

2024 Spring Meetings

# Economic Outlook and Agenda BC#

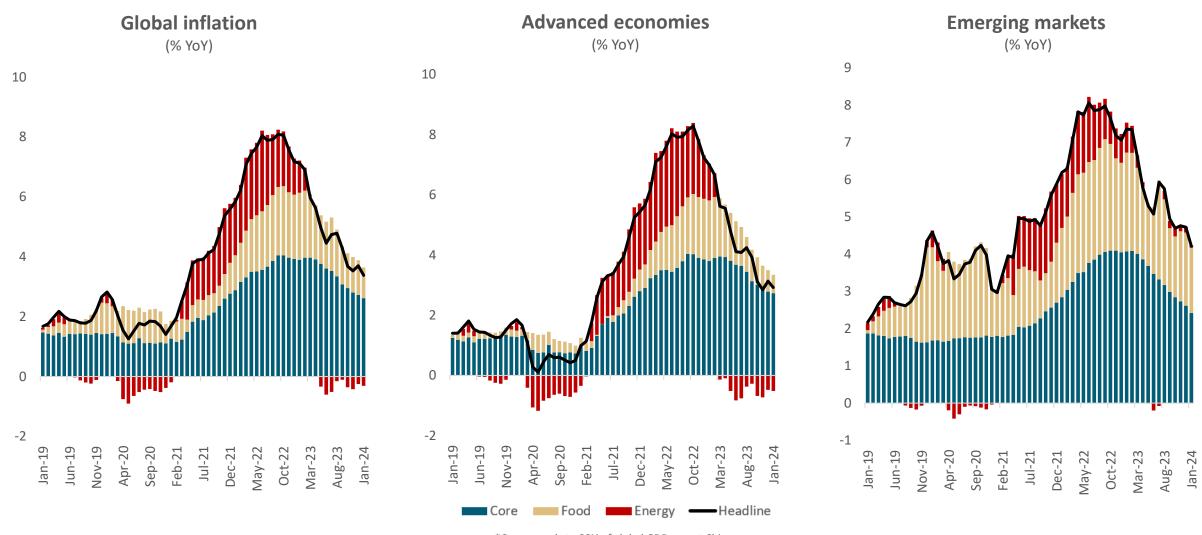
Roberto Campos Neto

Governor of the Banco Central do Brasil

## **Global inflation**



Decline in global inflation remains, but with debates about the speed of disinflation in many countries.

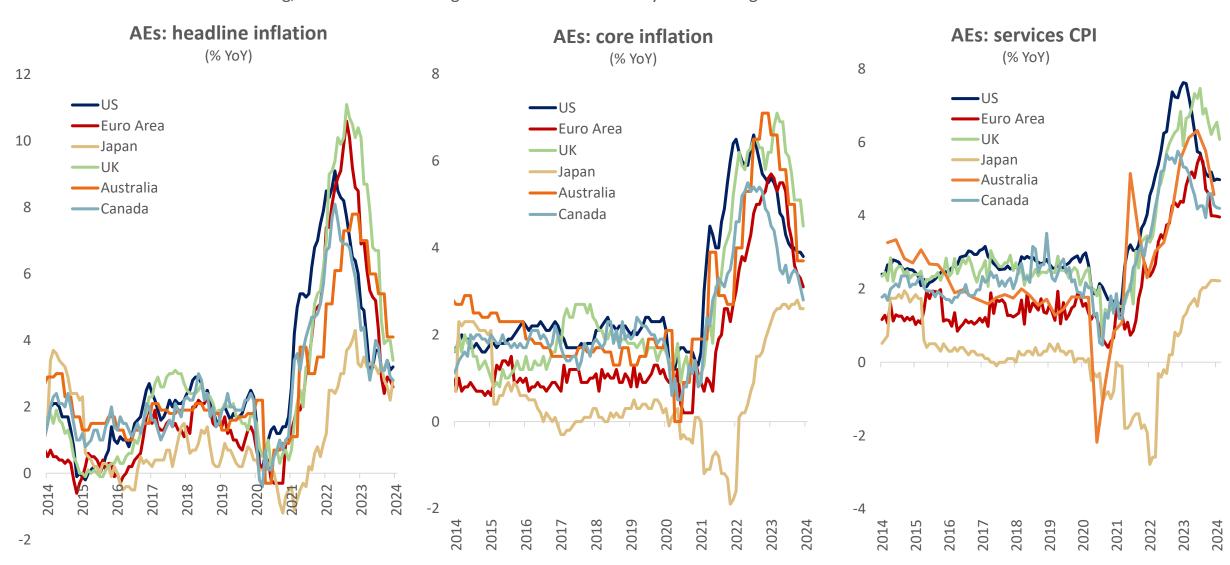


Source: Bloomberg.

## **AEs: inflation**



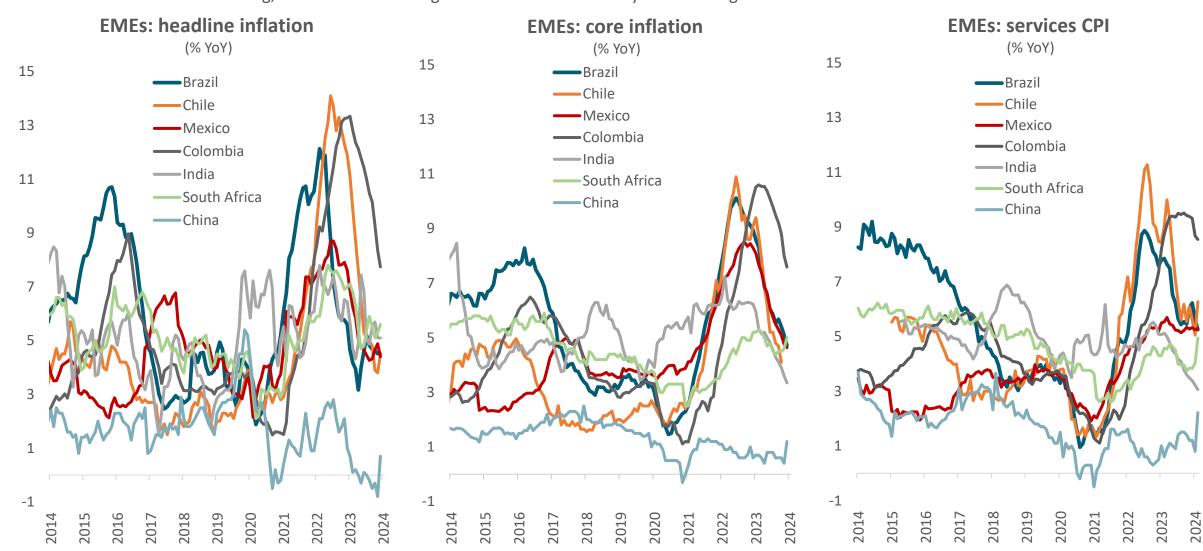
Core inflation remains declining, but levels are still high. Services inflation slowly decelerating.



## **EMEs: inflation**



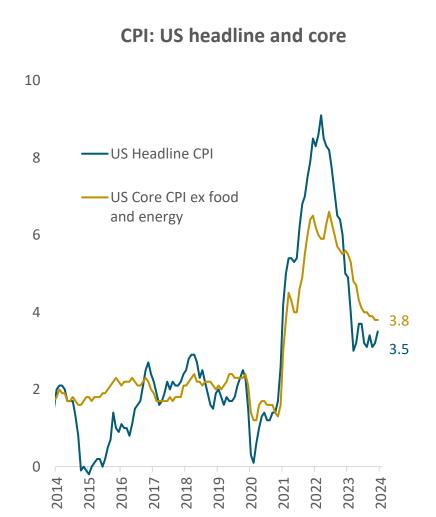
Core inflation remains declining, but levels are still high. Services inflation slowly decelerating.

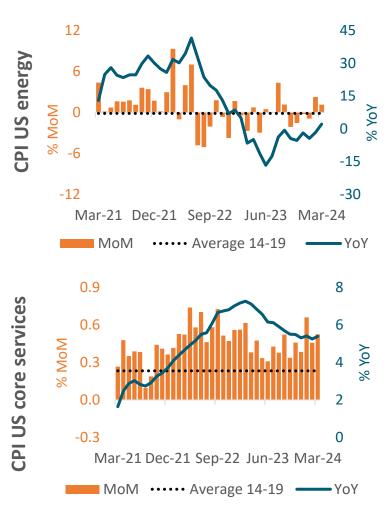


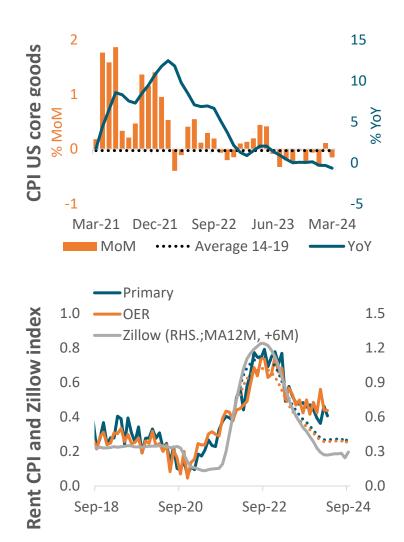
## **US: inflation**



Core inflation continues with gradual deceleration. Services inflation remains resilient.





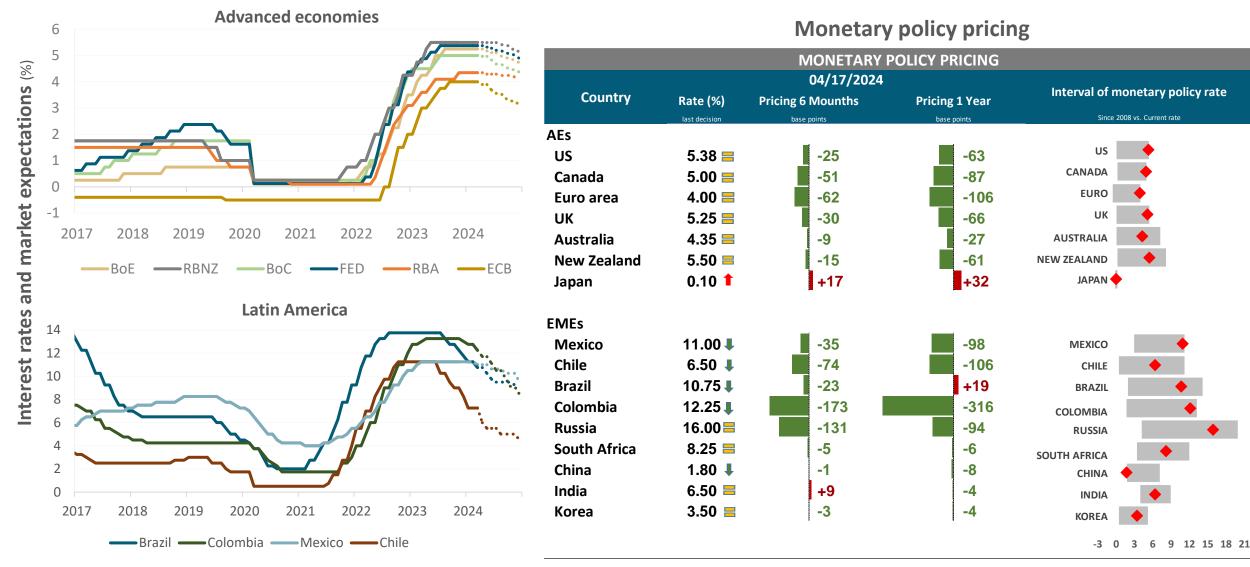


Dotted lines: Estimate (OLS CPI vs Zillow (+6M;MA12M))

## **Monetary policy**



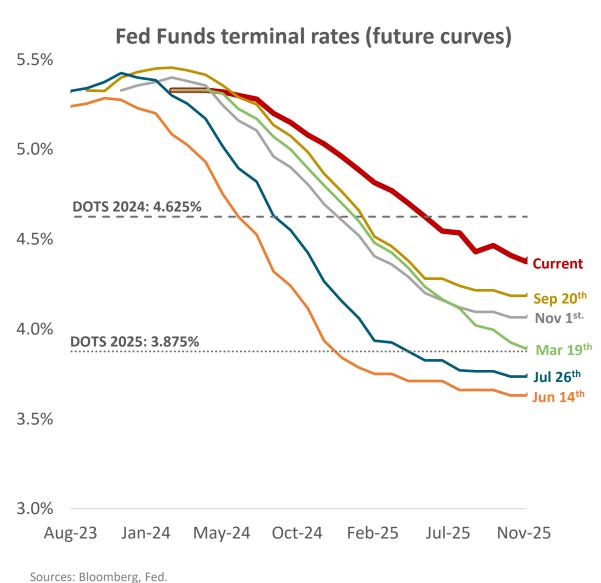
The global environment remains volatile, with debates about the beginning of the easing cycle in major economies.

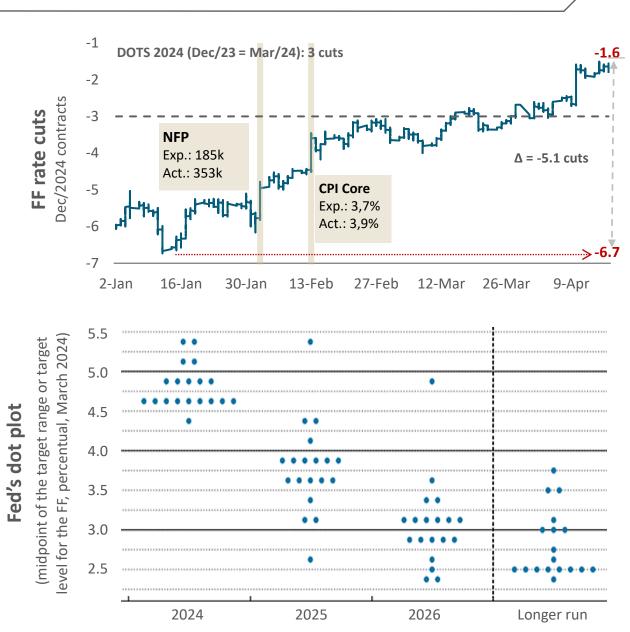


## **US:** monetary policy



Fed funds rate kept between 5.25%-5.5% at March meeting, as expected.

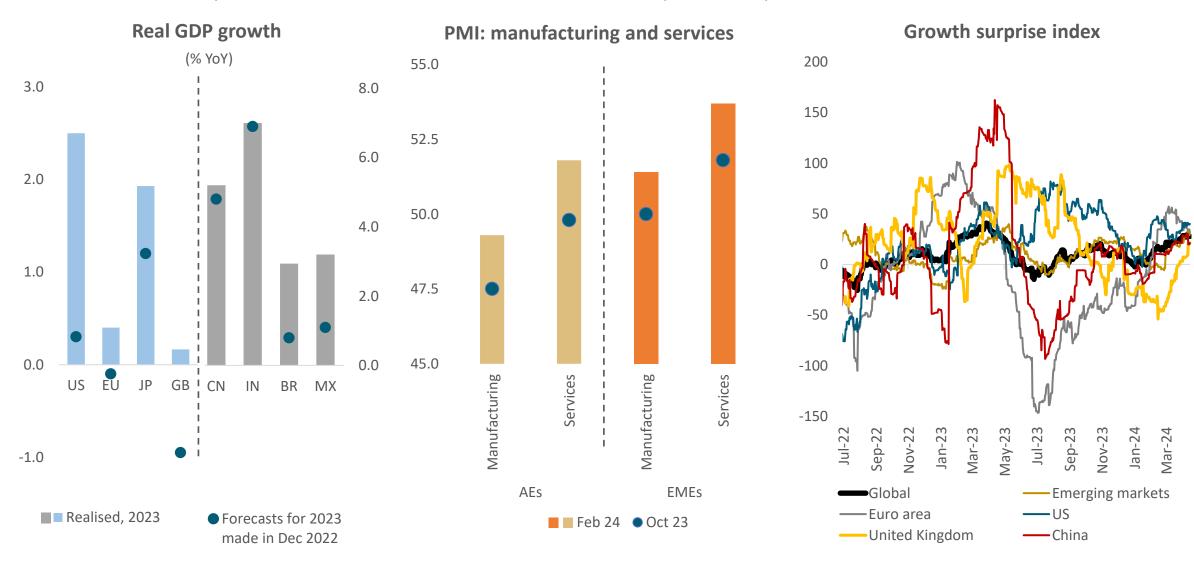




## Global economic activity

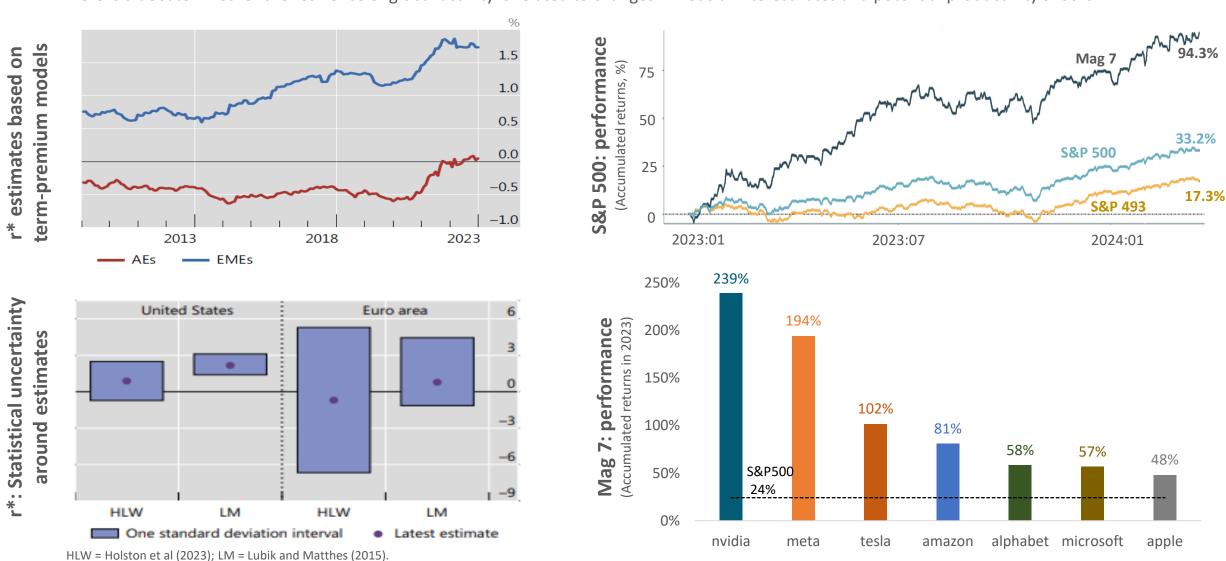


Global economic activity has been resilient. Recent economic data continues to surprise to the upside.



## Global economic activity

There is a debate whether the resilience of global activity is related to changes in neutral interest rates and potential productivity shocks.

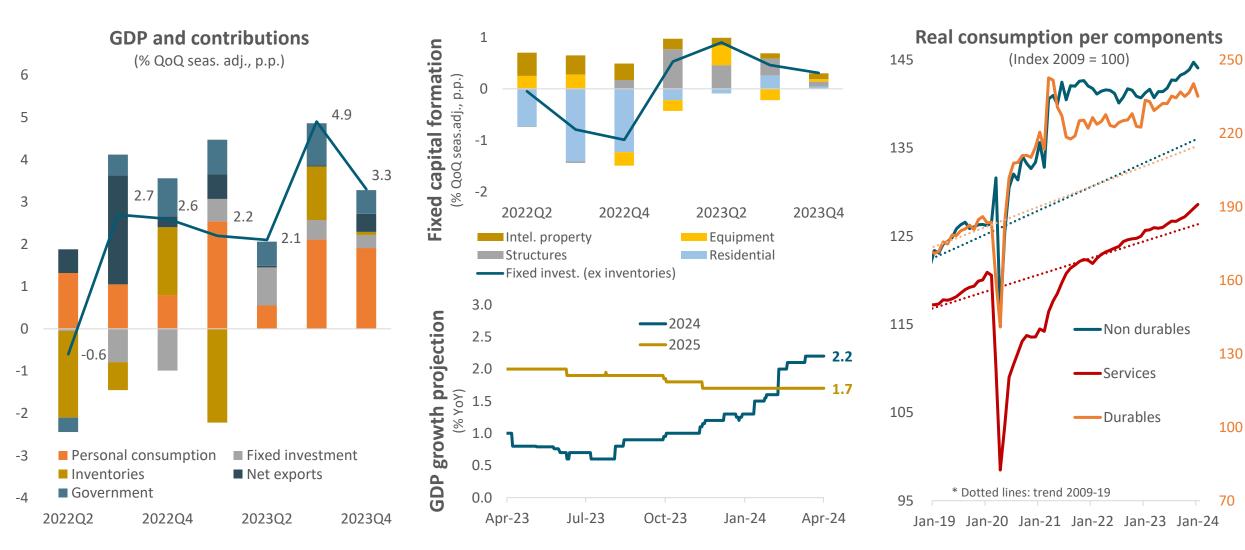


Fontes: Bloomberg, Benigno, G. et al., Quo vadis, r\*? The natural rate of interest after the pandemic, 2024.

## **US:** economic activity



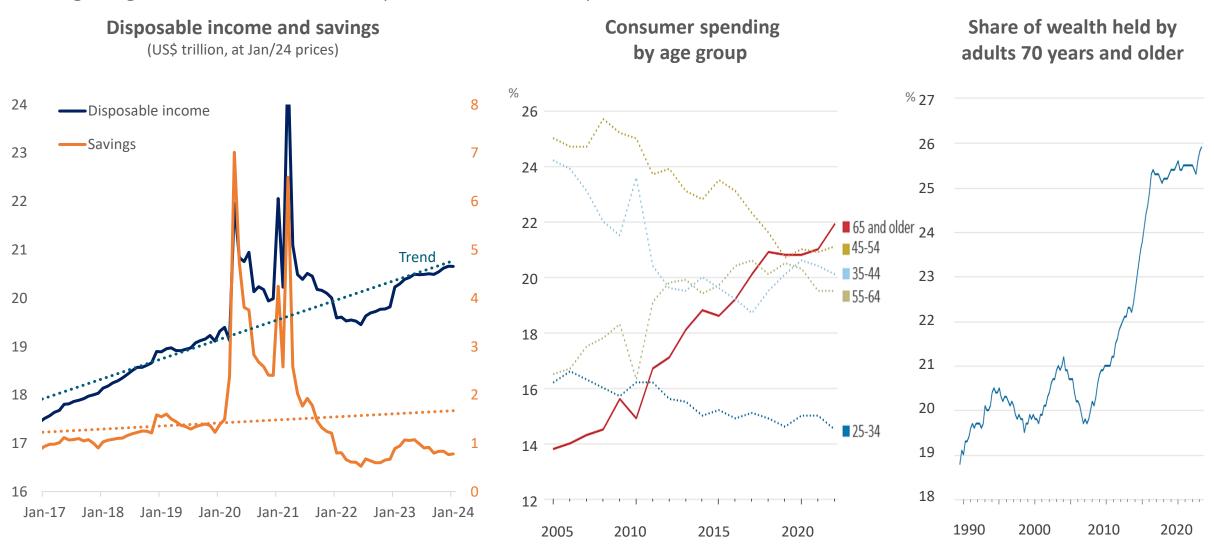
Economic activity has been resilient, supported mainly by consumption. Investments impacted by contractionary pressures.



## **US:** economic activity



Savings and generational effects have been important drivers for consumption.

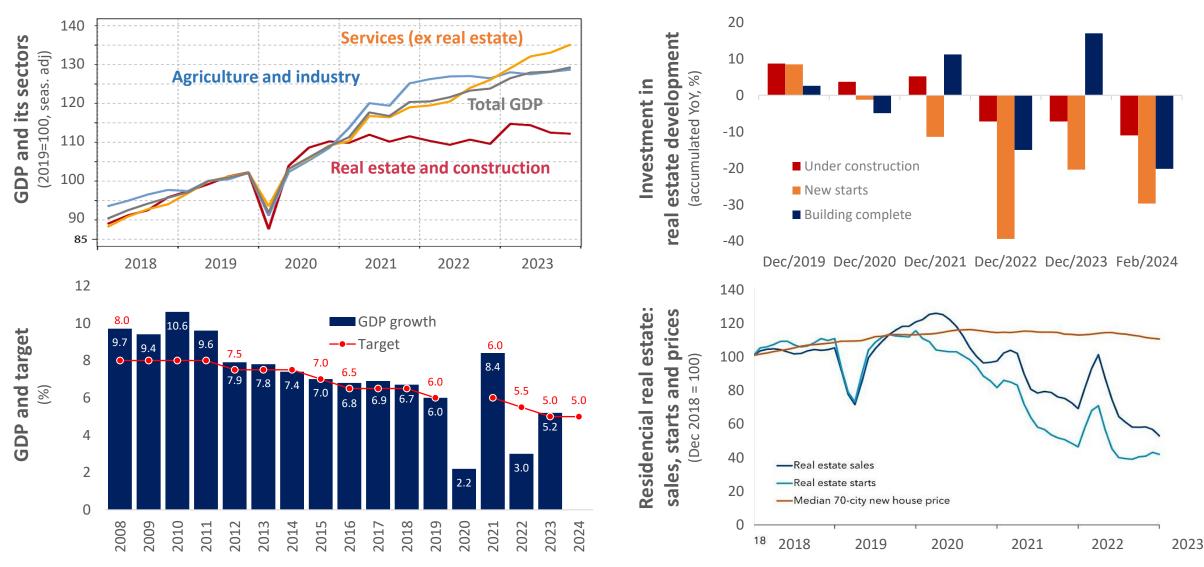


Sources: Bloomberg, Refinitiv, Liberty Street Economics, WSJ, Labor Department, Survey of Consumer Expectations.

## China: economic activity



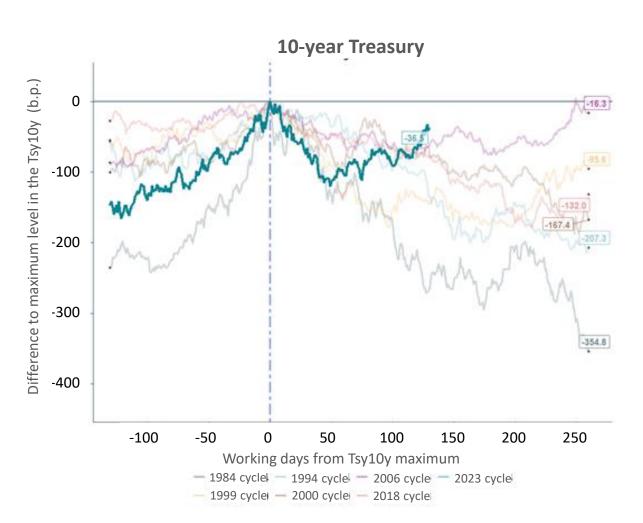
Real estate and construction sectors still affect negatively China's economic performance.

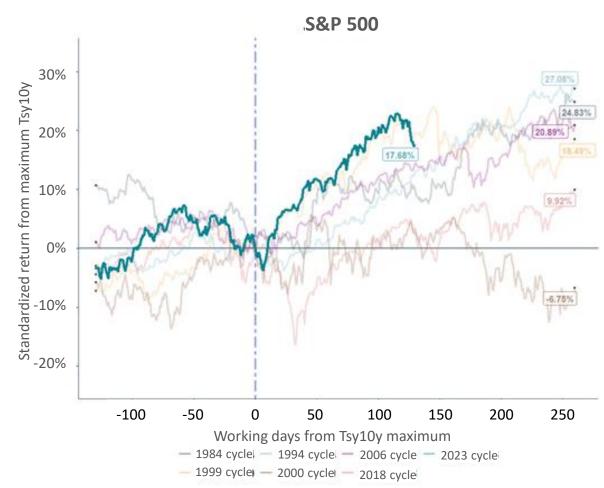


## **US:** financial markets



Stock market at highest, despite increases in yields.

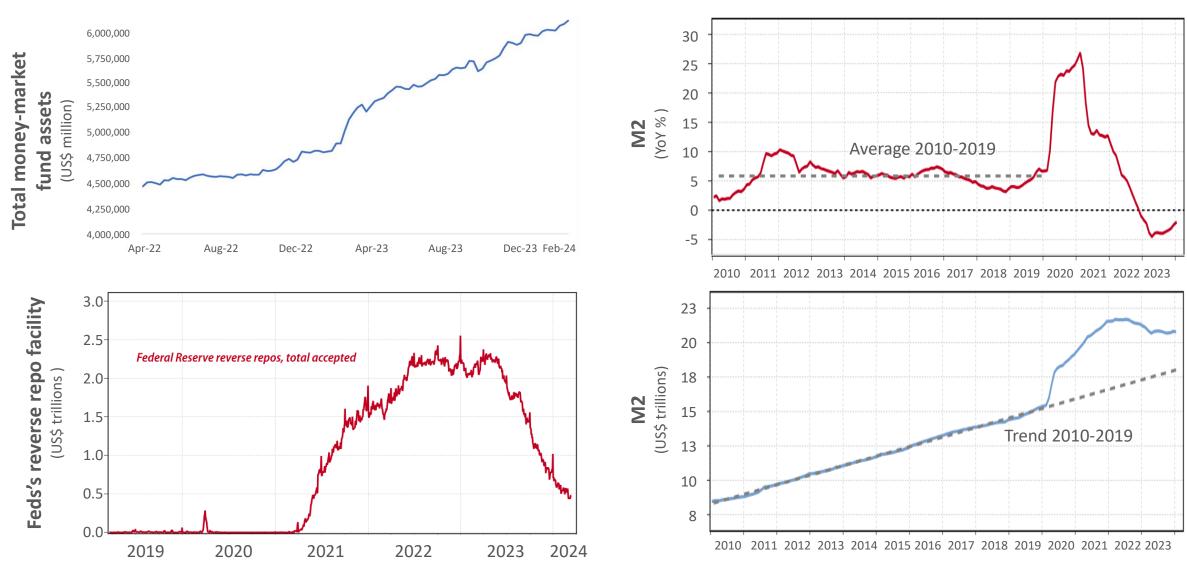




Source: Gavekal.

## **US:** money markets

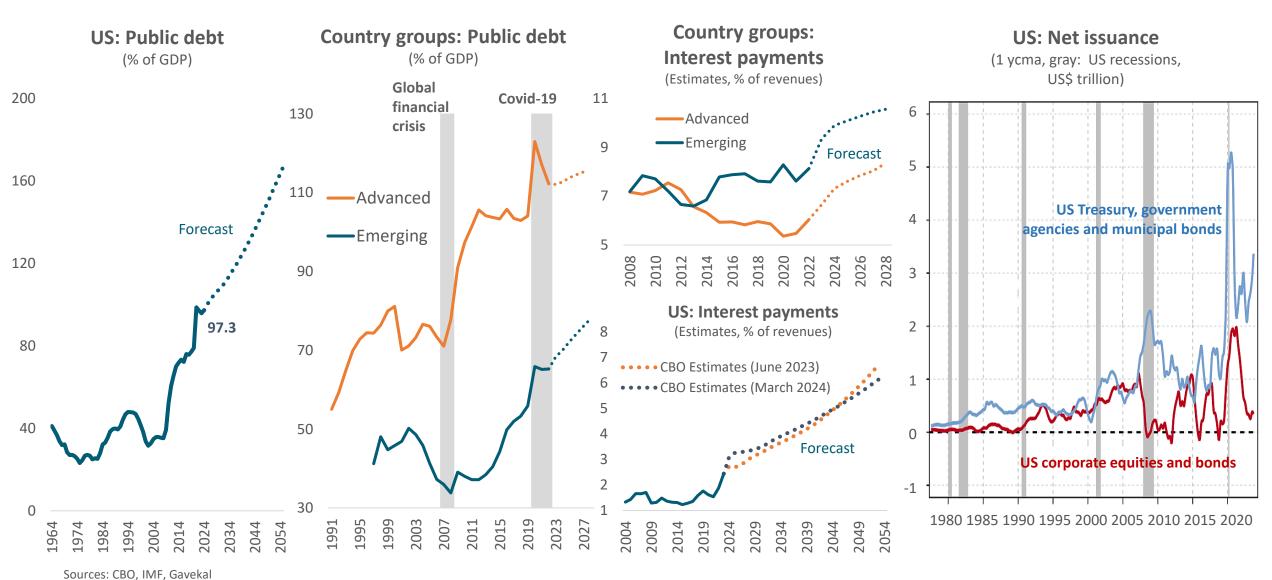
Flows to money market funds remain positive. Despite the recent contraction, U.S. remains with excess of money.



## Fiscal policy: public debt and debt service



Rising public debt and debt service burden demand increasing resources.

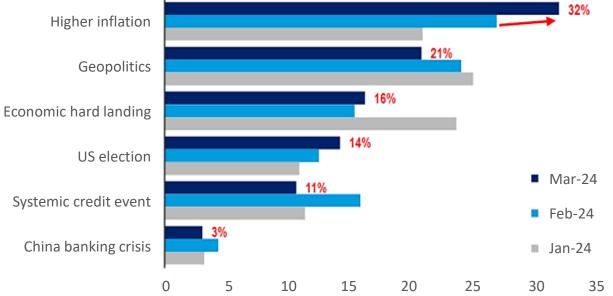


## Risks for global economy



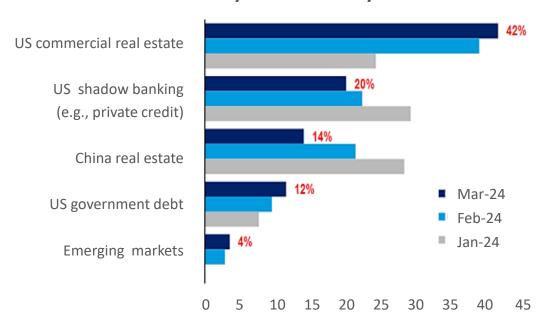
Inflation returns as the main source of risk for the global economy. US Commercial real estate is the most likely source for a systemic credit event.





#### Sources of credit systemic risk (%)

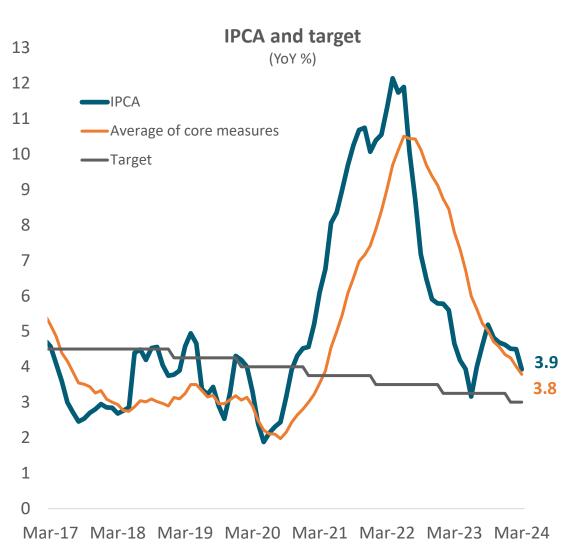
#### What is the most likely source for a systemic credit event?



## **Brazil: inflation**



Headline consumer inflation remains in a path of disinflation. March figures slightly softer.



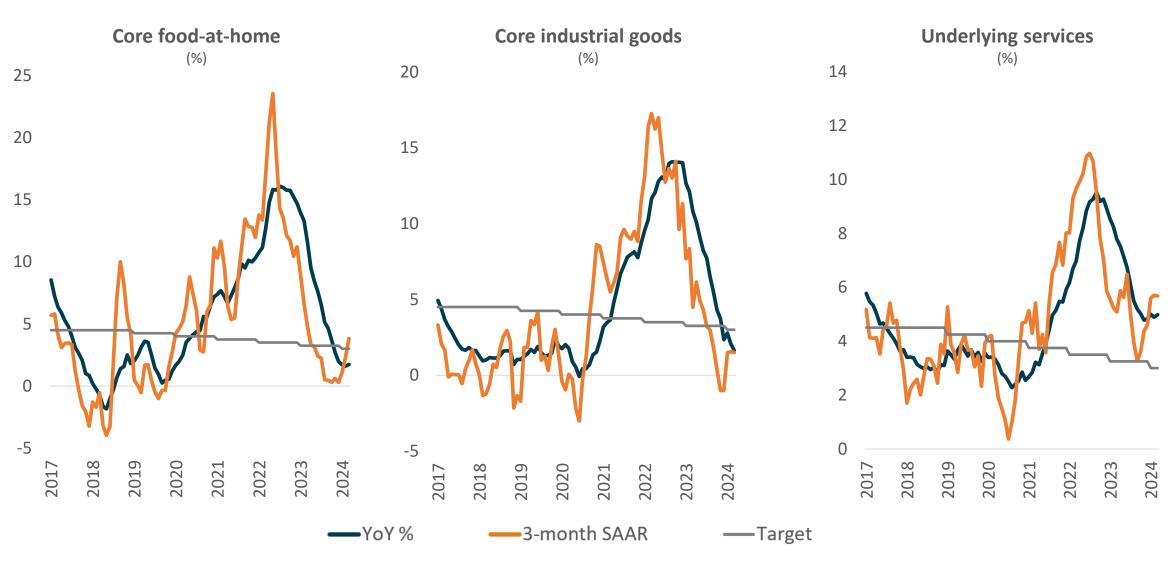
**Volatile components** 21 18 15 12 9 6 3.9 2.5 0 -3 Mar-17 Mar-18 Mar-19 Mar-20 Mar-21 Mar-22 Mar-23 Mar-24 (% YoY) Administered prices ---- Food at home **Cyclical components** 15 12 9 3.9 0.5 Mar-17 Mar-18 Mar-19 Mar-20 Mar-21 Mar-22 Mar-23 Mar-24 Industrial goods ---IPCA —Services

CPI components

## **Brazil: core inflation**



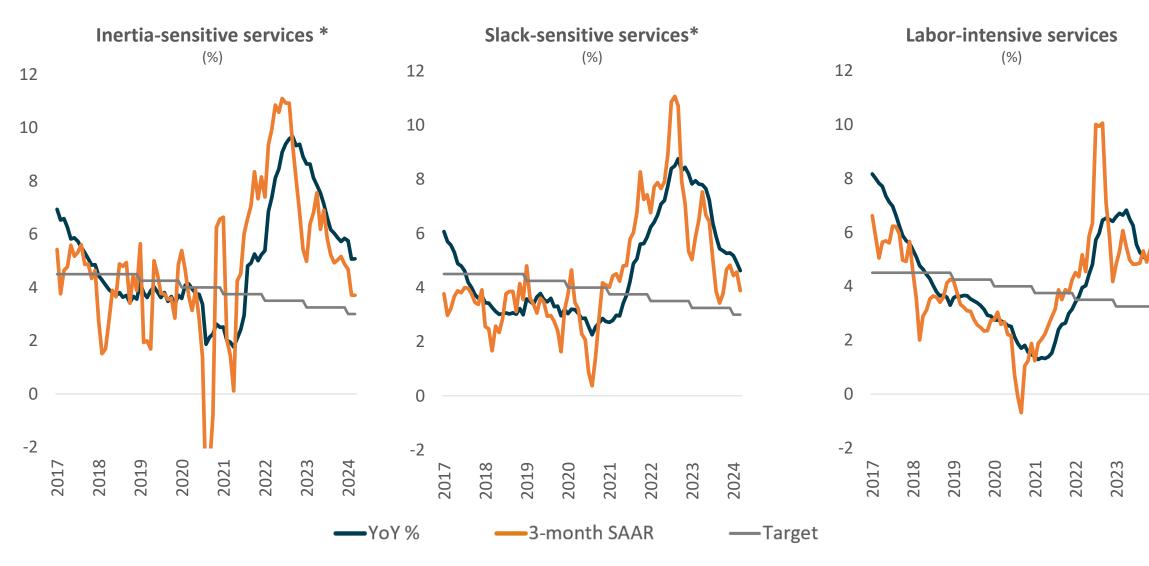
Core inflation by segments slightly higher in latest readings. Underlying services relatively stable but at still high levels.



## **Brazil: services inflation**



Services inflation shows more resilience in items linked to the labor market.



<sup>\*</sup> Inflation Report box "Analysis of the services inflation considering slack and inertia", December 2022

## **Brazil: inflation expectations**



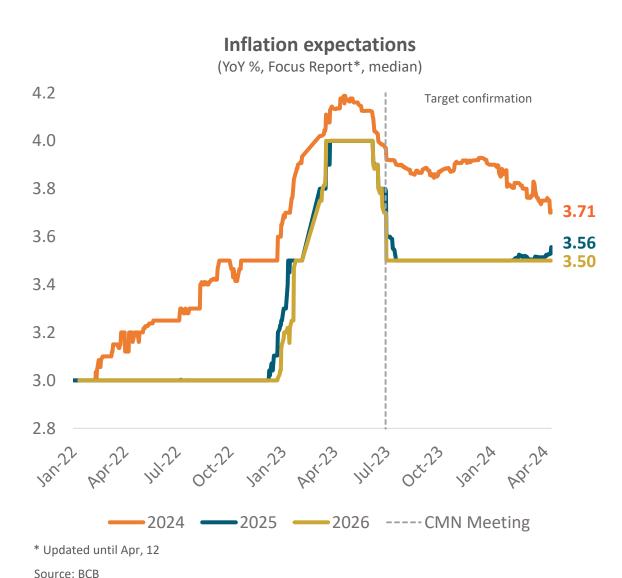
Target confirmation

**Break-even inflation** 

(DAP, YoY %)

**—** 2025 **—** 2026 **----** CMN Meeting

Long-term inflation expectations remain unanchored.



\* Updated until April, 15

7.5

7.0

6.5

5.5

5.0

4.5

4.0

3.5

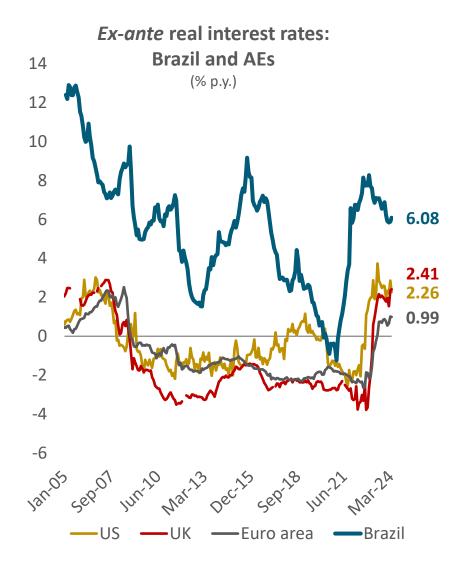
3.0

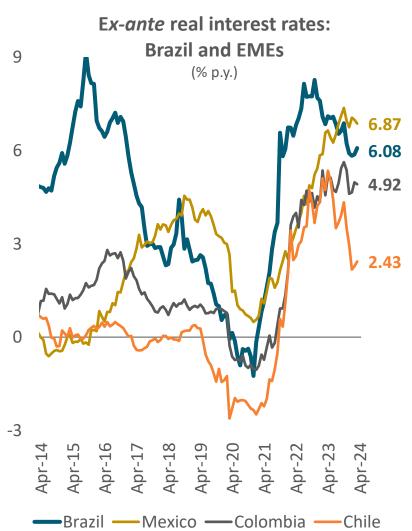
2.5

### **Real interest rates**

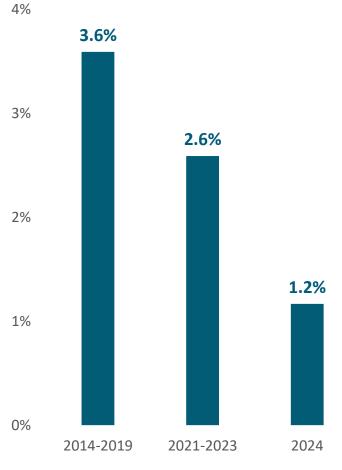


Real interest rate has fallen in Brazil relative to its peers.









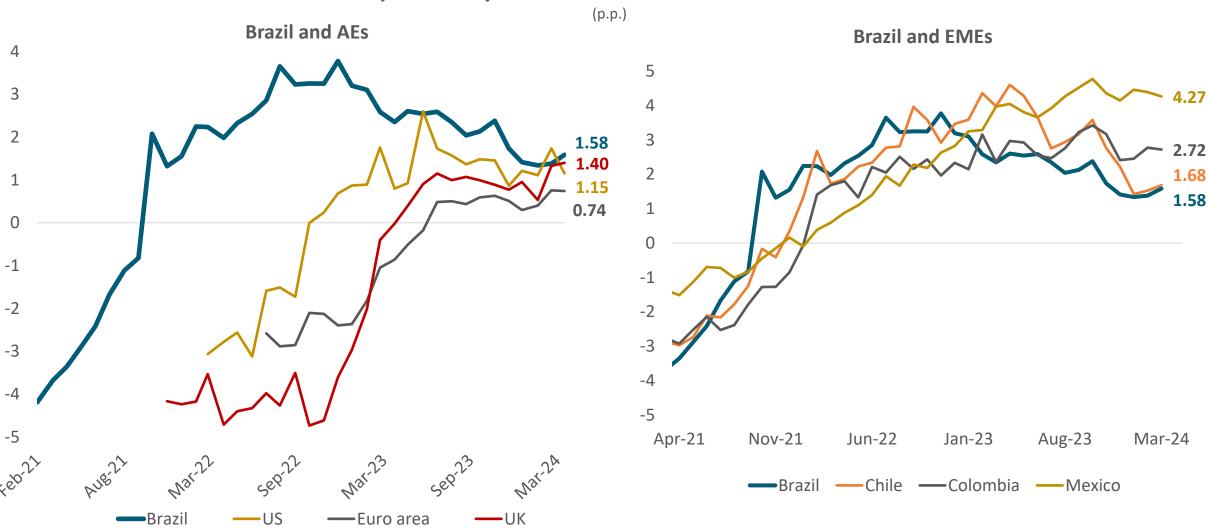
\*Chile, Colombia, Mexico.

## Real interest rate vs. neutral rate



Difference between the real interest rate and the neutral rate is lower in Brazil than in its peers.

#### Monetary effort: 1-year real interest rate minus real neutral rate



Sources: Bloomberg, central banks, BCB.

## **Monetary policy**



#### 261st Copom meeting – March 2024

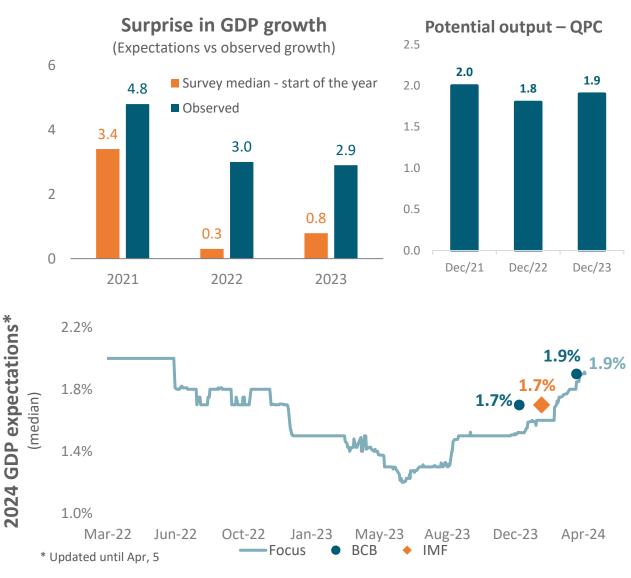
- Considering the evolution of the disinflationary process, the assessed scenarios, the balance of risks, and the broad array of available information, Copom decided to reduce the Selic rate by 0.50 percentage point, to 10.75% p.a., and judges that this decision is consistent with the strategy for inflation convergence to a level around its target throughout the relevant horizon for monetary policy, which includes 2024 and, to a larger degree, 2025.
- Without compromising its fundamental objective of ensuring price stability, this decision also implies smoothing economic fluctuations and fostering full employment.
- The current context, characterized by a stage in which the disinflationary process tends to be slower, with only partial reanchoring of inflation expectations and a challenging global outlook, requires serenity and moderation in the conduct of monetary policy.
- The Committee reinforces the need to persist on a contractionary monetary policy until the disinflationary process consolidates and inflation expectations anchor around its targets.
- If the scenario evolves as expected, the Committee members unanimously anticipate a reduction of the same magnitude in the next meeting, and judge that this monetary policy stance is appropriate to keep the necessary contractionary monetary policy for the disinflationary process.
- The Committee emphasizes that the total magnitude of the easing cycle throughout time will depend on the inflation dynamics, especially the components that are more sensitive to monetary policy and economic activity, on inflation expectations, in particular the longer-term ones, on its inflation projections, on the output gap, and on the balance of risks.

## **Economic activity**



GDP decelerating, but recent indicators show some improvement, which is reflected in a recent rise in expectations for 2024

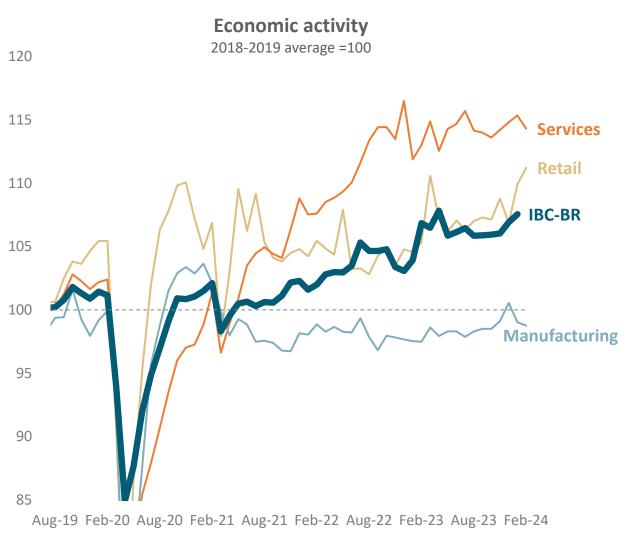


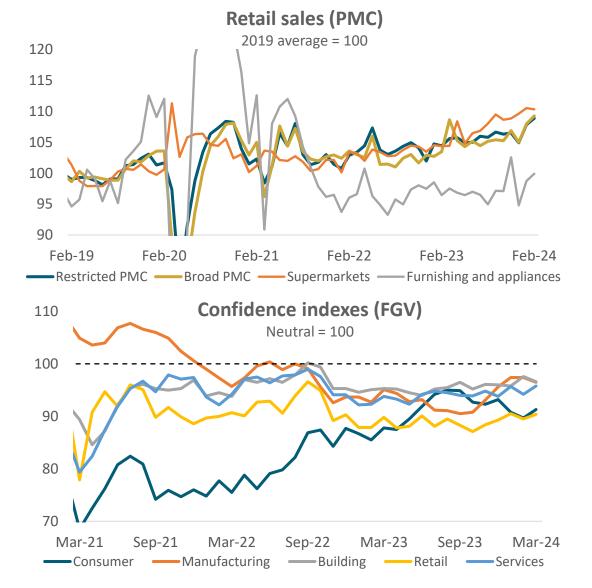


## **Economic activity**



Recent indicators show slightly higher dynamism than previously expected, particularly in the retail sector

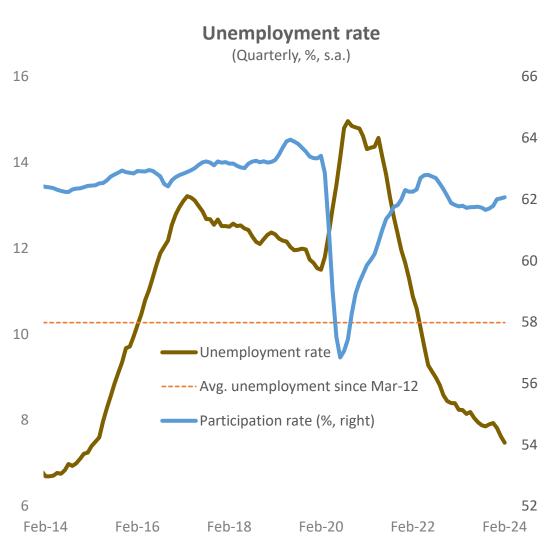


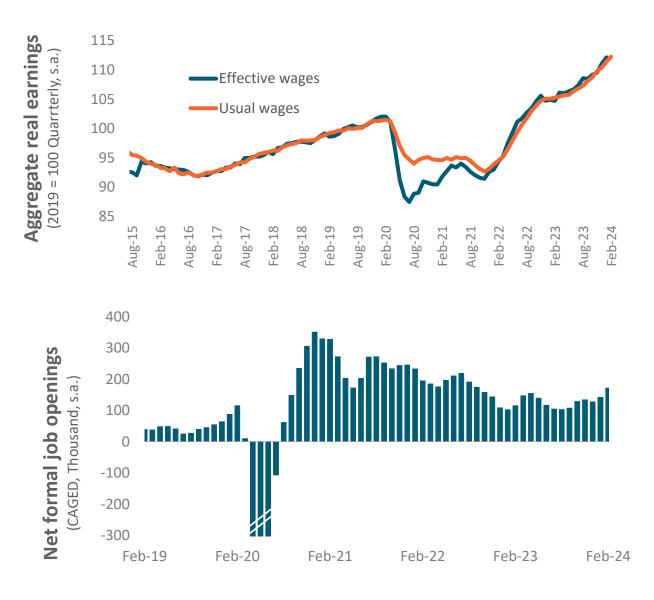


## **Labor market**



Labor market keeps resilient and real earnings accelerating.

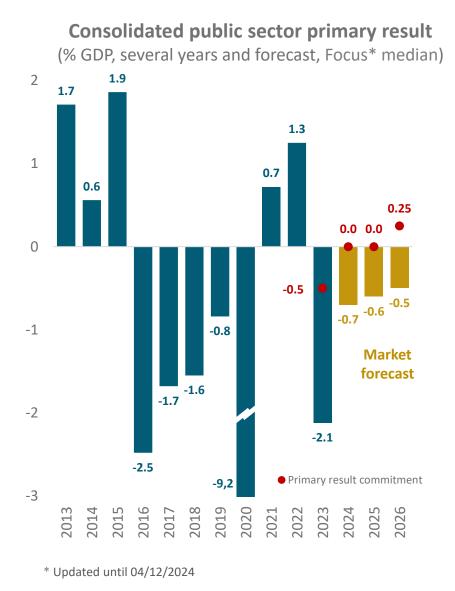


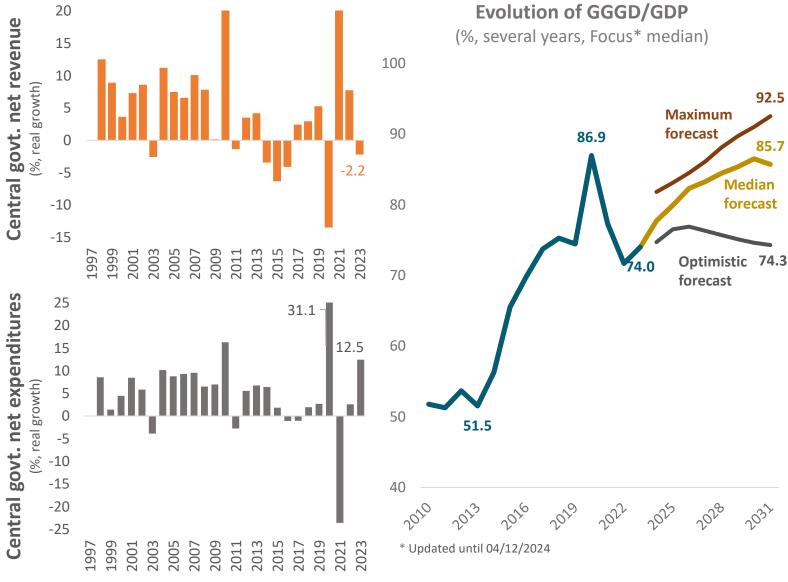


Sources: IBGE, MTE.

### Fiscal: results and forecasts







Sources: BCB (Focus Report), National Treasury and 2025 PLDO.

## Technology Agenda

Design of the financial system of the future





Digital world transformation

People are looking for a digital representation of value

Assets are becoming encrypted

 Distributed ledgers allow assets to be verifiable and transferable, with divisibility

 We are talking about extracting value from an asset in its digital form

Art, pictures, properties, ideas and even money

Are we moving towards a tokenized economy?

If the tokenization thesis holds true then the 21st Century may see the creation of regulated, global, token-based, muti-asset networks.\*

\* The Regulated Internet of Value, Citi's Digital Policy, Strategy and Advisory, 06/21.



## **Tokenization of the economy**



- The main change is the tokenization of assets for trading
- Asset tokenization generates efficiency gains
  - Trade, register, contracts, collaterals etc.
  - Greater speed and transparency
  - Lower cost
  - More open processes
  - Programmability in the purchase and sale of assets

## An integrated agenda

The four fundamental blocks

#### Pix

Rail of programmable payments

## **Currency internationalization**

Payment internationalization

#### **Open Finance**

Comparability and portability in real time

#### **Drex**

Tokenization of the economy

Additional blocks for the future

Artificial intelligence

Data monetization



## Pix gains space and increases its popularity

powered by Banco Central

Pix growth promotes financial inclusion and enables small businesses

#### Pix growth

#### 733 million

active Pix's keys.

**148 million** people and **14.0 million** companies use Pix.



**4.4 billion** transactions in Feb/24, against 2.5 billion in Feb/23, **increase of 72.8%.** 

#### Pix and financial inclusion

#### ■ **71.5 million** new users included with Pix.\*

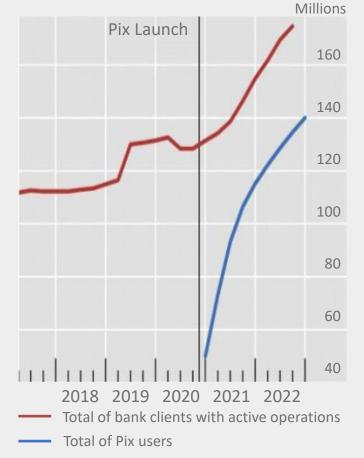
#### **Transactions by value range**

(Only natural persons payers - Nov/20 until Dec/22)



<sup>\*</sup> Considering users who did not use TED in the 12 months prior to the launch of Pix and became PIX users.

#### Pix users vs. Bank clients



## Pix new functionalities









Frequency:
Value:
Receiver:
Payment instructions:
Channel:

Purpose:



Transaction

Single: mandatory
 Recurrent:

 optional
 lt will become
 mandatory

Defined

Fixed

Individual or legal entity

Payer

Secondary

Transfer



Automatic Pix after payer's previous authorization

Defined

Fixed or variable

Legal entity

Receiver

Secondary

Purchase

#### Schedule

Pec/23

Mar/24

Apr/24

Aug and Sep/24

Oct/24

Message
Catalog
API Pix

API Pix

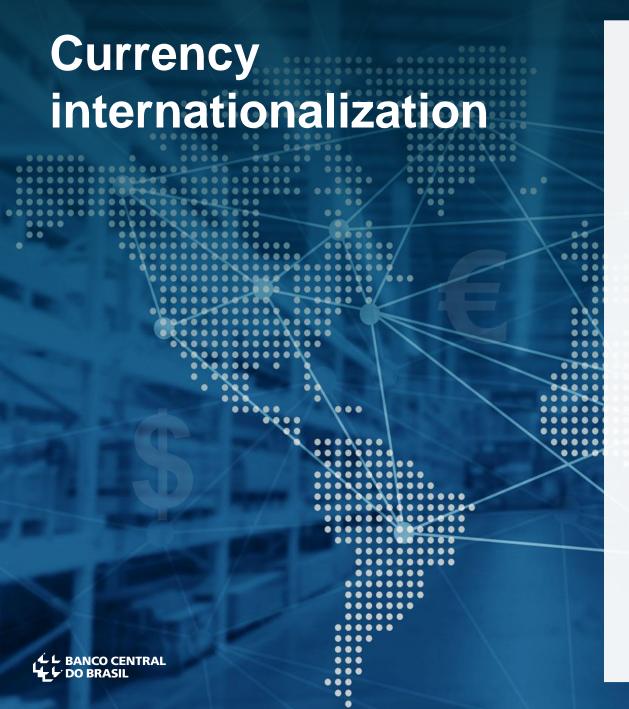
Apr/24

Aug and Sep/24

Homologation tests

Full operation

33



- Connection of digital currencies.
  - There will be real time transactions with low cost.
- Three challenges for the connection of international payments systems:
- Technology
  - Connection between DLT and centralized systems (solved)
- Settlements
  - Liquidity token pool (solved)
- Governance
  - Taxonomy (minimal rules for cross-border payments)
    - We need to advance on the topic



### Comparability and portability in real time





Standards and infrastructure that support the sharing of data and financial services by institutions authorized to operate by the BCB.



The Brazilian model is a global reference.



Greater financial and digital inclusion.



Convergence to marketplaces, with one or few environments for comparison of products and services.



Competition for channel and principality.

#### Open Finance in figures

- 27 API developed and 12 under development.
- More than 42 million consents to share data.
- More than 1.4 billion API calls, on average, per week (phases 2 and 4).
- More than 68 billion API calls (phases 2 and 4).
- More than 800 participating institutions (all phases).



## **Digital Real**

## Tokenization of the economy

#### Benefits in three dimensions:

#### Banking efficiency

- To introduce the concept of tokenization
  - Risk management, collateral, financing, asset management, data analysis, settlement and products

#### Efficiency in digital payments

- Bridge to De-Fi environment
  - To bring decentralized finance into the regulatory perimeter
- Efficiency in financial intermediation
- Efficiency in contracts and register



## **Pilot project**

#### Drex enters a new phase

#### **Objectives**

- Development of the Drex platform
- Dialog with society on Drex development

#### **Guidelines:**

- 1. Multi-asset DLT Hyperledger Besu
- 2. Simulated transactions
- 3. Asset fragmentation
- 4. Access to services through IFs and IPs

#### Next steps:

Start of Drex pilot Workshop

Mar/23 Apr

Drex contracts: wholesale and retail

Sep

Government bonds contracts

Entry of new participants

**Nov/23** 

Conclusion of privacy tests

Assessment

May/24

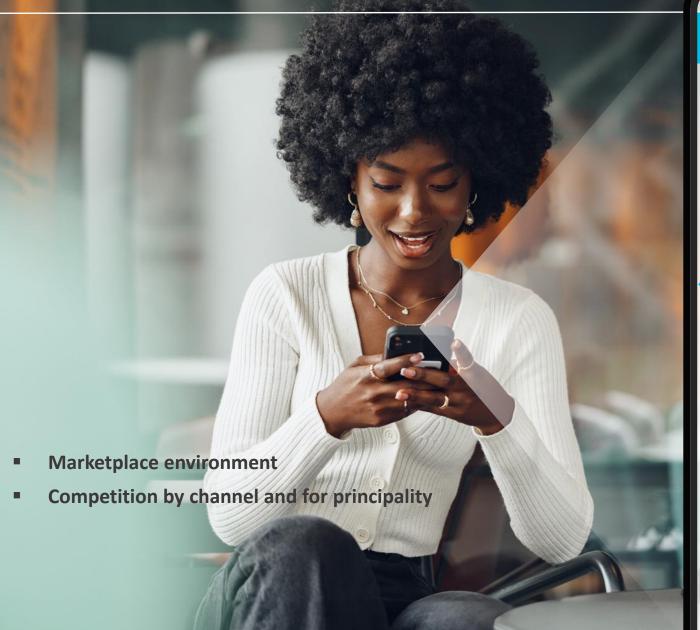
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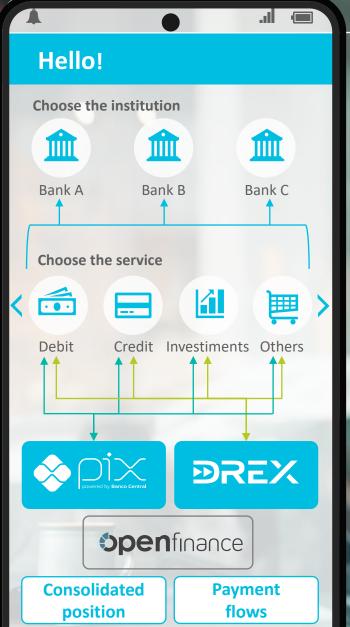
**Development and tests** 

Oct

Other protocols

## Financial services aggregator









- The use of AI in the Super App can transform it in a financial advisor of the future.
- With programmability, connection with marketplaces and a comprehensive dataset,
   Al can be used in the 4 blocks for:
  - Financial consulting
  - Financial education
  - Process optimization (software and hardware) and improvements in the user experience.



- Data has become a great asset.
- Users are the owners of their data, but it is currently very difficult for them to monetize it.
- With marketplaces and connection between platform and digital wallet, clients will be able to store their data and monetize it.
  - Interaction of tokens with digital wallet



## Thank you!

#### **Roberto Campos Neto**

Governor of Banco Central do Brasil April, 2024



























