











Webinar Constellation Asset Management

Economic Outlook and Agenda BC#

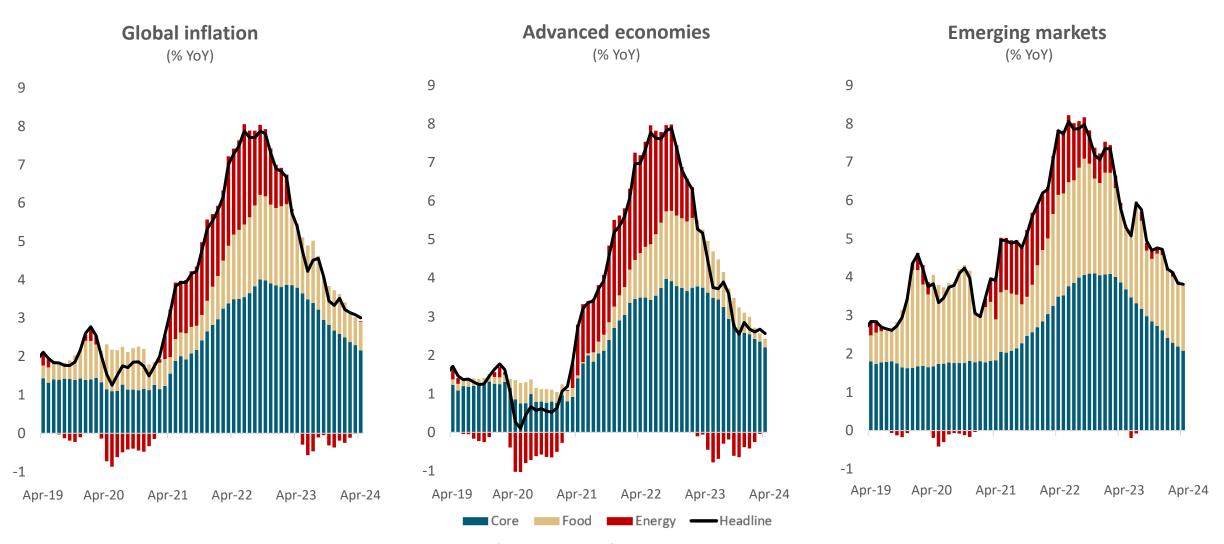
Roberto Campos Neto

Governor of the Banco Central do Brasil

Global inflation



High and persistent uncertainty regarding the speed at which inflation will fall in a sustained manner in several countries.

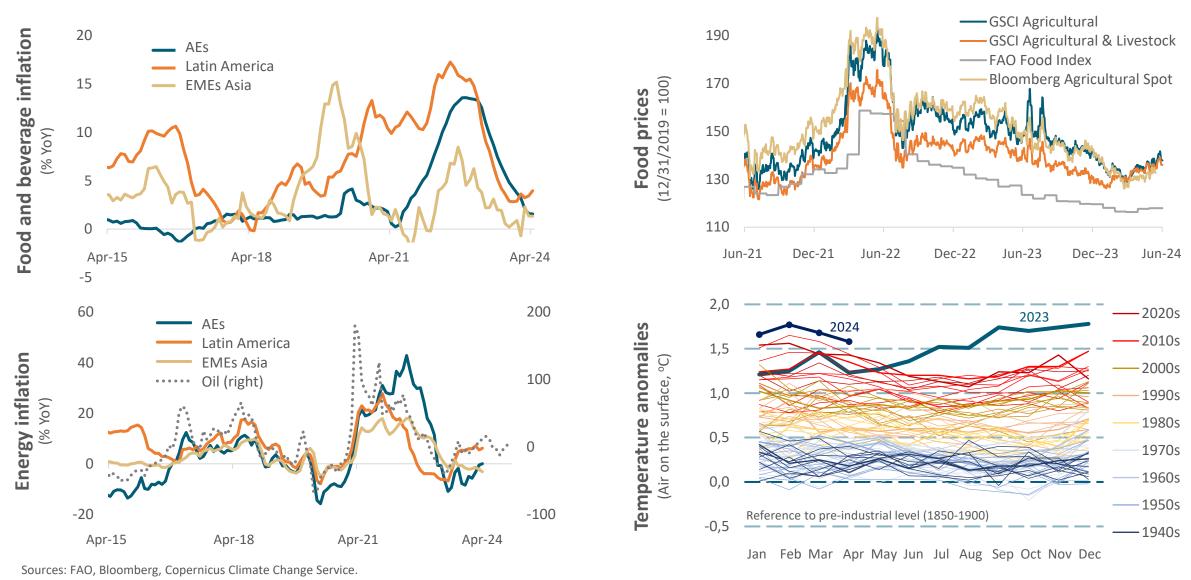


Sources: Bloomberg, Refinitiv, central banks, national statistics institutes.

Food and energy inflation



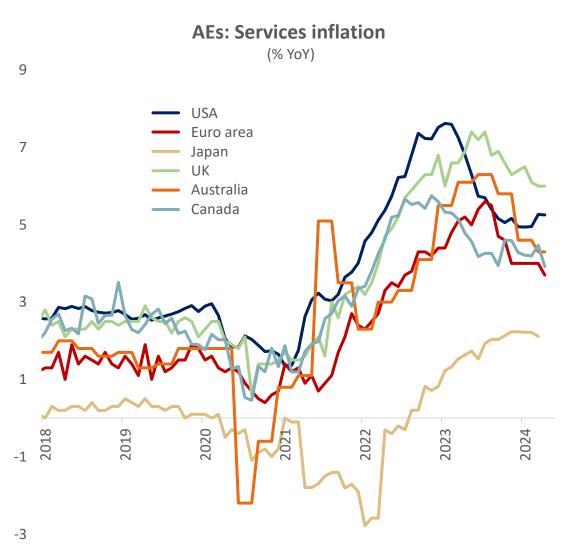
After a prolonged fall in food prices, new pressures threaten to interrupt the trend. Global warming raises risks.

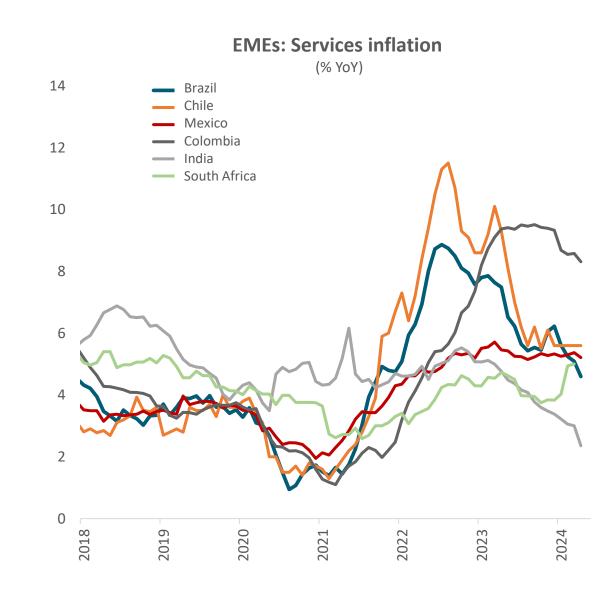


Services inflation: AEs and EMEs



Moderation in services disinflation.

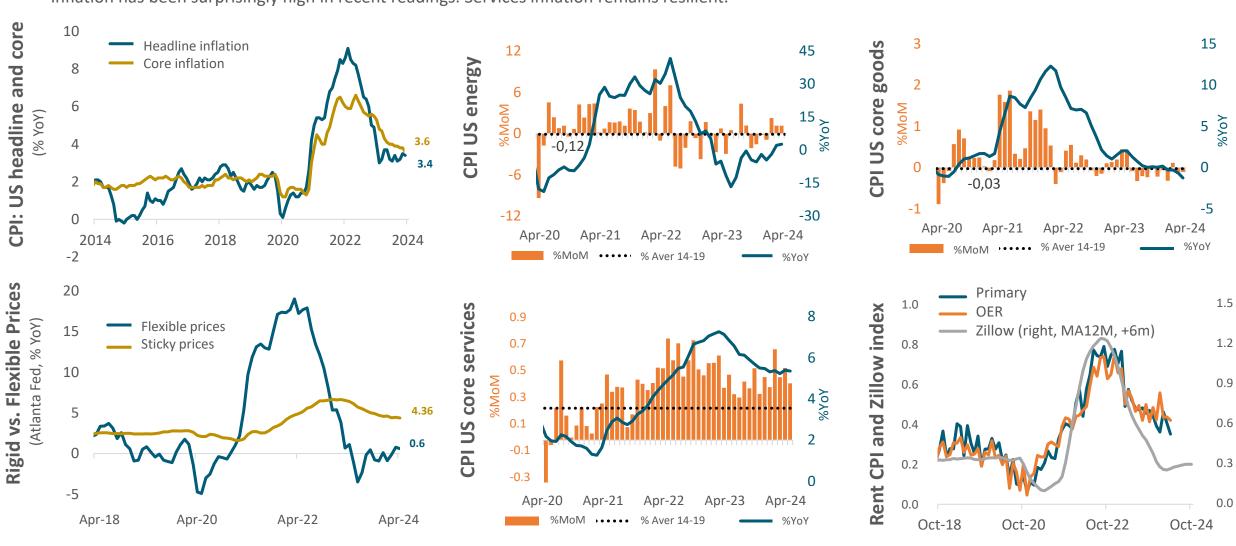




US: inflation



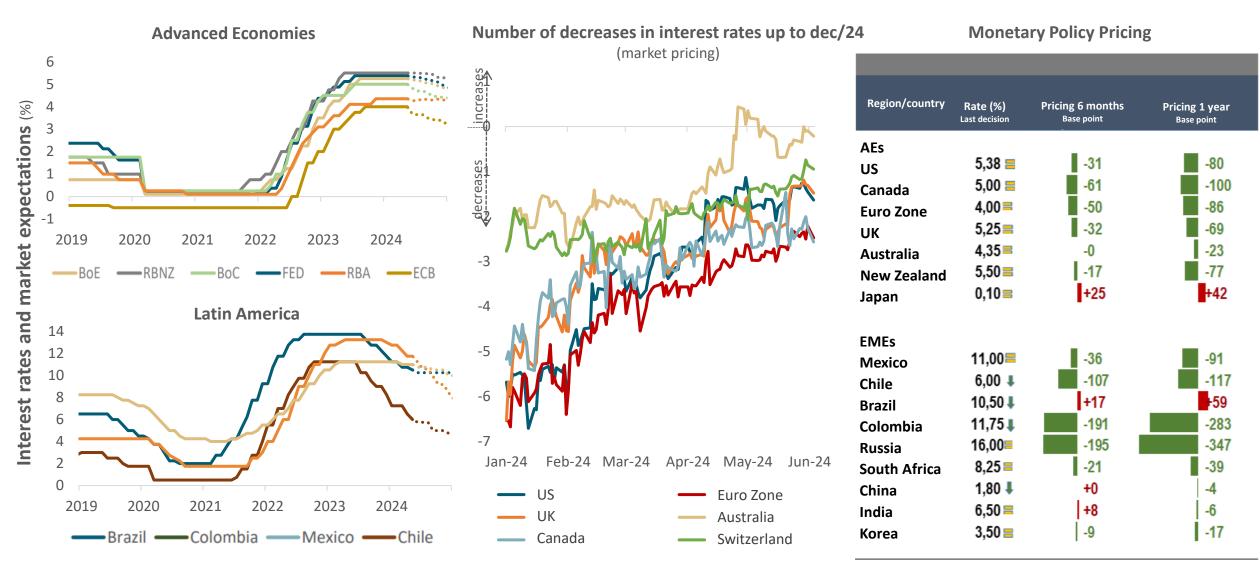
Inflation has been surprisingly high in recent readings. Services inflation remains resilient.



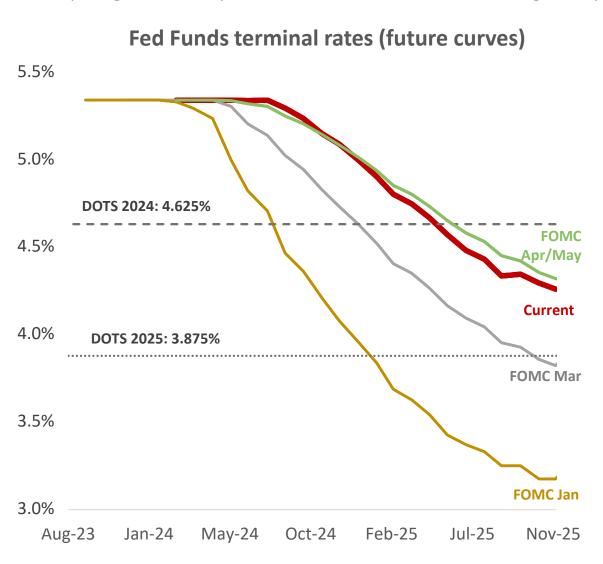
Monetary Policy

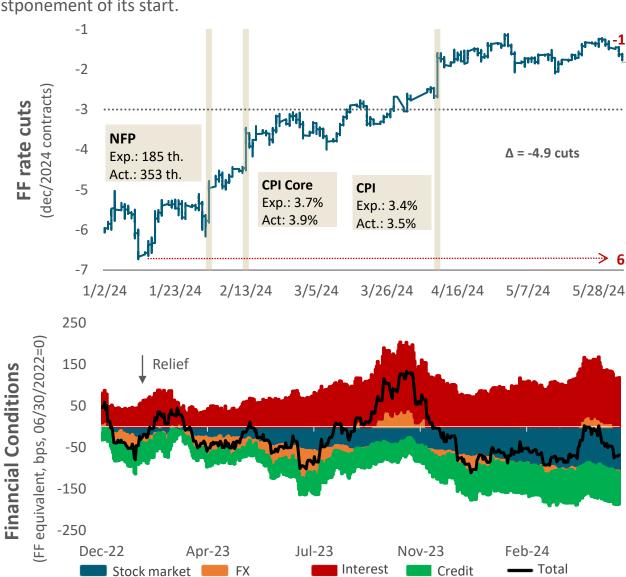


The global environment remains volatile, with higher uncertainty about the interest rate reduction cycle in AEs. Reduction in the number of expected cuts.



Repricing of the cuts cycle in the United States, with shorter length and postponement of its start.



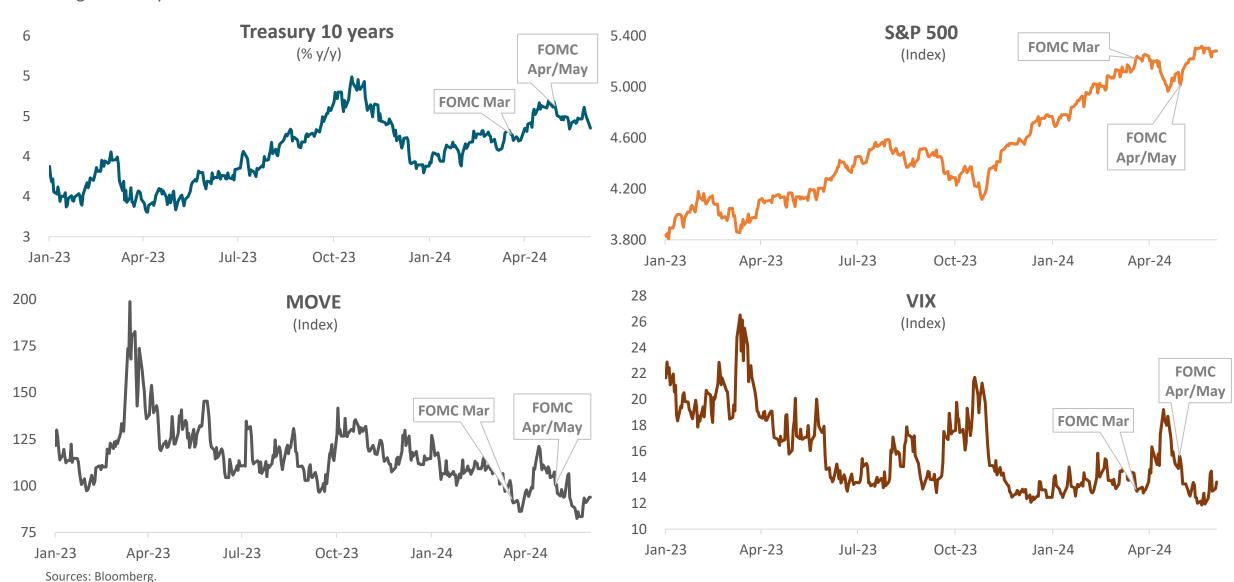


rates

U.S.: financial markets



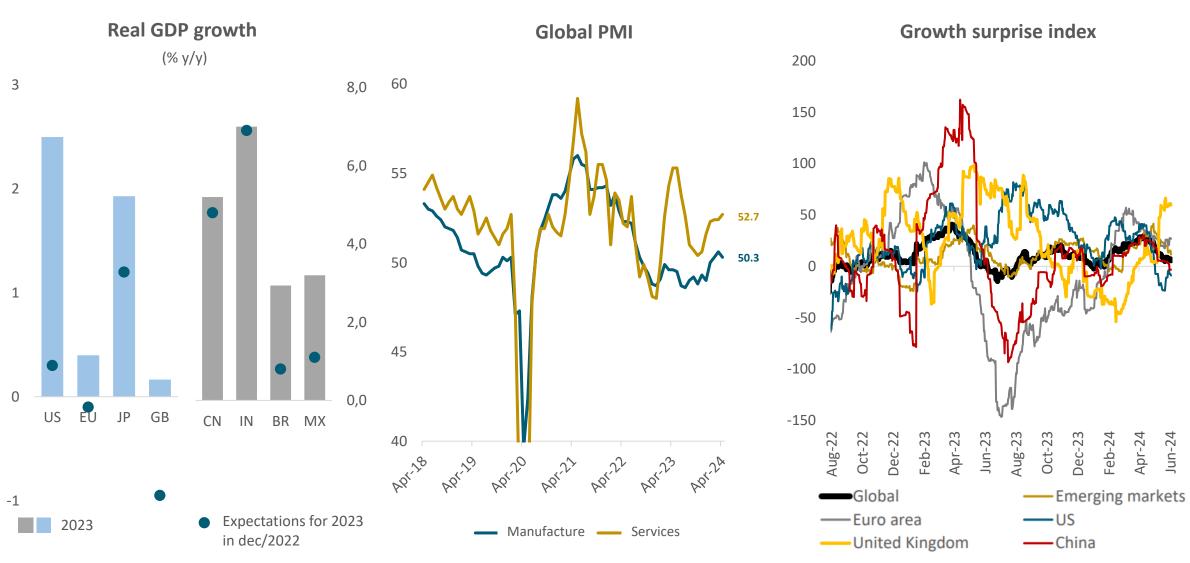




Global economic activity



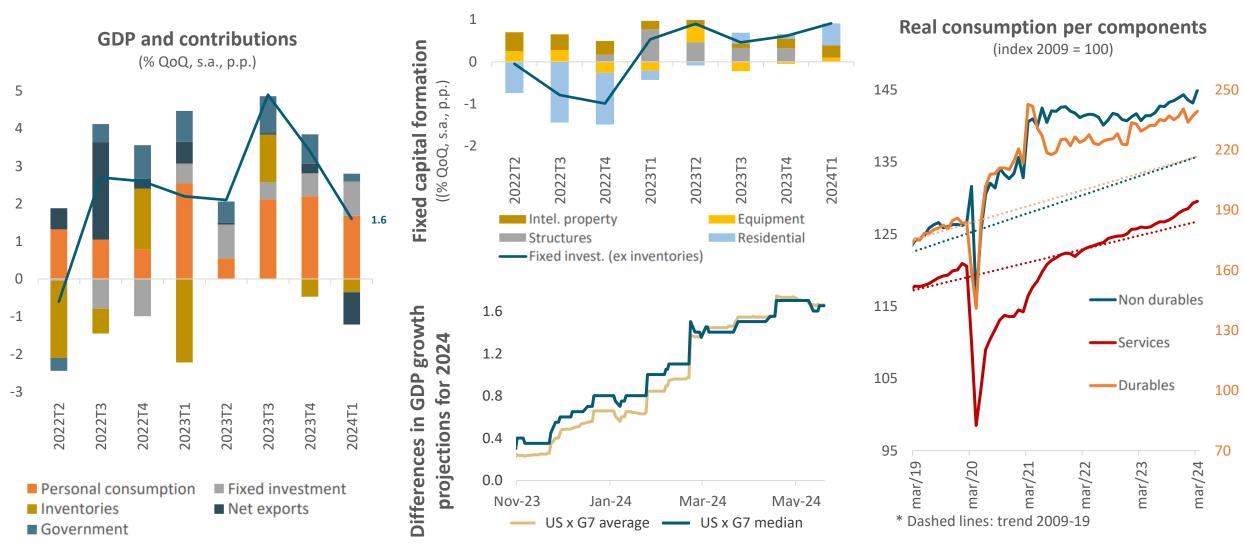
Global economic activity has been resilient. Recent economic data continues to surprise positively.



U.S.: Economic activity



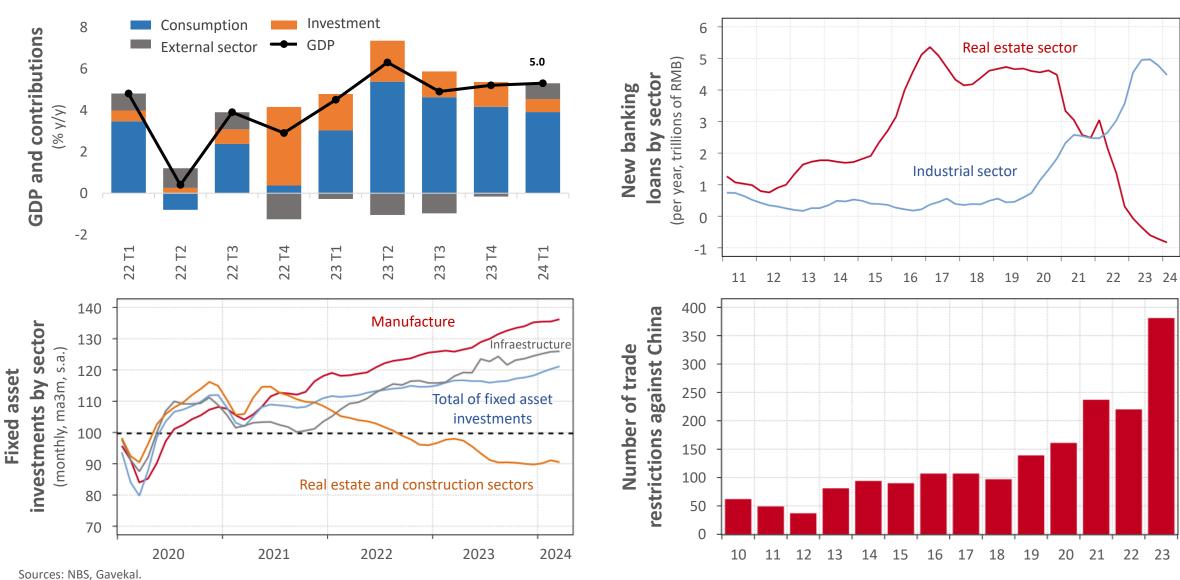
Economic activity has been resilient, supported mainly by consumption. Favorable reviews for the activity.



China: economic activity



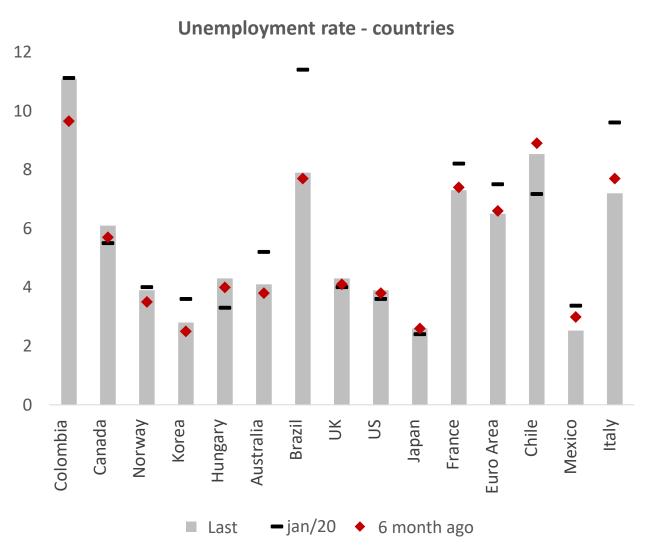
Real estate still negatively affects China's economic performance. Economic model transition is complex.

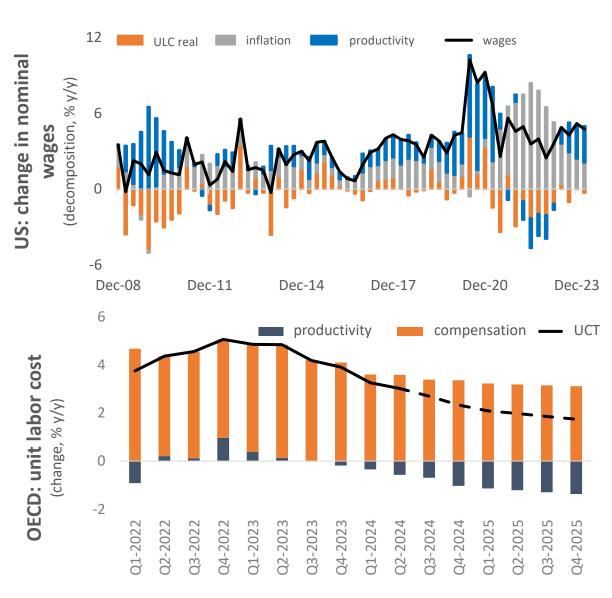


Global economy: labor market



Labor markets with little or no loosening make global disinflation difficult.

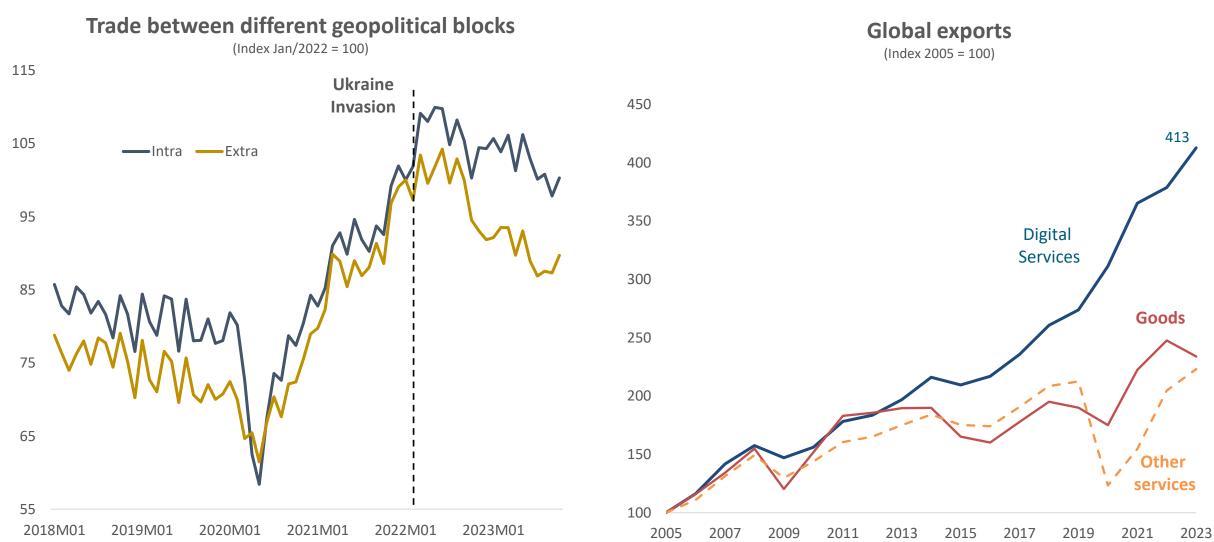




Global trade



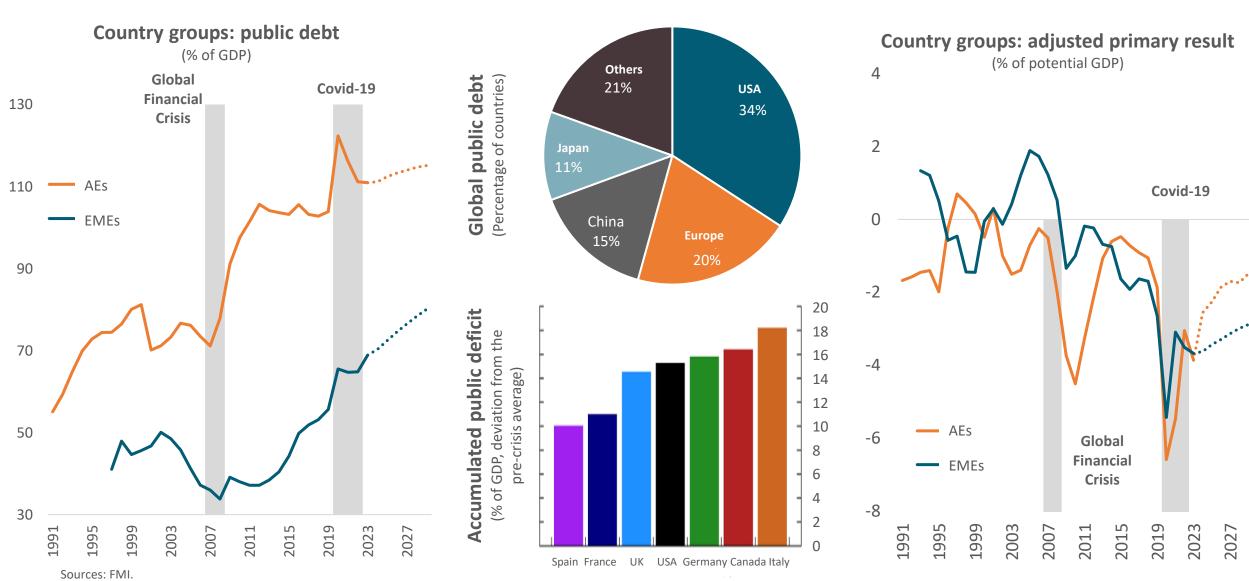
Geopolitical fragmentation impacts global trade. Digital services show a growing trend.



Fiscal policy: public debt and primary result



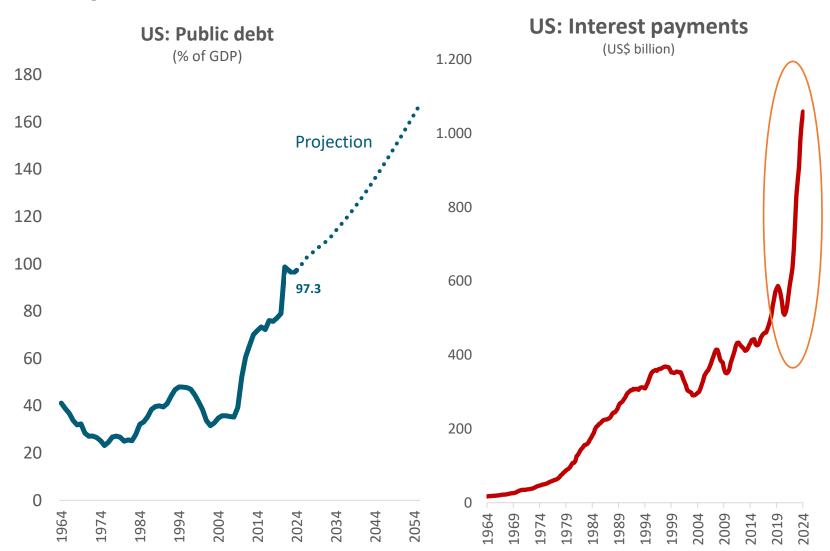
Rising debt and debt service demands ever more resources.

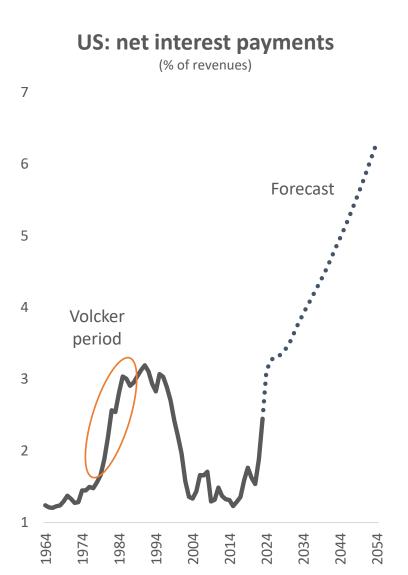


US: debt and interest payments



Rising US debt and debt service demands ever more resources.



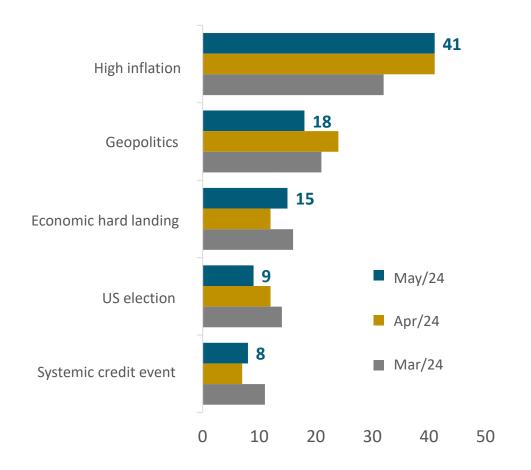


Risks for global economy



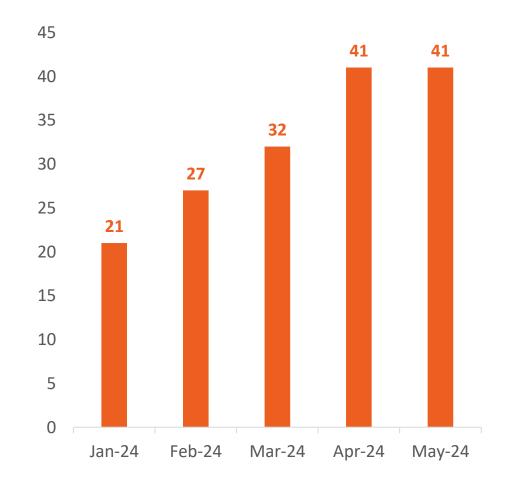
Inflation remains the main source of risk for the global economy.

Tail risks (%)What do you consider the biggest 'tail risk'?



Inflation as a tail risk (%)

What do you consider the biggest 'tail risk'?

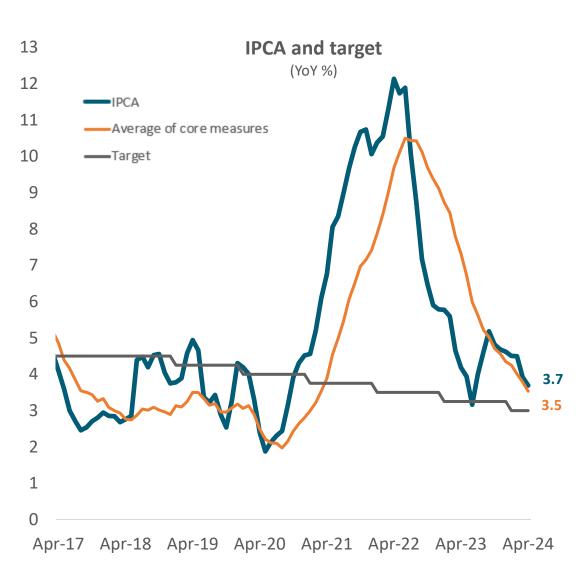


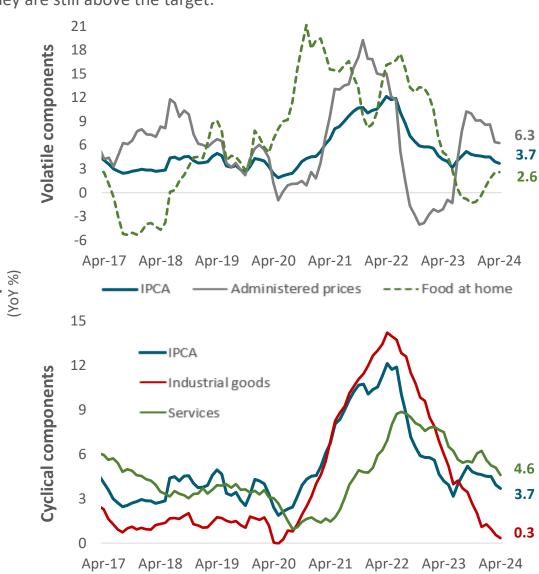
Brazil: inflation



Headline and core inflation maintained a disinflationary trajectory, although they are still above the target.

CPI components

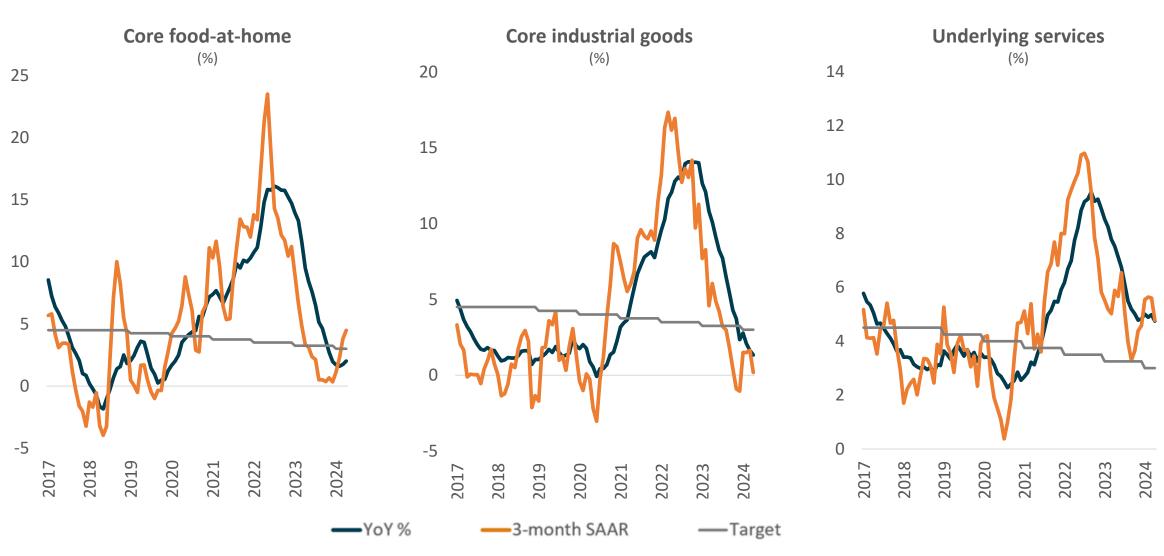




Brazil: core inflation



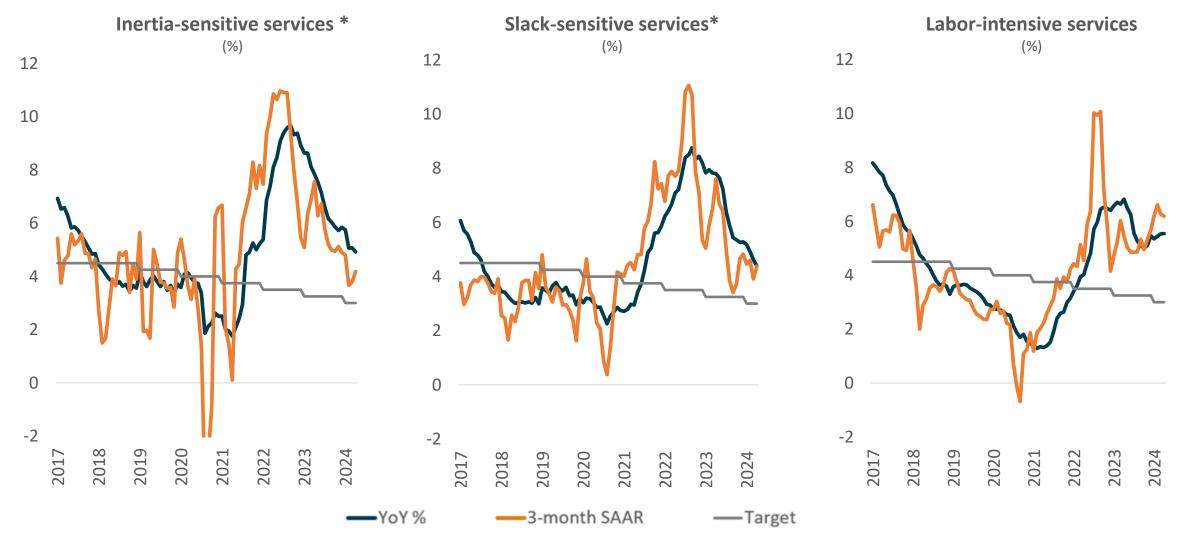
Underlying services slowdown, albeit at above-target levels.



Brazil: services inflation



Services inflation is more resilient in items more closely linked to the labor market.

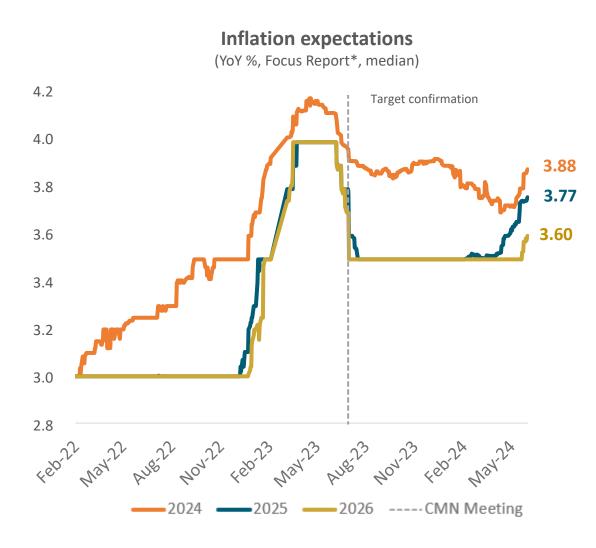


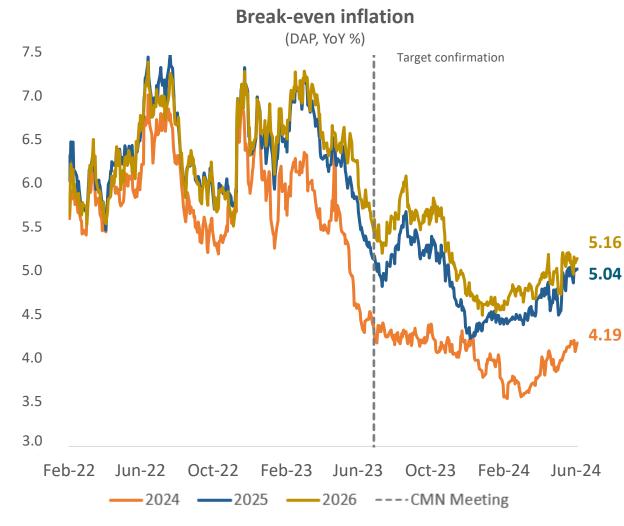
^{*} Inflation Report box "Analysis of the services inflation considering slack and inertia", December 2022

Brazil: inflation expectations



Unanchored inflation expectations, and break-even inflation rising.

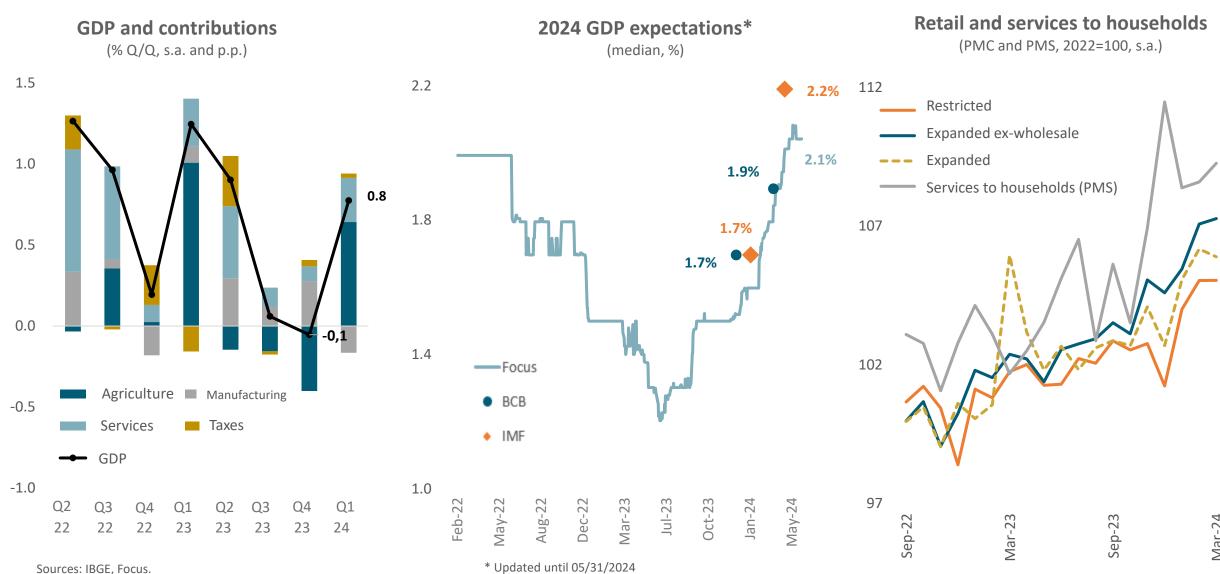




Economic activity



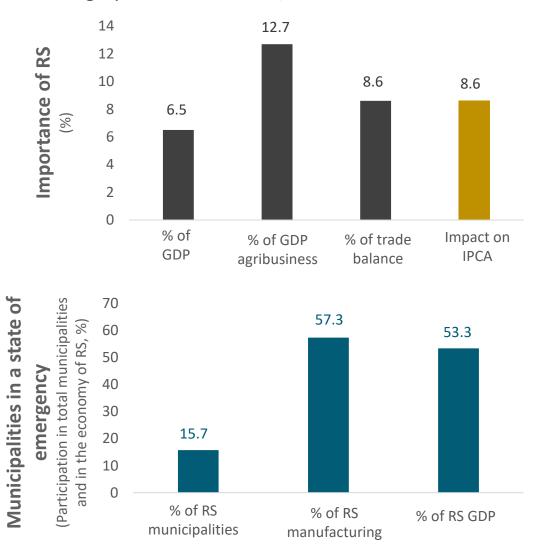
Economic activity indicators have shown greater dynamism than expected.

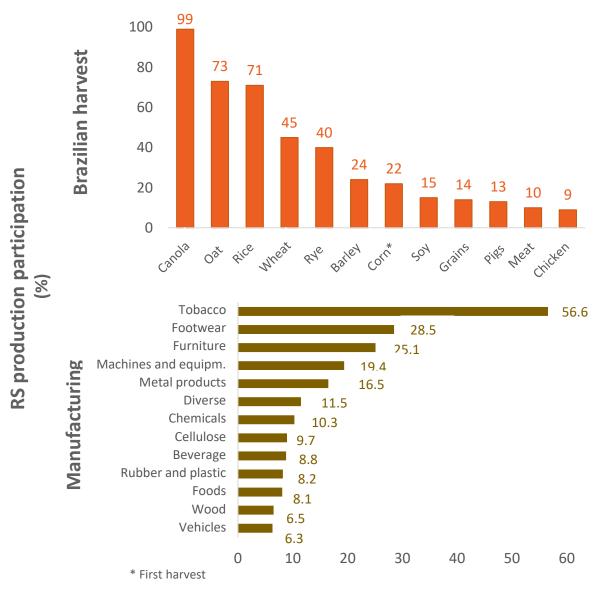


Rio Grande do Sul



The tragedy in Rio Grande do Sul, in addition to its humanitarian impacts, will also have economic repercussions.

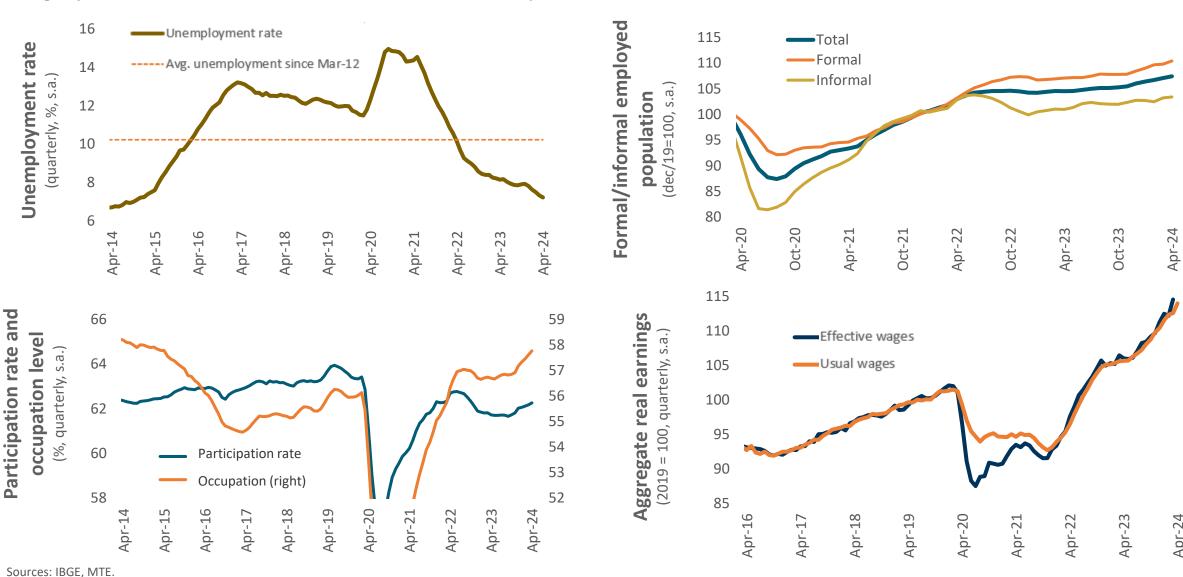




Labor market



High dynamism in the labor market, which manifests itself in multiple dimensions.



Monetary policy



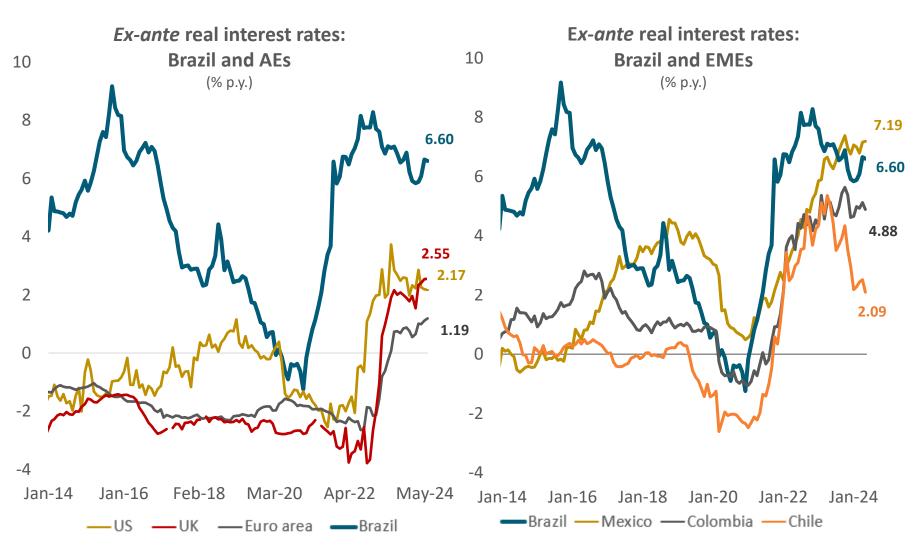
262nd Copom meeting – May 2024

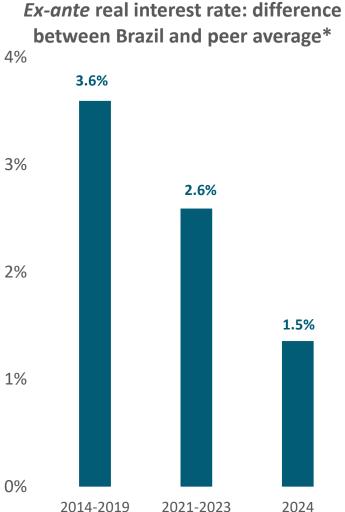
- Considering the evolution of the disinflationary process, the assessed scenarios, the balance of risks, and the broad array of available information, Copom decided to reduce the Selic rate by 0.25 percentage points, to 10.50% p.a., and judges that this decision is consistent with the strategy for inflation convergence to a level around its target throughout the relevant horizon for monetary policy, which includes 2025.
- The Committee unanimously judges that the uncertain global scenario and the domestic scenario, marked by resilient economic activity and deanchored expectations, require greater caution.
- The Committee also stresses that monetary policy should continue being contractionary until the consolidation of both the disinflation process and the anchoring of expectations around the targets.
- The Committee also reinforces, with special emphasis, that the extension and adequacy of future changes in the interest rate will be determined by the firm commitment of reaching the inflation target in the relevant horizon.

Real interest rates



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



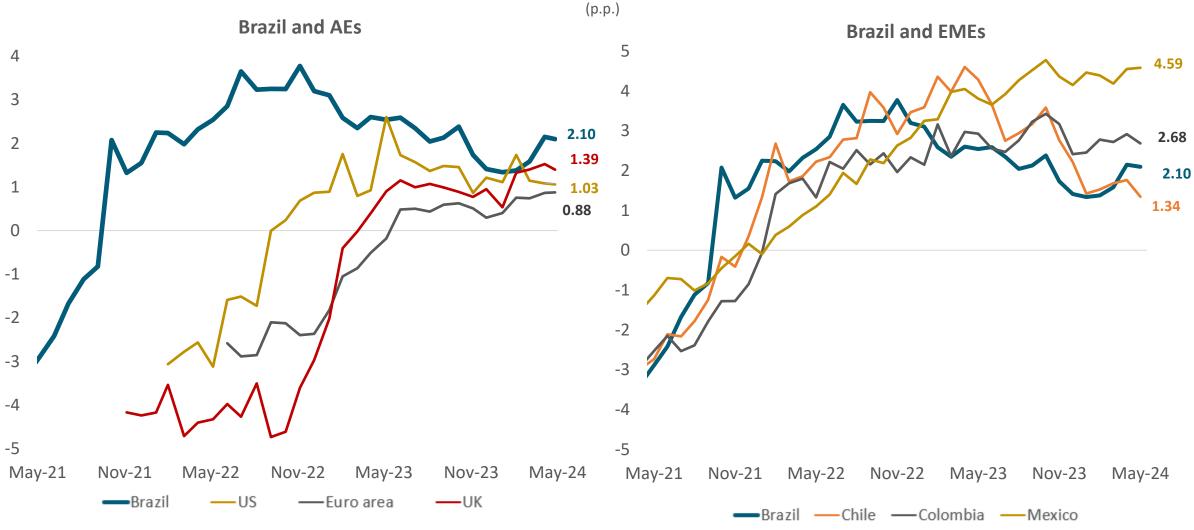


Real interest rate vs. neutral rate



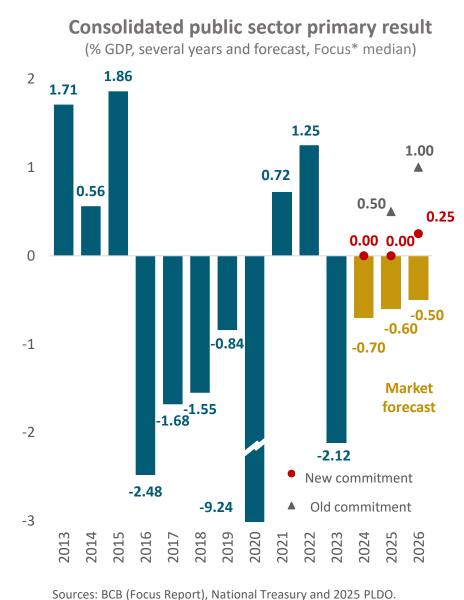
Difference between the real interest rate and the neutral rate is lower in Brazil than in its peers.

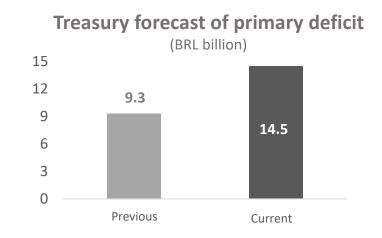
Monetary effort: 1-year real interest rate minus real neutral rate



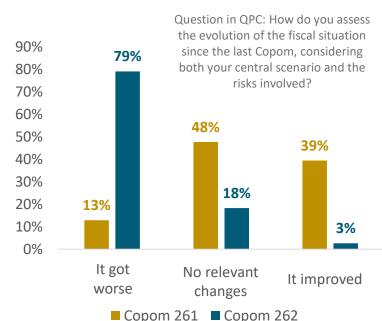
Fiscal: results and market perception





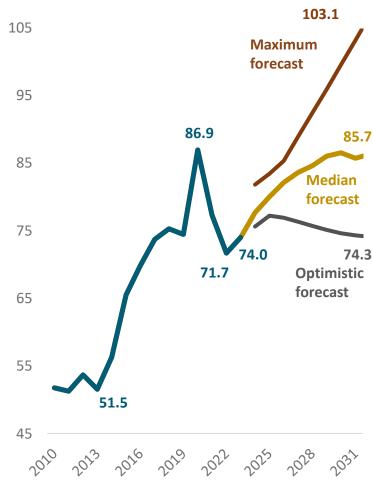






Evolution of GGGD/GDP

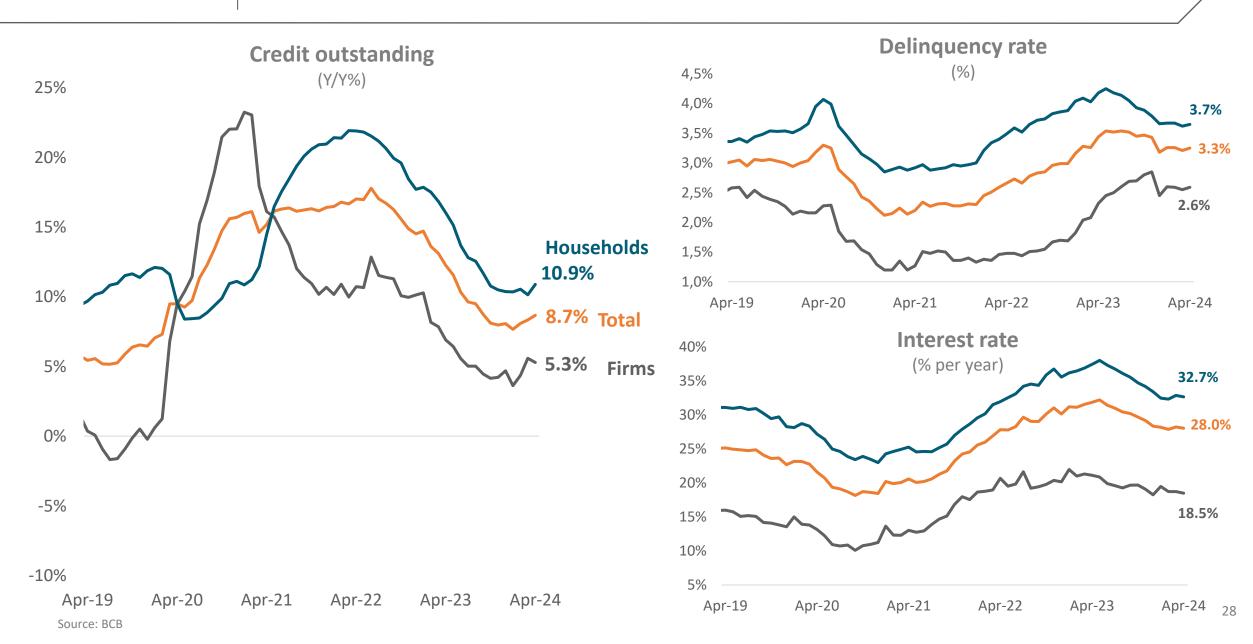
(%, several years, Focus* median)



^{*} Updated until 05/31/2024

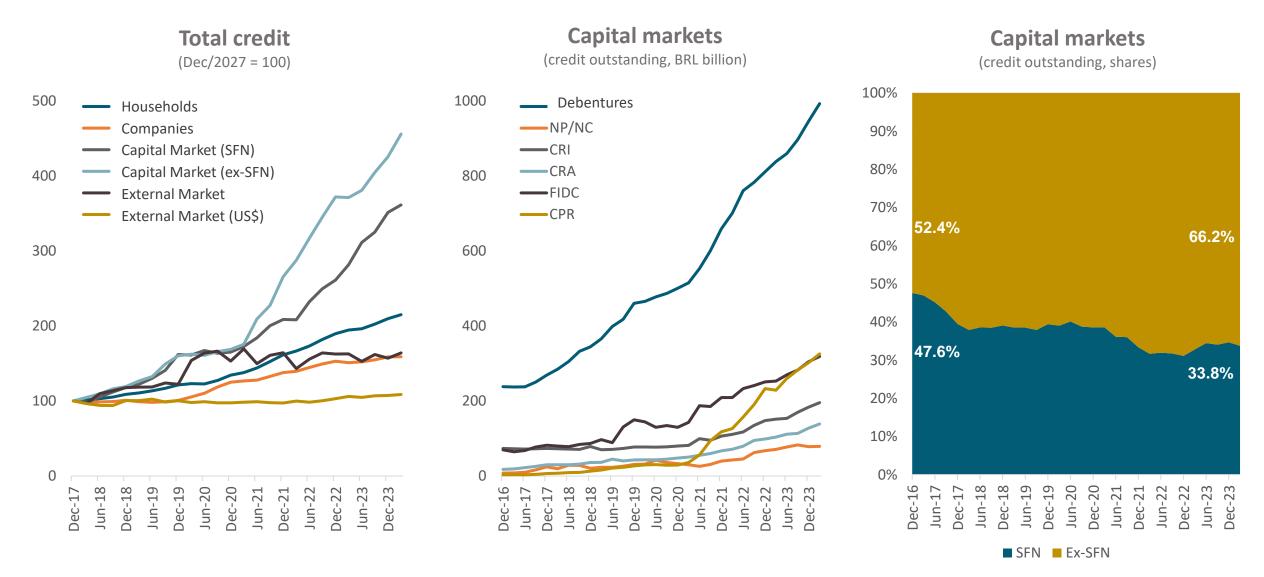
Credit in National Financial System





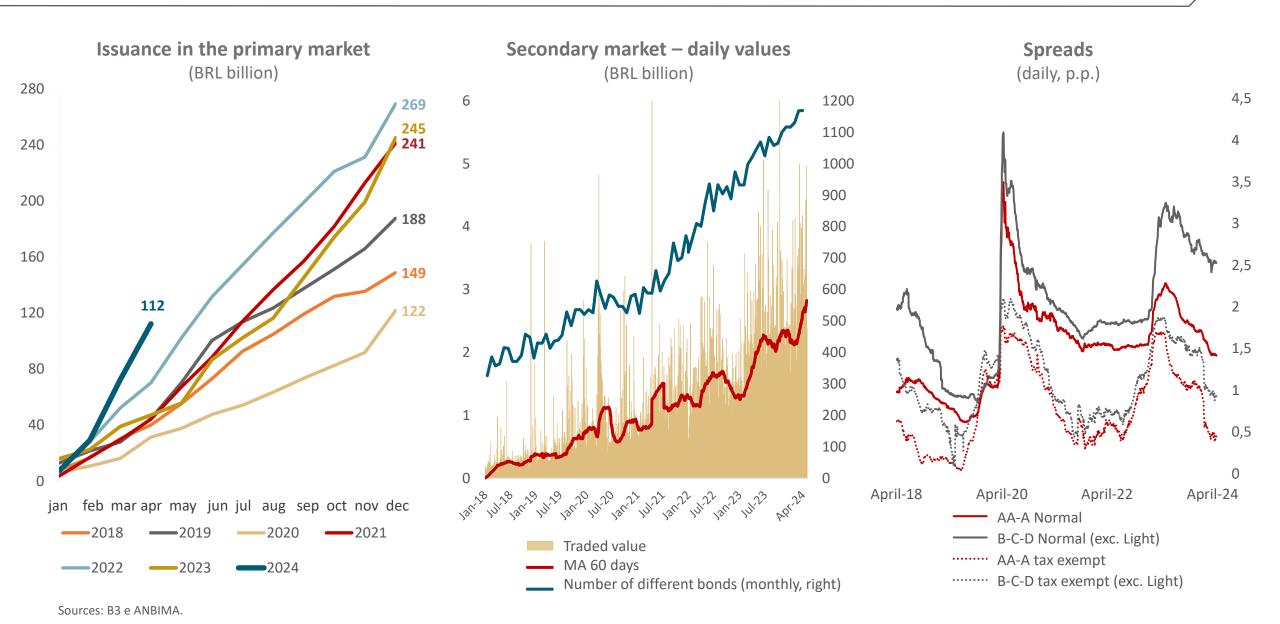
Capital markets





Debentures market





Technology Agenda

Design of the financial system of the future



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



Pix growth promotes financial inclusion and enables small businesses

Pix growth

754 million

active Pix's keys.

150 million people and **14.5 million** companies use Pix.



4.9 billion transactions in Apr/24, against 3.2 billion in May/23, **increase of 53%.**

Pix and financial inclusion

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

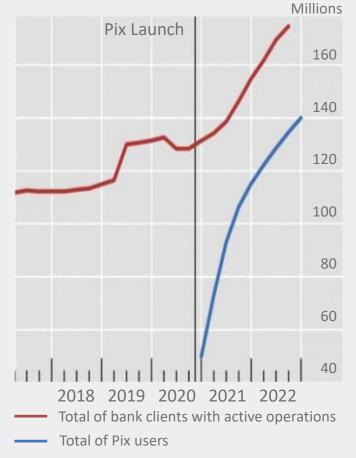
Transactions by value range

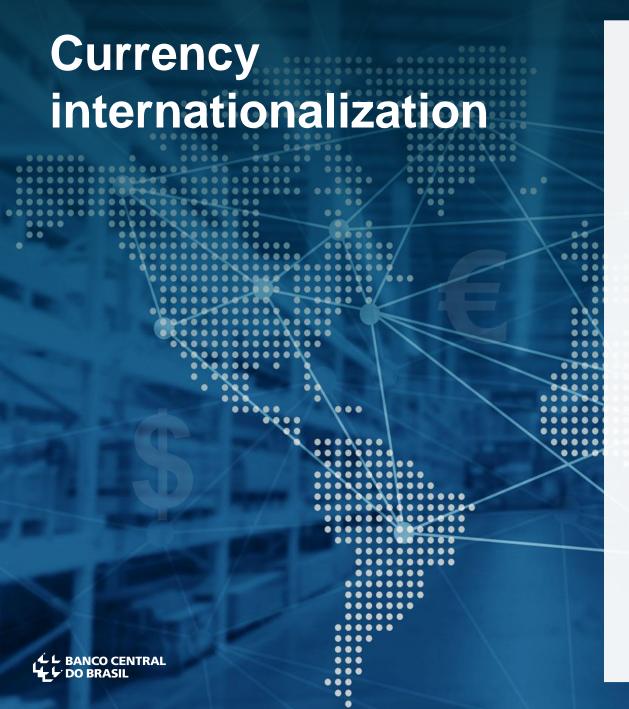
(Only natural persons payers - Nov/20 until Dec/22)



^{*} 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





- 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





Benefits already achieved:

- Greater efficiency in processes.
- More customized products and services.
- Easier credit and salary portability.
- More convenient and programmable transfers.
- Reduced interest payments for overdraft users.
- Financial aggregators and managers for individuals and companies.
- Easier customer onboarding.



Comparability and portability in real time



Examples of benefits of Open Finance:

Incumbent financial institution I:

- R\$ 1 billion in credit via portability.
- R\$ 700 million increase in customer credit limit.

Incumbent financial institution II:

• R\$ 1.5 billion in more profitable investments for the client.

Incoming financial institution:

- R\$ 8 million in savings from paying overdraft interest at another financial institution in the first twelve months.
- 1.4 million customers notified that funds held at another institution could be earning interest.

Payment institution:

 Analysis of data shared via Open Finance already results in 80% of credit origination for new sellers.

Credit cooperative:

- Reduction from 32 hours to 2h10m in the account opening process based on information obtained within the scope of Open Finance.
- 34% growth in account opening requests.

Evolution of Open Finance

- Portability via Open Finance:
 - ✓ Credit
 - ✓ Wages
 - ✓ Investments
- One-click payments (wallets and e-commerce).
- Features for companies.
- Credit Marketplace.



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

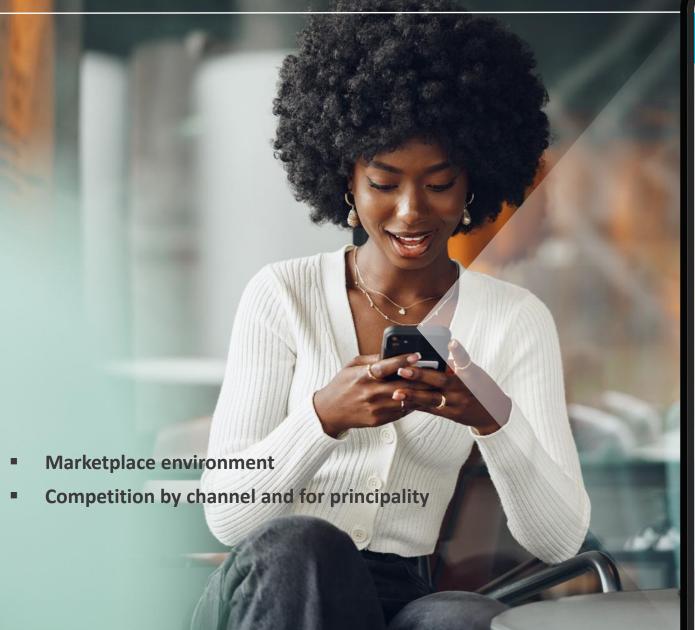
Testing Expansion:

- Governance: smart contracts, assets, business models
- Privacy: requirements of other business models

Business scope:

- Inclusion of new assets
 - Inclusion of the respective regulator, with governance over tests with its regulated assets and operators
- Expansion steps
 - 2024: Current Pilot participants, proposals for implementation in 2024Q3.
 - 2025: new bidders selected in 2024Q4.

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



TechSprint

In 2024, the G20 Techsprint aims to stimulate the development of sustainable finance, with challenges aligned with current G20 priorities.

Proposed Challenge:

- Nature-based solutions (NBS)
- Environmental, social and Governance (ESG)
- Sustainable Development Goals (SDG)





Thank you!

Roberto Campos Neto

Governor of the Banco Central do Brasil

June 10, 2024



























