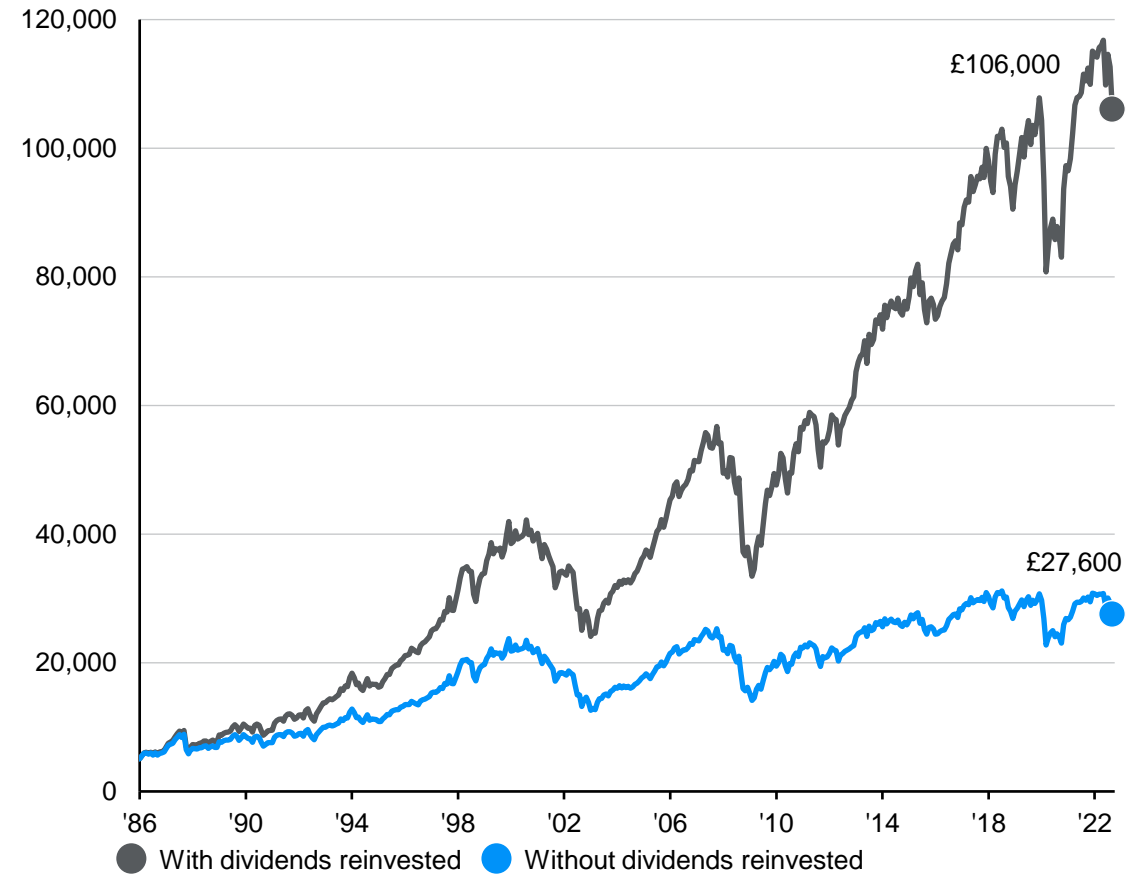


3 Start early and reinvest income

£5,000 invested annually with 5% growth per year
GBP



£5,000 investment with/without income reinvested
GBP, FTSE All-Share returns



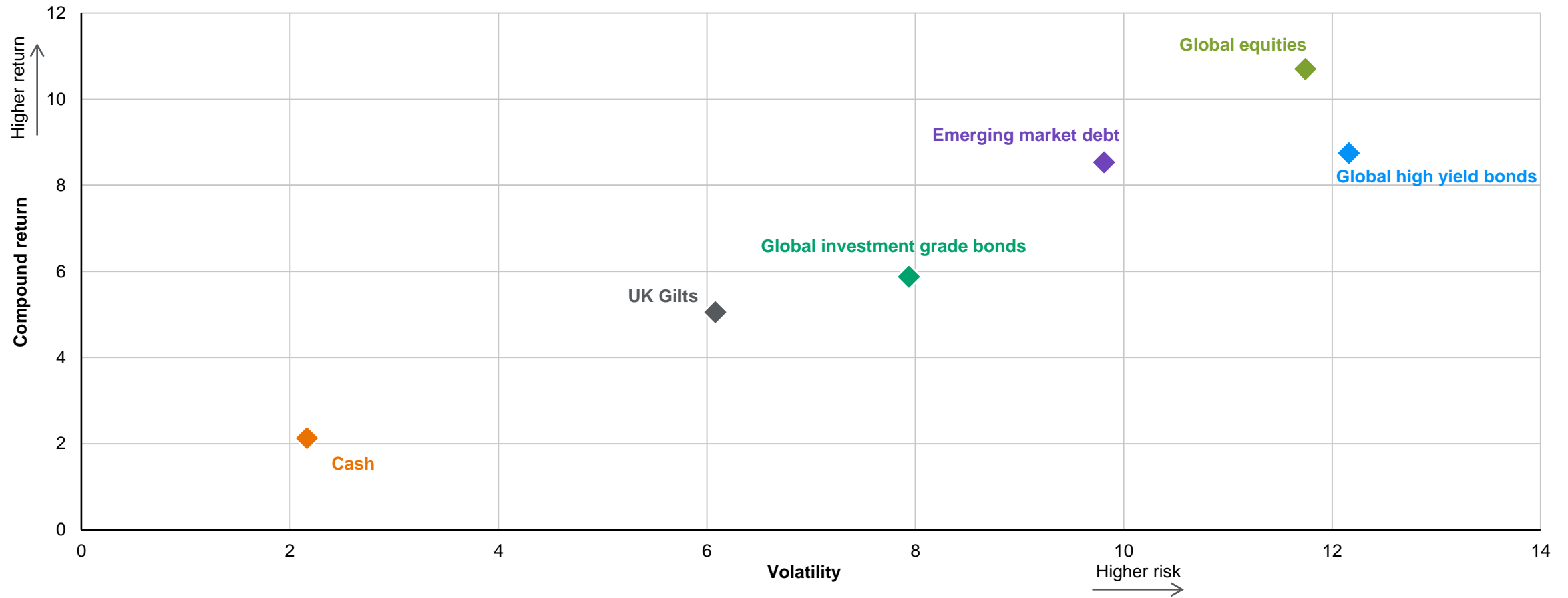
Source: (Left) J.P. Morgan Asset Management. For illustrative purposes only, assumes all income reinvested, actual investments may incur higher or lower growth rates and charges. (Right) Bloomberg, FTSE, J.P. Morgan Asset Management. Based on FTSE All-Share Index and assumes no charges. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



4 Returns and risk generally go hand in hand

Historic risk vs. return for selected asset classes

%, annualised return 2004 – 2021 in GBP



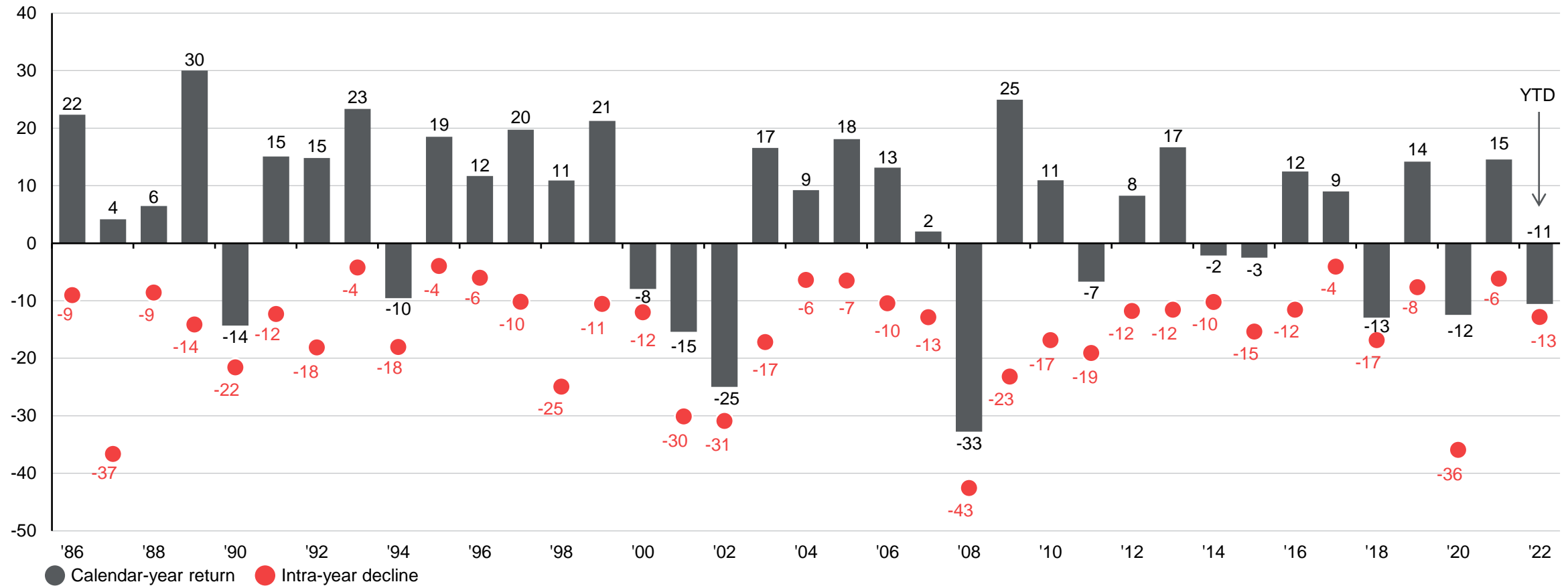
Source: Bloomberg Barclays, MSCI, Refinitiv Datastream, J.P. Morgan Asset Management. Volatility is the standard deviation of annual returns since 2004. Cash: JP Morgan Cash United Kingdom (3M); UK Gilts: Bloomberg Barclays Sterling Gilts; Global investment-grade bonds: Bloomberg Barclays Global Aggregate – Corporate; Emerging market debt: J.P. Morgan EMBI Global Diversified; Global high yield bonds: ICE BofA Global High Yield; Global equities: MSCI All-Country World Index (includes developed and emerging markets). Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



5 Volatility is normal

FTSE All-Share intra-year declines vs. calendar-year returns

%; despite average intra-year drops of 15.5% (median 12.2%), annual returns are positive in 25 of 36 years



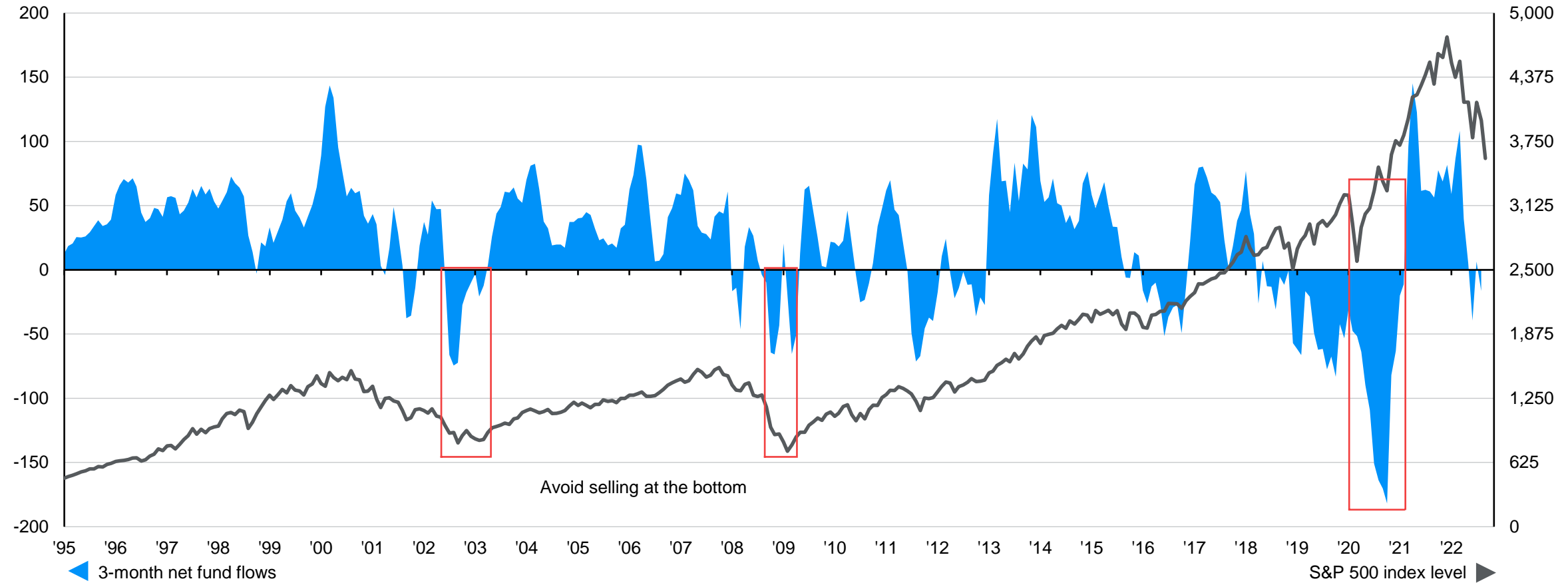
Source: FTSE, Refinitiv Datastream, J.P. Morgan Asset Management. Returns shown are price returns in GBP. Intra-year decline refers to the largest market fall from peak to trough within the calendar year. Returns shown are calendar years from 1986 to 2021. 2022 is year-to-date. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



6 Timing the market is difficult (part 1)

US mutual fund and ETF flows and S&P 500

USD billions, three-month net flows (LHS); index level (RHS)

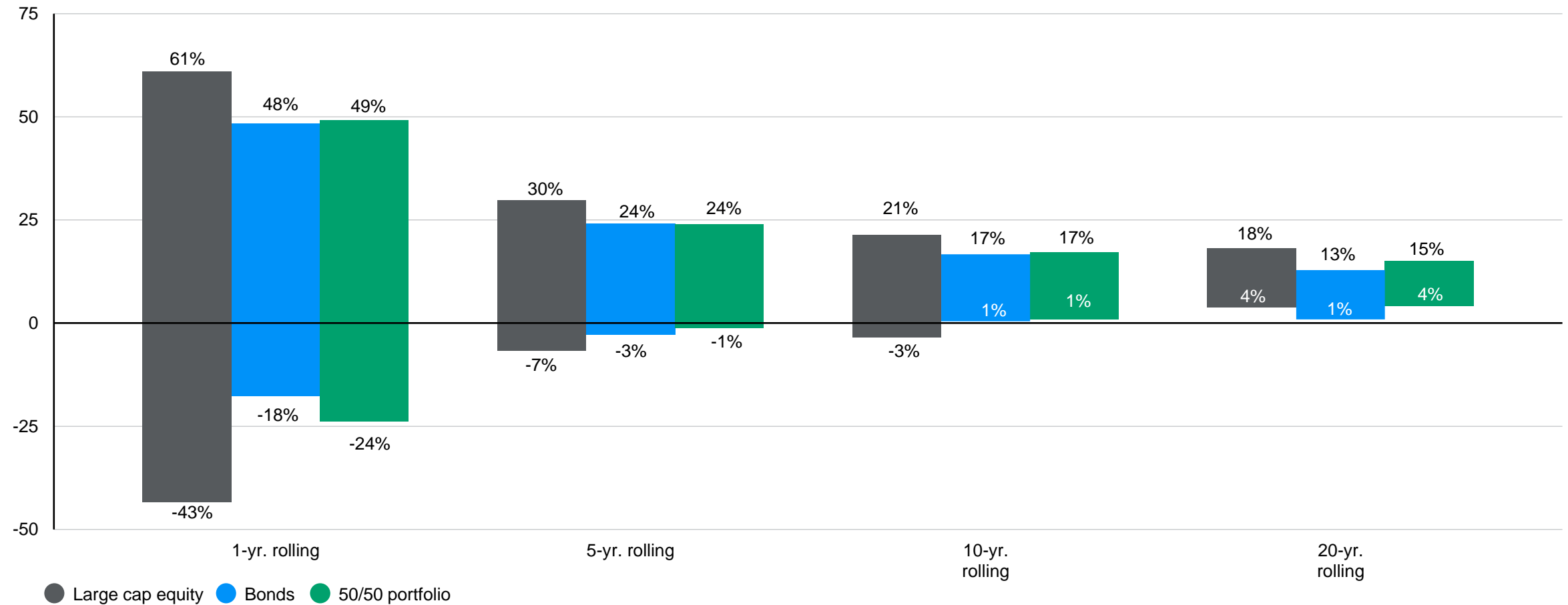




6 Timing the market is difficult (part 2)

Range of equity and bond total returns

%, annualised total returns, 1950-present



Source: Strategas/Ibbotson, J.P. Morgan Asset Management. Large cap equity represents the S&P 500 Composite and Bonds represents the Strategas/Ibbotson US Government Bond Index and US Long-term Corporate Bond Index. Returns shown are per annum and are calculated based on monthly returns from 1950 to latest available and include dividends. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



7 Diversification works

2013	2014	2015	2016	2017	2018	2019	2020	2021	YTD	Q3 '22	10-year ann. return	Vol.
DM equities 25.0%	REITs 35.1%	REITs 8.2%	HY bonds 36.9%	EM equities 25.8%	Govt bonds 5.8%	DM equities 23.4%	EM equities 15.0%	REITs 41.2%	Cmdty 32.1%	Hedge funds 9.4%	DM equities 14.9%	Cmdty 16.6%
Portfolio 6.0%	EMD 14.1%	EMD 7.0%	Cmdty 33.3%	DM equities 12.4%	HY bonds 2.7%	REITs 23.1%	DM equities 12.9%	Cmdty 28.3%	Hedge funds 5.9%	HY bonds 6.0%	REITs 13.6%	REITs 16.1%
HY bonds 6.0%	DM equities 12.1%	DM equities 5.5%	EM equities 33.1%	Portfolio 5.6%	IG bonds 2.4%	EM equities 14.3%	Portfolio 7.1%	DM equities 23.5%	Cash -0.1%	Cmdty 4.3%	Portfolio 8.3%	EM equities 13.8%
Hedge funds 4.7%	IG bonds 9.6%	Govt bonds 2.3%	EMD 31.4%	EMD 0.7%	REITs 1.9%	Portfolio 12.6%	IG bonds 7.0%	Portfolio 9.7%	Govt bonds -5.0%	EMD 3.8%	HY bonds 8.0%	HY bonds 10.2%
REITs 1.3%	Portfolio 8.8%	IG bonds 2.0%	REITs 30.4%	HY bonds 0.6%	EMD 1.7%	EMD 10.6%	Govt bonds 6.1%	Hedge funds 4.6%	Portfolio -5.3%	DM equities 2.2%	EM equities 7.3%	EMD 10.2%
Cash 0.5%	HY bonds 6.1%	Hedge funds 1.9%	DM equities 29.0%	Cash 0.4%	Cash 0.9%	HY bonds 9.3%	HY bonds 4.7%	HY bonds 2.3%	IG bonds -5.8%	Portfolio 1.8%	EMD 6.7%	DM equities 9.3%
IG bonds -1.5%	Hedge funds 5.6%	HY bonds 1.4%	Portfolio 27.0%	REITs -0.2%	Portfolio -0.5%	IG bonds 7.2%	Hedge funds 3.5%	Cash 0.1%	HY bonds -7.1%	IG bonds 1.8%	IG bonds 5.3%	Govt bonds 7.6%
EM equities -4.1%	Govt bonds 5.4%	Portfolio 1.2%	IG bonds 24.4%	IG bonds -0.4%	Hedge funds -0.9%	Hedge funds 4.4%	EMD 2.0%	EMD -0.9%	EM equities -8.0%	Govt bonds 0.6%	Hedge funds 4.0%	IG bonds 7.3%
Govt bonds -6.1%	EM equities 4.3%	Cash 0.7%	Hedge funds 22.3%	Govt bonds -2.0%	DM equities -2.5%	Cmdty 3.5%	Cash 0.6%	EM equities -1.3%	REITs -10.0%	Cash 0.0%	Govt bonds 2.3%	Portfolio 7.1%
EMD -7.0%	Cash 0.6%	EM equities -9.7%	Govt bonds 21.3%	Hedge funds -3.2%	Cmdty -5.7%	Govt bonds 1.5%	Cmdty -6.1%	IG bonds -2.0%	DM equities -11.1%	REITs -3.4%	Cash 0.7%	Hedge funds 6.7%
Cmdty -11.2%	Cmdty -11.8%	Cmdty -20.3%	Cash 0.7%	Cmdty -7.1%	EM equities -8.9%	Cash 1.0%	REITs -8.8%	Govt bonds -5.7%	EMD -11.1%	EM equities -3.6%	Cmdty -1.5%	Cash 0.3%

Investing principles

Source: Bloomberg Barclays, FTSE, J.P. Morgan Economic Research, MSCI, Refinitiv Datastream, J.P. Morgan Asset Management. Annualised return and volatility covers the period from 2012 to 2021. Vol. is the standard deviation of annual returns. Govt bonds: Bloomberg Barclays Global Aggregate Government Treasuries; HY bonds: ICE BofA Global High Yield; EMD: J.P. Morgan EMBI Global Diversified; IG bonds: Bloomberg Barclays Global Aggregate – Corporates; Cmdty: Bloomberg Commodity; REITs: FTSE NAREIT All REITs; DM equities: MSCI World; EM equities: MSCI EM; Hedge funds: HFR1 Global Hedge Fund Index; Cash: JP Morgan Cash United Kingdom (3M). Hypothetical portfolio (for illustrative purposes only and should not be taken as a recommendation): 30% DM equities; 10% EM equities; 15% IG bonds; 12.5% government bonds; 7.5% HY bonds; 5% EMD; 5% commodities; 5% cash; 5% REITs and 5% hedge funds. All returns are total return, in GBP, and are unhedged. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



Guide to the Markets

Max McKechnie, Global Market Strategist
October 2022



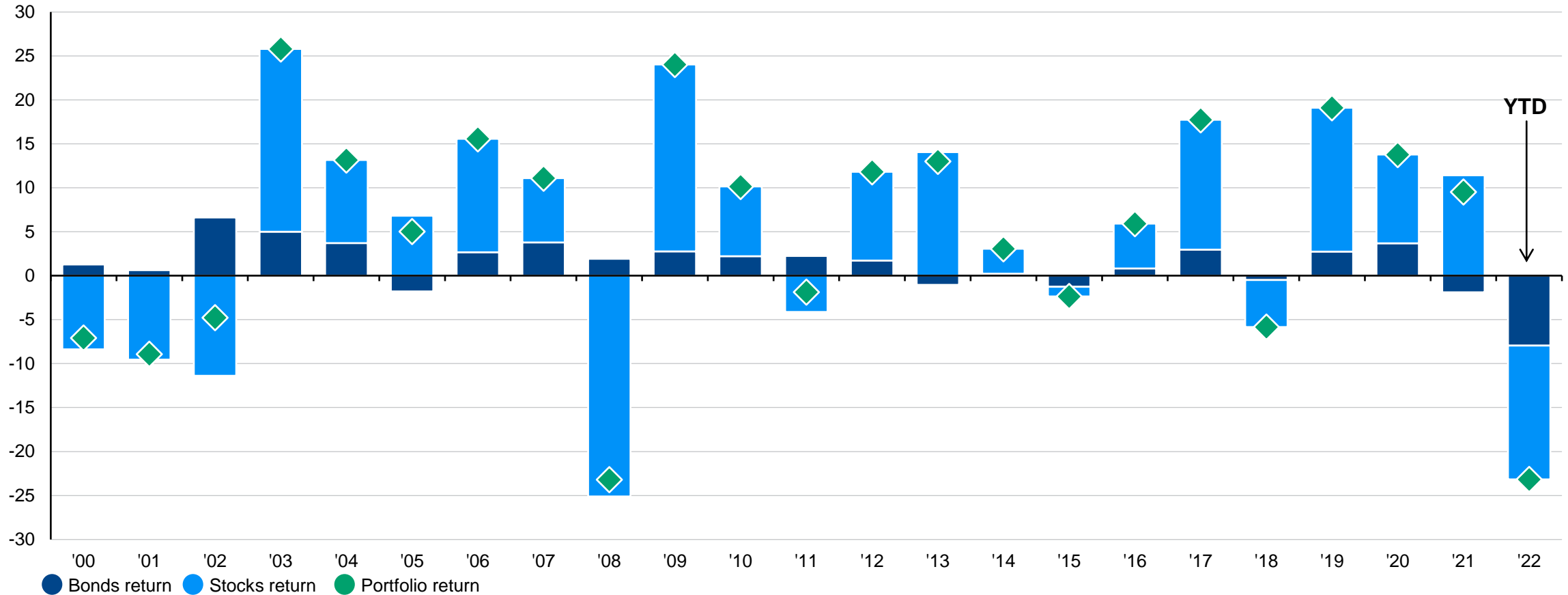


2022 has been a tough year for investors

GTM UK 74

Annual returns in a 60/40 stock-bond portfolio

%, total return in USD



Fixed Income

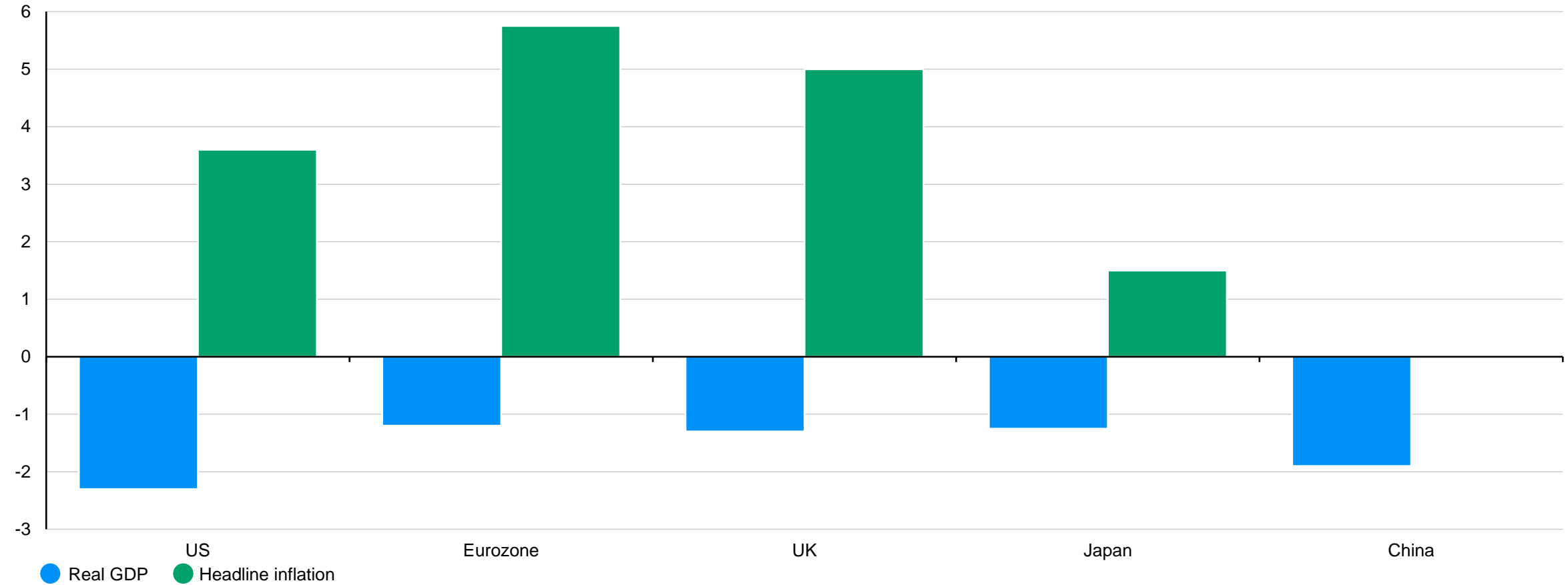
Source: Bloomberg Barclays, MSCI, Refinitiv Datastream, J.P. Morgan Asset Management. Stock returns are calculated using MSCI All-Country World Index and bond returns using Bloomberg Barclays Global Aggregate. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



Growth downgrades and inflation upgrades have been a painful mix.

Year-to-date change in 2022 growth and inflation consensus forecasts

% point change in year over year measures

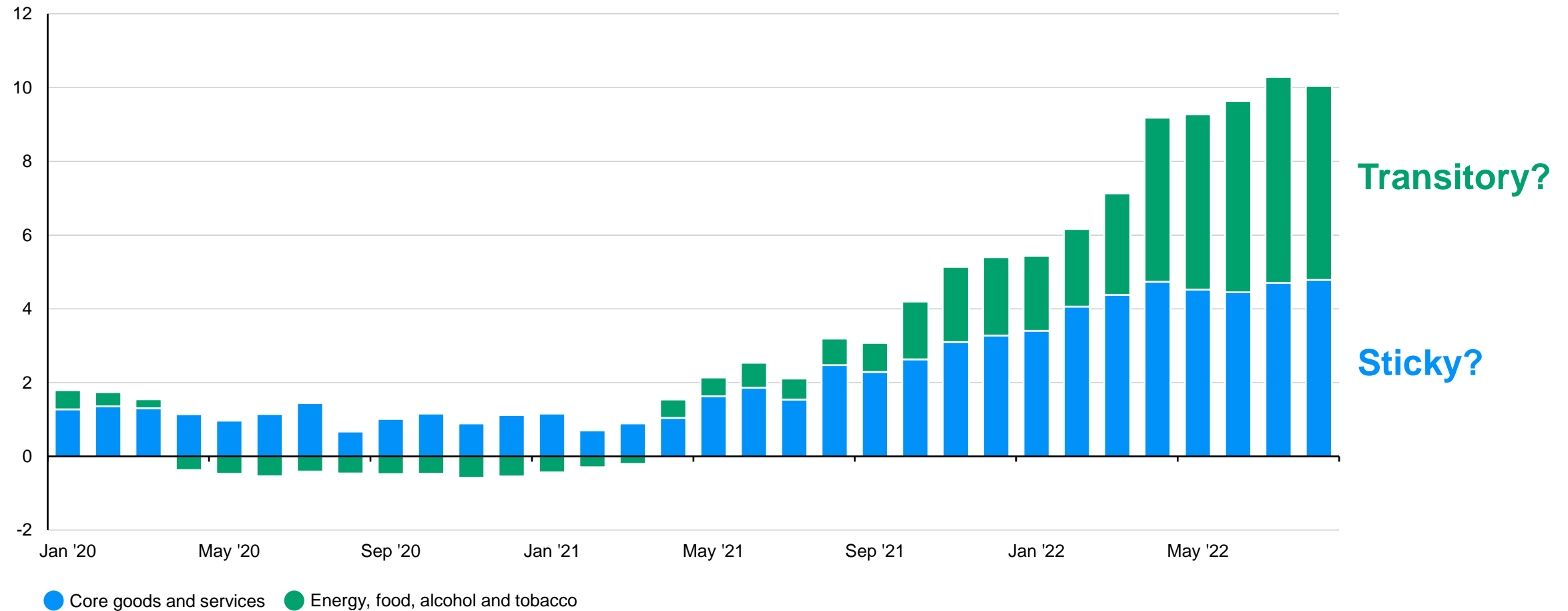




The broadening of inflationary pressures is still a major concern

UK headline inflation breakdown

% change year on year



Transitory?

Sticky?

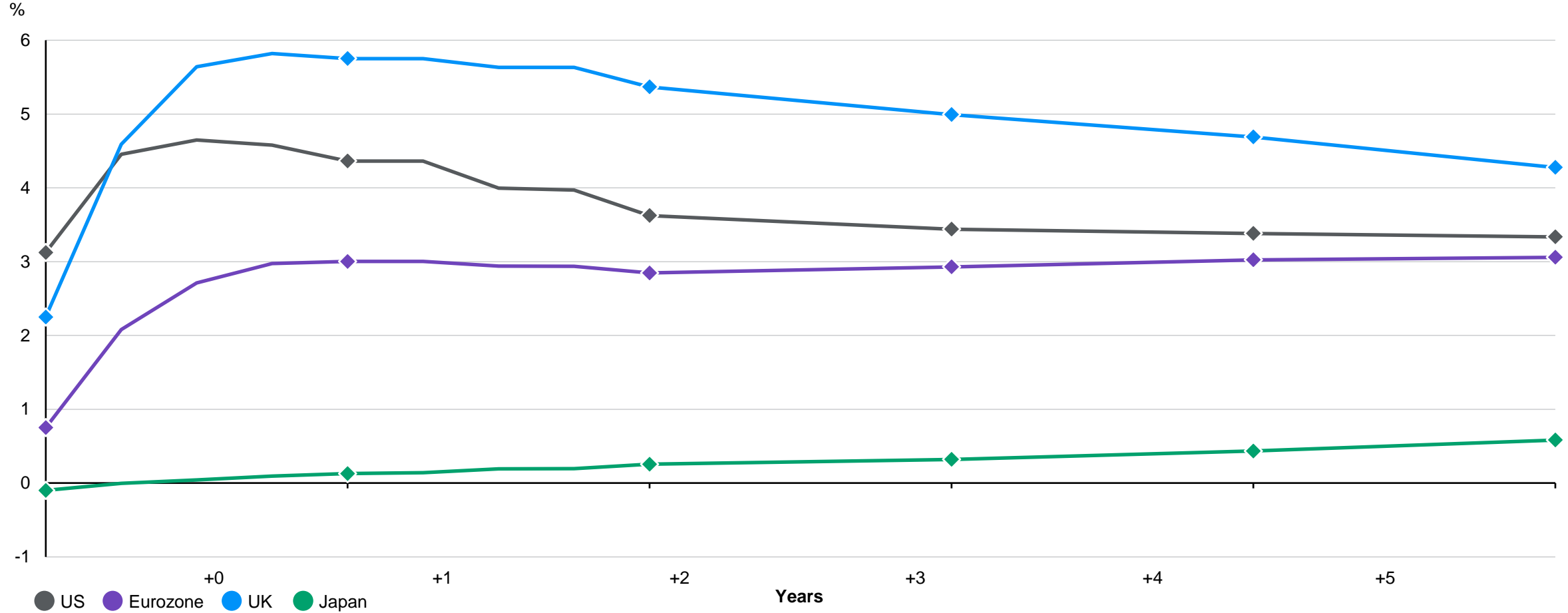


Central banks have been forced to respond

GTM UK 10

Global economy

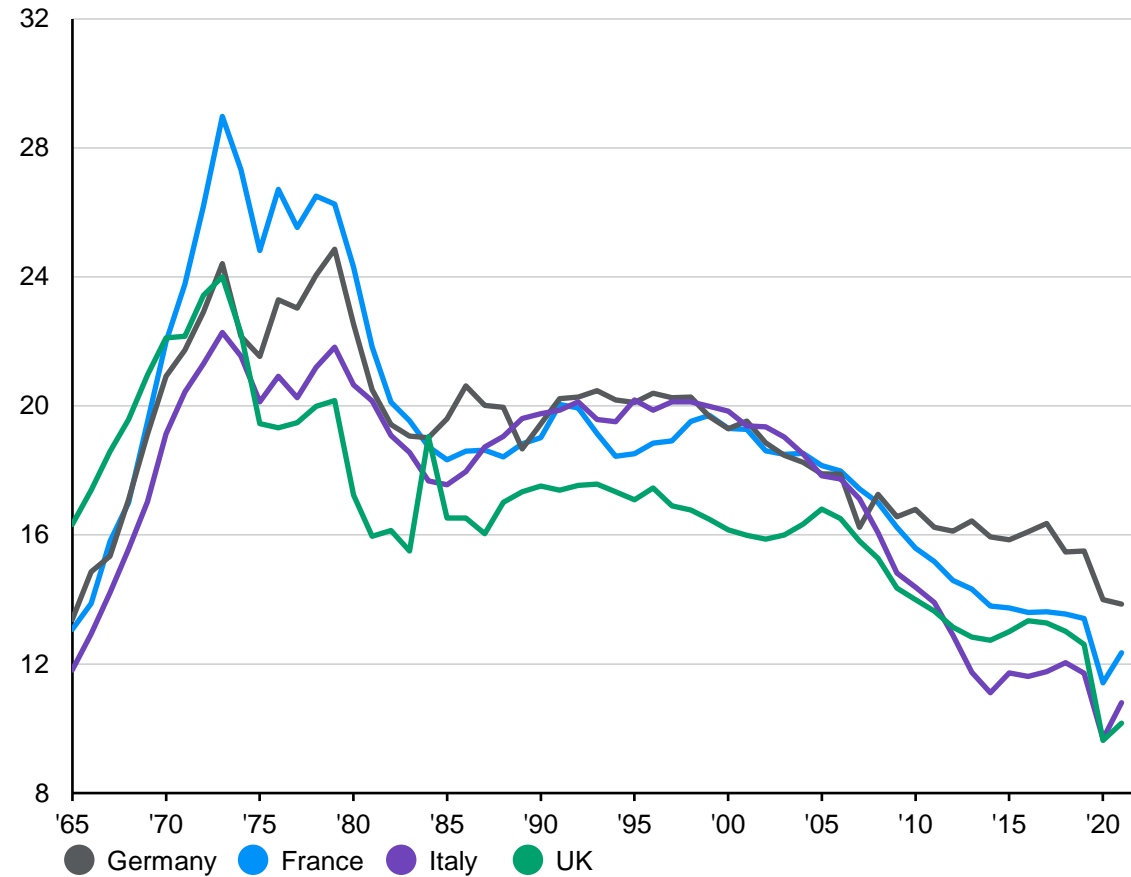
Market expectations for central bank policy rates



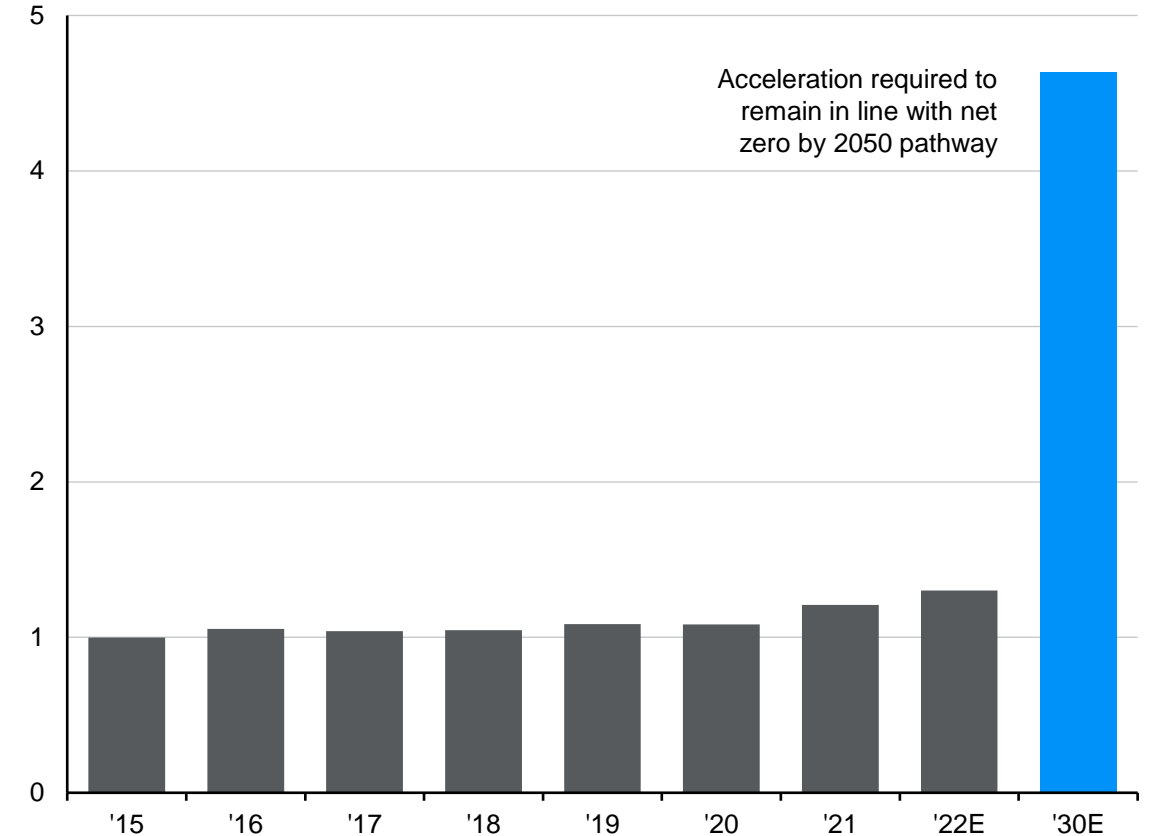


Crises can catalyse change... and this may offer opportunity

% of primary energy consumption GWh per year



Global investment in clean energy and energy efficiency USD trillions



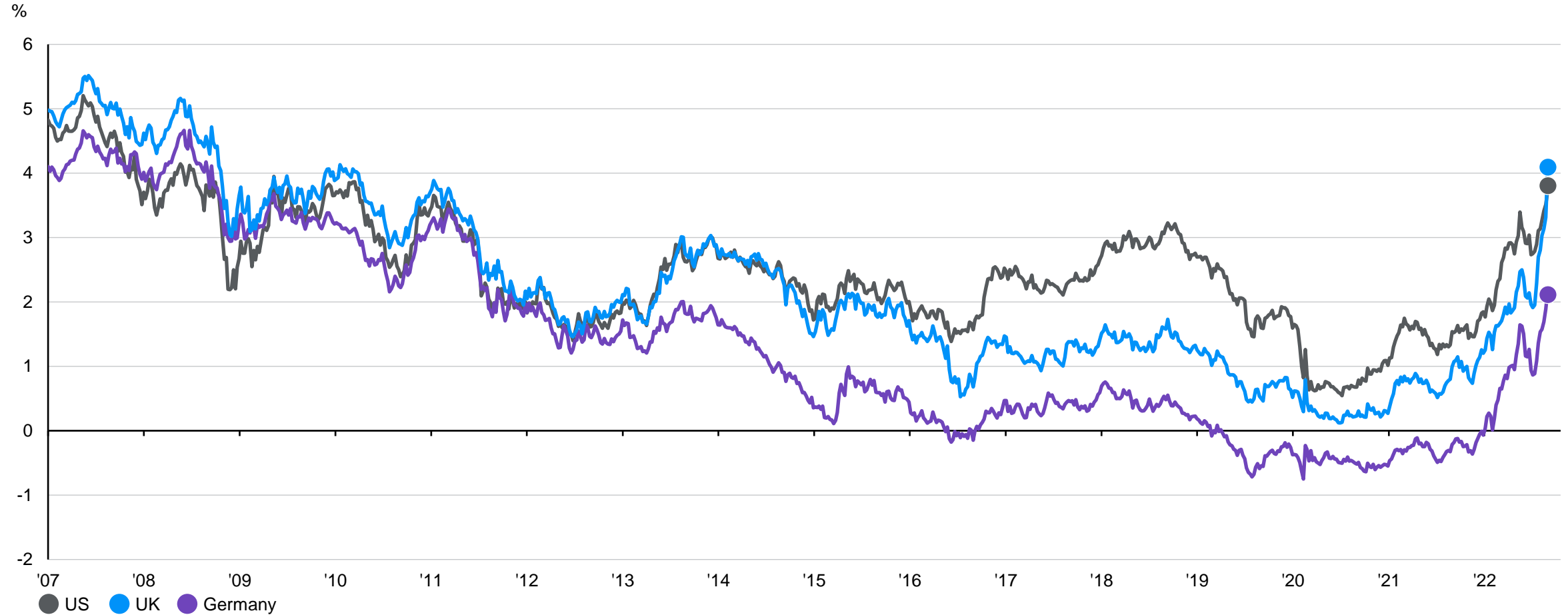
Source: Our World in Data, J.P. Morgan Asset Management. GWh is gigawatt hours. (Right) International Energy Agency, J.P. Morgan Asset Management. Historical investment figures taken from World Energy Investment (2022) report. 2030 forecast taken from Net Zero by 2050 (2021) report. For illustrative purposes only. *Guide to the Markets - UK*. Data as of 30 September 2022.



A lot of value has been restored in fixed income

Fixed Income

Nominal 10-year government bond yields



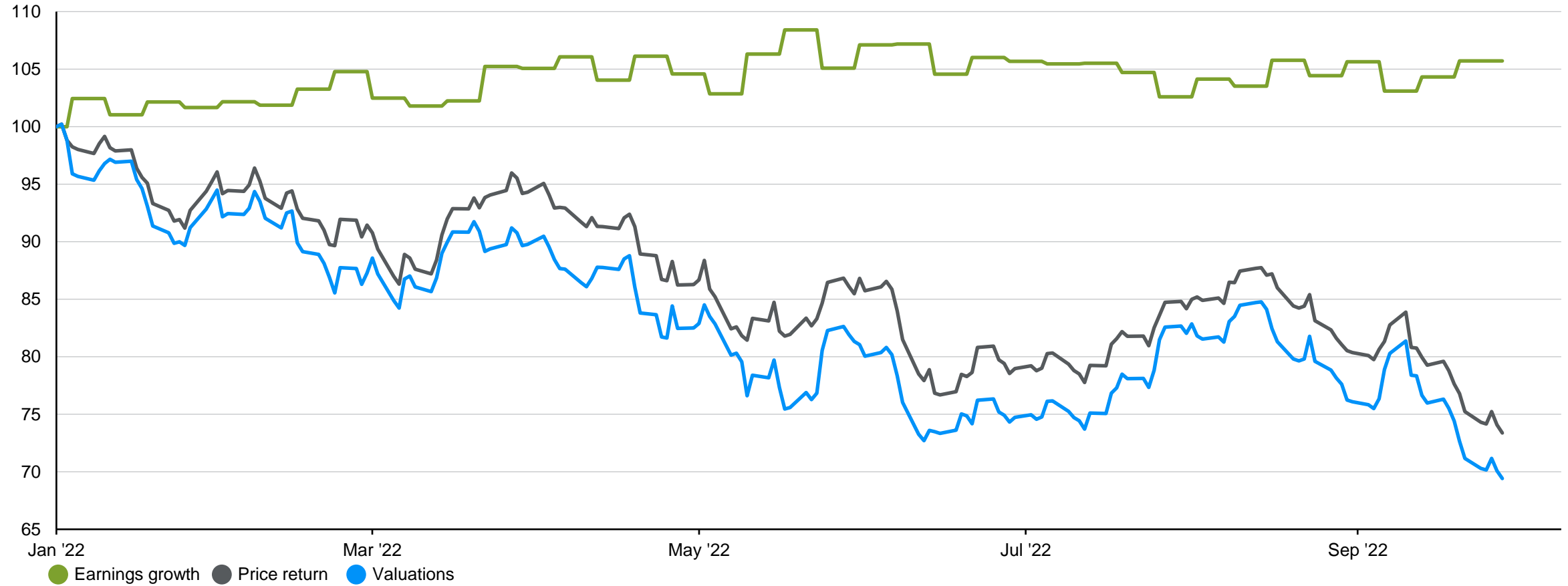
Source: Refinitiv Datastream, J.P. Morgan Asset Management. 10-year breakeven represents the difference in yield between nominal and inflation-protected government bonds, and is a market-based measure of average inflation expectations over the next 10 years. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



This has hurt equity valuations

MSCI World earnings, valuations and returns

MSCI World earnings growth and price return



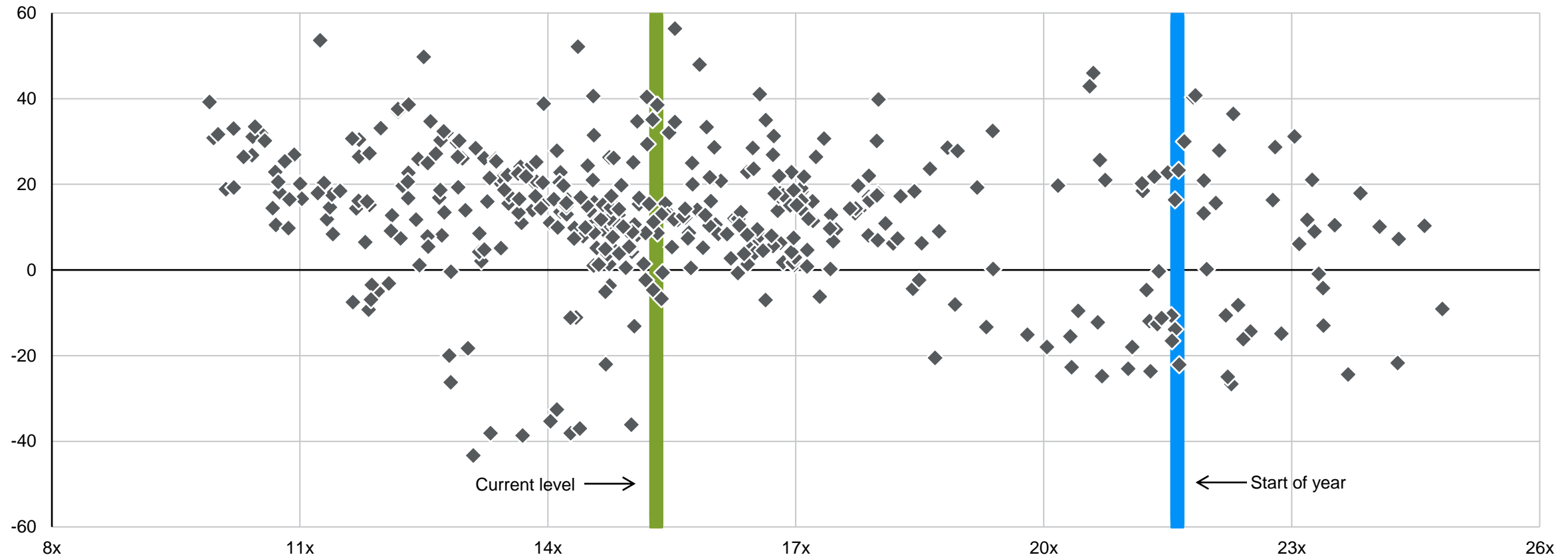
Equities



In the short term this doesn't necessarily mean much

Equities

S&P 500 forward P/E ratios and subsequent 1-year returns
%, annualised total return*

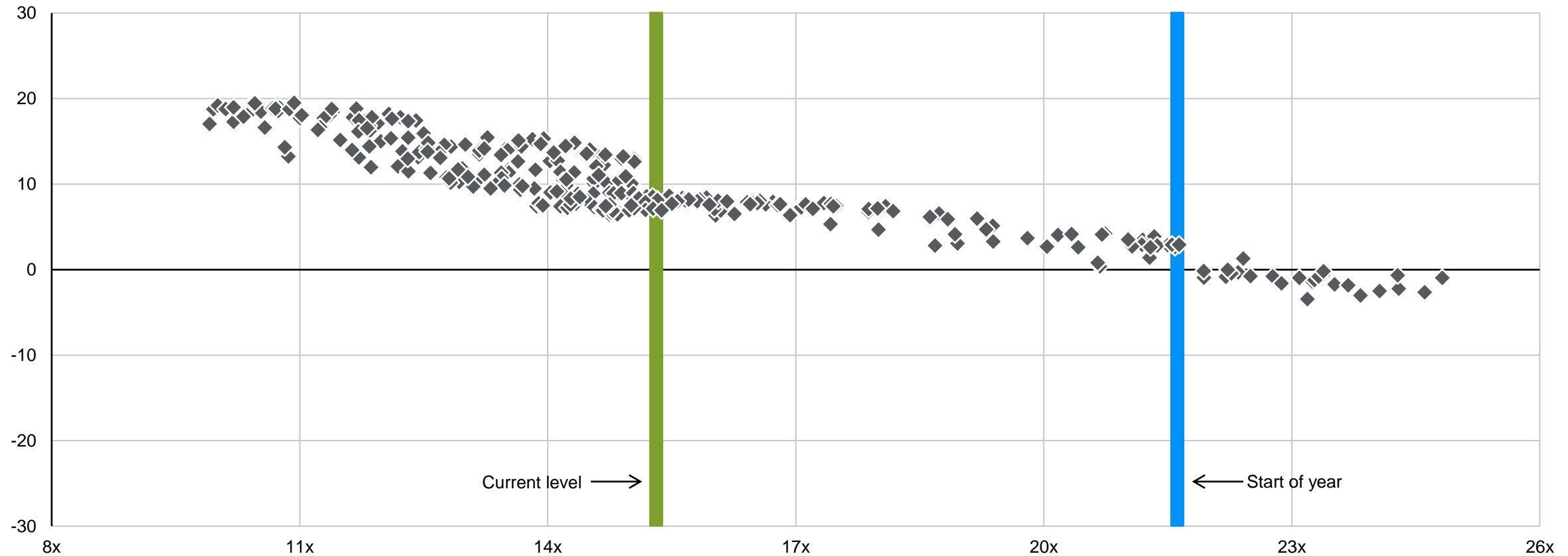




But for longer term investors potential returns look more compelling

Equities

S&P 500 forward P/E ratios and subsequent 10-year returns
%, annualised total return*



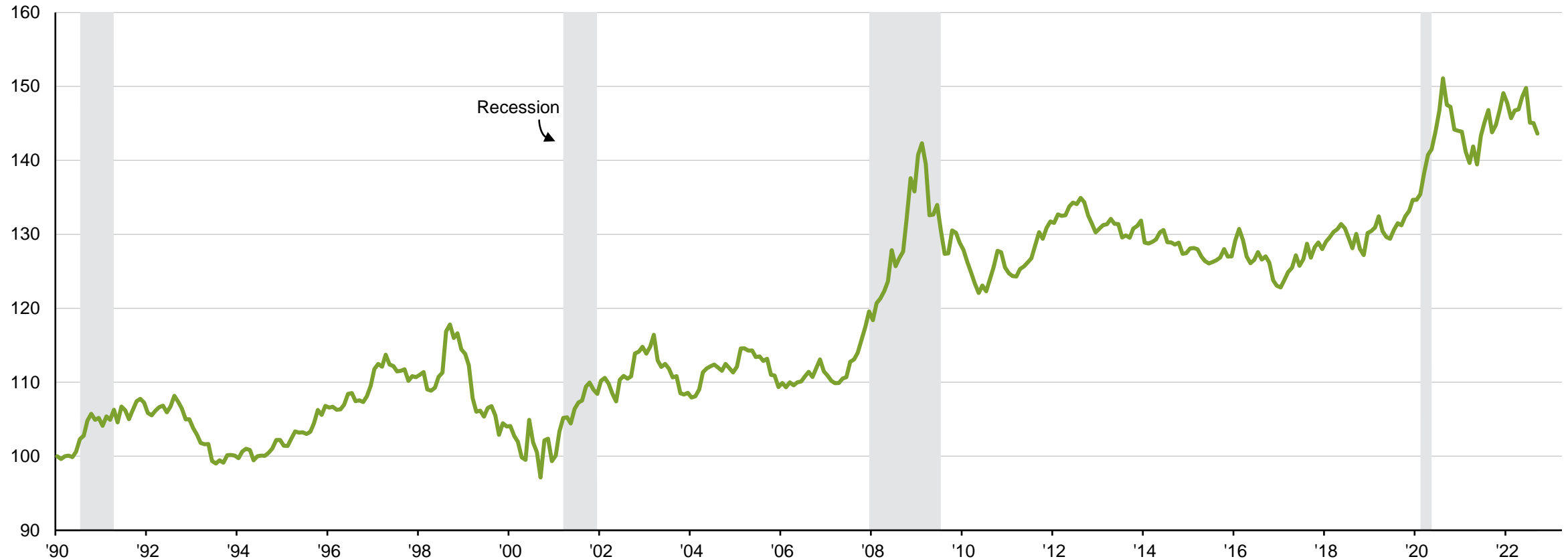
Source: IBES, Refinitiv Datastream, Standard & Poor's, J.P. Morgan Asset Management. *Dots represent monthly data points since 1988, which is earliest available. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



In the new cycle “quality” characteristics should be well rewarded

S&P 500 Quality/S&P 500 relative performance

Relative total return index level, rebased to 100 in 1990



Equities

Source: J.P. Morgan Asset Management Quantitative Beta Solutions, Standard & Poor's, J.P. Morgan Asset Management. S&P 500 Quality index is the top quartile quality stocks in the S&P 500 determined by JPMAM Quantitative Beta Strategies based on measures of profitability, financial risk and earnings quality. Periods of "recession" are defined using US National Bureau of Economic Research (NBER) business cycle dates. Past performance is not a reliable indicator of current and future results. *Guide to the Markets - UK*. Data as of 30 September 2022.



Key takeaways

- 1 Returns in 2022 are highly unusual relative to history
- 2 Crises can be a catalyst for change
- 3 A new playbook for a new cycle





J.P. Morgan Asset Management: Risks and disclosures

The Market Insights programme provides comprehensive data and commentary on global markets without reference to products. Designed as a tool to help clients understand the markets and support investment decision-making, the programme explores the implications of current economic data and changing market conditions. For the purposes of MiFID II, the JPM Market Insights and Portfolio Insights programmes are marketing communications and are not in scope for any MiFID II / MiFIR requirements specifically related to investment research. Furthermore, the J.P. Morgan Asset Management Market Insights and Portfolio Insights programmes, as non-independent research, have not been prepared in accordance with legal requirements designed to promote the independence of investment research, nor are they subject to any prohibition on dealing ahead of the dissemination of investment research.

This document is a general communication being provided for informational purposes only. It is educational in nature and not designed to be taken as advice or a recommendation for any specific investment product, strategy, plan feature or other purpose in any jurisdiction, nor is it a commitment from J.P. Morgan Asset Management or any of its subsidiaries to participate in any of the transactions mentioned herein. Any examples used are generic, hypothetical and for illustration purposes only. This material does not contain sufficient information to support an investment decision and it should not be relied upon by you in evaluating the merits of investing in any securities or products. In addition, users should make an independent assessment of the legal, regulatory, tax, credit, and accounting implications and determine, together with their own financial professional, if any investment mentioned herein is believed to be appropriate to their personal goals. Investors should ensure that they obtain all available relevant information before making any investment. Any forecasts, figures, opinions or investment techniques and strategies set out are for information purposes only, based on certain assumptions and current market conditions and are subject to change without prior notice. All information presented herein is considered to be accurate at the time of production, but no warranty of accuracy is given and no liability in respect of any error or omission is accepted. It should be noted that investment involves risks, the value of investments and the income from them may fluctuate in accordance with market conditions and taxation agreements and investors may not get back the full amount invested. Both past performance and yields are not a reliable indicator of current and future results. J.P. Morgan Asset Management is the brand for the asset management business of JPMorgan Chase & Co. and its affiliates worldwide. To the extent permitted by applicable law, we may record telephone calls and monitor electronic communications to comply with our legal and regulatory obligations and internal policies. Personal data will be collected, stored and processed by J.P. Morgan Asset Management in accordance with our privacy policies at <https://am.jpmorgan.com/global/privacy>. This communication is issued by the following entities: In the United States, by J.P. Morgan Investment Management Inc. or J.P. Morgan Alternative Asset Management, Inc., both regulated by the Securities and Exchange Commission; in Latin America, for intended recipients' use only, by local J.P. Morgan entities, as the case may be.; in Canada, for institutional clients' use only, by JPMorgan Asset Management (Canada) Inc., which is a registered Portfolio Manager and Exempt Market Dealer in all Canadian provinces and territories except the Yukon and is also registered as an Investment Fund Manager in British Columbia, Ontario, Quebec and Newfoundland and Labrador. In the United Kingdom, by JPMorgan Asset Management (UK) Limited, which is authorized and regulated by the Financial Conduct Authority; in other European jurisdictions, by JPMorgan Asset Management (Europe) S.à r.l. In Asia Pacific ("APAC"), by the following issuing entities and in the

respective jurisdictions in which they are primarily regulated: JPMorgan Asset Management (Asia Pacific) Limited, or JPMorgan Funds (Asia) Limited, or JPMorgan Asset Management Real Assets (Asia) Limited, each of which is regulated by the Securities and Futures Commission of Hong Kong; JPMorgan Asset Management (Singapore) Limited (Co. Reg. No. 197601586K), this advertisement or publication has not been reviewed by the Monetary Authority of Singapore; JPMorgan Asset Management (Taiwan) Limited; JPMorgan Asset Management (Japan) Limited, which is a member of the Investment Trusts Association, Japan, the Japan Investment Advisers Association, Type II Financial Instruments Firms Association and the Japan Securities Dealers Association and is regulated by the Financial Services Agency (registration number "Kanto Local Finance Bureau (Financial Instruments Firm) No. 330"); in Australia, to wholesale clients only as defined in section 761A and 761G of the Corporations Act 2001 (Commonwealth), by JPMorgan Asset Management (Australia) Limited (ABN 55143832080) (AFSL 376919). For all other markets in APAC, to intended recipients only. For U.S. only: If you are a person with a disability and need additional support in viewing the material, please call us at 1-800-343-1113 for assistance.

In the United States, bank deposit accounts and related services, such as checking, savings and bank lending, are offered by JPMorgan Chase Bank, N.A. ("Chase"), member of FDIC. Chase and its affiliates (collectively "JPMCB") also offer investment products, which may include bank managed investment accounts and custody, as part of its trust and fiduciary services. Other investment products and services, such as brokerage and advisory accounts, are offered through J.P. Morgan Securities LLC ("JPMS"), member of FINRA and SIPC.

Copyright 2022 JPMorgan Chase & Co. All rights reserved.

Prepared by: Karen Ward, Tilmann Galler, Vincent Juvyns, Maria Paola Toschi, Michael Bell, Hugh Gimber, Max McKechnie, Natasha May and Zara Nokes.

Unless otherwise stated, all data as of 11 October 2022 or most recently available.
Guide to the Markets - UK
JP-LITTLEBOOK

09dj221210080654