

# PERSPECTIVES

## ECONOMIC AND ASSET CLASS OUTLOOK

3/2024

MACROECONOMICS  
Growth pick-up  
in 2025

FIXED INCOME  
Normal curves  
returning

EQUITIES  
Solid earnings,  
high volatility





# Macroeconomics: Growth pick-up in 2025

- 
- Growth: U.S. to re-accelerate in the course of 2025, Eurozone remaining at low levels.
  - Inflation: Moving down but staying elevated.
  - Rate cuts: Fed to follow the ECB.
- 

The **U.S.** economy is still robust with annualised Q2 growth of 3%, driven by solid consumption. That said, we expect growth to moderate somewhat and then slowly regain momentum due to solid private consumption and sound investment expenditure as well as elevated deficit spending. For 2024 as a whole, we expect GDP to expand by 2.4% and 1.7% in 2025.

After edging up in Q1 headline inflation started to decrease and dipped below 3% in July. Month-on-month inflation has eased noticeably in the previous months, and we expect an average inflation rate of 2.3% for 2025 as a whole. We expect the Fed to begin its easing cycle with a first rate cut of 25 bps this month. Five further cuts of the same magnitude should follow by the end of Q3 2025. At the longer end of the yield curve structural forces like deficit spending and cyclical factors (reaccelerating economy in 2025) may keep rates elevated going forward.

In the **Eurozone** real GDP increased by 0.2% QoQ in Q2 - easing from the 0.3% seen in Q1. The data indicates that the region's economy is still not recovering significantly. However, the unemployment rate fell to 6.4% in July, its lowest ever level since the start of the series in the mid-1990s. Given the tight labour market we expect private consumption to be the backbone of a slight increase in economic growth in the region and GDP to expand by 0.7% in 2024 and 1.0% in 2025. Overall, Eurozone potential growth is very low and does not allow for stronger growth rates.

On the price front, headline inflation dipped to 2.2% in August, thereby reaching its lowest reading in three years. Negotiated wage growth decreased mildly, easing potential price pressures coming from the increase in real wages

while still supporting consumption. We expect inflation to average 2.3% next year and the ECB to cut the deposit facility rate to 2.5% until September 2025.

In **Japan** GDP growth reversed from a decline of -0.6% QoQ in Q1 to an expansion of +0.8% in Q2. Private consumption - which accounts for more than half of the economy - rose for the first time in five quarters after spring wage negotiations delivered the highest pay increase in over 30 years. Inflation stood at 2.8% in July, for the third month in a row. In 2025, we expect inflation and GDP growth to average at 2.0% and 1.2% respectively. The BoJ could cautiously raise its key rate from the current 0.25% to 0.75% over the next twelve months.

In **China** the economy expanded 4.7% YoY in Q2, slowing from 5.3% in Q1. The economy remains generally robust but is showing some signs of weakness. Retail sales came in at 2.7% YoY in July, which is rather low compared to the double-digit growth rates in the 15 years before the pandemic. We forecast GDP growth of 4.8% in 2024 and 4.4% in 2025, and inflation in 2025 to average 1.7%.





# Fixed Income: Normal curves returning

- 
- Yield curve steepening underway.
  - Deficit spending to keep pressure on the longer end.
  - Carry to provide solid return potential.
- 

The U.S. is set to embark on a rate cutting cycle as the Fed gains confidence that inflation is on a sustainable path towards its target level of 2%. The labour market has also continued its gradual easing from the extremely tight levels of last year. After more than 2 years of inversion, the **U.S. Treasury** yield curve is normalising as rates have fallen faster at the shorter end than at the longer end. But that does not spell the end of elevated yields in our view. We foresee a shallow cutting cycle as the economy is likely to reaccelerate next year, limiting the downside for yields. In addition, a re-emergence of the debt ceiling debate and risk from continued deficit spending should push the term premium higher (September 2025, 10-year yield target: 4.05%; 2-year yield target: 3.60%).

As in the U.S., significant progress has been made in taming inflation in the Eurozone. Growth in the Eurozone, however, has been sluggish to date. This should allow the ECB to continue loosening its monetary policy, helping the steepening of the **Bund** yield curve which is on the cusp of normalising. Longer-end yields are likely to stay elevated due to fiscal imbalances in major economies alongside occasional political volatility (September 2025, 10-year yield target: 2.25%; 2-year yield target: 2.00%).

**Italian** spreads to Bunds may be susceptible to widening as attention shifts to the viability of the government's plan to reduce the deficit and bring it in line with EU fiscal rules. The strong carry may, however, attract more inflows to Italian bonds, capping the spread widening.

Despite limited spread compression potential, **investment grade (IG)** markets, in both USD and EUR, continue to see sizeable inflows as investor demand for carry remains strong. Steepening yield curves should free up cash sitting in money markets, some of which is likely to find its way into

the IG markets. The risks of IG spread widening should be limited as both regions are expected to avoid recession.

**High yield (HY)** default rates continue to hover at elevated levels compared to last year, but recent data suggests some stabilisation. The refinancing cost declined for B and BB issuers; however, it remains significantly elevated for CCC issuers, while fundamentals have weakened slightly. Although mild spread widening is expected, as spreads have tightened beyond fundamentally justifiable levels, total returns should still remain attractive.

**EM sovereign** spreads are likely to move sideways as economic growth is set to rebound in Eastern Europe and Latin America while remaining stable in most Asian countries. However, uncertainties loom due to China's growth outlook, geopolitical risks, rising commodity prices, and the upcoming U.S. presidential elections. Similarly, for **Asia Pacific credit** (aggregate but ~90% corporate), spreads should remain rangebound as net issuance is likely to stay negative and corporate default rates remain steady. Furthermore, both these markets offer an attractive carry.

---

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



# Equities: Solid earnings, high volatility

- 
- Earnings growth becoming more broadly based.
  - Small cap performance may pick up due to strong EPS growth.
  - U.S elections and geopolitical issues may trigger short-term volatility.
- 

Equities have continued their strong performance on the back of healthy earnings growth and expectations of a more favourable interest rate environment and no recession in either Europe or the U.S. going forward. After failing to increase their earnings for a year or more, Small caps in the U.S. as well as the S&P500 excluding the Magnificent 7 (Mag7), together with European markets recorded their first cumulative earnings growth in Q2. Performance is thus becoming more broadly based rather than driven mainly by the Mega caps, and we expect this to continue.

The **S&P 500** has done well so far this year. In H1 the Mag7 and other Mega caps were the main drivers of index performance, whereas since the start of H2 the contributors have become more broadly based. Despite a mild decline in Mag7 earnings growth in Q2, we expect their earnings to continue rising at above-average rates. Valuations remain stretched on a historical comparison but are backed by fundamentals such as solid earnings growth expectations. We expect annual earnings growth to remain at around 10% in the near term and the S&P 500 at 5,800 points by end of Q3 2025.

The picture is similar in Europe with the **STOXX Europe 600** performing well in H1, mainly driven by Large caps. Since H2 started Small cap performance has picked up and we expect them to make a robust, sustained contribution to overall index performance, especially on the back of higher earnings growth and modest valuations in historical terms. We expect the index to reach 540 points by end of September 2025.

In the Emerging Markets space, we prefer Asia due to its growth momentum and importance for the AI theme, e.g. tech-heavy South Korea and Taiwan collectively make up

some two-thirds of global semiconductor foundry capacity. In Japan, Asia's main developed market (DM), major equity indices have a stronger home bias than in most other DMs and are set to perform well on the back of increasing domestic consumption expenditure.

While we think large caps will continue to perform well in the U.S. and Europe and have decent return prospects over the long term, investors may consider adding small and mid caps as the changing interest rate environment and an uptick in growth in 2025 are expected to boost profits for more rate- and growth-sensitive smaller companies.

The upcoming U.S. presidential election may introduce short-term uncertainties into global markets later this year and potentially lead to sectoral shifts depending on the election outcome. In addition, geopolitical risks stemming from the Middle East crisis and the Russia/Ukraine conflict may trigger further market volatility. In general, we expect more periods of elevated volatility going forward as the great moderation and the era of negative interest rates are over.

---

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



# Commodities: Gold glistening

- 
- Demand pressure and strong supply limiting upside for oil prices.
  - Gold price potential buoyed further by the return of retail inflows.
  - Strong physical demand indicators for copper to take centre stage.
- 

Global **oil** demand growth expectations have been under pressure as China's manufacturing and construction weakness weighs on its oil consumption. Major energy agencies have been downgrading their estimates with the IEA now projecting 0.3 mb/d lower total demand in 2025 than it did back in April. OPEC also revised its demand forecasts downwards recently. OPEC+ reacted to current weakness by postponing its planned production hike from October to December, which should help to counteract the strong non-OPEC+ supply growth. Going forward, thanks to the strong demand from Asia ex-China and the purchases for the strategic reserves in China and the U.S., the drag on prices is likely to be minimal. The known unknown of geopolitics remains a closely watched factor and may potentially push prices higher (September 2025 Brent target: USD 80/bbl).

The **European carbon price** has struggled to gain traction as a combination of warm, windy and wet weather has dampened the need for power generated from fossil fuels, reducing their harmful emissions by almost 17% YTD. The incremental supply this year from frontloading the allowance auctions is likely to result in a supply surplus. Nevertheless, the long-term gains should be supported by supply tightness in the future and the introduction of the carbon border adjustment mechanism (CBAM) along with the parallel phasing-out of free allowances for the sectors covered by the CBAM.

**Gold** reached all-time highs recently on rising expectations of Fed interest rate normalisation, a weaker USD, continued purchases by some central banks and renewed buying interest from ETF/ETC buyers. We expect rising fiscal

deficits coupled with rising global money creation to remain bullish factors. Also, central banks will probably continue to buy gold to diversify their foreign reserves, and retail investors in Asia are likely to maintain their focus on gold as an asset (September 2025 Gold target: USD 2,810/oz).

**Copper** prices remain subdued due to broader Chinese economic weakness. However, strong physical demand indicators for China are starting to take centre stage again. Significant expansion of the high-efficiency EV charging infrastructure is underway, while NEV (new energy vehicle) production had increased almost 29% YoY by July this year. Renewables capacity addition continues rapidly with a recent report noting that the 339GW of capacity under construction in China is nearly double the total capacity being constructed in the rest of the world. Grid investment is also accelerating, having jumped 24% YoY in H1 2024. On the other hand, mine supply growth is likely to remain subdued going forward (September 2025 Copper target: USD 10,000/t).

---

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



# Currencies: Volatility revisited

- Imminent U.S. interest rate pivot may prompt stronger price fluctuations.
- We expect gradual JPY appreciation due to narrowing yield differentials.
- Recent CNY rebound partly in response to the unwinding of carry trades.

In contrast to H1, when most G10 currency movements were limited, Q3 has seen much stronger price movements to date. In particular, the unwinding of carry trades after the key interest rate hike in Japan and the foreshadowing of the interest rate pivot by the Fed also triggered a sharp increase in volatility.

With the interest rate pivot approaching in the U.S. and the unwinding of carry trades, the **USD** came under pressure against the **EUR** and fell to a 13-month low of around EUR/USD 1.12 in August. Whether the EUR has further appreciation potential is likely to depend on whether economic growth in Europe can converge with that in the U.S. and how much the respective central banks lower key interest rates in the next twelve months - as this should have an impact on yields at the short end of the respective curves. Since we believe that the market is currently pricing in larger Fed rate cuts than appropriate, we expect a firmer USD at EUR/USD 1.08 over the period under review.

The BoE's rate cut cycle could be slower than the Fed's. UK headline inflation has already fallen to 2% but is expected to rise again in the coming months, also due to adjustments to energy price caps. Core inflation along with average wage and salary growth remain elevated, as does service inflation. Economic growth dynamics could continue to support the **GBP**. We therefore see potential for the GBP to appreciate moderately to GBP/USD 1.29 by the end of September 2025.

Japan's economy bounced back in Q2, driven by a surge in private consumption thanks to significant wage hikes that revived real wage growth. This momentum could keep

inflation high for longer, helping the Bank of Japan (BoJ) hit its targets. After raising interest rates by 10 basis points in March and 15 basis points in July, we anticipate the BoJ will continue normalising rates in H1 2025, which should narrow yield differentials. In addition, the pace of Fed rate cuts is likely to influence the **JPY's** potential appreciation. However, we foresee limited scope for significant appreciation due to the persistent substantial yield differentials and negative real rates in Japan. We therefore expect the JPY to appreciate against the USD only gradually to USD/JPY 140 as of end-September 2025.

Structural issues, especially in the property sector, remain a drag on China's economy. Government measures are only likely to help in the medium term. The **CNY** has, however, recently been supported by the unwinding of carry trades and the pricing-in of Fed rate cuts. Since the PBoC also wants to prevent a sharp appreciation or depreciation of the CNY, we expect the CNY will still be near its current level at the end of September 2025, i.e. USD/CNY 7.15.

Over our forecast horizon, we highlight geopolitics and the U.S. elections as potential sources of sharply increased short-term volatility.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Appendix 1

# Macroeconomic forecasts

	2024	2025	Consensus 2024 (BBG*)
<b>GDP growth rate (%)</b>			
U.S. <sup>1</sup>	2.4	1.7	2.5
Eurozone	0.7	1.0	0.7
Germany	0.1	1.0	0.1
France	1.2	0.9	1.2
Italy	0.7	0.8	1.0
Spain	2.5	1.2	2.0
Japan	0.0	1.2	0.1
China	4.8	4.4	4.9
World	3.1	3.2	3.0

<b>Consumer price inflation (%)</b>			
U.S.	2.9	2.3	3.0
Eurozone	2.5	2.3	2.4
Germany	2.6	2.5	2.4
Japan	2.5	2.0	2.4
China	0.5	1.7	0.5

<b>Unemployment rate (%)</b>			
U.S.	4.3	4.1	4.2
Eurozone	6.6	6.6	6.5
Germany	6.0	5.9	6.0
Japan	2.5	2.4	2.5
China <sup>2</sup>	5.0	5.0	5.1

<b>Fiscal balance (% of GDP)</b>			
U.S.	-6.0	-5.9	-6.5
Eurozone	-2.8	-2.7	-3.0
Germany	-1.5	-1.0	-1.7
Japan	-4.5	-3.0	-4.2
China <sup>3</sup>	-13.3	-13.0	-4.8

\*Bloomberg consensus. <sup>1</sup>For the U.S., GDP growth Q4/Q4 % is 1.5 % in 2024 and 2.1% in 2025. <sup>2</sup>Urban unemployment rate (end of period), not comparable to consensus data. <sup>3</sup>China fiscal deficit refers to augmented fiscal balance (widest definition) and refers to IMF. It is not comparable with the consensus.

**Source:** Deutsche Bank AG, Bloomberg Finance L.P. Data as of September 2024.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Appendix 2

# Asset class forecasts for end of September 2025

## Sovereign bond yields (%)

United States (2-Year U.S. Treasury)	3.60
United States (10-Year U.S. Treasury)	4.05
United States (30-Year U.S. Treasury)	4.15
Germany (2-Year German Bund)	2.00
Germany (10-Year German Bund)	2.25
Germany (30-Year German Bund)	2.50
United Kingdom (10-Year UK Government)	4.00
Japan (2-Year Japan Government)	0.70
Japan (10-Year Japan Government)	1.40

## Benchmark rates (%)

United States (federal funds rate)	3.75-4.00
Eurozone (deposit rate)	2.50
United Kingdom (repo rate)	3.75
Japan (policy rate)	0.75
China (1-year lending rate)	3.10

## Currencies

EUR vs. USD	1.08
USD vs. JPY	140
EUR vs. JPY	151
EUR vs. CHF	0.96
EUR vs. GBP	0.84
GBP vs. USD	1.29
USD vs. CNY	7.15

## Equity indices

United States (S&P 500)	5,800
Germany (DAX)	20,000
Eurozone (EURO STOXX 50)	5,100
Europe (STOXX Europe 600)	540
Japan (MSCI Japan)	1,760
Switzerland (SMI)	12,350
United Kingdom (FTSE 100)	8,350
Emerging Markets (MSCI EM)	1,140
Asia ex. Japan (MSCI Asia ex. Japan)	740
Australia (MSCI Australia)	1,550

## Commodities (USD)

Gold (oz)	2,810
Crude Oil (Brent Spot, bbl)	80
Copper (t)	10,000
EU Carbon Allowances (Carbon Spot, t)	80

## Corporate & EM bond spreads (bps)

EUR IG Corp	95
EUR HY	400
USD IG Corp	85
USD HY	375
Asia Credit	125
EM Sovereign	390

Source: Deutsche Bank AG; Data as of September 5, 2024.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.





## Appendix 3

# Historical performance

	05.09.2019– 05.09.2020	05.09.2020– 05.09.2021	05.09.2021– 05.09.2022	05.09.2022– 05.09.2023	05.09.2023– 05.09.2024
<b>Performance</b>					
S&P 500	15.2%	32.3%	-13.5%	14.6%	22.4%
STOXX Europe 600	-6.2%	30.4%	-12.4%	10.5%	12.1%
MSCI EM	9.6%	19.7%	-26.5%	1.9%	9.2%
EURO STOXX 50	-6.4%	28.9%	-16.9%	22.3%	12.8%
SMI	1.7%	21.7%	-12.4%	1.3%	9.8%
DAX	5.9%	22.9%	-19.1%	23.6%	17.8%
FTSE 100	-20.2%	23.1%	2.1%	2.1%	10.8%
MSCI Japan	5.9%	25.8%	-4.4%	22.8%	10.7%
MSCI Australia	-12.8%	26.6%	-7.8%	7.9%	10.1%
MSCI Asia ex. Japan	16.2%	17.1%	-26.5%	1.2%	9.6%
2-Year U.S. Treasury	3.3%	0.2%	-4.0%	0.3%	6.2%
10-Year U.S. Treasury	9.4%	-4.1%	-13.7%	-5.3%	8.6%
30-Year U.S. Treasury	16.1%	-9.9%	-24.8%	-14.5%	10.4%
2-Year German Bund	-1.0%	-0.7%	-3.4%	-1.7%	3.8%
10-Year German Bund	-1.0%	-0.5%	-13.7%	-6.4%	3.1%
30-Year German Bund	0.8%	-5.0%	-35.6%	-22.8%	8.1%
10-Year UK Government	3.2%	-2.4%	-14.7%	-7.6%	9.2%
2-Year Japan Government	-0.4%	-0.1%	-0.1%	-0.1%	-0.2%
10-Year Japan Government	-2.8%	0.4%	-1.2%	-0.3%	-1.1%
EUR vs. USD	7.2%	0.5%	-16.5%	8.1%	3.5%
USD vs. JPY	-0.6%	3.2%	28.2%	5.1%	-2.8%
EUR vs. JPY	6.5%	3.6%	7.1%	13.5%	0.5%
EUR vs. CHF	-0.7%	0.4%	-10.4%	-2.0%	-1.6%
EUR vs. GBP	-0.3%	-4.1%	0.6%	-1.1%	-1.2%
GBP vs. USD	7.5%	4.7%	-17.0%	9.2%	4.7%
USD vs. CNY	-4.3%	-5.7%	7.4%	5.3%	-2.9%
Gold (oz)	27.3%	-5.5%	-6.4%	12.6%	30.7%
Crude Oil (Brent Spot, bbl)	-30.0%	70.2%	31.9%	-6.0%	-19.3%
Copper (t)	14.8%	40.6%	-18.8%	10.9%	7.1%

**Source:** Deutsche Bank AG, Bloomberg Finance L.P., LSEG Datastream; Data as of September 5, 2024.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Glossary

The **Bank of England (BoE)** is the central bank of Great Britain.

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

**Brent** is a grade of crude oil used as a benchmark in oil pricing.

**Bunds** are federal bonds, i.e. German government bonds.

The **Carbon Border Adjustment Mechanism (CBAM)** is a carbon tariff on imported carbon intensive products to the European Union.

**Carry trade** refers to borrowing a currency or financial product at low interest rate and reinvesting in a currency or financial product with a higher return.

**CHF** is the currency code for the Swiss Franc.

**CNY** is the currency code for the Chinese yuan.

The **consumer price index (CPI)** measures the price of a basket of products and services that is based on the typical consumption of a private household.

The **DAX** is a blue-chip stock-market index consisting of the 40 major German companies trading on the Frankfurt Stock Exchange; other DAX indices include a wider range of firms.

The U.S. **debt ceiling** is a legislative limit on the amount of Federal debt that can be issued by the U.S. Treasury.

A **developed market (DM)** is a country that is advanced economically, with developed capital markets and high levels of per capita income.

**Earnings per share (EPS)** are calculated as a companies' net income minus dividends of preferred stock all divided by the total number of shares outstanding.

An **emerging market (EM)** is a country that has some characteristics of a developed market in terms of market efficiency, liquidity and other factors, but does not meet all developed market criteria.

**Exchange Traded Commodities (ETCs)** are commodity focused Exchange Traded Funds (ETFs).

**Exchange Traded Funds (ETFs)** are investment funds traded on stock exchanges.

**EUR** is the currency code for the euro, the currency of the Eurozone.

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

The **EURO STOXX 50** tracks the performance of blue-chip stocks in the Eurozone and includes the super-sector leaders in terms of market capitalization.

The **Eurozone** is formed of 20 European Union member states that have adopted the euro as their common currency and sole legal tender.

The **Fed funds rate** is the interest rate at which depository institutions lend overnight to other depository institutions.

The **Federal Reserve (Fed)** is the central bank of the United States. Its **Federal Open Market Committee (FOMC)** meets to determine interest rate policy.

The **Fed funds rate** is the interest rate at which depository institutions lend overnight to other depository institutions.

The **FTSE 100** tracks the performance of the 100 major companies trading on the London Stock Exchange.

The **G10** comprises of Belgium, Canada, France, Germany, Italy, Japan, the Netherlands, Sweden, Switzerland, the United Kingdom and the United States.



## Glossary

**GBP** is the currency code for the British pound/sterling.

**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.

One billion watts make one **GW**.

**High yield (HY)** bonds are higher-yielding bonds with a lower credit rating than investment-grade corporate bonds, Treasury bonds and municipal bonds.

The **International Energy Agency (IEA)** is an intergovernmental agency studying energy-related issues.

An **investment grade (IG)** rating by a rating agency such as Standard & Poor's indicates that a bond is seen as having a relatively low risk of default.

**JPY** is the currency code for the Japanese yen, the Japanese currency.

**Magnificent 7** is a term for the most dominant tech companies. The group is made up of mega-cap stocks Apple, Alphabet, Microsoft, Amazon.com, Meta Platforms, Tesla and Nvidia.

The **MSCI Australia** tracks the performance of large- and mid-cap stocks in Australia.

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

The **MSCI EM** captures large and mid cap representation across 24 emerging markets countries.

The **MSCI Japan** measures the performance of around 320 large and mid-cap stocks drawn accounting for about 85% of Japanese market capitalization.

The **Organization of the Petroleum Exporting Countries (OPEC)** is an international organization with the mandate to "coordinate and unify the petroleum policies" of its 12 members. The so-called "**OPEC+**" brings in Russia and other producers.

The **People's Bank of China (PBoC)** is the central bank of the People's Republic of China.

The **S&P 500** includes 500 leading U.S. companies capturing approximately 80% coverage of available U.S. market capitalization.

A **spread** is the difference in the quoted return on two investments, most commonly used in comparing bond yields.

The **STOXX Europe 600** includes 600 companies across 17 European countries.

The **Swiss Market Index (SMI)** includes 20 large and mid-cap stocks.

**TOPIX** refers to the Tokyo Stock Price Index.

**Treasuries** are bonds issued by the U.S. government.

**U.S.** is the United States.

**USD** is the currency code for the U.S. Dollar.

**Volatility** is the degree of variation of a trading-price series over time.

The **yield curve** shows the different rates for bonds of differing maturities but the same credit quality.



## Important note

### General

This document may not be distributed in Canada or Japan. This document is intended for retail or professional clients only. This document is being circulated in good faith by Deutsche Bank Aktiengesellschaft, its branches (as permitted in any relevant jurisdiction), affiliated companies and its officers and employees (collectively, "Deutsche Bank").

This material is for your information only and is not intended as an offer, or recommendation or solicitation of an offer to buy or sell any investment, security, financial instrument or other specific product, to conclude a transaction, or to provide any investment service or investment advice, or to provide any research, investment research or investment recommendation, in any jurisdiction, but is intended solely for information purposes. The information does not replace advice tailored to the individual circumstances of the investor.

All materials in this communication are meant to be reviewed in their entirety.

If a court of competent jurisdiction deems any provision of this disclaimer unenforceable, the remaining provisions will remain in full force and effect. This document has been prepared as a general market commentary without consideration of the investment needs, objectives or financial circumstances of any particular investor. Investments are subject to market risks which derive from the instrument or are specific to the instrument or attached to the particular issuer. Should such risks materialise, investors may incur losses, including (without limitation) a total loss of the invested capital. The value of investments can fall as well as rise and you may not recover the amount originally invested at any point in time. This document does not identify all the risks (direct or indirect) or other considerations which may be material to an investor when making an investment decision.

This document and all information included herein are provided "as is", "as available" and no representation or warranty of any kind, express, implied or statutory, is made by Deutsche Bank regarding any statement or information contained herein or in conjunction with this document. To the extent permissible under applicable laws and regulations, we are making no representation as to the profitability of any financial instrument or economic measure. All opinions, market prices, estimates, forward looking statements, hypothetical statements, forecast returns or other opinions leading to financial conclusions contained herein reflect Deutsche Bank's subjective judgment as of the date of this document. Without limitation, Deutsche Bank does not warrant the accuracy, adequacy, completeness, reliability, timeliness or availability of this communication or any information in this document and expressly disclaims liability for errors or omissions herein. 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.

Unless otherwise indicated in this document, all statements of opinion reflect the current assessment of Deutsche Bank, which may change at any time. Deutsche Bank does not assume any obligation to either update the information contained in this document or inform investors about available updated information. The information contained in this document is subject to change without notice and based on a number of assumptions, estimates, opinions and hypothetical models or analyses which – although, from the Bank's current point of view are based on adequate information – may not prove valid or turnout in the future to be accurate or correct and may be different from conclusions expressed by other departments within Deutsche Bank. Although the information contained in this document has been derived from sources that Deutsche Bank considers trustworthy and reliable, Deutsche Bank does not guarantee the completeness, fairness, or accuracy of the information and it should not be relied upon as such. This document may provide, for your convenience, references to websites and other external sources. Deutsche Bank takes no responsibility for their content and their content does not form any part of this document. Accessing such external sources is at your own risk.

To the extent permissible under applicable laws and regulations, this document is for discussion purposes only and is not intended to create any legally binding obligations on Deutsche Bank and Deutsche Bank is not acting as your financial advisor or in a fiduciary capacity unless otherwise expressly agreed by Deutsche Bank in writing. Before making an investment decision, investors need to consider, with or without the assistance of a financial professional, whether any investments and strategies described or provided by Deutsche Bank, are appropriate, in light of the investor's particular investment needs, objectives, financial circumstances, the possible risks and benefits of such investment decision. When making an investment decision, potential investors should not rely on this document but only on what is contained in the final offering documentation relating to the investment. As a global financial services provider, Deutsche Bank from time to time faces actual and potential conflicts of interest. Deutsche Bank's policy is to take all appropriate steps to maintain and operate effective organisational and administrative arrangements to identify and manage such conflicts. Senior management within Deutsche Bank are responsible for ensuring that Deutsche Bank's systems, controls and procedures are adequate to identify and manage conflicts of interest. Deutsche Bank does not give tax or legal advice, including in this document, and nothing in this document should be interpreted as Deutsche Bank providing any person with any investment advice. Investors should seek advice from their own tax experts, lawyers, and investment advisers in considering investments and strategies described by Deutsche Bank. Unless notified to the contrary in a particular case, investment instruments are not insured by any governmental entity, not subject to deposit

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.





## Important note

protection schemes and not guaranteed, including by Deutsche Bank. This document may not be reproduced or circulated without Deutsche Bank's express written authorisation. Deutsche Bank expressly prohibits the distribution and transfer of this material to third parties. Deutsche Bank accepts no liability whatsoever arising from the use or distribution of this material or for any action taken or decision made in respect of investments mentioned in this document which the investor may have made or may make in the future.

The manner of circulation and distribution of this document may be restricted by law or regulation in certain countries, including, without limitation, the United States. 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 where such distribution, publication, availability or use would be contrary to law or regulation or which would subject Deutsche Bank to any registration or licensing requirement within such jurisdiction not currently met. 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, warranty, or prediction as to future performance. Further information is available upon investor's request.

Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany with its head office in Frankfurt am Main. It is registered with the district court ("Amtsgericht") in Frankfurt am Main under number HRB 30 000 and licensed to carry out banking business and to provide financial services. Supervisory authorities are the European Central Bank ("ECB"), Sonnemannstrasse 22, 60314 Frankfurt am Main, Germany ([www.ecb.europa.eu](http://www.ecb.europa.eu)) and the German Federal Financial Supervisory Authority ("Bundesanstalt für Finanzdienstleistungsaufsicht" or "BaFin"), Graueindorfer Strasse 108, 53117 Bonn and Marie-Curie-Strasse 24-28, 60439 Frankfurt am Main ([www.bafin.de](http://www.bafin.de)), and by the German Central Bank ("Deutsche Bundesbank"), Wilhelm-Epstein-Strasse 14, 60431 Frankfurt am Main ([www.bundesbank.de](http://www.bundesbank.de)).

This document has neither been submitted to nor reviewed or approved by any of the above or below mentioned supervisory authorities.

### **For Residents of the United Arab Emirates**

This document is strictly private and confidential and is being distributed to a limited number of investors and must not be provided to any person other than the original recipient, and may not be reproduced or used for any other purpose. By receiving this document, the person or entity to whom it has been issued understands, acknowledges and agrees that this document has not been approved by the UAE Central Bank, the UAE Securities and Commodities Authority, the UAE Ministry of Economy or any other authorities in the UAE. No marketing of any financial products or services has been or will be made from within the United Arab Emirates and no subscription to any funds, securities, products or financial services may or will be consummated within the United Arab Emirates. This does not constitute a public offer of securities in the United Arab Emirates in accordance with the Commercial Companies Law, Federal Law No. 2 of 2015 (as amended from time to time) or otherwise. This document may only be distributed to "Professional Investors", as defined in the UAE Securities and Commodities Authority's Rulebook on Financial Activities and Reconciliation Mechanism (as amended from time to time).

### **For Residents of Kuwait**

This document has been sent to you at your own request. This presentation is not for general circulation to the public in Kuwait. The Interests have not been licensed for offering in Kuwait by the Kuwait Capital Markets Authority or any other relevant Kuwaiti government agency. The offering of the Interests in Kuwait on the basis of a private placement or public offering is, therefore, restricted in accordance with Decree Law No. 31 of 1990 and the implementing regulations thereto (as amended) and Law No. 7 of 2010 and the bylaws thereto (as amended). No private or public offering of the Interests is being made in Kuwait, and no agreement relating to the sale of the Interests will be concluded in Kuwait. No marketing or solicitation or inducement activities are being used to offer or market the Interests in Kuwait.

### **For Residents of the Kingdom of Saudi Arabia**

This document may not be distributed in the Kingdom except to such persons as are permitted under the Investment Fund Regulations issued by the Capital Market Authority. The Capital Market Authority does not take any responsibility for the contents of this document, does not make any representation as to its accuracy or completeness, and expressly disclaims any liability whatsoever for any loss arising from, or incurred in reliance upon, any part of this document. Prospective subscribers of the securities should conduct their own due diligence on the accuracy of any information relating to securities. If you do not understand the contents of this document, you should consult an authorised financial adviser.

### **For Residents of Qatar**

This document has not been filed with, reviewed or approved by the Qatar Central Bank, the Qatar Financial Markets Authority, the Qatar Financial Centre Regulatory Authority or any other relevant Qatari governmental body or securities exchange or under any laws of the State of Qatar. This document does not constitute a public offering and is addressed

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Important note

only to the party to whom it has been delivered. No transaction will be concluded in Qatar and any inquiries or applications should be received, and allotments made, outside Qatar.

### **For Residents of the Kingdom of Bahrain**

This document does not constitute an offer for sale of, or participation in, securities, derivatives or funds marketed in Bahrain within the meaning of Bahrain Monetary Agency Regulations. All applications for investment should be received and any allotments should be made, in each case from outside of Bahrain. This document has been prepared for private information purposes of intended investors only who will be institutions. No invitation shall be made to the public in the Kingdom of Bahrain and this document will not be issued, passed to, or made available to the public generally. The Central Bank (CBB) has not reviewed, nor has it approved, this document or the marketing of such securities, derivatives or funds in the Kingdom of Bahrain.

### **For Residents of South Africa**

This document does not constitute or form a part of any offer, solicitation or promotion in South Africa. This document has not been filed with, reviewed or approved by the South African Reserve Bank, the Financial Sector Conduct Authority or any other relevant South African governmental body or securities exchange or under any laws of the Republic of South Africa.

### **For Residents of Belgium**

This document has been distributed in Belgium by Deutsche Bank AG acting through its Brussels Branch. Deutsche Bank AG is a stock corporation ("Aktiengesellschaft") incorporated under the laws of the Federal Republic of Germany and licensed to carry on banking business and to provide financial services subject to the supervision and control of the European Central Bank ("ECB") and the German Federal Financial Supervisory Authority ("BaFin"). Deutsche Bank AG, Brussels Branch, is also supervised in Belgium by the Financial Services and Markets Authority ("FSMA", [www.fsma.be](http://www.fsma.be)). The branch has its registered address at Marnixlaan 13-15, B-1000 Brussels and is registered under number VAT BE 0418.371.094, RPM/RPR Brussels. Further details are available on request or can be found at [www.deutschebank.be](http://www.deutschebank.be).

### **For Residents of the United Kingdom**

This document is a financial promotion as defined in Section 21 of the Financial Services and Markets Act 2000 and is approved by and communicated to you by DB UK Bank Limited. DB UK Bank Limited is a member of the Deutsche Bank group and is registered at Company House in England & Wales with company number 315841 with its registered Office: 21 Moorfields, London, United Kingdom, EC2Y 9DB. DB UK Bank Limited is authorised by the Prudential Regulation Authority and is regulated by the Financial Conduct Authority and the Prudential Regulation Authority. DB UK Bank Limited's Financial Services Registration Number is 140848. Deutsche Bank Aktiengesellschaft is incorporated in the Federal Republic of Germany and its members' liability is limited.

### **For Residents of Hong Kong**

This material is intended for: Professional Investors in Hong Kong. Furthermore, this material is provided to addressee only, further distribution of this material is strictly prohibited. This document and its contents are provided for information only. Nothing in this document is intended to be an offer of any investment or a solicitation or recommendation to buy or to sell an investment and should not be interpreted or construed as an offer, solicitation, or recommendation.

The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the investments contained herein (if any). If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

This document has not been approved by the Securities and Futures Commission in Hong Kong ("SFC"), nor has a copy of this document been registered by the Registrar of Companies in Hong Kong, unless specified otherwise. The investments contained herein may or may not be authorised by the SFC. The investments may not be offered or sold in Hong Kong, by means of any document, other than (i) to "professional investors" as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) ("SFO") and any rules made under the SFO, or (ii) in other circumstances which do not result in the document being a "prospectus" as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) (the "C(WUMP)O") or which do not constitute an offer to the public within the meaning of the C(WUMP)O. No person shall issue or possess for the purposes of issue, whether in Hong Kong or elsewhere, any advertisement, invitation or document relating to the investments, which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to investments which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" as defined in the SFO and any rules made under the SFO.

### **For Residents of Singapore**

This material is intended for: Accredited Investors / Institutional Investors in Singapore. Furthermore, this material is provided to addressee only, further distribution of this material is strictly prohibited.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Important note

### For Residents of the United States of America

In the United States, brokerage services are offered through Deutsche Bank Securities Inc., a broker-dealer and registered investment adviser, which conducts securities activities in the United States. Deutsche Bank Securities Inc. is a member of FINRA, NYSE and SIPC. Banking and lending services are offered through Deutsche Bank Trust Company Americas, member FDIC, and other members of the Deutsche Bank Group. In respect of the United States, see earlier statements made in this document. Deutsche Bank makes no representations or warranties that the information contained herein is appropriate or available for use in countries outside of the United States, or that services discussed in this document are available or appropriate for sale or use in all jurisdictions, or by all counterparties. Unless registered, licensed as otherwise may be permissible in accordance with applicable law, none of Deutsche Bank or its affiliates is offering any services in the United States or that are designed to attract US persons (as such term is defined under Regulation S of the United States Securities Act of 1933, as amended). This United States-specific disclaimer will be governed by and construed in accordance with the laws of the State of Delaware, without regard to any conflicts of law provisions that would mandate the application of the law of another jurisdiction.

### For Residents of Germany

This information is advertising. The texts do not meet all legal requirements to ensure the impartiality of investment and investment strategy recommendations or financial analyses. There is no prohibition for the compiler or for the company responsible for the compilation to trade with the respective financial instruments before or after the publication of these documents.

General information on financial instruments is contained in the brochures „Basic Information on Securities and Other Investments“, „Basic Information on Financial Derivatives“, „Basic Information on Forward Transactions“ and the information sheet „Risks in Forward Transactions“, which the customer can request from the Bank free of charge. Past performance or simulated performance is not a reliable indicator of future performance.

### For Residents of India

The investments mentioned in this document are not being offered to the Indian public for sale or subscription. This document is not registered and/or approved by the Securities and Exchange Board of India, the Reserve Bank of India, or any other governmental/ regulatory authority in India. This document is not and should not be deemed to be a “prospectus” as defined under the provisions of the Companies Act, 2013 (18 of 2013) and the same shall not be filed with any regulatory authority in India. Pursuant to the Foreign Exchange Management Act, 1999 and the regulations issued there under, any investor resident in India may be required to obtain prior special permission of the Reserve Bank of India before making investments outside of India including any investments mentioned in this document.

### For Residents of Italy

This report is distributed in Italy by Deutsche Bank S.p.A., a bank incorporated and registered under Italian law subject to the supervision and control of Banca d'Italia and CONSOB. Its registered office is located at Piazza del Calendario 3 – 20126 Milan (Italy) and is registered with the Chamber of Commerce of Milan, VAT and fiscal code number 001340740156, part of the interbank fund of deposits protection, enrolled in the Bank Register and the head of Deutsche Bank Banking Group, enrolled in the register of the Banking Groups pursuant to Legislative Decree September 1st, 1993 n. 385 and subject to the direction and coordination activity of Deutsche Bank AG, Frankfurt am Main (Germany).

### For Residents of Luxembourg

This report is distributed in Luxembourg by Deutsche Bank Luxembourg S.A., a bank incorporated under the laws of the Grand Duchy of Luxembourg in the form of a public limited company (Société Anonyme), subject to the supervision and control of the European Central Bank (“ECB”) and Commission de Surveillance du Secteur Financier (“CSSF”). Its registered office is located at 2, boulevard Konrad Adenauer, 1115 Luxembourg, Grand Duchy of Luxembourg and is registered with Luxembourg Registre de Commerce et des Sociétés (“RCS”) under number B 9.164.

### For Residents of Spain

Deutsche Bank, Sociedad Anónima Española Unipersonal is a credit institution regulated by the Bank of Spain and the CNMV and registered in their respective Official Registries under the Code 019. Deutsche Bank, Sociedad Anónima Española Unipersonal may only undertake the financial services and banking activities that fall within the scope of its existing license. The principal place of business in Spain is located in Paseo de la Castellana number 18, 28046 - Madrid. Registered in the Mercantile Registry of Madrid, Volume 28100, Book 0, Folio 1, Section 8, Sheet M506294, Registration 2. NIF: A08000614. This information has been distributed by Deutsche Bank, Sociedad Anónima Española Unipersonal.

### For Residents of Portugal

Deutsche Bank AG, Portugal Branch is a credit institution regulated by the Bank of Portugal and the Portuguese Securities Commission (“CMVM”), registered with numbers 43 and 349, respectively and with commercial registry number 980459079. Deutsche Bank AG, Portugal Branch may only undertake the financial services and banking activities that fall within the scope of its existing license. The registered address is Rua Castilho, 20, 1250-069 Lisbon, Portugal.

In Europe, Middle East and Africa as well as in Asia Pacific this material is considered marketing material, but this is not the case in the U.S. No assurance can be given that any forecast or target can be achieved. Forecasts are based on assumptions, estimates, opinions and hypothetical models which may prove to be incorrect. Past performance is not indicative of future returns. Performance refers to a nominal value based on price gains/losses and does not take into account inflation. Inflation will have a negative impact on the purchasing power of this nominal monetary value. Depending on the current level of inflation, this may lead to a real loss in value, even if the nominal performance of the investment is positive. Investments come with risk. The value of an investment can fall as well as rise and you might not get back the amount originally invested at any point in time. Your capital may be at risk. This document was produced in September 2024.



## Important note

**For Residents of Austria**

This document is distributed by Deutsche Bank AG Vienna Branch, registered in the commercial register of the Vienna Commercial Court under number FN 140266z. Deutsche Bank AG's Vienna branch is also supervised by the Austrian Financial Market Authority (FMA), Otto-Wagner-Platz 5, 1090 Vienna. This document has neither been submitted to nor approved by the aforementioned supervisory authorities.

**For Residents of the Netherlands**

This document is distributed by Deutsche Bank AG, Amsterdam Branch, with registered address at De entree 195 (1101 HE) in Amsterdam, the Netherlands, and registered in the Netherlands trade register under number 33304583 and in the register within the meaning of Section 1:107 of the Netherlands Financial Supervision Act (Wet op het financieel toezicht). This register can be consulted through [www.dnb.nl](http://www.dnb.nl).

**For Residents of France**

Deutsche Bank AG is an authorised credit institution, subject to the overall supervision of the European Central Bank and BaFin, the German Federal Financial Supervisory Authority. Its various branches are locally supervised, for certain activities, by the competent banking authorities, such as the Prudential Control and Resolution Authority (Autorité de Contrôle Prudentiel de Résolution, "ACPR") and the Financial Markets Authority (Autorité des Marchés Financiers, "AMF") in France.

Any reproduction, representation, distribution or redistribution, in whole or in part, of the contents of this document in any medium or by any process whatsoever, as well as any sale, resale, retransmission or making available to third parties in any manner whatsoever, is prohibited. This document may not be reproduced or distributed without our written permission.

© 2024 Deutsche Bank AG. All rights reserved.

Publication date: September 9, 2024

Image credit: Getty Images

055570 090924