01 FEBRUARY 2023

CEPREMAP / DBNOMICS

# Macroeconomic Outlook – February 2023



## **DBnomics**

- Most data presented in the forthcoming slides are extracted from DBnomics (<u>https://db.nomics.world/</u>), an open-sourced databank created at CEPREMAP, and will be updated every Thursday at 6:00pm
- The project has been financed by generous grants from Banque de France, AFD, DG Trésor, France Stratégie and OECD
- The executive director of the DBnomics project is Christophe Benz
- The slides have been designed by Daniel Cohen and are updated by Jocelyn Maillard and François Langot at CEPREMAP
- Links to the DBnomics data are available in the Appendix
- All materials presented here can be freely used with proper acknowledgment
- Questions and comments about the presentation can be addressed at jocelyn.maillard@cepremap.org



## **Executive summary**

- Markets and policymakers are following in parallel headline inflation, financial market and labor-market trends.
- In response to inflationary pressures, monetary policy has been tightened up to levels unheard of for the last 20 years. However, both the Fed and the ECB have recently paused the hikes. We seem to be at the peak of the tightening cycle. Notably, the Fed Board members expect three 25-bps cuts in 2024. Nevertheless, the Fed and the ECB indicated that cuts should not occur during the first quarter of 2024.
- Headline inflation dropped below 3% in Europe although core inflation remains at high levels. In the US, headline inflation has decreased, but it is now larger than in the Euro Area. The return to the 2% inflation target may be more complex in the US as the Fed must deal with labor-market overheating and financial-market issues.
- Most raw-material prices have come back to their pre-war levels. Oil prices have also been decreasing after their surge in June. Natural-gas-price difference between Europe and the US remains high. Tensions in the Red sea led to a massive rise of transportation costs for containers since the beginning of the year, potentially leading to a new rise of inflation.
- GDP growth beat market expectations in the third and fourth quarters in the US. However, it was negative in the main countries of the Euro Area as private consumption dropped. Notably, Germany growth remains low as its manufacturing sector is suffering.
- Sovereign yields are at a high level in the Euro Area as the uncertainty about inflation remains. They have however decreased over the last couple of month. The spreads between core countries and the periphery have also been falling as macroeconomic results have overcome expectations in countries as Spain or Greece.



## **Table of Contents**

| I   | GR  | OWTH AND INFLATION IN SELECTED G20 COUNTRIES | 2  |
|-----|-----|--|----|
|     | Α   | The growth slowdown                          | 3  |
|     | В   | The seeds of inflation                       | 8  |
|     | С   | Inflation unbound                            | 14 |
| II  | МО  | NETARY POLICY                                | 18 |
|     | Α   | In the US                                    | 19 |
|     | В   | In the Euro Area                             | 24 |
| III | IIM | PACT ON YIELDS AND SPREADS                   | 29 |
| IV  | IMF | PACT ON STOCK MARKETs                        | 33 |
| V   | AP  | PENDIX                                       | 39 |





# Growth and inflation in selected G20 countries





# A The growth slowdown



# Growth in advanced economies

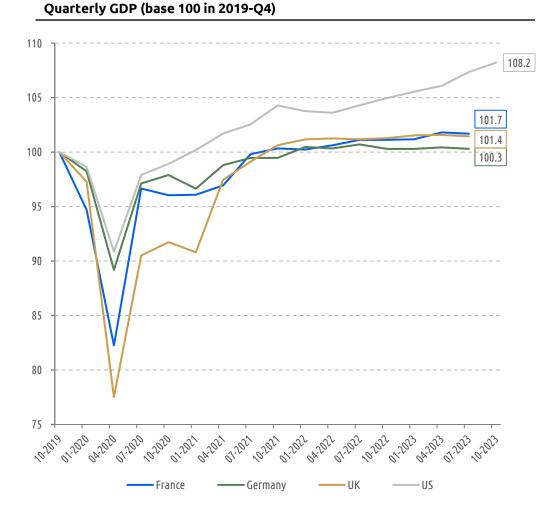
Growth was higher than expected in the US during the third and fourth quarters of 2023 while it was negative in the Euro Area and Japan. The OECD has moderately revised downward its growth projections for 2023 and 2024 for European countries, and upwards for the US.

## Yearly GDP growth rate (YoY % change)

| Yearly GDP growth rate % |                    |      |      |         |         |  |  |  |  |  |  |  |  |
|--------------------------|--------------------|------|------|---------|---------|--|--|--|--|--|--|--|--|
| Country                  | 2020               | 2021 | 2022 | 2023(E) | 2024(P) |  |  |  |  |  |  |  |  |
| Еиго Агеа                | (6.1) <sup>1</sup> | 5.9  | 3.5  | 0.8     | 1.4     |  |  |  |  |  |  |  |  |
| Germany                  | (3.8)              | 3.2  | 1.8  | (0.1)   | 1.1     |  |  |  |  |  |  |  |  |
| France                   | (7.5)              | 6.4  | 2.5  | 0.7     | 1.3     |  |  |  |  |  |  |  |  |
| Italy                    | (9.0)              | 8.3  | 3.7  | 0.7     | 0.8     |  |  |  |  |  |  |  |  |
| UK                       | (10.4)             | 8.7  | 4.4  | (0.3)   | 1.0     |  |  |  |  |  |  |  |  |
| USA                      | (2.2)              | 5.8  | 1.9  | 1.6     | 1.1     |  |  |  |  |  |  |  |  |
| Japan                    | (4.2)              | 2.2  | 1.1  | 1.3     | 1.0     |  |  |  |  |  |  |  |  |

## Quarterly GDP growth rate (% change over the previous period)

|  | Quarterly GDP growth rate % |     |       |       |       |       |       |       |       |     |  |  |  |  |  |
|--|-----------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-----|--|--|--|--|--|
| Country 21Q3 21Q4 22Q1 22Q2 22Q3 22Q4 23Q1 23Q2 23Q3 |                             |     |       |       |       |       |       |       |       |     |  |  |  |  |  |
| Euro Area  | 2.1                         | 0.5 | 0.7   | 0.8   | 0.5   | (0.1) | 0.1   | 0.1   | (0.1) | -   |  |  |  |  |  |
| France   | 3.1                         | 0.5 | (0.1) | 0.4   | 0.5   | (0.0) | 0.1   | 0.6   | (0.1) | -   |  |  |  |  |  |
| Germany  | 0.7                         | 0.0 | 1.0   | (0.1) | 0.4   | (0.4) | (0.1) | 0.0   | (0.1) | -   |  |  |  |  |  |
| Italy  | 2.8                         | 0.8 | 0.1   | 1.4   | 0.3   | (0.2) | 0.6   | (0.4) | 0.1   | -   |  |  |  |  |  |
| UK   | 1.7                         | 1.5 | 0.5   | 0.1   | (0.1) | 0.1   | 0.3   | 0.0   | (0.1) | -   |  |  |  |  |  |
| USA  | 0.8                         | 1.7 | (0.5) | (0.1) | 0.7   | 0.6   | 0.6   | 0.5   | 1.2   | 0.8 |  |  |  |  |  |
| Japan  | (0.4)                       | 1.1 | (0.6) | 1.1   | (0.1) | 0.2   | 1.2   | 0.9   | (0.7) | -   |  |  |  |  |  |





## Growth in emerging countries

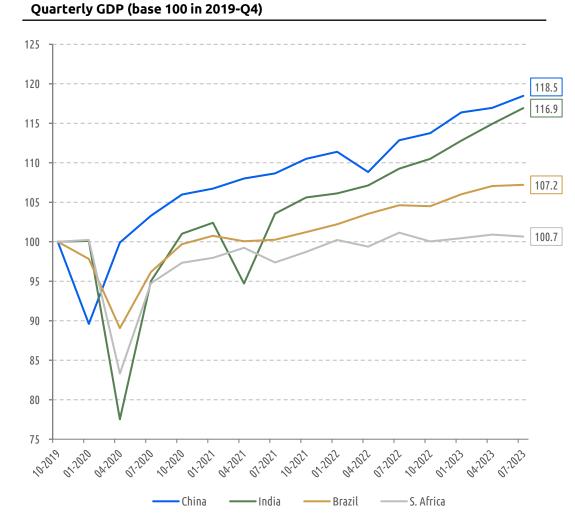
India and China are overperforming the other developing countries in 2023. South Africa has had a particularly low growth. However, the OECD has lifted 2023 and 2024 growth for Brazil and Mexico, but they have revised downwards the growth for the main emerging Asian countries.

## Yearly GDP growth rate (YoY % change)

|           | Yearly GDP growth rate % |      |      |         |         |  |  |  |  |  |  |  |  |  |  |
|-----------|--------------------------|------|------|---------|---------|--|--|--|--|--|--|--|--|--|--|
| Country   | 2020                     | 2021 | 2022 | 2023(E) | 2024(P) |  |  |  |  |  |  |  |  |  |  |
| China     | 2.2                      | 8.4  | 3.0  | 5.2     | 4.5     |  |  |  |  |  |  |  |  |  |  |
| S. Africa | (6.3)                    | 4.9  | 2.0  | 0.1     | 1.8     |  |  |  |  |  |  |  |  |  |  |
| Brazil    | (3.3)                    | 5.0  | 2.9  | 0.9     | 1.5     |  |  |  |  |  |  |  |  |  |  |
| India     | (5.8)                    | 9.1  | 6.8  | 5.9     | 6.3     |  |  |  |  |  |  |  |  |  |  |
| Mexico    | (8.0)                    | 4.7  | 3.1  | 1.8     | 1.6     |  |  |  |  |  |  |  |  |  |  |
| Indonesia | (2.1)                    | 3.7  | 5.3  | 5.0     | 5.1     |  |  |  |  |  |  |  |  |  |  |

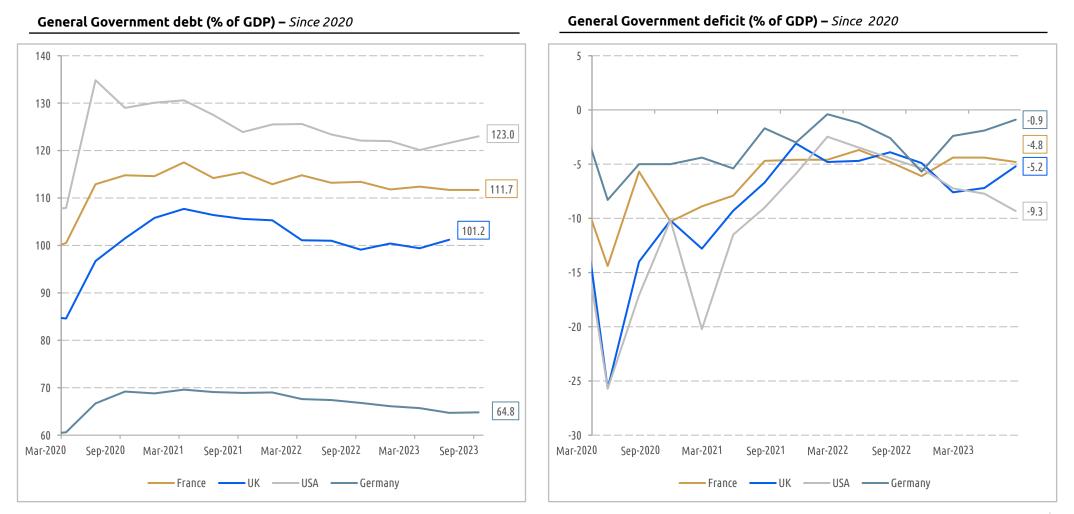
## Quarterly GDP growth rate (% change over the previous period)

|   | Quarterly GDP growth rate % |     |     |       |     |       |     |     |       |  |  |  |  |  |  |
|---|-----------------------------|-----|-----|-------|-----|-------|-----|-----|-------|--|--|--|--|--|--|
| Country 21Q3 21Q4 22Q1 22Q2 22Q3 22Q4 23Q1 23Q2 |                             |     |     |       |     |       |     |     |       |  |  |  |  |  |  |
| China   | 0.6                         | 1.7 | 0.8 | (2.3) | 3.7 | 0.8   | 2.3 | 0.5 | 1.3   |  |  |  |  |  |  |
| S. Africa                                       | (1.9)                       | 1.4 | 1.5 | (0.8) | 1.8 | (1.1) | 0.4 | 0.5 | (0.2) |  |  |  |  |  |  |
| Brazil  | 0.2                         | 1.0 | 1.0 | 1.3   | 1.1 | (0.1) | 1.4 | 1.0 | 0.1   |  |  |  |  |  |  |
| India   | 9.3                         | 2.0 | 0.5 | 0.9   | 2.0 | 1.1   | 2.1 | 1.9 | 1.7   |  |  |  |  |  |  |
| Mexico  | (0.4)                       | 1.1 | 1.6 | 1.0   | 1.2 | 0.7   | 0.6 | 0.9 | 1.1   |  |  |  |  |  |  |
| Indonesia                                       | 0.1                         | 3.2 | 1.0 | 0.9   | 0.8 | 2.3   | 0.8 | 0.9 | 0.8   |  |  |  |  |  |  |



## Government debts have reached a new plateau in G4 countries<sup>1</sup>

Inflation acted as a moderating factor on the evolution on debt ratios. However, deficits are strongly diverging: from 0.9% in Germany to 9.3% in the US.

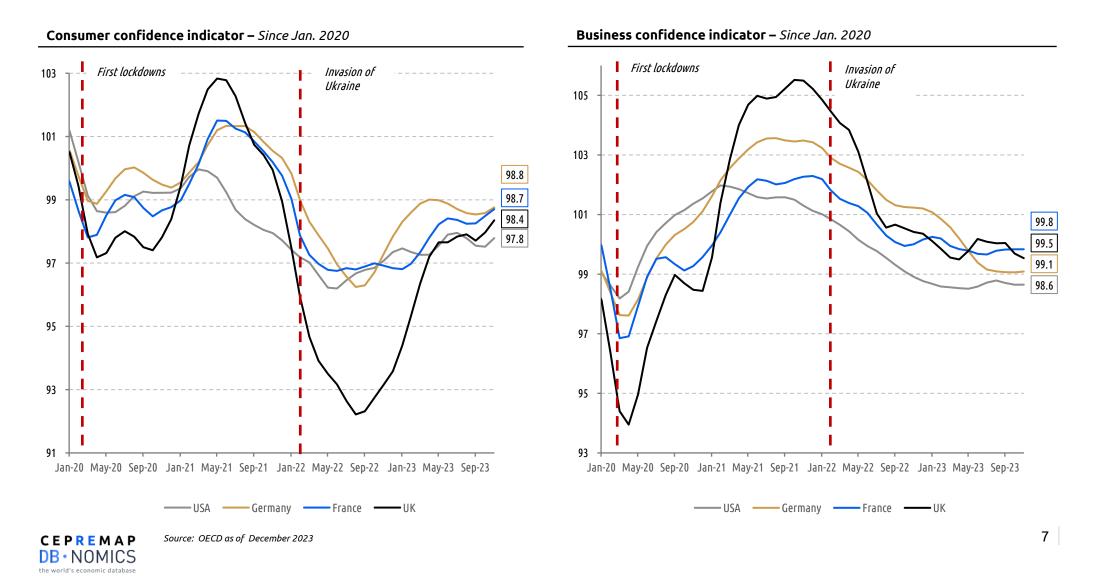




Source: Eurostat, Office of National Statistics, Bureau of Economic Analysis, US Office of Management and Budget Note: (1) G4 includes France, Germany, US and UK

## Consumer and business confidences remain slightly below their pre-covid levels.

France is the only country with an increase in both indicators in November and December.



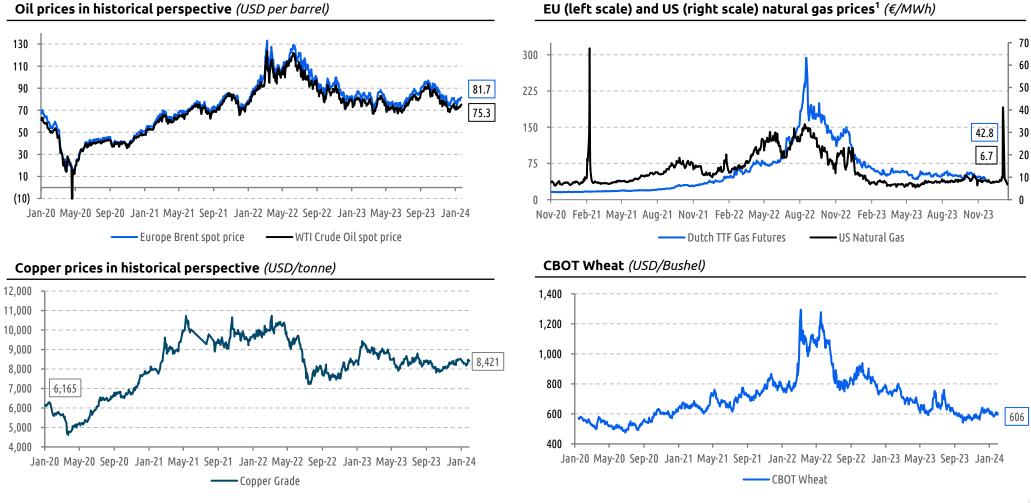


# B The seeds of inflation



# Russian invasion added inflationary pressure. Yet, prices of raw materials have mostly returned to their pre-war range.

Natural-gas prices surged in the US at the beginning of the year as freezing temperatures disrupted operations. But prices came back to a one-to-six difference between the US and Europe. Copper prices have been rather stable while wheat prices have strongly decreased to reach their pre-COVID level.



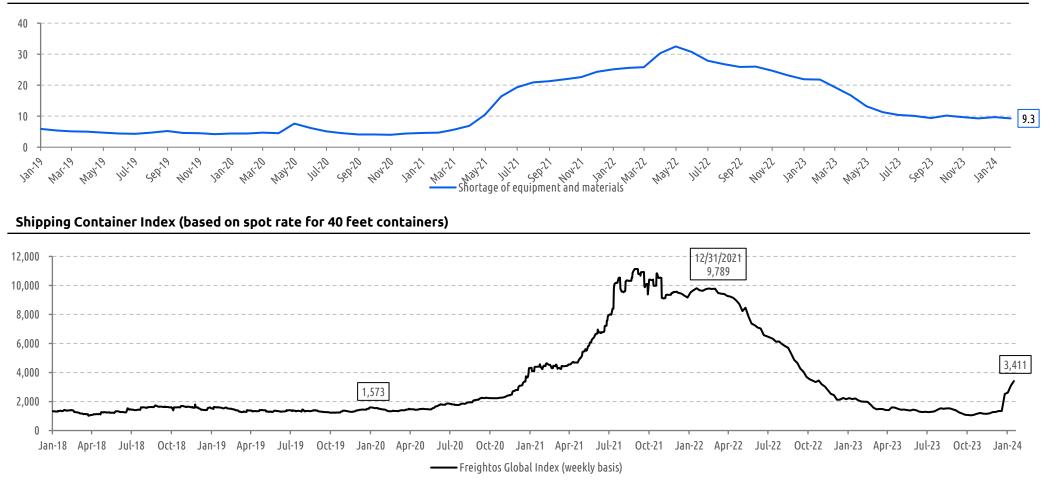
#### **CEPREMAP DB** • NOMICS the world's economic database

Source: Nasdaq, ICE, NYSE as of 31/01/2024 Note: (1) For US prices, conversion from \$/MMBTu → €/MWh

## New supply chain disruptions are appearing in 2024

While transportation costs had returned to their pre-crisis level, they have more than doubled since the beginning of the year because of geopolitical tensions in the Red Sea.

% of EU business in the construction industry reporting shortages of materials and equipment as a limiting production factor

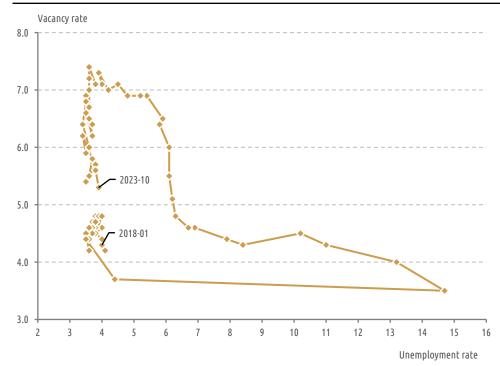




# Labor markets remain tight... (1/2)

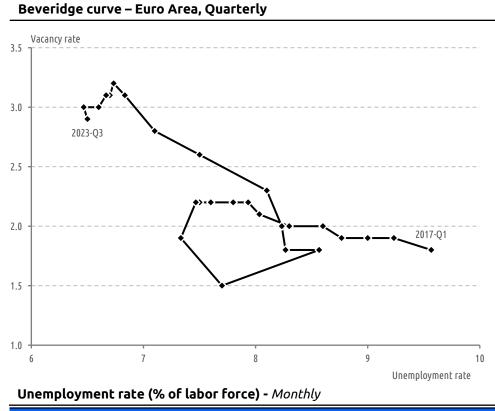
The unemployment rate, both in the US and the EZ, remain at very low levels. In the US, the vacancy/unemployment ratio is falling, getting closer to its pre-covid level.

### Beveridge curve - USA, Monthly



## Unemployment rate (% of labor force) - Monthly

|           | Civilian unemployment rate – Total – USA - Seasonally adjusted |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Indicator | 12-22  | 01-23 | 02-23 | 03-23 | 04-23 | 05-23 | 06-23 | 07-23 | 08-23 | 09-23 | 10-23 | 11-23 |  |  |  |
| Rate      | 3.5  | 3.4   | 3.6   | 3.5   | 3.4   | 3.7   | 3.6   | 3.5   | 3.8   | 3.8   | 3.9   | 3.7   |  |  |  |

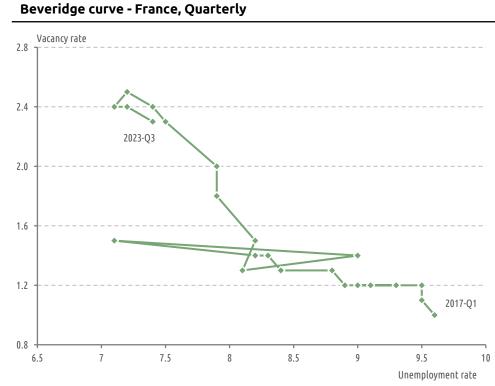


| Unemplo   | Unemployment according to ILO definition - Total – Euro area – Seasonally adjusted |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Indicator | 12-22  | 01-23 | 02-23 | 03-23 | 04-23 | 05-23 | 06-23 | 07-23 | 08-23 | 09-23 | 10-23 | 11-23 |  |  |  |
| Rate      | 6.7  | 6.7   | 6.6   | 6.5   | 6.5   | 6.5   | 6.4   | 6.5   | 6.5   | 6.5   | 6.5   | 6.4   |  |  |  |



# Labor markets remain tight... (2/2)

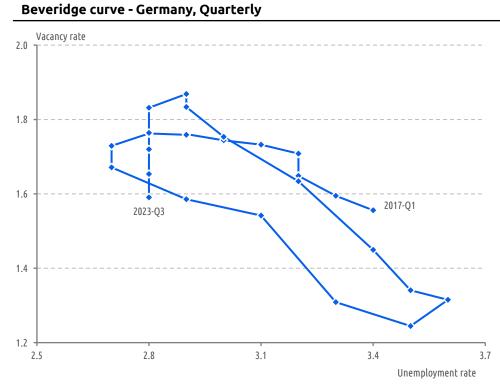
The vacancy/unemployment ratio still at record high levels in France. However, vacancies keep decreasing in Germany.



### Unemployment rate (% of labor force) – Monthly (Eurostat)

|           | Unemployment rate – Total – France- Seasonally adjusted |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|-----------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Indicator | 12-22   | 01-23 | 02-23 | 03-23 | 04-23 | 05-23 | 06-23 | 07-23 | 08-23 | 09-23 | 10-23 | 11-23 |  |  |  |
| Rate      | 7.2   | 7.1   | 7.1   | 7.1   | 7.2   | 7.3   | 7.3   | 7.4   | 7.4   | 7.3   | 7.3   | 7.3   |  |  |  |



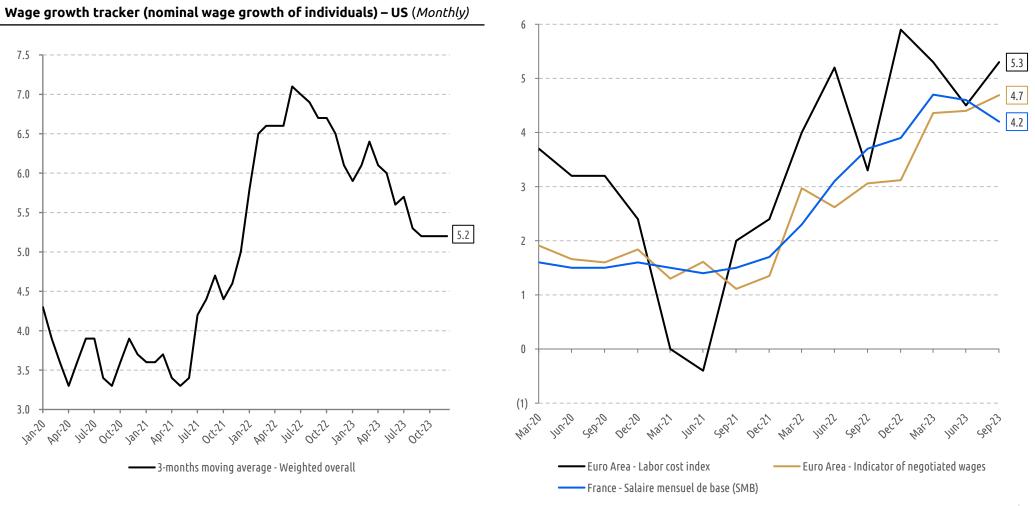


### Unemployment rate (% of labor force) - Monthly

| Unemplo   | Unemployment according to ILO definition - Total – Germany – Seasonally adjusted |       |       |       |       |       |       |       |       |       |       |       |  |  |  |
|-----------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| Indicator | 12-22  | 01-23 | 02-23 | 03-23 | 04-23 | 05-23 | 06-23 | 07-23 | 08-23 | 09-23 | 10-23 | 11-23 |  |  |  |
| Rate      | 3.0  | 3.0   | 2.9   | 2.9   | 2.9   | 3.0   | 3.0   | 3.0   | 3.0   | 3.1   | 3.1   | 3.1   |  |  |  |

## The verdict on wage inflation in 2023, both in the US and the EZ, is still open

Wage inflation is stabilizing at a high level in the US. It increased in the third quarter for the Euro Area as a whole, however, it decreased for France.







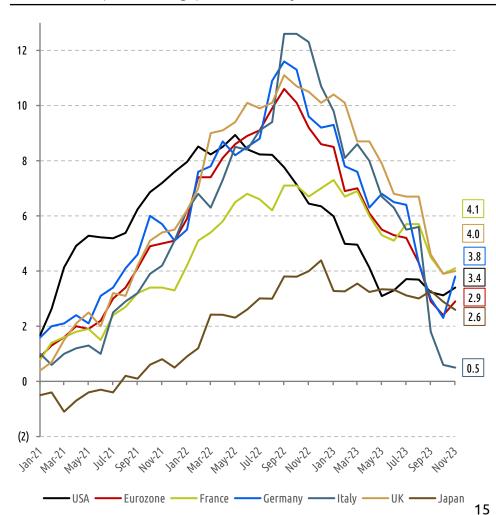
# C Inflation unbound



## Inflation is coming down from its peak both in Europe and the US

After the huge drop in October and November, headline inflation rose in the Euro Area in December to reach 2.9% because of the high increase in Germany from 2.3% to 3.8%. It was above 4% for France but as low as 0.5% in Italy. Inflation remains above 3% in the US. Core inflation is at high levels for most countries.

CPI and core inflation in advanced economies (YoY % change) Monthly Year-on-Year inflation rates (%) - 2022/2023 Jul Aug Sep Oct Nov Dec Country Feb Mar | Apr | May | Jun US 6.0 5.0 3.3 3.7 3.7 3.2 3.1 3.4 5.0 4.1 3.1 US core 5.5 5.6 5.3 4.0 4.0 3.9 5.5 4.9 4.7 4.4 4.1 Euro Area\* 69 7.0 61 5.5 5.3 5.2 4.3 2.9 2.4 8.5 2.9 Euro Area core\* 5.3 5.5 5.5 5.3 4.2 3.6 5.6 5.7 5.6 4.5 3.4 France\* 7.3 6.0 5.3 5.1 5.7 5.7 4.5 3.9 4.1 6.7 6.9 France core\* 3.5 2.9 4.6 4.6 4.7 4.4 4.4 4.3 4.0 3.6 2.9 France INSEE 3.5 6.3 5.7 5.9 5.1 4.5 4.3 4.9 4.9 4.0 3.7 France core INSEE 6.1 6.2 6.3 5.8 5.7 5.0 4.6 4.6 4.2 3.6 3.4 Germany\* 7.8 6.8 3.0 2.3 3.8 9.3 7.6 6.3 6.5 6.4 4.3 Germany core\* 5.4 5.9 5.6 5.1 6.1 6.2 6.3 4.8 4.2 3.5 3.4 Italy\* 6.3 5.5 5.6 1.8 0.6 0.5 9.8 8.1 8.6 8.0 6.7 Italy core\* 5.3 5.5 5.3 5.1 4.9 4.7 4.0 4.1 3.8 3.3 3.0 UK 6.8 3.9 4.0 10.4 10.1 8.7 8.7 7.9 6.7 6.7 4.6 UK соге 6.2 6.2 6.8 7.1 6.9 6.9 6.2 6.1 5.7 5.1 5.1 Japan 3.3 3.2 3.3 3.3 3.1 3.0 3.3 2.9 2.6 3.3 3.5 Japan core 3.4 3.7 4.1 4.2 4.3 4.3 4.3 4.3 4.0 3.8 3.7



CPI Inflation (YoY % change) - since February 2021

CEPREMAP Notes: \* Harmonized measures

## Inflation in emerging economies is slowly cooling but remains at high levels

China remains an extraordinary exception, it has been in deflation for the last three months.

| CPI inflat      | ion in | adva   | nced   | econo  | omies   | (YoY  | % cha | nge)  |      |       |       |       |
|-----------------|--------|--------|--------|--------|---------|-------|-------|-------|------|-------|-------|-------|
|                 | Моп    | thly Y | ′еаг-о | on-Yea | ar infl | ation | rates | (%) – | 2022 | /2023 |       |       |
| Country         | Jan    | Feb    | Маг    | Арг    | May     | Jun   | Jul   | Aug   | Sep  | Oct   | Nov   | Dec   |
| China           | 2.1    | 1.0    | 0.7    | 0.1    | 0.2     | 0.0   | (0.3) | 0.1   | 0.0  | (0.2) | (0.5) | (0.3) |
| India           | 6.2    | 6.2    | 5.8    | 5.1    | 4.4     | 5.6   | 7.5   | 6.9   | 4.7  | 4.5   | 5.0   | -     |
| South<br>Africa | 7.2    | 7.3    | 7.3    | 7.1    | 6.6     | 5.7   | 4.8   | 4.8   | 5.5  | 6.1   | 5.6   | 5.2   |
| Brazil          | 5.8    | 5.6    | 4.7    | 4.2    | 3.9     | 3.2   | 4.0   | 4.6   | 5.2  | 4.8   | 4.7   | 4.6   |
| Mexico          | 7.9    | 7.6    | 6.8    | 6.3    | 5.8     | 5.1   | 4.8   | 4.6   | 4.5  | 4.3   | 4.3   | 4.7   |
| Indonesia       | 5.3    | 5.5    | 5.0    | 4.3    | 4.0     | 3.5   | 3.1   | 3.3   | 2.3  | 2.6   | 2.9   | 2.6   |
|                 |        |        |        |        |         |       |       |       |      |       |       |       |

## Source: OECD

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 NOMICS the world's economic database

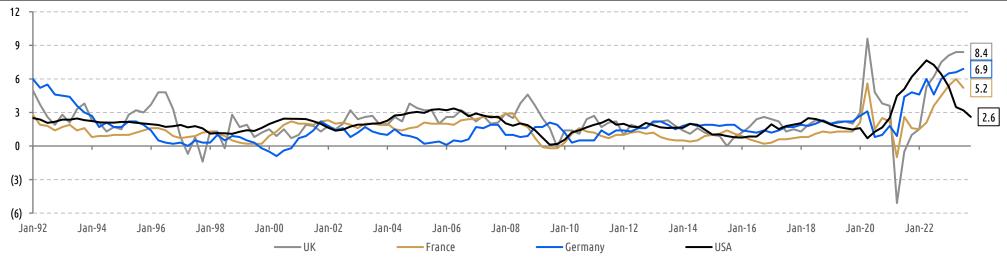
## Implied GDP deflators remain at high levels in Europe

## In the US, however, it is lower than headline inflation levels.

## Quarterly implied GDP deflator

| Implied GDP deflator (YoY % change) – Since Q1-2021 |       |       |       |       |       |       |       |       |  |  |  |  |  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|
| Country   | Q1-22 | Q2-22 | Q3-22 | Q4-22 | Q1-23 | Q2-23 | Q3-23 | Q4-23 |  |  |  |  |  |
| USA   | 6.9   | 7.7   | 7.3   | 6.4   | 5.3   | 3.5   | 3.2   | 2.6   |  |  |  |  |  |
| Germany   | 4.6   | 6.0   | 4.6   | 6.0   | 6.5   | 6.6   | 6.9   | -     |  |  |  |  |  |
| France  | 1.5   | 2.1   | 3.6   | 4.5   | 5.4   | 6.0   | 5.2   | -     |  |  |  |  |  |
| υκ  | 1.5   | 5.3   | 6.2   | 7.5   | 8.1   | 8.4   | 8.4   | -     |  |  |  |  |  |

## Quarterly implied GDP deflator – Since Q1-1992







## II Monetary policy





# A In the US



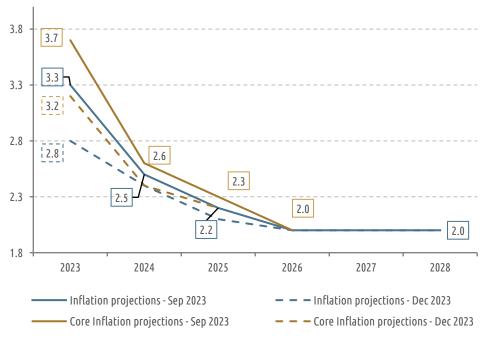
## Monetary policy decisions from the Fed (1/2)

The Fed decided to maintain interest rates at their levels in January as they consider that inflation remains at too high levels while labor-market is slowly cooling. President Powell explained that they expect to cut rates at some point in 2024 but are willing to maintain them at their high level for as long as necessary.

Personal consumption expenditures (PCE) – Monthly (YoY % change)

| Price indexes for Personal Consumption Expenditures |       |       |       |       |       |       |       |  |  |  |  |  |  |
|---|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
| Indicator   | 06-23 | 07-23 | 08-23 | 09-23 | 10-23 | 11-23 | 12-23 |  |  |  |  |  |  |
| PCE inflation                                       | 3.2   | 3.3   | 3.3   | 3.4   | 2.9   | 2.6   | 2.6   |  |  |  |  |  |  |

## PCE Inflation Projections as of December 2023 (%)



### **Key considerations**

- The target range of the federal fund rates was maintained at 5.25%-5.50% on January 31<sup>st</sup>.
- The decision comes after already three pauses in September, November and December. Interest rates are at their highest levels since 2001.
- In December, the Fed revised up GDP growth for 2023 from 2.1% to 2.6% and the inflation down from 3.3% to 2.8%.
- Next meeting will be on March 19<sup>th</sup>. The key issue is whether a first cut will occur.

| Federal Reserve economic projections as of 13th December 2023 |      |      |      |            |  |  |  |
|---|------|------|------|------------|--|--|--|
| Indicator   | 2023 | 2024 | 2025 | Longer run |  |  |  |
| Change in real GDP  | 2.6  | 1.4  | 1.8  | 1.8        |  |  |  |
| Unemployment rate   | 3.8  | 4.1  | 4.1  | 4.1        |  |  |  |
| Inflation   | 2.8  | 2.4  | 2.1  | 2.0        |  |  |  |
| Federal funds rate  | 5.4  | 4.6  | 3.6  | 2.5        |  |  |  |

""The Committee judges that the risks to achieving its employment and inflation goals are moving into better balance."

JEROME POWELL, PRESS CONFERENCE, JANUARY 31<sup>ST</sup>, 2024



## Monetary policy decisions from the Fed (2/2)

The Federal Reserve's so-called dot plot shows the median year-end projection for the federal fund rates. The estimates in December are lower than the previous ones in September. It notably implies that Fed members consider that three 25-bps cuts will occur in 2024.

FOMC participants' assessments of appropriate monetary policy: Midpoint of target range or target level for the federal funds rate as of 13<sup>th</sup> December

| 6.50 |             |         |              |            |
|------|-------------|---------|--------------|------------|
| 6.25 |             |         |              |            |
| 6.00 |             |         |              |            |
| 5.75 |             |         |              |            |
| 5.50 |             |         |              |            |
| 5.25 | • •         | •       |              |            |
| 5.00 | •           |         |              |            |
| 4.75 | ••••        |         | •            |            |
| 4.50 | • • • • • • |         |              |            |
| 4.25 | • • • •     | •       |              |            |
|      |             | •       |              |            |
| 4.00 | •           | • • • • |              |            |
| 3.75 |             | • • •   | •            |            |
| 3.50 |             |         | •            | •••••      |
| 3.25 |             | • •     | • • • •      |            |
| 3.00 |             | •       |              |            |
| 2.75 |             | •       | • • • •      |            |
| 2.50 |             |         | •••••••••••• |            |
| 2.25 |             |         | • • •        |            |
| 2.00 |             |         |              |            |
| 1.75 |             |         |              |            |
| 1.50 |             |         |              |            |
| 1.25 |             |         |              |            |
| 1.00 |             |         |              |            |
| 0.75 |             |         |              |            |
| 0.50 |             |         |              |            |
| 0.25 |             |         |              |            |
|      |             |         |              |            |
| 0.00 |             |         |              |            |
|      | 2024        | 2025    | 2026         | Longer run |

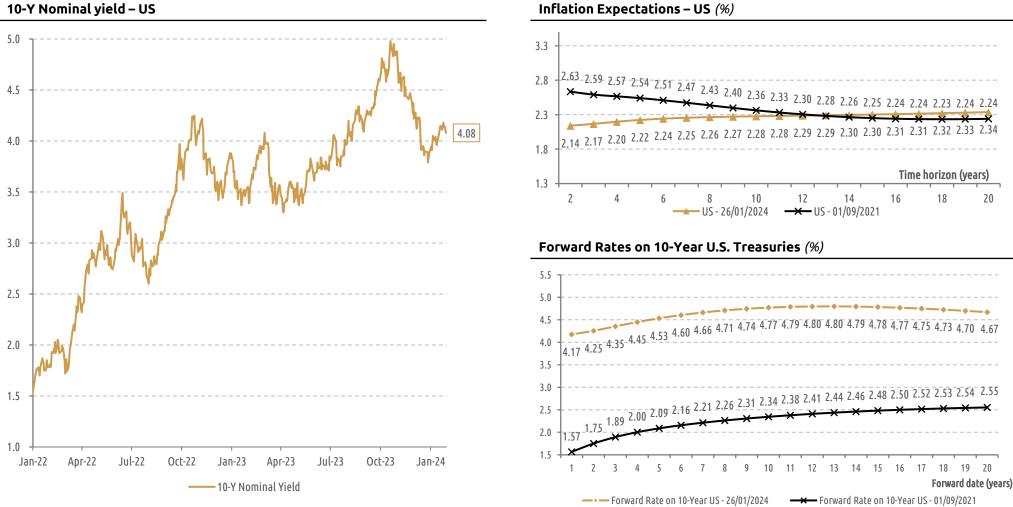


#### Source: Fed as of 13/12/2023

Note: Each shaded circle indicates the value (rounded to the nearest 1/8 percentage point) of an individual participant's judgment of the midpoint of the appropriate target range for the federal funds rate or the appropriate target level for the federal funds rate at the end of the specified calendar year or over the longer run. One participant did not submit longer-run projections for the federal funds funds rate.

# Nominal long-term rates are at high levels but have been decreasing for the last couple of months.

Real rate however are expected to stay around 2% in real terms



**CEPREMAP** Source: Fed as of 31/01/2024, Internal calculations Note: Inflation expectations are derived from US

DB • NOMICS

te: Inflation expectations are derived from US indexed bonds (TIPS) and US nominal bonds

## The US yield curve has been inverted for almost two years

## It has, however, been getting closer to zero over the last few months.

U.S. 10Yr/2Yr Spread – Since Jan. 1978



- Spread between 10Y & 2Y UST — — Average



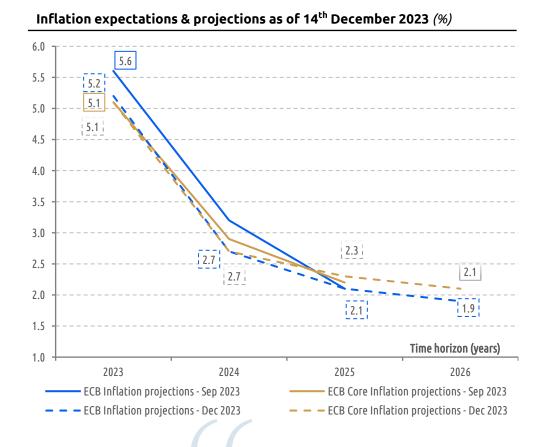


## B In the Euro Area



## The ECB decided to keep its interest rates unchanged in its January meeting

President Lagarde explained that growth hindered at the end of 2023 and that the economy is currently showing signs of weakness. However, the ECB expects growth to pick-up soon while inflation would further decrease in 2024.



## **Key considerations**

- The Governing Council decided to maintain the three key ECB interest rates at their current value, as in November and December, after continuous hikes for more than 18 months.
- Looking ahead, ECB staff have slightly revised their inflation projections down in December. Headline inflation is now expected to average 5.4% in 2023 while core inflation should reach 5.0%.
- The benchmark deposit rate is now set at 4%, coming from minus 0.5% a year and a half ago. It is its highest level since 2000.
- The next meeting is set on March 7<sup>th</sup> The ECB hinted that the interest rate will probably remain unchanged.

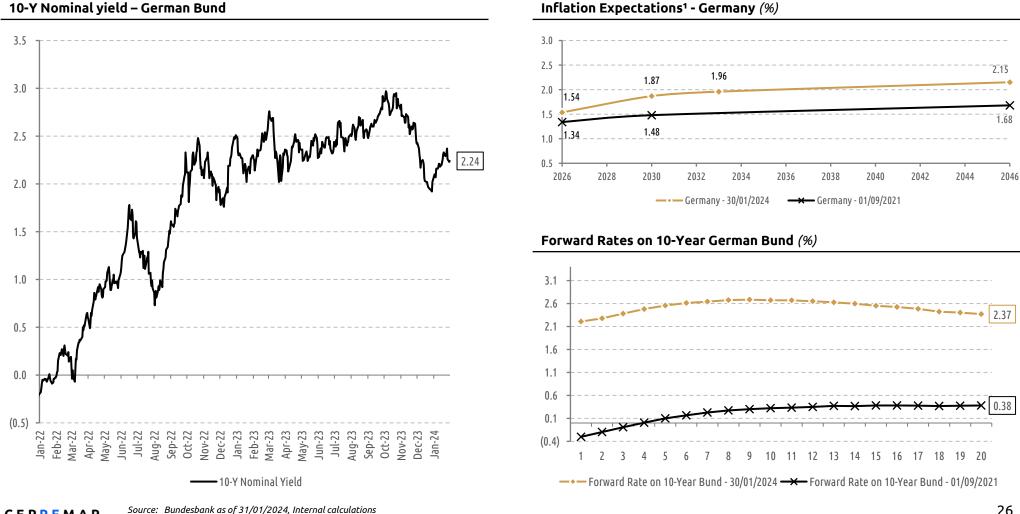
| ECB economic projections as of 14 December 2023 |      |      |      |      |  |  |  |  |
|---|------|------|------|------|--|--|--|--|
| Indicator                                       | 2023 | 2024 | 2025 | 2026 |  |  |  |  |
| Change in real GDP                              | 0.7  | 0.8  | 1.5  | 1.5  |  |  |  |  |
| Unemployment rate                               | 6.5  | 6.6  | 6.5  | 6.4  |  |  |  |  |
| Inflation                                       | 5.2  | 2.7  | 2.1  | 1.9  |  |  |  |  |

"Aside from an energy-related upward base effect on headline inflation, declining trend in underlying inflation has continued, and past interest rate increases keep being transmitted forcefully into financing conditions.."



## In the Eurozone, nominal rates have been decreasing over the last six months following the fall of inflation

Expected real rates, however, are near zero in the longer run.



Inflation expectations are derived from German indexed bonds and German nominal bonds

10-Y Nominal yield – German Bund

CEPREMAP

NOM the world's economic database Note:

B IN THE EURO AREA

Bund 2Yr/10Yr Spread – Since Jan 1998

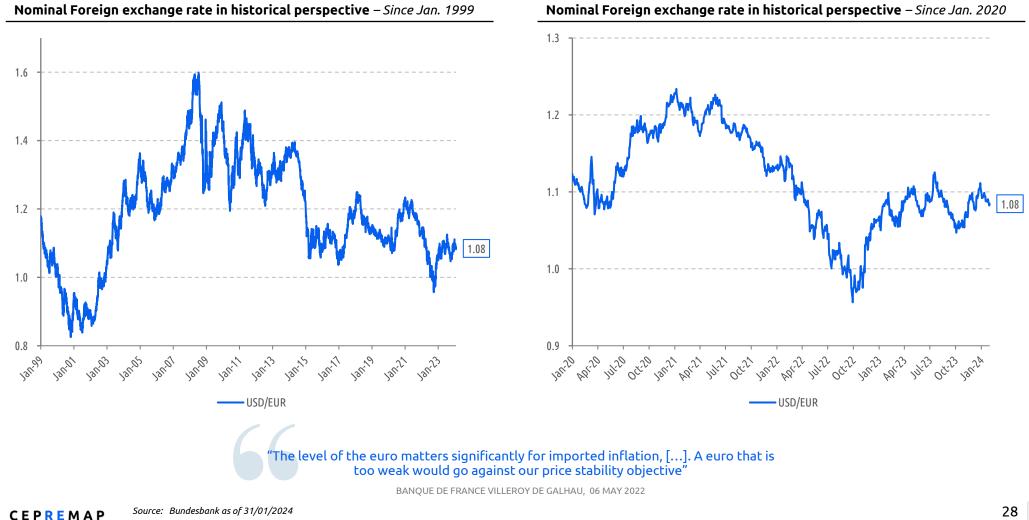
# The German yield curve is inverted for the first time since 2008, reflecting risk of recession/sluggish growth

In bps 250 200 150 100 50 0 (50) (100)Jan-98 Jan-99 Jan-00 Jan-01 Jan-02 Jan-03 Jan-04 Jan-05 Jan-06 Jan-07 Jan-08 Jan-09 Jan-10 Jan-11 Jan-12 Jan-13 Jan-14 Jan-15 Jan-16 Jan-17 Jan-18 Jan-19 Jan-20 Jan-21 Jan-22 Jan-23 Jan-24

—— Spread between 10Y & 2Y Bund —— —— Average

the world's economic database

## After an appreciation at the end of 2022, the Euro has been rather stable in 2023.



NOM the world's economic database



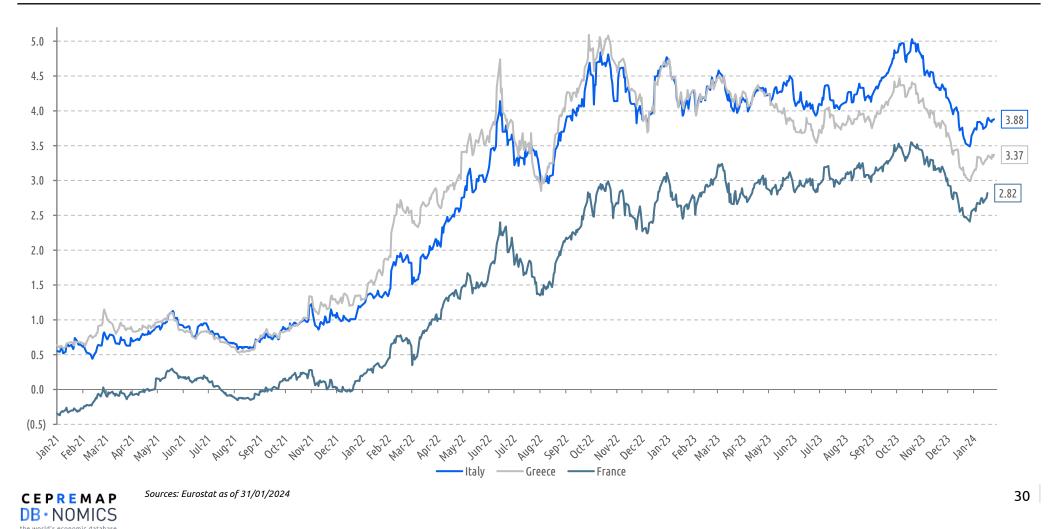
# III Impact on yields and spreads



## In Europe, sovereign yields remain at particularly high levels

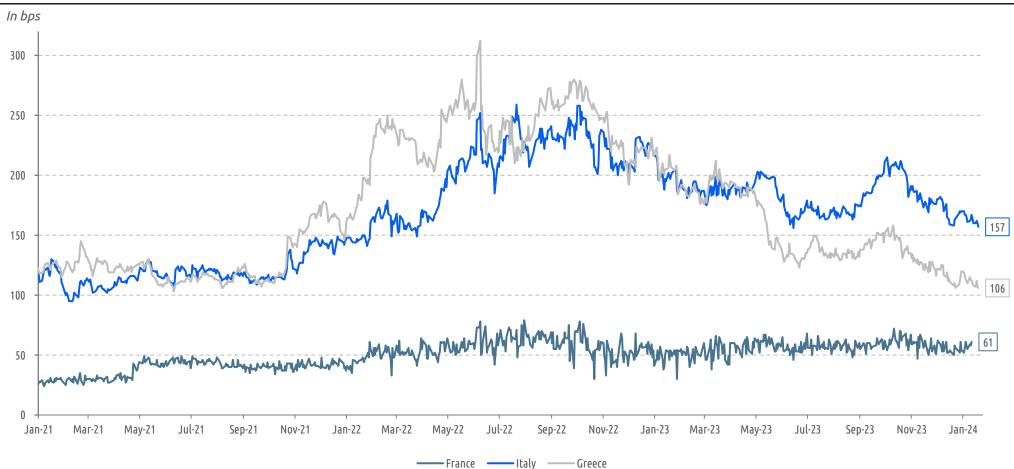
## Despite their strong decrease in the second semester of 2023.

Italian, Greek and French 10-Y yields – Since Jan. 2021



# Tensions on spreads have moderately eased off for the periphery since their peak late 2022

Tensions remain high in Italy where spreads are now higher than in Greece, notably due to fears over larger-than-expected public deficits.



Italian, Greek and French spreads over 10Y German bund – Since Jan. 2021



# High yield corporate bond spreads have been decreasing in the last few months both in the US and the Euro Area.

They reached their lowest levels since the beginning of 2022.



High yield corporate bond spreads – Since 2000

High yield corporate bond spreads – Since 2022





Note: High yield corporate bond spreads include BB-rated and lower corporate bonds



# IV Impact on stock markets



# Stock-market indices strongly increased during the last couple of months, except for the Shanghai Composite

The Shanghai composite keeps decreasing, now being 22% lower than its pre-war level. US indices are at similar levels than at the beginning of 2022 while the Eurostoxx is 10% above.

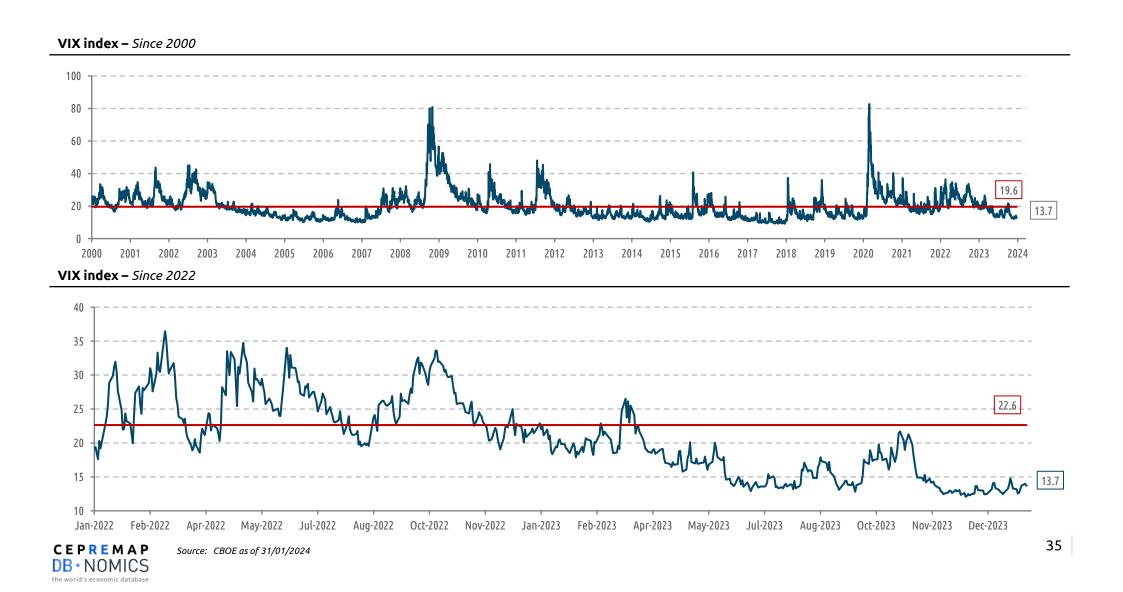
115 110 110.0 105 103.3 100 99.1 95 90 85 80 77.8 75 70 65 60 01/01/2022 102/2022 21/03/2022 01/07/2022 01/08/2022 01/11/2022 01/12/2022 01/02/2023 01/03/2023 01/04/2023 01/01/2024 01/09/2022 01/10/2022 01/01/2023 01/10/2023 01/11/2023 01/12/2023 01/05/2023 01/06/2023 01/09/2023 01/07/202: 01/08/202 -Shanghai Composite Eurostoxx 50 Nasdag Composite

Nasdaq Composite, S&P 500, Shanghai Composite and Eurostoxx 50 indices – Jan. 2022 = 100

Sources: Boursorama, S&P Dow Jones as of 31/01/2024

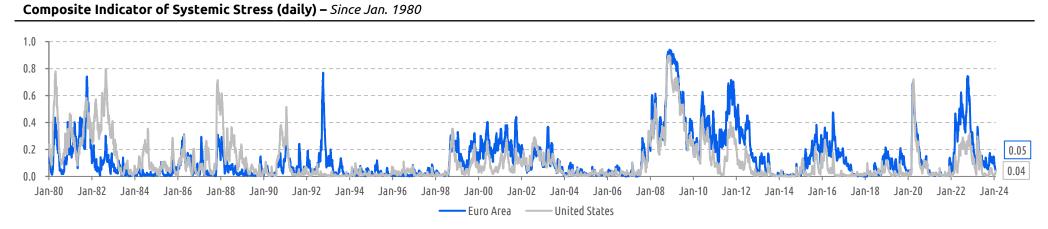


## Volatility on US financial markets has fallen below its historical average level

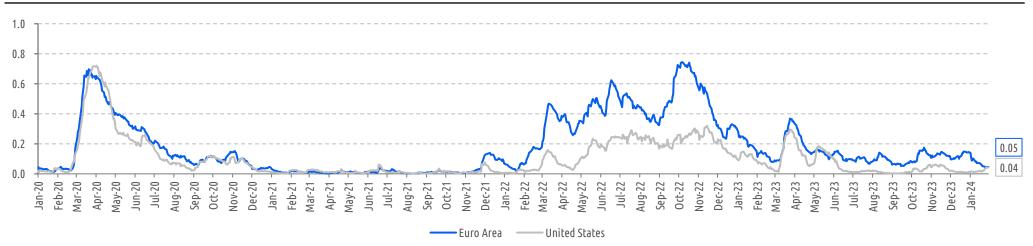


## Financial stress indicators returned to pre-war levels

### The index, however, is higher in Europe.



#### Composite Indicator of Systemic Stress (daily) - Since Jan. 2020



Source: ECB as of 31/01/2024 CEPREMAP

DB

• NOMI the world's economic database

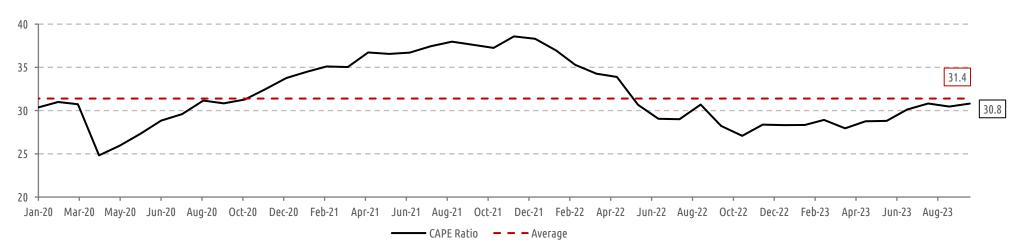
# US Shiller Cyclically Adjusted Price to Earnings ratio (CAPE ratio)<sup>1</sup>

Shiller CAPE ratio remains at record high level in historical perspective and back to its pre-covid level.

45 36 30.8 30.8 30.8 17.5 1900 1903 1907 1911 1915 1919 1923 1926 1930 1934 1938 1942 1946 1949 1953 1957 1961 1965 1969 1972 1976 1980 1984 1988 1992 1995 1999 2003 2007 2011 2015 2018 2022 CAPE Ratio --- Average

Cyclically Adjusted Price Earnings ratio – Since 1900

Cyclically Adjusted Price Earnings ratio – Since 2020





Note: CAPE divide current prices to 10Y average of earnings (adjusted for inflation)

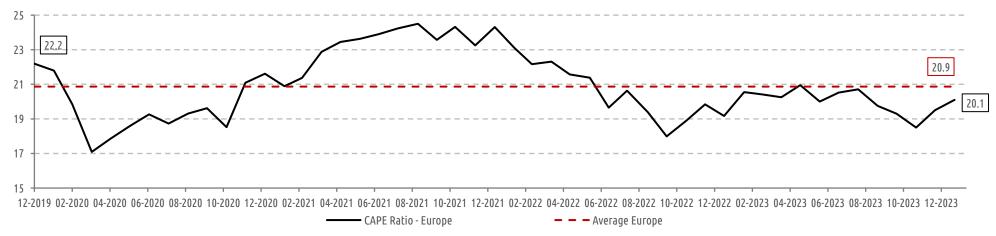
# Shiller CAPE ratio in Europe

Shiller CAPE ratio is still close to its pre-Covid level and to its historical average in Europe.





Cyclically Adjusted Price Earnings ratio – Since 2020



MACROECONOMIC OUTLOOK - FEBRUARY 2023



# V Appendix



| Page # | Graph / Table   | Web link                             |
|--------|---|--------------------------------------|
| 4      | Quarterly GDP growth (% change over the previous period) – Germany      | OECD/KEI/NAEXKP01.DEU.GP.Q           |
| 4      | Quarterly GDP growth (% change over the previous period) – Eurozone     | OECD/KEI/NAEXKP01.EA19.GP.Q          |
| 4      | Quarterly GDP growth (% change over the previous period) – France       | OECD/KEI/NAEXKP01.FRA.GP.Q           |
| 4      | Quarterly GDP growth (% change over the previous period) – UK           | OECD/KEI/NAEXKP01.GBR.GP.Q           |
| 4      | Quarterly GDP growth (% change over the previous period) – Italy        | OECD/KEI/NAEXKP01.ITA.GP.Q           |
| 4      | Quarterly GDP growth (% change over the previous period) – Japan        | OECD/KEI/NAEXKP01.JPN.GP.Q           |
| 4      | Quarterly GDP growth (% change over the previous period) – US           | OECD/KEI/NAEXKP01.USA.GP.Q           |
| 5      | Quarterly GDP growth (% change over the previous period) – China        | OECD/DP_LIVE/CHN.QGDP.TOT.PC_CHGPP.Q |
| 5      | Quarterly GDP growth (% change over the previous period) – Brazil       | OECD/KEI/NAEXKP01.BRA.GP.Q           |
| 5      | Quarterly GDP growth (% change over the previous period) – Mexico       | OECD/KEI/NAEXKP01.MEX.GP.Q           |
| 5      | Quarterly GDP growth (% change over the previous period) – South Africa | OECD/KEI/NAEXKP01.ZAF.GP.Q           |
| 5      | Quarterly GDP growth (% change over the previous period) – Indonesia    | OECD/KEI/NAEXKP01.IDN.GP.Q           |
| 5      | Quarterly GDP growth (% change over the previous period) – India        | OECD/KEI/NAEXKP01.IND.GP.Q           |

| Page # | Graph / Table                               | Web link                                   |
|--------|---|--|
| 6      | General government debt - Germany           | Eurostat/gov_10q_ggdebt/Q.GD.S13.PC_GDP.DE |
| 6      | General government debt – France            | Eurostat/gov_10q_ggdebt/Q.GD.S13.PC_GDP.FR |
| 6      | General government debt – United Kingdom    | ONS/EDP1/YEQJ.Q                            |
| 6      | General government deficit – United States  | BEA/NIPA-T30100/AD01RC-Q                   |
| 6      | General government deficit – Germany        | Eurostat/teina205/Q.B9.S13.PC_GDP_SCA.DE   |
| 6      | General government deficit – France         | Eurostat/teina205/Q.B9.S13.PC_GDP_SCA.FR   |
| 6      | General government deficit – United Kingdom | ONS/UKEA/CT8O.Q                            |
| 7      | Consumer confidence index – United States   | OECD/MEI_CLI/CSCICP03.USA.M                |
| 7      | Consumer confidence index – Germany         | OECD/MEI_CLI/CSCICP03.DEU.M                |
| 7      | Consumer confidence index – France          | OECD/MEI_CLI/CSCICP03.FRA.M                |
| 7      | Consumer confidence index – United Kingdom  | OECD/MEI_CLI/CSCICP03.GBR.M                |
| 7      | Business confidence index – United States   | OECD/MEI CLI/BSCICP03.USA.M                |
| 7      | Business confidence index – Germany         | OECD/MEI_CLI/BSCICP03.DEU.M                |
| 7      | Business confidence index – France          | OECD/MEI_CLI/BSCICP03.FRA.M                |
| 7      | Business confidence index – United Kingdom  | OECD/MEI_CLI/BSCICP03.GBR.M                |

| Page # | Graph / Table  | Web link   |
|--------|--|--|
| 9      | Natural Gas (Dutch TTF) prices in historical perspective (€/MWh)   | ICE/DUTCH_TTF_GAS_FUTURES/D.5614690  |
| 10     | % of EU business reporting shortages of materials and equipment in the construction industry as a limiting production factor | EC/CONSTRUCTION/TOT.2.F5S.EU.M   |
| 11     | Beveridge curve – Euro Area (Q1-17 – Q2-22), Quarterly   | OECD/MEI/EA20.LRHUTTTT.STSA.Q<br>Eurostat/jvs_q_nace2/Q.NSA.B-S.TOTAL.JOBRATE.EA19   |
| 11     | Beveridge curve – United States (Q1-17 – Q2-22), Monthly   | <u>BLS/ln/LNS14000000</u><br>BLS/jt/JTS000000000000JOR   |
| 11     | Unemployment according to ILO definition - Total – Euro area – Seasonally<br>adjusted, Monthly                               | Eurostat/ei_lmhr_m/M.PC_ACT.SA.LM-UN-T-TOT.EA20  |
| 12     | Beveridge curve - France, Quarterly  | <u>Eurostat/jvs_q_nace2/Q.NSA.B-S.GE10.JOBRATE.FR</u><br>INSEE/CHOMAGE-TRIM-NATIONAL/T.CTTXC.TAUX.FR-D976.0.00-<br>.POURCENT.CVS.FALSE |
| 12     | Beveridge curve - Germany, Quarterly   | Eurostat/jvs_q_nace2/Q.NSA.B-S.GE10.JOBRATE.DE<br>DESTATIS/81000BV001/DG.BV4SB.ERW089  |
| 12     | Unemployment according to ILO definition - Total – France – Seasonally<br>adjusted, Monthly                                  | Eurostat/une_rt_m/M.SA.TOTAL.PC_ACT.T.FR   |
| 12     | Unemployment according to ILO definition - Total – Germany – Seasonally<br>adjusted, Monthly                                 | Eurostat/une_rt_m/M.SA.TOTAL.PC_ACT.T.DE   |
| 13     | Wage growth tracker – France (Quarterly)   | INSEE/ICT-2016/T.BDM_EUR.ICT.A21-BTN.INDICE.SSE.FE.SO.CVS-CJO.2016   |



| Page # | Graph / Table                                 | Web link   |
|--------|---|--|
| 15     | CPI Inflation (YoY % change) – United States  | BLS/cu/CUSR0000SA0<br>BLS/cu/CUSR0000SA0L1E  |
| 15     | CPI Inflation (YoY % change) – Eurozone       | <u>Eurostat/prc_hicp_manr/M.RCH_A.CP00.EA</u><br>Eurostat/prc_hicp_manr/M.RCH_A.TOT_X_NRG_FOOD.EA  |
| 15     | CPI Inflation (YoY % change) – France         | <u>Eurostat/prc_hicp_manr/M.RCH_A.CP00.FR</u><br>Eurostat/prc_hicp_manr/M.RCH_A.TOT_X_NRG_FOOD.FR  |
| 15     | CPI Inflation (YoY % change) – France INSEE   | <u>INSEE/IPC-</u><br>2015/M.IPC.SO.SO.4035.GLISSEMENT_ANNUEL.ENSEMBLE.FE.POURCENT.BRUT.SO.FALSE<br>INSEE/IPC-2015/M.ISJ.SO.SO.4035.GLISSEMENT_ANNUEL.ENSEMBLE.FM.POURCENT.CVS-<br><u>FISC.SO.FALSE</u> |
| 15     | CPI Inflation (YoY % change) – Germany        | <u>Eurostat/prc_hicp_manr/M.RCH_A.CP00.DE</u><br>Eurostat/prc_hicp_manr/M.RCH_A.TOT_X_NRG_FOOD.DE  |
| 15     | CPI Inflation (YoY % change) – Italy          | <u>Eurostat/prc_hicp_manr/M.RCH_A.CP00.IT</u><br>Eurostat/prc_hicp_manr/M.RCH_A.TOT_X_NRG_FOOD.IT  |
| 15     | CPI Inflation (YoY % change) – United Kingdom | <u>ONS/MM23/D7G7.M</u><br><u>ONS/MM23/DKO8.M</u>   |
| 15     | CPI Inflation (YoY % change) – Japan          | STATJP/CPIm/001<br>STATJP/CPIm/740   |
| 16     | CPI Inflation (YoY % change) – South Africa   | OECD/KEI/CPALTT01.ZAF.GY.M   |
| 16     | CPI Inflation (YoY % change) - Brazil         | OECD/KEI/CPALTT01.BRA.GY.M   |
| 16     | CPI Inflation (YoY % change) – China          | OECD/KEI/CPALTT01.CHN.GY.M   |
| 16     | CPI Inflation (YoY % change) – Indonesia      | OECD/KEI/CPALTT01.IDN.GY.M   |
| 16     | CPI Inflation (YoY % change) – India          | OECD/KEI/CPALTT01.IND.GY.M   |
| 16     | CPI Inflation (YoY % change) – Mexico         | OECD/KEI/CPALTT01.MEX.GY.M   |



| Page # | Graph / Table                                   | Web link   |
|--------|---|--|
| 17     | Quarterly implied GDP deflator – France         | Eurostat/namq 10 gdp/Q.PD PCH SM NAC.SCA.B1GQ.DE           |
| 17     | Quarterly implied GDP deflator – France         | Eurostat/namg 10 gdp/Q.PD PCH SM NAC.SCA.B1GQ.FR           |
| 17     | Quarterly implied GDP deflator - United Kingdom | <u>ONS/QNA/IHYU.Q</u>                                      |
| 17     | Quarterly implied GDP deflator - United States  | BEA/NIPA-BEA/NIPA-T10109/A191RD-Q/A191RD-Q                 |
| 20     | Personal consumption expenditures (PCE)         | BEA/NIPA-T20804/DPCERG-M                                   |
| 23     | 10-Y Nominal yield – US                         | FED/H15/RIFLGFCY10_N.B                                     |
| 24     | Yield curve – US                                | FED/H15/RIFLGFCM03_N.B                                     |
| 27     | 10-Y Nominal yield – German Bund                | BUBA/BBK01/WT1010  |
| 27     | Inflation Expectations - Germany                | BUBA/BBSSY/D.KCP.EUR.A607.DE0001102523.A                   |
| 27     | Forward Rates on 10-Year German Bund            | BUBA/BBSIS/D.I.ZAR.ZI.EUR.S1311.B.A604.R10XX.R.A.A. Z. Z.A |
| 27     | Yield curve – Germany                           | BUBA/BBSSY/D.KCP.EUR.A607.DE0001102523.A                   |

| Page # | Graph / Table  | Web link                           |
|--------|--|------------------------------------|
| 28     | Nominal Foreign exchange rate in historical perspective        | BUBA/BBEX3/D.USD.EUR.BB.AC.000     |
| 30     | Italian10-Y yield  | Eurostat/irt_lt_mcby_d/D.MCBY.IT   |
| 30     | Greek 10-Y yield   | Eurostat/irt lt mcby d/D.MCBY.EL   |
| 30     | French 10-Y yield  | Eurostat/irt_lt_mcby_d/D.MCBY.FR   |
| 30     | German 10-Y yield  | Eurostat/irt_lt_mcby_d/D.MCBY.DE   |
| 36     | Composite Indicator of Systemic Stress (daily) – Euro Area     | ECB/CISS/D.U2.Z0Z.4F.EC.SS_CIN.IDX |
| 36     | Composite Indicator of Systemic Stress (daily) – United States | ECB/CISS/D.US.Z0Z.4F.EC.SS_CIN.IDX |

