CIO View

Investment Traffic Lights

June 6, 2024 Marketing material



Our monthly market analysis and positioning



Björn JeschGlobal Chief
Investment Officer

IN A NUTSHELL-

- In May things went well for shareholders though they essentially only made up April's losses. U.S. tech stocks again outperformed other asset classes.
- U.S. bondholders also had a good month, despite the fact that the Fed is now
 expected to refrain from cutting interest rates until later this year. In Europe,
 however, bonds softened as yields rose in response to higher inflation and growth
 figures.
- We think the economic and interest-rate environment looks generally benign, but the risk-return profile of most asset classes is evenly balanced.

1 / Market overview¹

1.1 Big Tech remains the winner in low-growth environment

In a way, the merry month of May lived up to its name for investors by healing many of the wounds suffered in April. Stocks turned positive, U.S. yields stopped climbing (although the same cannot be said for Bund yields), while oil and gold trended sideways.

Most of May's headlines – most of them very similar to previous months' headlines – helped the markets. Overall, inflation kept moving in the right direction, though with delays and setbacks, most recently in Europe where the (provisional) core inflation rate for May was reported at 2.9%, not the expected 2.7% annual rate seen in April. The markets have, however, come to terms with the prospect of significantly fewer interest-rate cuts this year than had been hoped for at the beginning of the year. The U.S. and the Eurozone are diverging in that the European Central Bank (ECB) has announced its first interest-rate cut at its meeting on June 6, while the U.S. Federal Reserve (the Fed) will probably wait.

Economic growth figures in Europe meanwhile continue to improve from a low level, while in the U.S. they are beginning to disappoint. For example, gross-domestic-product (GDP) growth for the first quarter was revised down from 1.6% to 1.3%, mainly because consumers are becoming cautious. However, there is still no sign of a major slump in growth, due in part to continued high state spending and immigration.

Stock markets, especially in the U.S., continue to run at two speeds. The big U.S. tech stocks known as the Magnificent 7 contributed more than half of the 4.8% rise in the S&P 500 in May. This two-speed divide is also reflected in market concentration: 27% of the market capitalization of the S&P 500 is now accounted for by the five largest stocks. This surpasses by far the last concentration peak, which dates back to 1999, at just 18%.

¹ All market data from Bloomberg Finance L.P. as of 6/4/24 unless stated otherwise.

Geopolitically, the Middle East and Ukraine remain the biggest crisis areas but there was no worsening of the market's concern in May. The United States and China, on the other hand, are continuing their trade disputes unabated. China is also continuing to announce economic support packages. In May, the news that the state wants to act as a buyer in the distressed housing market caused a stir.

1.2 Diverging bond markets, silver takes gold's top spot and tech keeps on rallying²

Al euphoria, curbed only in a few areas – when doubts arose about the monetization potential of Al solutions, for example – kept the technology sector (MSCI AC World Information Technology Index) out in front in May, with a total return of 8.1%. But it was a positive month for stocks in most countries, with no stock sector closing in the red globally. This was not the case at the regional level: Latin America slipped three percent into the red. Switzerland was the only major market to outperform the U.S. exchanges, with an increase of almost seven percent – driven, like the rest of Europe, by strong financial stocks.

In commodities, silver overtook gold as the most profitable precious metal this year, with an increase of 15% against "only" 13% for the yellow metal, which almost stood still in May. Bitcoin rose by eleven percent; in a year it is up by 60%.

In the bond segment, the transatlantic divergence was particularly noticeable. Although 10-year U.S. Treasuries were again soft, with their yields trending upwards in the second half of the month, they have not yet regained this year's highs from the end of April. Bund yields, however, ended the month at annual highs of 2.7%.

Japan, too, made news in May. Massive interventions by the central bank did no more than interrupt depreciation of the yen. By the end of the month the currency was trading at 157 yen per dollar, close to the 34-year record of 158 at the end of April. For the time being, even record interest rates on Japanese government bonds (JGBs) – the yield on 10-year JGBs exceeded the 1-%-mark for the first time since 2012 – cannot reverse the yen's weakness.

2 / Outlook and changes

We made few tactical changes in May. Even though equity markets were up again, May essentially only made up for the losses from April – we continue to expect volatile sideways trading. The same applies to government bonds, where markets and central banks are now better aligned than at the beginning of the year. It will be interesting to see how the transatlantic divergence on rates evolves. We are paying particular attention to what ECB President Christine Lagarde will say when she has to address the question of reconciling a cut to the interest rate with the recently higher-than-expected inflation figures.³

In a few days we will set out our new 12-month targets at our quarterly strategy meeting which will focus once again on the state of the U.S. economy. The recent downward revision⁴ to the first-quarter GDP growth figures, with consumption in particular marked down, reinforces our somewhat more skeptical view.

2.1 Fixed Income

We expect the trend of the past few weeks to persist: the path to lower inflation will not be a straight, simple one, in our view, but will take twists and turns that will play with the market's nerves.

² All market data in this paragraph from LSEG Data as of 5/31/24 unless stated otherwise.

³ Although the decision came in as expected, Christine Lagarde had a slightly more cautious tone regard to the inflation path in the press conference. (https://www.ecb.europa.eu/press/press_conference/monetary-policy-statement/2024/html/ecb.is240606-d32cd6cc8a.en.html)

⁴ U.S. Bureau of Economic Analysis, as of 30.05.2024.

Government Bonds

In our view, the markets have now priced in a path for European and U.S. key interest rates that is much closer to the thinking of the central banks. We expect the ECB – after having cut the rates on June 6th - to make one more cut each in autumn and winter. The Fed is likely to wait until at least the fall to make its first move. Whether this is followed by another will depend on the data. Following the recent decrease in yields of 10-year Treasuries, we have downgraded this segment from +1 to neutral, as we don't expect this development to continue. We rather expect the bond price (and hence the yields) to stabilize at current levels for the time being. We have not made any other changes to the tactical assessments and see a better returnrisk profile at the shorter end of the yield curve on both sides of the Atlantic.

Corporate Bonds

We have made no changes to our view here. The expected return looks attractive in corporates, but this is largely due to the high yields now prevailing on government bonds. The yield premium, by contrast, is low and unlikely to narrow further. By comparison to government bonds, corporate bonds are therefore not particularly attractive in our view. And if the economy does less well than expected we see greater price risks in high-yield bonds.

Emerging Markets

The government-bond yields of many emerging markets also look attractive overall but, in our view, there is little prospect that risk premiums will narrow further. Asian bonds (including corporate bonds) are the exception. Here we believe the high-yield market has now processed the negative signals from China sufficiently and will respond to the prospects for improvement in the overall situation.

Currencies

We are currently cautious about the yen as the Bank of Japan could intervene again in the market. We are more positive now, however, about the near-term prospects for the euro against the dollar. The peak of the divergence between the expected rate paths of the U.S. and the Eurozone appears to have passed, and U.S. growth is currently disappointing the market's expectations, while in our view Europe can exceed the market's expectations. This should provide the euro with a further tailwind, we believe.

2.2 Equities

We did not make any tactical changes in equities in May. From a broader perspective, the picture is mixed. Growth prospects are diverging considerably. Europe is recovering slowly from a low level while the U.S. may still have its weakest months ahead of it and China seems to need all sorts of government support measures just to achieve its 5% growth target. Valuations are high, historically and relative to bonds. U.S. profit margins are close to record highs. Geopolitical risks persist (U.S.-China, U.S. election, Ukraine) and disillusionment with the current Al hype is possible.

So much for the negative side. The more parts of the picture are calming inflation, solid balance sheets, growing real purchasing power in parts of the world and – at least as far as can we see now – no approaching recession. And, of course, notwithstanding the hype, there is hope that Al business models will prove their worth.

U.S. Market

The U.S. reporting season was positive overall, but it remains a two-speed market, with the big tech companies showing the biggest jumps in profits once again. They are also largely responsible for our expectation of about 10% profit growth for the S&P 500 this year. They are also distorting the overall market valuation considerably as, with an average price-to-earnings (P/E) ratio of 32 on their estimated 2024 profits, they are significantly more expensive than the rest of the index – with a P/E ratio of 19. We see little upside potential for U.S. stocks in the near term.

European/German Market

We continue to view Europe positively, especially compared to the U.S., given the historically high valuation discount. Real purchasing power in Europe is increasing and the region is also well positioned should the global economy progress better

than currently expected. For 2024 we expect slight earnings growth for the Stoxx Europe 600, while the consensus continues to see a slight decline.⁵ We are slightly more skeptical about German stocks, as they are currently struggling with some structural disadvantages such as higher energy prices and regulatory burdens in Germany.

Emerging Markets

Though we find some Asian markets interesting, we continue to view emerging markets neutral overall. The Chinese government has succeeded in stabilizing sentiment and the stock markets, but we do not yet see enough momentum in the economic figures for a broad recovery. Elections and relatively inexperienced governments remain an issue in some countries. U.S. bond yields, which have remained high for longer than expected, remain a permanent headwind.

Japan

Japan's stock market continues to look very interesting in the long term, especially as the progress made in corporate-governance reforms is visible. In the short term, however, our position remains neutral as, after a good stock-market run and fairly conservative company outlooks, investor interest seems to be shifting to other regions in Asia. In addition, the extremely weak yen is a potential risk.

2.3 Alternatives

Real Estate

A recent MSCI report⁶ on capital trends in Real Assets showed that total U.S. commercial real estate (CRE) sales volume was just USD 17.1bn in April, a 24% decrease from the same month a year ago, while global CRE data, not yet available for April, declined 17% in the first quarter to just over USD 140bn from a year ago. The U.S. downdraft in April was led by apartments, where volumes declined by almost 50%, although hotel transaction volumes almost doubled from the year ago period. The capitalization-rate (cap-rate) average for all transactions in April was 6.81%, up 2 basis points (bps) from March. Industrial assets saw the largest cap-rate expansion, 24 bps to 6.73%, while retail cap rates decreased by 6 bps to 7.15%. Additionally, the Fed's most recent Beige Book⁷ noted CRE conditions were softer given tight credit conditions, higher borrowing costs, and excess-supply concerns. However, Blackstone's chief operating officer, speaking at an industry conference⁸, noted a bottoming in the CRE sector and indicated now was the time to deploy capital. This was further illustrated by his firm's recent investment in a USD 1 billion loan portfolio, purchased from Deutsche Pfandbriefbank and backed by multifamily, hospitality, and office assets spread across the U.S. and UK.

Infrastructure

With our Strategic CIO View meeting coming up mid-June, in which our 12-month outlook will be discussed, we will be providing a broader update on Infrastructure assets in our next edition. In the meantime, waste-to-energy (WTE) plants might be an interesting upcoming theme to highlight. Per the U.S. Energy Information Administration (EIA), WTE plants are electricity-generating facilities that burn solid waste, or garbage, in boilers to produce steam that is sent through turbines. WTE plants are more prevalent in Europe than the U.S., as the International Solid Waste Association (ISWA) estimates there were over 520 WTE plants operating in Europe compared to just 75 in the U.S. at this time last year. Sweden, with 34 plants, may be the poster child for WTE, as it is estimated that only 1% of their trash is sent to landfills, with 52% converted to energy and 47% recycled. Still, despite the low cost to build and cheap fuel expenses, WTE plants are not without environmental concerns, as they are generally considered cleaner than coal but less clean than burning natural gas.

Gold

We remain positive on gold which is currently benefiting from a number of structural factors, such as concerns about U.S. government finances, geopolitical crises and ongoing central-bank purchases, especially by countries seeking to reduce their

⁵ Bloomberg Finance L.P.; Stand: 04.06.2024

⁶ Blog post published by MSCI Inc "Real Assets in Focus: Are We Nearly There Yet?" on 5/15/24.

⁷Source: Bloomberg Finance L.P. as of 6/4/24

⁸ Bernstein Strategic Decisions Conference, USA, 5/29/24.

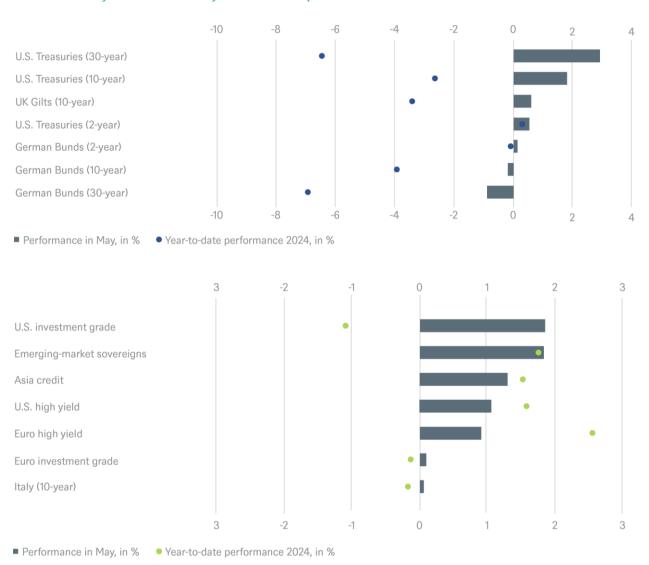
dependence on the dollar. In the short term, the yellow metal's usual link to the path of (real) U.S. interest rates appears to be suspended.

Oil

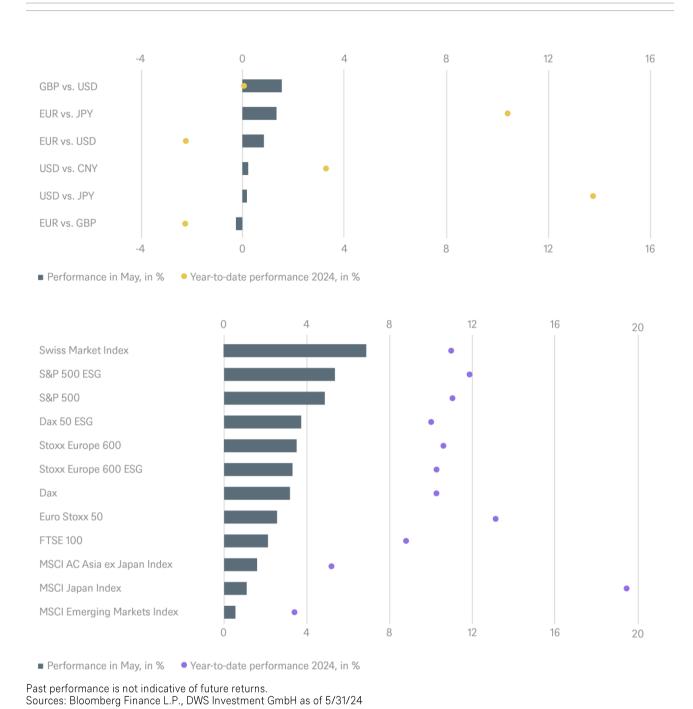
We see the latest OPEC+ announcements to extend production cuts as half-hearted in both quantity and duration. Together with the still lackluster growth in China's industrial sector, this should put a cap on the oil price for the time being, provided there are no further geopolitical escalations.

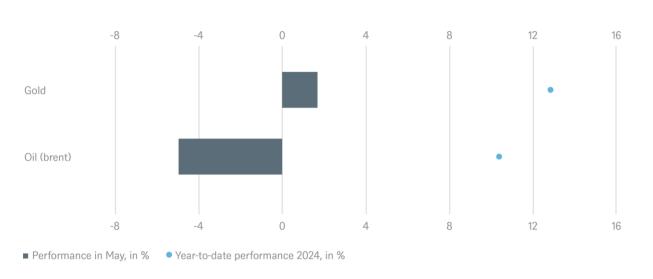
3 / Past performance of major financial assets

Total return of major financial assets year-to-date and past month



Past performance is not indicative of future returns. Sources: Bloomberg Finance L.P., DWS Investment GmbH as of 5/31/24





Past performance is not indicative of future returns. Sources: Bloomberg Finance L.P., DWS Investment GmbH as of 5/31/24

4 / Tactical and strategic signals The following exhibit depicts our short-term and long-term positioning.

4.1 Fixed income

Rates	1 to 3 months	through Mar 2025
U.S. Treasuries (2-year)	•	•
U.S. Treasuries (10-year)	•	•
U.S. Treasuries (30-year)	•	•
German Bunds (2-year)	•	•
German Bunds (10-year)	•	•
German Bunds (30-year)	•	•
UK Gilts (10-year)	•	•
Japanese government bonds (2-year)	•	•
Japanese government bonds (10-year)	•	•

Spreads	1 to 3 months	through Mar 2025
Italy (10-year) ¹	•	•
U.S. investment grade	•	•
U.S. high yield	•	•
Euro investment grade ¹	•	•
Euro high yield ¹	•	•
Asia credit	•	•
Emerging-market sovereigns	•	•

Securitized / specialties	1 to 3 months	through Mar 2025
Covered bonds ¹	•	•
U.S. municipal bonds	•	•
U.S. mortgage-backed securities	•	•

Currencies	1 to 3 months	through Mar 2025
EUR vs. USD	•	•
USD vs. JPY	•	•
EUR vs. JPY	•	•
EUR vs. GBP	•	•
GBP vs. USD	•	•
USD vs. CNY	•	•

4.2 Equities

Regions	1 to 3 months ²	through Mar 2025
United States ³	•	•
Europe ⁴	•	•
Eurozone ⁵	•	•
Germany ⁶	•	•
Switzerland ⁷	•	•
United Kingdom (UK) ⁸	•	•
Emerging markets ⁹	•	•
Asia ex Japan ¹⁰	•	•
Japan ¹¹	•	•

Sectors	1 to 3 months ²
Consumer staples ¹²	•
Healthcare ¹³	•
Communication services ¹⁴	•
Utilities ¹⁵	•
Consumer discretionary ¹⁶	•
Energy ¹⁷	•
Financials ¹⁸	•
Industrials ¹⁹	•
Information technology ²⁰	•
Materials ²¹	•

Style	1 to 3 months
U.S. small caps ²²	•
European small caps ²³	•

4.3 Alternatives

Alternatives	1 to 3 months	through Mar 2025
Commodities ²⁴	•	•
Oil (brent)	•	•
Gold	•	•
Carbon		•
Infrastructure (listed)	•	•
Infrastructure (non-listed)		•
Real estate (listed)	•	•
Real estate (non-listed) APAC ²⁵		•
Real estate (non-listed) Europe ²⁵		•
Real estate (non-listed) United States ²⁵		•

¹Spread over German Bunds. ² Relative to the MSCI AC World Index (only for the tactical signals), ³ S&P 500, ⁴ Stoxx Europe 600, ⁵ Euro Stoxx 50, ⁶ Dax, ⁷ Swiss Market Index, ⁸ FTSE 100, ⁹ MSCI Emerging Markets Index, ¹⁰ MSCI AC Asia ex Japan Index, ¹¹ MSCI Japan Index, ¹² MSCI AC World Consumer Staples Index, ¹³ MSCI AC World Health Care Index, ¹⁴ MSCI AC World Communication Services Index, ¹⁵ MSCI AC World Utilities Index, ¹⁶ MSCI AC World Financials Index, ¹⁹ MSCI AC World Industrials Index, ²⁰ MSCI AC World Information Technology Index, ²¹ MSCI AC World Materials Index, ²² Russell 2000 Index relative to the S&P 500, ²³ Stoxx Europe Small 200 relative to the Stoxx Europe 600, ²⁴ Relative to the Bloomberg Commodity Index, ²⁵ Long-term investments.

Tactical view (1 to 3 months)

The focus of our tactical view for fixed income is on trends in bond prices.

- Positive view
- Neutral view
- Negative view

Strategic view through March 2025

- The focus of our strategic view for sovereign bonds is on bond prices.
- For corporates, securitized/specialties and emerging-market bonds in U.S. dollars, the signals depict the option-adjusted spread over U.S. Treasuries. For bonds denominated in euros, the illustration depicts the spread in comparison with German Bunds. Both spread and sovereign-bond-yield trends influence the bond value. For investors seeking to profit only from spread trends, a hedge against changing interest rates may be a consideration.
- The colors illustrate the return opportunities for long-only investors.
 - − Positive return potential for long-only investors
 - Limited return opportunity as well as downside risk
 - Negative return potential for long-only investors

Glossary

The Bank of Japan (BoJ) is the central bank of Japan.

One basis point equals 1/100 of a percentage point.

The Bloomberg Commodity Index (BCOM) traces 23 commodities and reflects commodity futures price movements.

Bunds is a commonly used term for bonds issued by the German federal government with a maturity of 10 years.

The capitalization rate is the rate of return on a real-estate investment based on the expected income the property will generate.

The Chinese yuan (CNY) is legal tender on the Chinese mainland and the unit of account of the currency, Renminbi (RMB).

Commercial real estate (CRE) refers to properties that are used for business or commercial purposes, such as office buildings, retail spaces, warehouses etc.

Core inflation excludes items which can be susceptible to volatile price movements, e.g. food and energy.

A corporate bond is a bond issued by a corporation in order finance their business.

The Dax is a blue-chip stock-market index consisting of the 40 major German companies trading on the Frankfurt Stock Exchange.

Emerging markets (EM) are economies not yet fully developed in terms of, amongst others, market efficiency and liquidity.

The euro (EUR) is the common currency of states participating in the Economic and Monetary Union and is the second most held reserve currency in the world after the dollar.

The Euro Stoxx 50 is an index that tracks the performance of blue-chip stocks in the Eurozone.

The European Central Bank (ECB) is the central bank for the Eurozone.

The Eurozone is formed of 19 European Union member states that have adopted the euro as their common currency and sole legal tender.

The FTSE 100 is an index that tracks the performance of the 100 major companies trading on the London Stock Exchange.

The gross domestic product (GDP) is the monetary value of all the finished goods and services produced within a country's borders in a specific time period.

High-yield bonds are issued by below-investment-grade-rated issuers and usually offer a relatively high yield.

Inflation is the rate at which the general level of prices for goods and services is rising and, subsequently, purchasing power is falling.

Investment grade (IG) refers to a credit rating from a rating agency that indicates that a bond has a relatively low risk of default.

The Japanese yen (JPY) is the official currency of Japan.

Japanese Government Bond (JGB) is issued by the government of Japan.

The MSCI AC World Communication Services Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Communications Services sector.

The MSCI AC World Consumer Discretionary Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Consumer Discretionary sector.

The MSCI AC World Consumer Staples Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Consumer Staples sector.

The MSCI AC World Energy Index captures large- and mid-cap securities across 23 developed-markets classified in the Energy sector.

The MSCI AC World Financials Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Financials sector.

The MSCI AC World Health Care Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Health Care sector.

The MSCI AC World Index captures large- and mid-cap companies across 23 developed- and 24 emerging-market countries.

The MSCI AC World Industrials Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Industrials sector.

The MSCI AC World Information Technology Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Information Technology sector.

The MSCI AC World Materials Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Materials sector.

The MSCI AC World Utilities Index captures large- and mid-cap securities across 23 developed- and 26 emerging-markets classified in the Utilities sector.

The MSCI AC Asia ex Japan Index captures large- and mid-cap representation across 2 of 3 developed-market countries (excluding Japan) and 8 emerging-market countries in Asia.

The MSCI Emerging Markets Index captures large- and mid-cap representation across 23 emerging-market countries.

The MSCI Japan Index is designed to measure the performance of the large- and mid-cap segments of the Japanese market.

OPEC+ is an informal alliance of OPEC members and other oil-producing countries, led by Russia, aiming to coordinate their production strategies.

The Organization of the Petroleum Exporting Countries (OPEC) is an international organization with the mandate to "coordinate and unify the petroleum policies" of its meanwhile 12 members.

The pound sterling (GBP), or simply the pound, is the official currency of the United Kingdom and its territories.

The price-to-earnings (P/E) ratio compares a company's current share price to its earnings per share.

Profit Margin is an accounting figure which describes profit in relation to revenue in percent.

In economics, a real value is adjusted for inflation.

Real assets are physical assets that have an intrinsic value due to their substance and properties.

A recession is, technically, when an economy contracts for two successive quarters but is often used in a looser way to indicate declining output.

The risk premium is the expected return on an investment minus the return that would be earned on a risk-free investment.

The Russell 2000 Index is an index that captures the 2,000 smallest stocks of the Russell-3000 index, which again comprises 3,000 small-and mid-cap U.S. listed stocks.

The S&P 500 is an index that includes 500 leading U.S. companies capturing approximately 80% coverage of available U.S. market capitalization.

The Stoxx Europe 600 is an index representing the performance of 600 listed companies across 18 European countries.

The Stoxx Europe Small 200 is an index representing the performance of 200 small capitalization companies across 17 European countries.

The Swiss Market Index (SMI) is Switzerland's most important equity index, consisting of the 20 largest and most liquid large- and mid-cap stocks.

Treasuries are fixed-interest U.S. government debt securities with different maturities: Treasury bills (1 year maximum), Treasury notes (2 to 10 years), Treasury bonds (20 to 30 years) and Treasury Inflation Protected Securities (TIPS) (5, 10 and 30 years).

The U.S. dollar (USD) is the official currency of the United States and its overseas territories.

The U.S. Energy Information Administration (EIA) is a principal agency of the U.S. Federal Statistical System responsible for collecting, analyzing, and disseminating energy information.

The U.S. Federal Reserve, often referred to as "the Fed," is the central bank of the United States.

Volatility is the degree of variation of a trading-price series over time. It can be used as a measure of an asset's risk.

Yield is the income return on an investment referring to the interest or dividends received from a security and is usually expressed annually as a percentage based on the investment's cost, its current market value or its face value.

A yield curve shows the annualized yields of fixed-income securities across different contract periods as a curve. When it is inverted, bonds with longer maturities have lower yields than those with shorter maturities.

The yield premium will increase or decrease depending on the perceived creditworthiness and relative demand for a bond. The yield premium is the mark up relative to a risk-free asset with the same maturity.

·

Important information - EMEA, APAC & LATAM

DWS is the brand name of DWS Group GmbH & Co. KGaA and its subsidiaries under which they do business. The DWS legal entities offering products or services are specified in the relevant documentation. DWS, through DWS Group GmbH & Co. KGaA, its affiliated companies and its officers and employees (collectively "DWS") are communicating this document in good faith and on the following basis.

This document is for information/discussion purposes only and does not constitute an offer, recommendation or solicitation to conclude a transaction and should not be treated as investment advice.

This document is intended to be a marketing communication, not a financial analysis. Accordingly, it may not comply with legal obligations requiring the impartiality of financial analysis or prohibiting trading prior to the publication of a financial analysis.

This document contains forward looking statements. Forward looking statements include, but are not limited to assumptions, estimates, projections, opinions, models and hypothetical performance analysis. No representation or warranty is made by DWS as to the reasonableness or completeness of such forward looking statements. Past performance is no guarantee of future results.

The information contained in this document is obtained from sources believed to be reliable. DWS does not guarantee the accuracy, completeness or fairness of such information. All third party data is copyrighted by and proprietary to the provider. DWS has no obligation to update, modify or amend this document or to otherwise notify the recipient in the event that any matter stated herein, or any opinion, projection, forecast or estimate set forth herein, changes or subsequently becomes inaccurate.

Investments are subject to various risks. Detailed information on risks is contained in the relevant offering documents.

No liability for any error or omission is accepted by DWS. Opinions and estimates may be changed without notice and involve a number of assumptions which may not prove valid.

DWS does not give taxation or legal advice.

This document may not be reproduced or circulated without DWS's written authority.

This document is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, including the United States, where such distribution, publication, availability or use would be contrary to law or regulation or which would subject DWS to any registration or licensing requirement within such jurisdiction not currently met within such jurisdiction. Persons into whose possession this document may come are required to inform themselves of, and to observe, such restrictions.

For institutional / professional investors in Taiwan:

This document is distributed to professional investors only and not others. Investing involves risk. The value of an investment and the income from it will fluctuate and investors may not get back the principal invested. Past performance is not indicative of future performance. This is a marketing communication. It is for informational purposes only. This document does not constitute investment advice or a recommendation to buy, sell or hold any security and shall not be deemed an offer to sell or a solicitation of an offer to buy any security. The views and opinions expressed herein, which are subject to change without notice, are those of the issuer or its affiliated companies at the time of publication. Certain data used are derived from various sources believed to be reliable, but the accuracy or completeness of the data is not guaranteed and no liability is assumed for any direct or consequential losses arising from their use. The duplication, publication, extraction or transmission of the contents, irrespective of the form, is not permitted.

© 2024 DWS Investment GmbH

Issued in the UK by DWS Investments UK Limited which is authorised and regulated in the UK by the Financial Conduct Authority. © 2024 DWS Investments UK Limited

In Hong Kong, this document is issued by DWS Investments Hong Kong Limited. The content of this document has not been reviewed by the Securities and Futures Commission.

© 2024 DWS Investments Hong Kong Limited

In Singapore, this document is issued by DWS Investments Singapore Limited. The content of this document has not been reviewed by the Monetary Authority of Singapore.

© 2024 DWS Investments Singapore Limited

In Australia, this document is issued by DWS Investments Australia Limited (ABN: 52 074 599 401) (AFSL 499640). The content of this document has not been reviewed by the Australian Securities and Investments Commission.

© 2024 DWS Investments Australia Limited

as of 6/6/24; 082325_40 (06/2024)

Important information – North America

The brand DWS represents DWS Group GmbH & Co. KGaA and any of its subsidiaries, such as DWS Distributors, Inc., which offers investment products, or DWS Investment Management Americas Inc. and RREEF America L.L.C., which offer advisory services.

This document has been prepared without consideration of the investment needs, objectives or financial circumstances of any investor. Before making an investment decision, investors need to consider, with or without the assistance of an investment adviser, whether the investments and strategies described or provided by DWS, are appropriate, in light of their particular investment needs, objectives and financial circumstances. Furthermore, this document is for information/discussion purposes only and does not and is not intended to constitute an offer, recommendation or solicitation to conclude a transaction or the basis for any contract to purchase or sell any security, or other instrument, or for DWS to enter into or arrange any type of transaction as a consequence of any information contained herein and

should not be treated as giving investment advice. DWS, including its subsidiaries and affiliates, does not provide legal, tax or accounting advice. This communication was prepared solely in connection with the promotion or marketing, to the extent permitted by applicable law, of the transaction or matter addressed herein, and was not intended or written to be used, and cannot be relied upon, by any taxpayer for the purposes of avoiding any U.S. federal tax penalties. The recipient of this communication should seek advice from an independent tax advisor regarding any tax matters addressed herein based on its particular circumstances. Investments with DWS are not guaranteed, unless specified. Although information in this document has been obtained from sources believed to be reliable, we do not guarantee its accuracy, completeness or fairness, and it should not be relied upon as such. All opinions and estimates herein, including forecast returns, reflect our judgment on the date of this report, are subject to change without notice and involve a number of assumptions which may not prove valid.

Investments are subject to various risks, including market fluctuations, regulatory change, counterparty risk, possible delays in repayment and loss of income and principal invested. The value of investments can fall as well as rise and you may not recover the amount originally invested at any point in time. Further-more, substantial fluctuations of the value of the investment are possible even over short periods of time. Further, investment in international markets can be affected by a host of factors, including political or social conditions, diplomatic relations, limitations or removal of funds or assets or imposition of (or change in) exchange control or tax regulations in such markets. Additionally, investments denominated in an alternative currency will be subject to currency risk, changes in exchange rates which may have an adverse effect on the value, price or income of the investment. This document does not identify all the risks (direct and indirect) or other considerations which might be material to you when entering into a transaction. The terms of an investment may be exclusively subject to the detailed provisions, including risk considerations, contained in the Offering Documents. When making an investment decision, you should rely on the final documentation relating to the investment and not the summary contained in this document.

This publication contains forward looking statements. Forward looking statements include, but are not limited to assumptions, estimates, projections, opinions, models and hypothetical performance analysis. The forward looking statements expressed constitute the author's judgment as of the date of this material. Forward looking statements involve significant elements of subjective judgments and analyses and changes thereto and/or consideration of different or additional factors could have a material impact on the results indicated. Therefore, actual results may vary, perhaps materially, from the results contained herein. No representation or warranty is made by DWS as to the reasonableness or completeness of such forward looking statements or to any other financial information contained herein. We assume no responsibility to advise the recipients of this document with regard to changes in our views.

No assurance can be given that any investment described herein would yield favorable investment results or that the investment objectives will be achieved. Any securities or financial instruments presented herein are not insured by the Federal Deposit Insurance Corporation ("FDIC") unless specifically noted, and are not guaranteed by or obligations of DWS or its affiliates. We or our affiliates or persons associated with us may act upon or use material in this report prior to publication. DB may engage in transactions in a manner inconsistent with the views discussed herein. Opinions expressed herein may differ from the opinions expressed by departments or other divisions or affiliates of DWS. This document may not be reproduced or circulated without our written authority. The manner of circulation and distribution of this document may be restricted by law or regulation in certain countries. This document is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction, including the United States, where such distribution, publication, availability or use would be contrary to law or regulation or which would subject DWS to any registration or licensing requirement within such jurisdiction not currently met within such jurisdiction. Persons into whose possession this document may come are required to inform themselves of, and to observe, such restrictions.

Past performance is no guarantee of future results; nothing contained herein shall constitute any representation or warranty as to future performance. Further information is available upon investor's request. All third party data (such as MSCI, S&P & Bloomberg) are copyrighted by and proprietary to the provider.

For Investors in Canada: No securities commission or similar authority in Canada has reviewed or in any way passed upon this document or the merits of the securities described herein and any representation to the contrary is an offence. This document is intended for discussion purposes only and does not create any legally binding obligations on the part of DWS Group. Without limitation, this document does not constitute an offer, an invitation to offer or a recommendation to enter into any transaction. When making an investment decision, you should rely solely on the final documentation relating to the transaction you are considering, and not the [document - may need to identify] contained herein. DWS Group is not acting as your financial adviser or in any other fiduciary capacity with respect to any transaction presented to you. Any transaction(s) or products(s) mentioned herein may not be appropriate for all investors and before entering into any transaction you should take steps to ensure that you fully understand such transaction(s) and have made an independent assessment of the appropriateness of the transaction(s) in the light of your own objectives and circumstances, including the possible risks and benefits of entering into such transaction. You should also consider seeking advice from your own advisers in making this assessment. If you decide to enter into a transaction with DWS Group you do so in reliance on your own judgment. The information contained in this document is based on material we believe to be reliable; however, we do not represent that it is accurate, current, complete, or error free. Assumptions, estimates and opinions contained in this document constitute our judgment as of the date of the document and are subject to change without notice. Any projections are based on a number of assumptions as to market conditions and there can be no guarantee that any projected results will be achieved. Past performance is not a guarantee of future results. The distribution of this document and availability of these products and services in certain jurisdictions may be restricted by law. You may not distribute this document, in whole or in part, without our express written permission.

For investors in Bermuda: This is not an offering of securities or interests in any product. Such securities may be offered or sold in Bermuda only in compliance with the provisions of the Investment Business Act of 2003 of Bermuda which regulates the sale of securities in Bermuda. Additionally, non-Bermudian persons (including companies) may not carry on or engage in any trade or business in Bermuda unless such persons are permitted to do so under applicable Bermuda legislation.

© 2024 DWS Investment GmbH, Mainzer Landstraße 11-17, 60329 Frankfurt am Main, Germany. All rights reserved.

as of 6/6/24; 082326 40 (06/2024)