Morgan Stanley

Brazil's Economic Outlook and Agenda BC#

Roberto Campos Neto Governor of Banco Central do Brasil

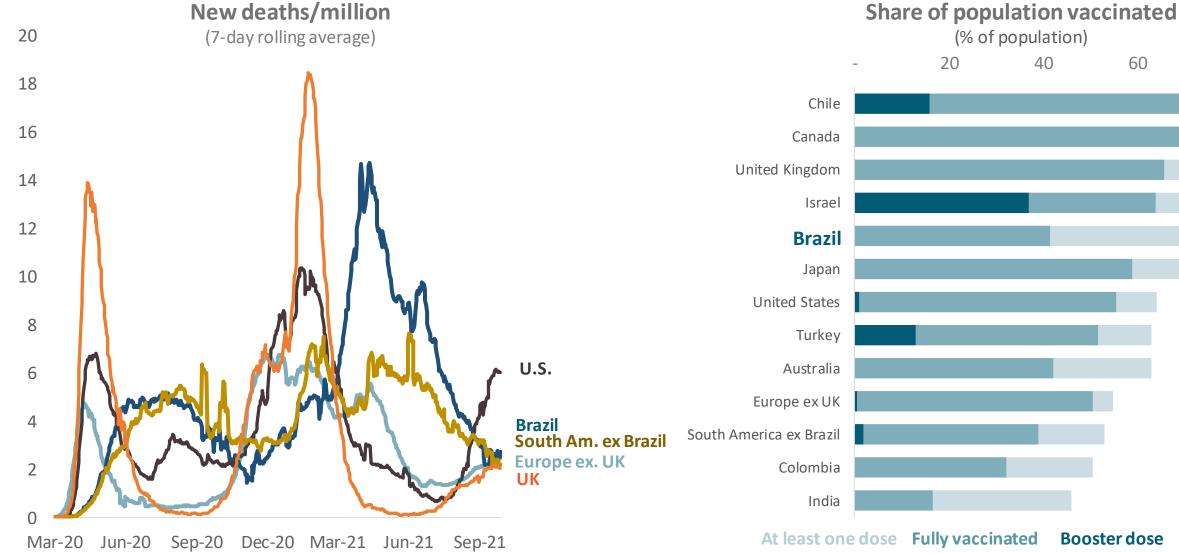
October 1st, 2021



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Covid-19: New deaths and vaccination

New deaths fall as vaccination advances



20 40 60 80

(% of population)

Source: Our Worldin Data. Last data: 28 Sep. 2021.

Booster dose

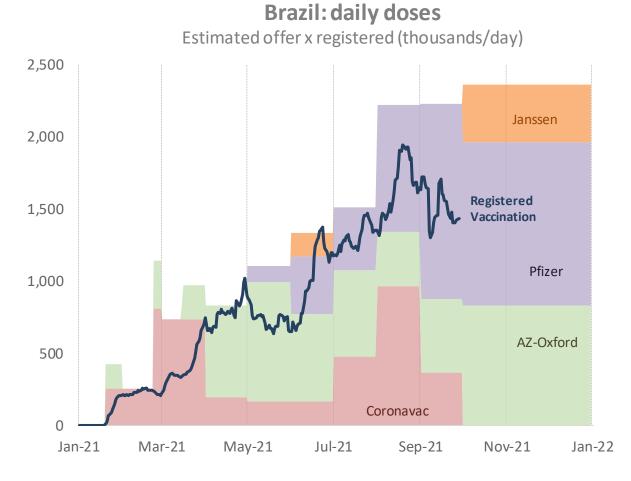
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COVID-19

Brazil: Covid-19 vaccination

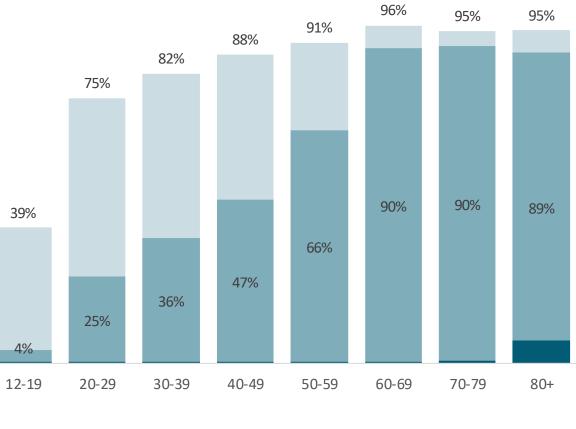
Brazil

Brazilian vaccination campaign is advancing.



Availability of doses based on a schedule published by the Ministry of Health on September 29th, with adjustments that reflect news published by the press. Scenario considers Astrazeneca-Oxford, Coronavac, Pfizer-BioNTech and Janssen vaccines. Dose delivery schedule subject to changes.

Brazil: vaccination by age group



At least one dose

Fully vaccinated

Booster dose

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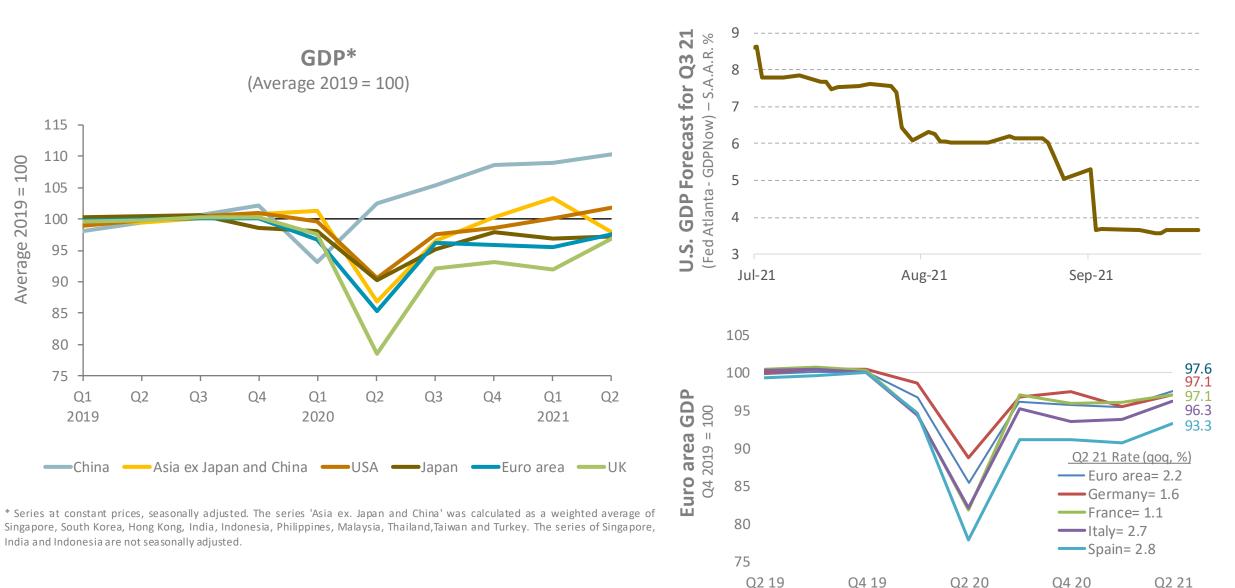
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Sources: Registered vaccination collected at http://www.giscard.com.br/ and https://coronavirusbra1.github.io/.

Advanced Economies

Advanced economies: economic activity

Global economic recovery continues to be directly linked to the evolution of the pandemic and the pace of vaccination.



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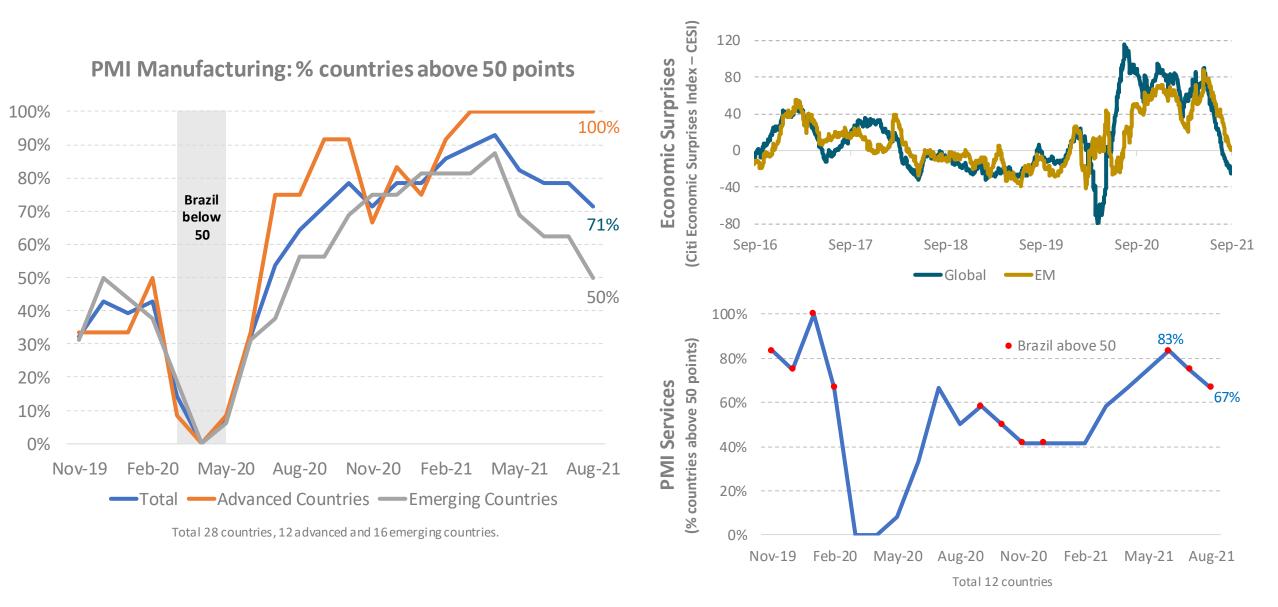
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Sources: Bloomberg, Eurostat

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Economic activity

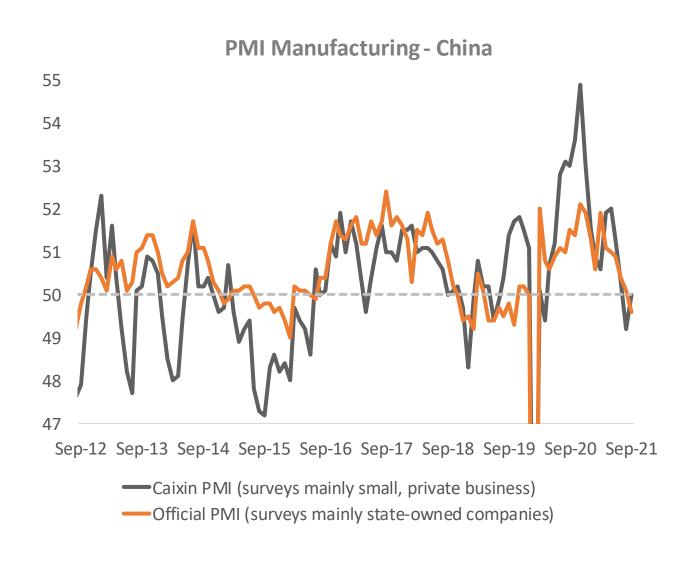




Sources: Refinitiv, Bloomberg.

China: economic activity

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China



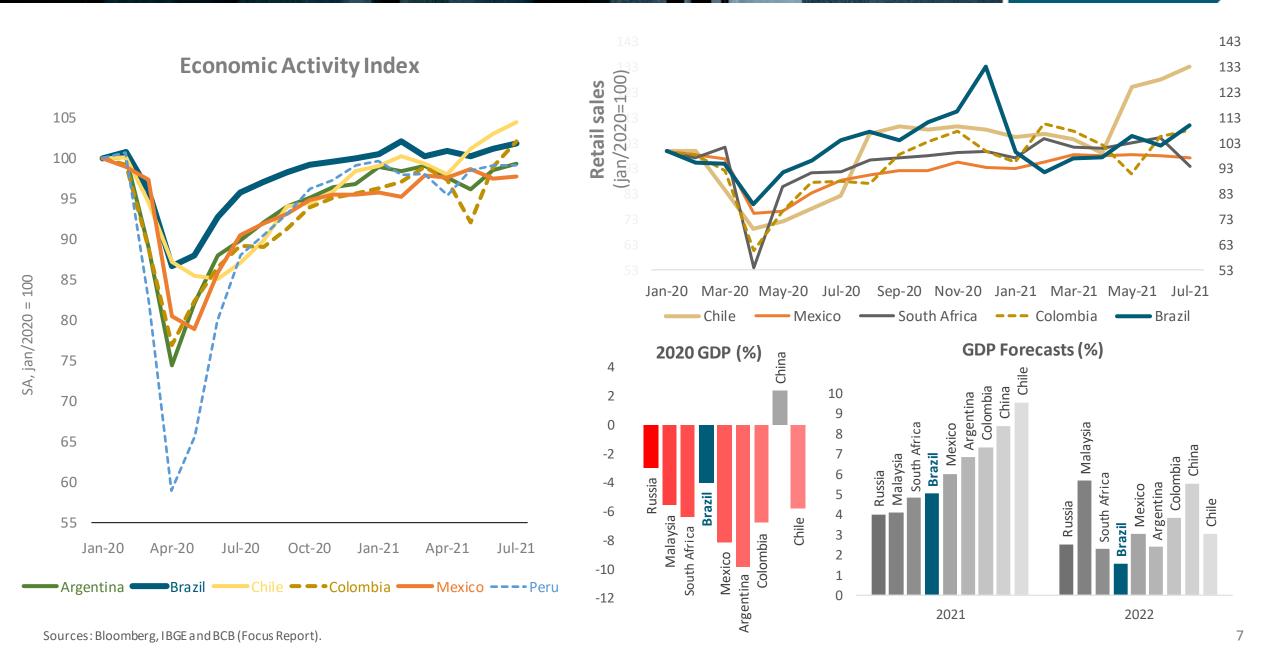


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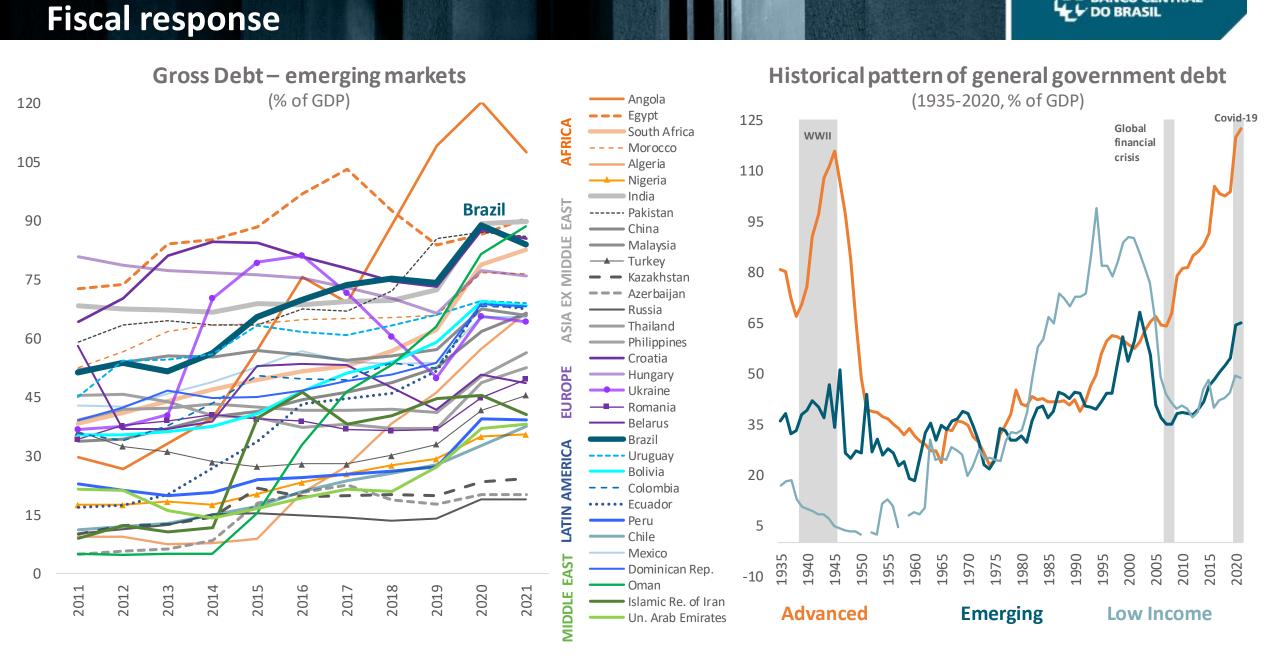
Sources: Caixin-Markit, NBS, Deutsche Bank, Bloomberg

Emerging Economies

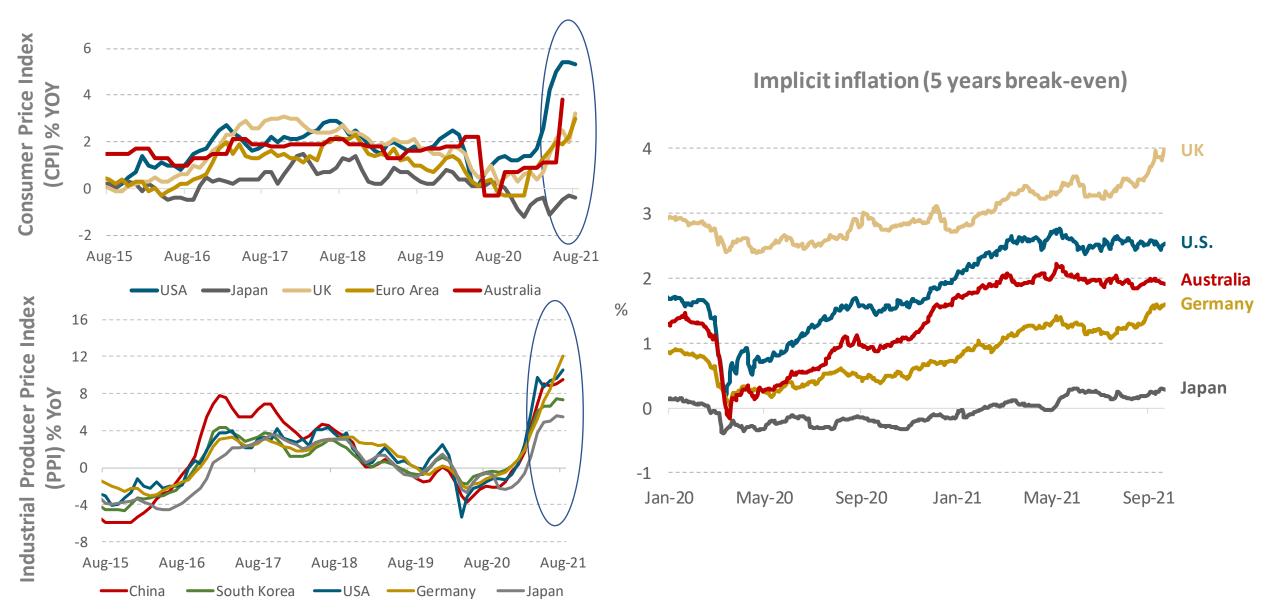
Emerging economies: economic activity



Fiscal policy

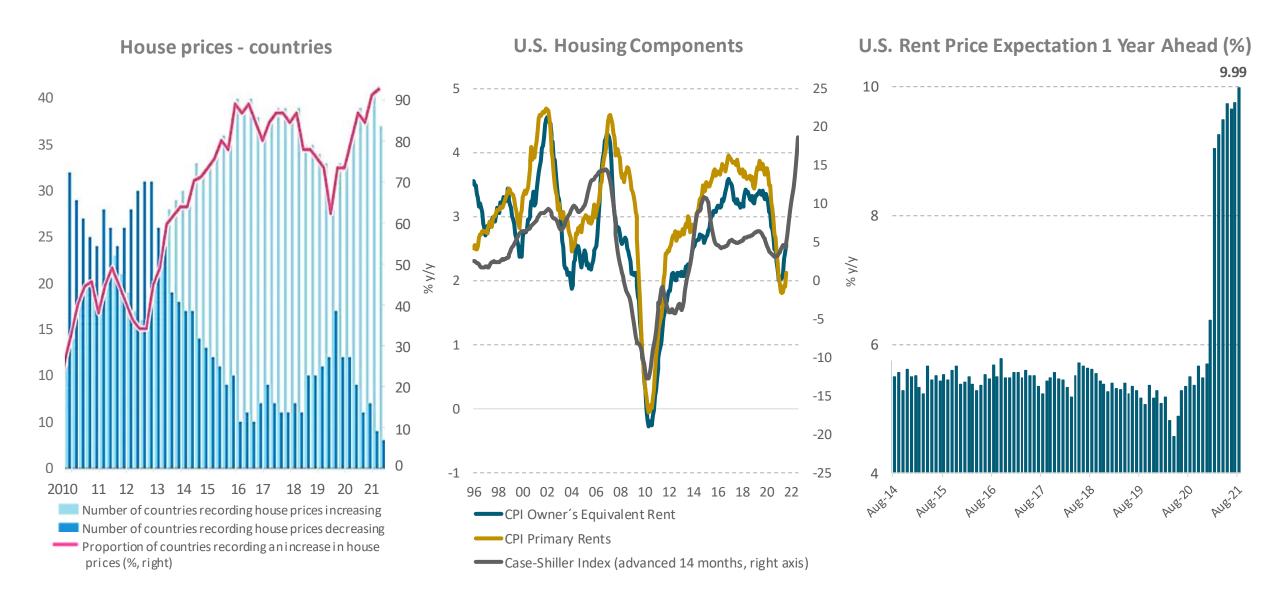


GLOBAL ECONOMY Inflation Advanced economies: inflation



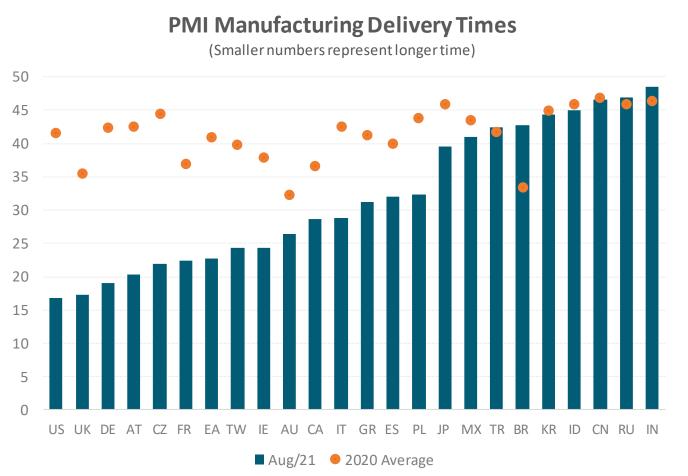
Housing prices

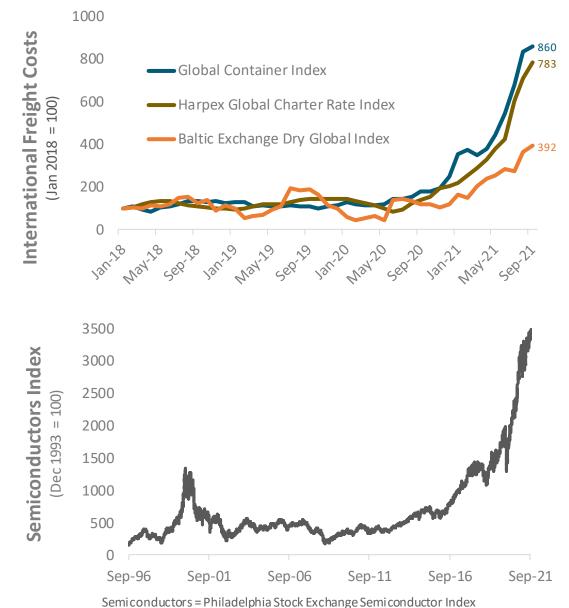
Markets



Sectoral bottlenecks



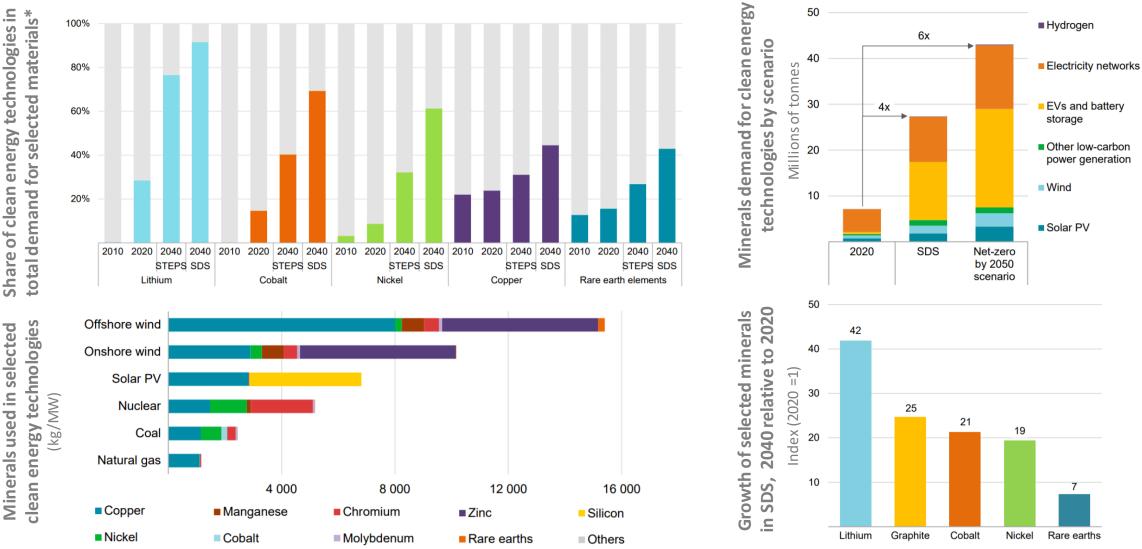




Green inflation

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The transition for a greener economy is fueling a huge demand for key raw materials.



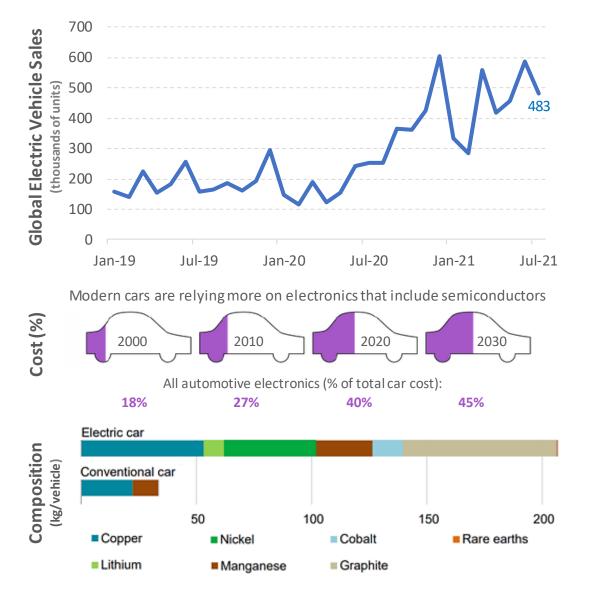
* Demand from other sectors was assessed using historical consumption, relevant activity drivers and the derived material intensity. STEPS = Stated Policies Scenario, an indication of where the energy system is heading based on a sector-bysector analysis of today's policies and policy announcements; **SDS** = Sustainable Development Scenario, indicating what would be required in a trajectory consistent with meeting the Paris Agreement goals.

Source: International Energy Agency (IEA).

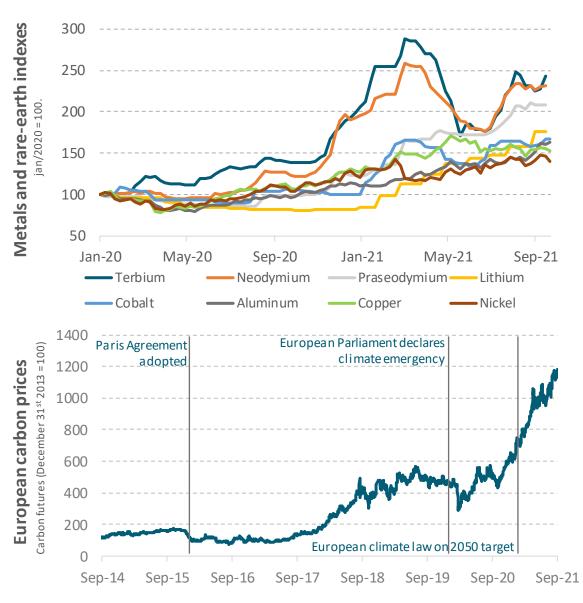
Green inflation (cont.)

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Mineral demand for clean energy technologies is increasing. The climate-change fight is adding to the global inflation.



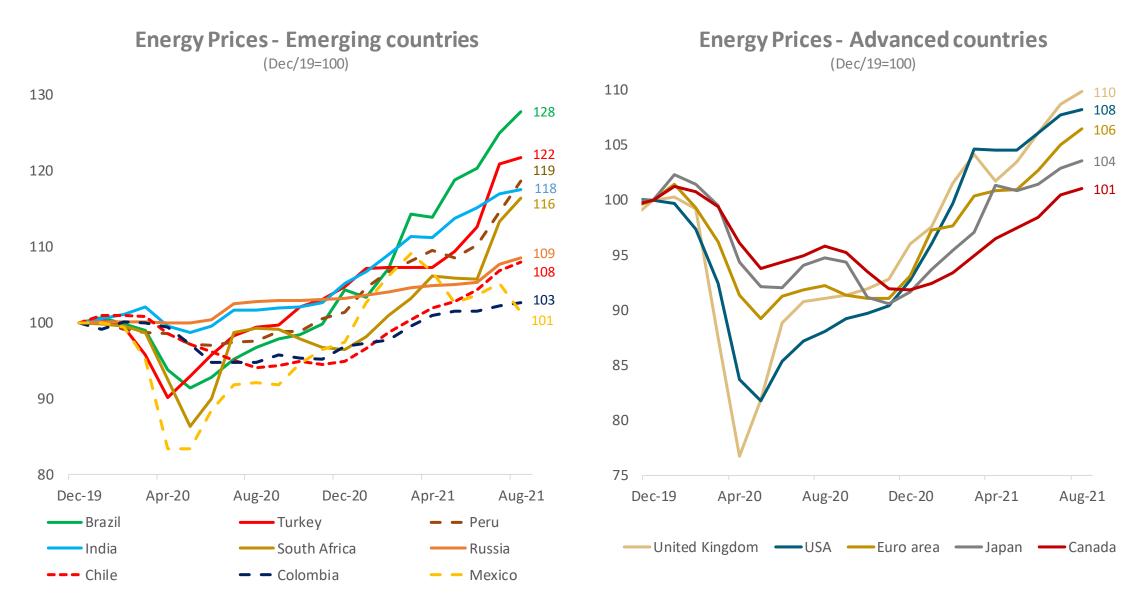




Energy prices

Energy

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Source: Bloomberg.

Commodity prices

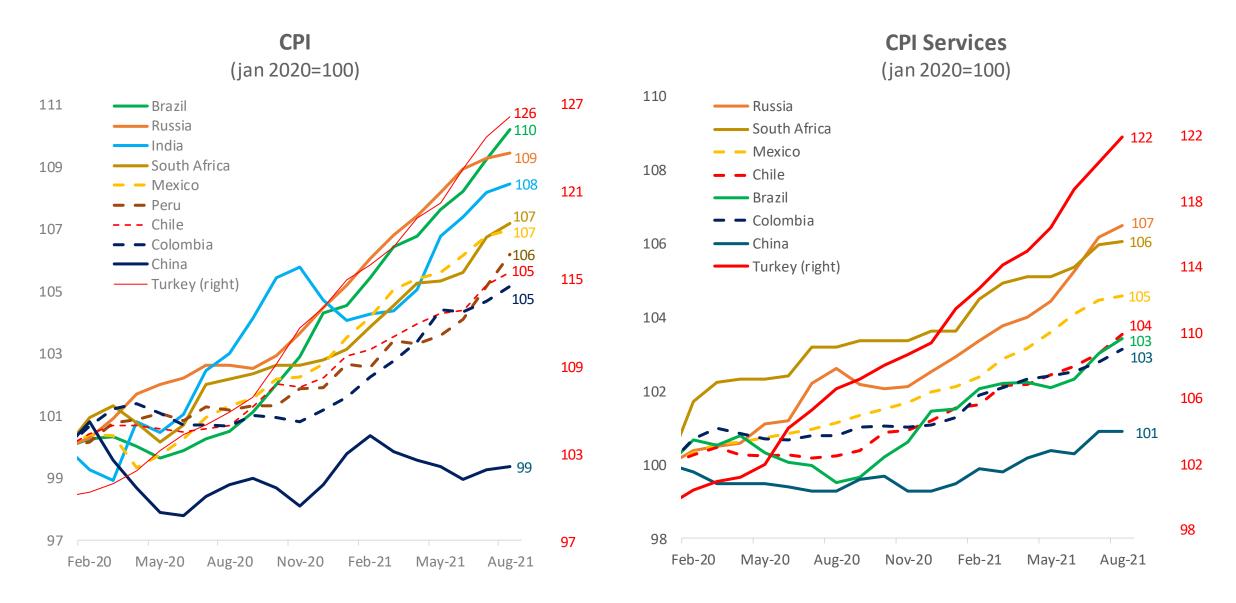
Commodities

Brent, metals, iron ore and grains



Emerging economies: inflation

Inflation

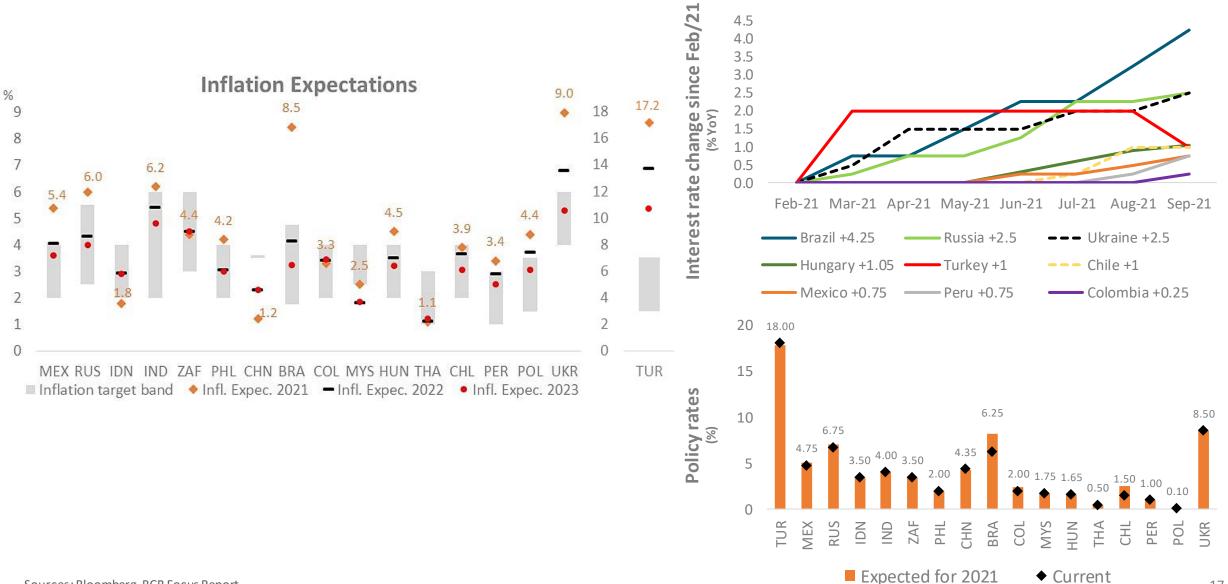


Source: Bloomberg.

EMEs: inflation expectations and monetary policy

Inflation

Several EMEs facing inflation pressures are raising interest rates. Most EMEs remain with inflation expectations anchored.

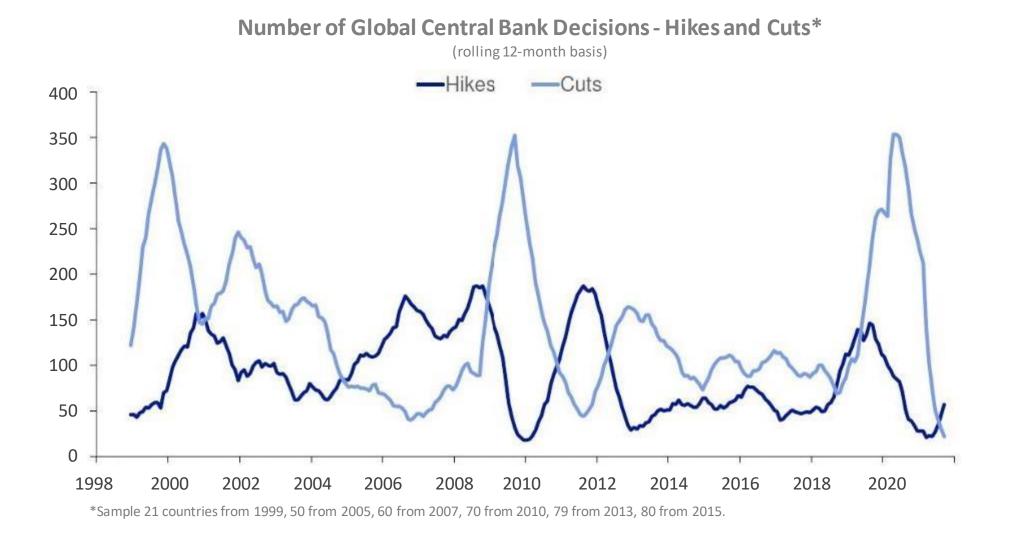


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Monetary Policy

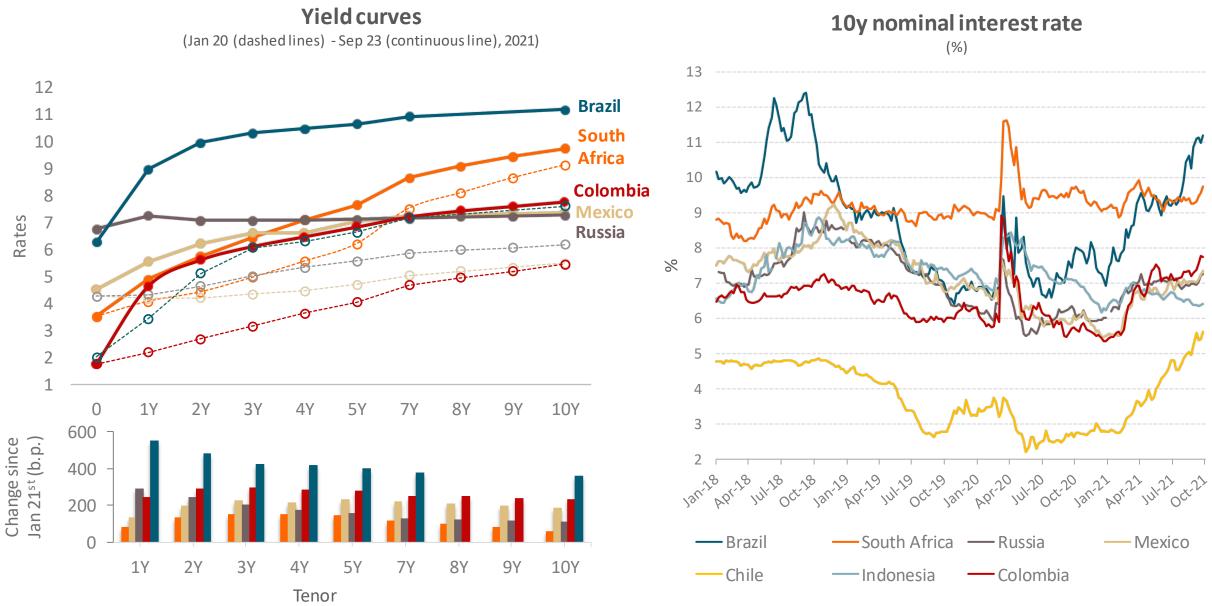
Monetary Policy

In terms of global central bank decisions of hikes exceeding cuts, we are now at the highest differential for a decade.



EMEs: interest rates



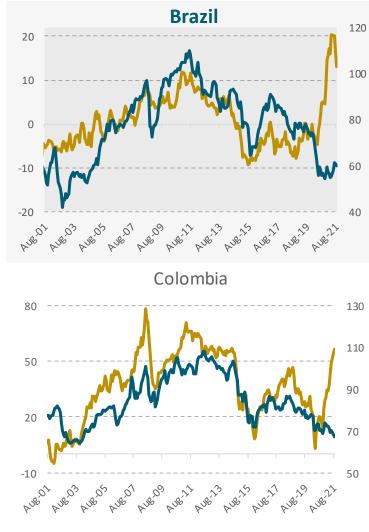


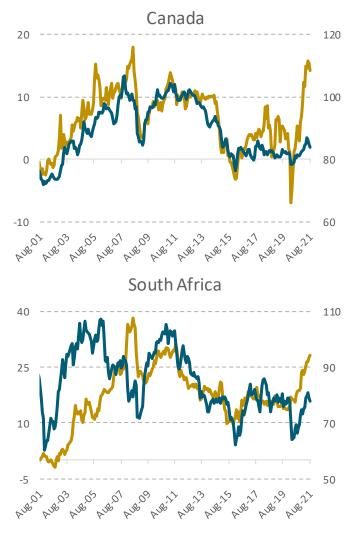
Sources: Bloomberg.

Real FX rate and terms of trade

Indexes of effective foreign exchange rate and terms of trade detached







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——Terms of trade ——Real effective exchange rate (right)

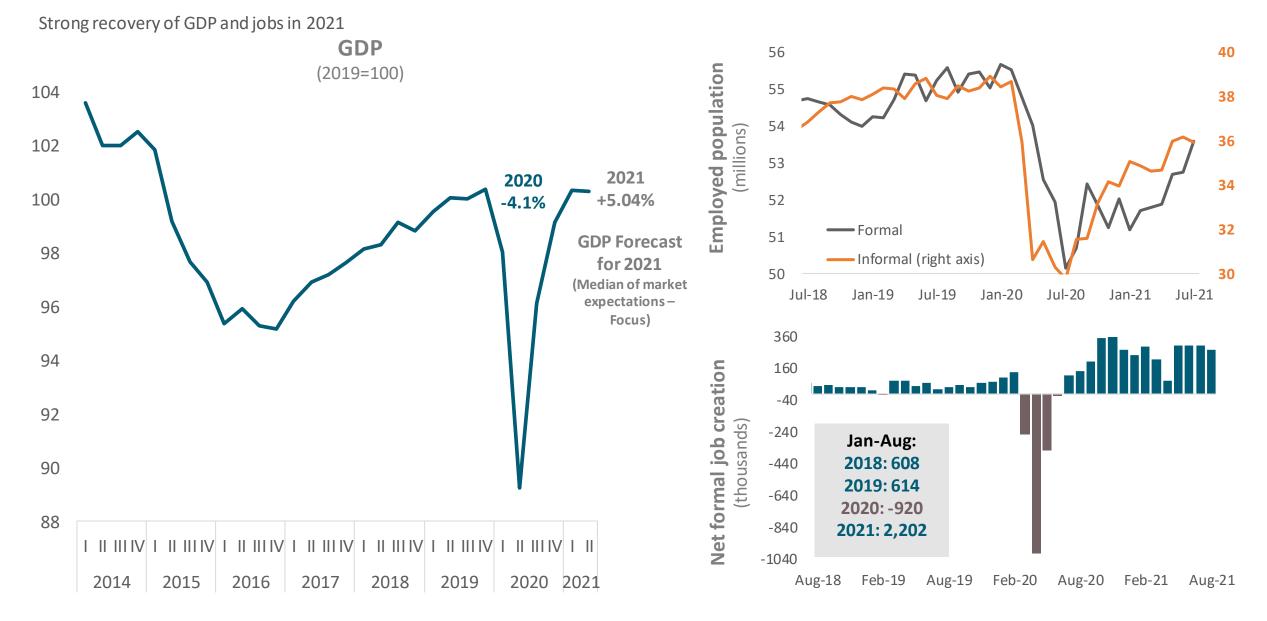
Source: Bloomberg

DOMESTIC ECONOMY

Economic Activity

Brazil: GDP and labor market

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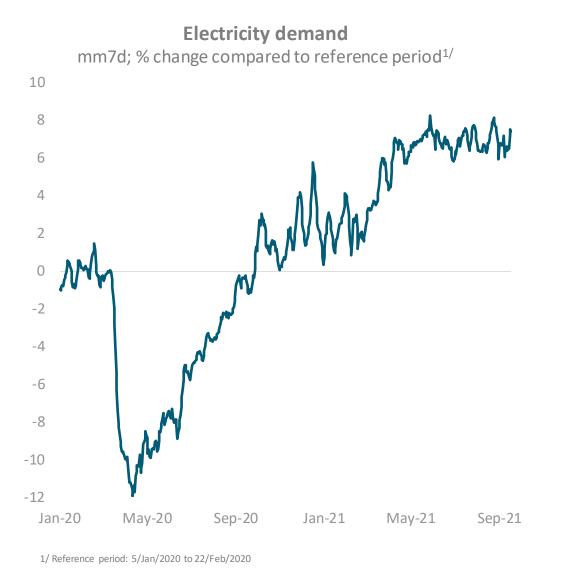


Sources: [1] IBGE and Focus Report. [2] Sources: IBGE's PNADC (seasonally adjusted by BCB); [3] Ministério do Trabalho.

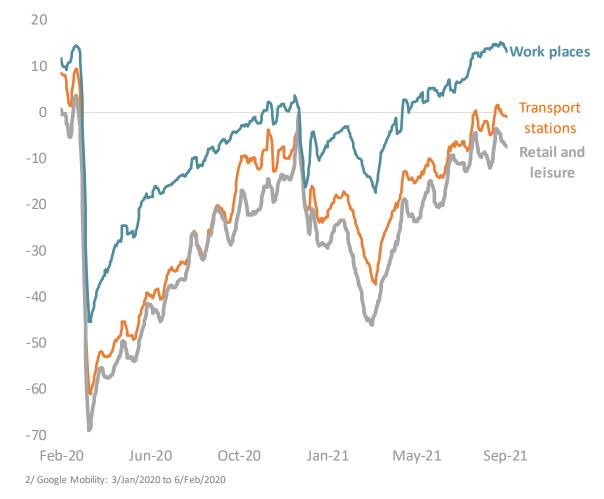
DOMESTIC ECONOMY

Economic Activity

High frequency indicators



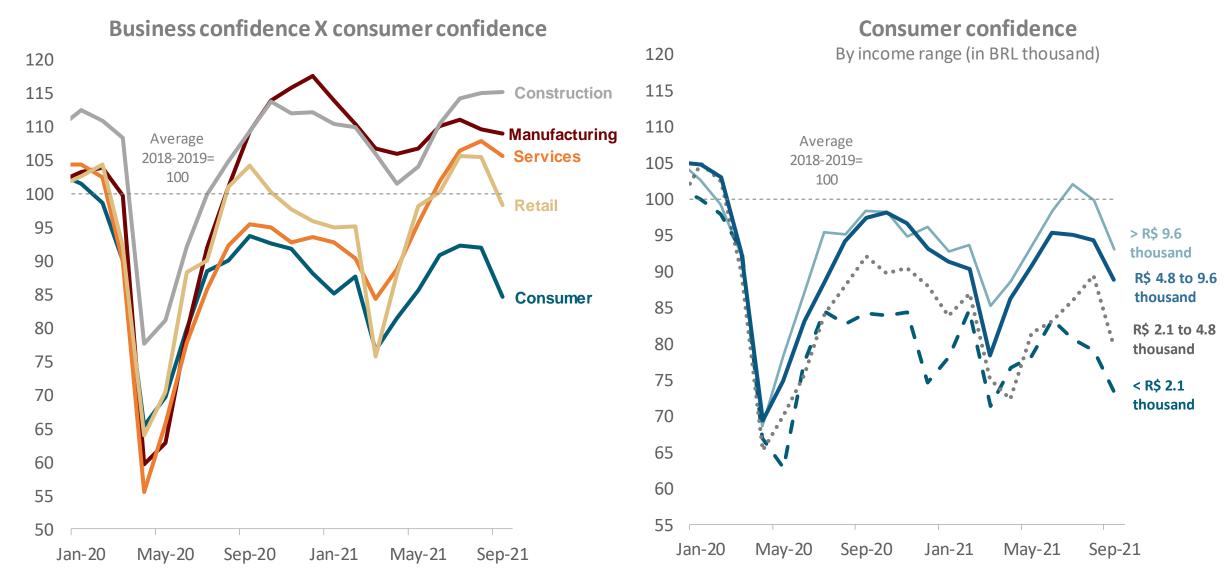
Mobility indicator mm7d; % change compared to reference period^{2/}



DOMESTIC ECONOMY E

Economic Activity

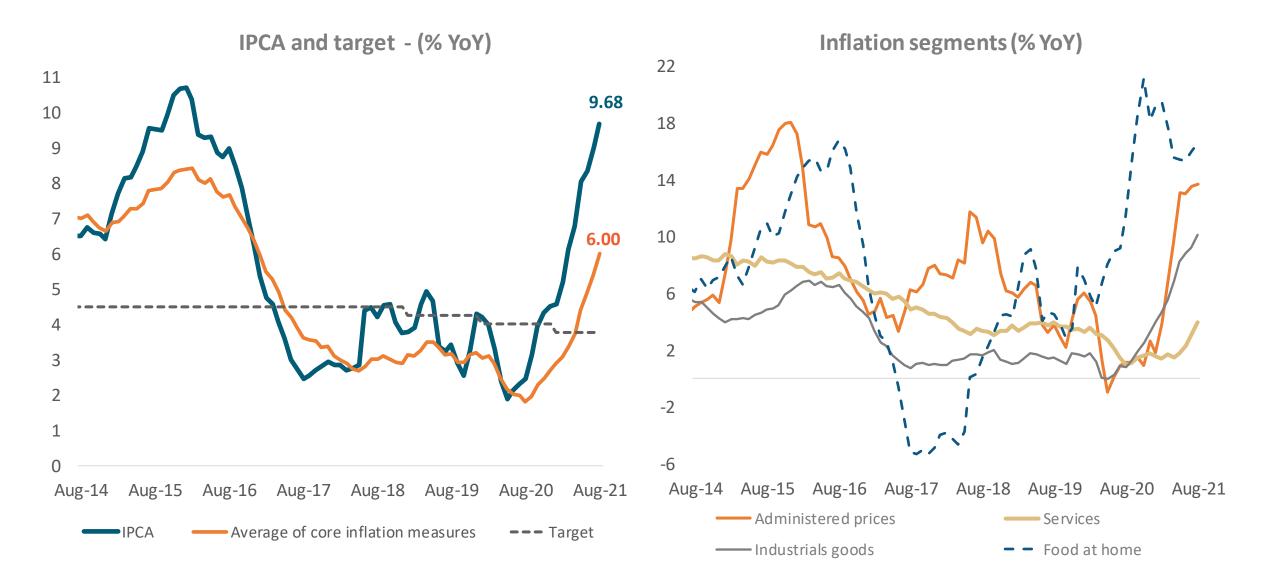
Confidence indicators



Source: FGV. Seasonally adjusted data.

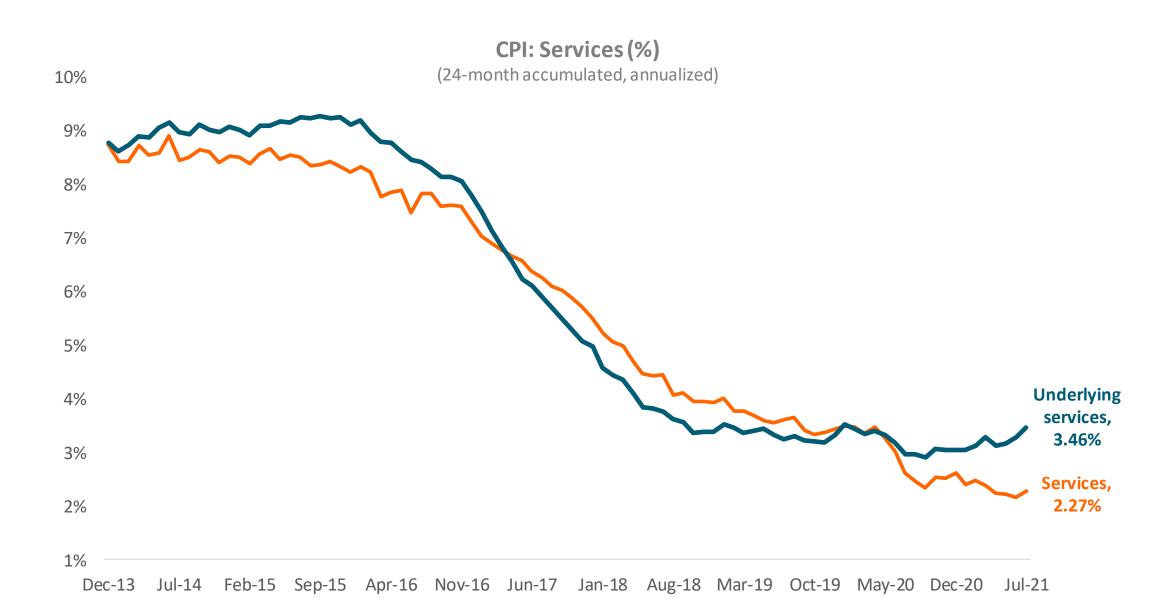
DOMESTIC ECONOMY Consumer inflation

Inflation



CPI: Services

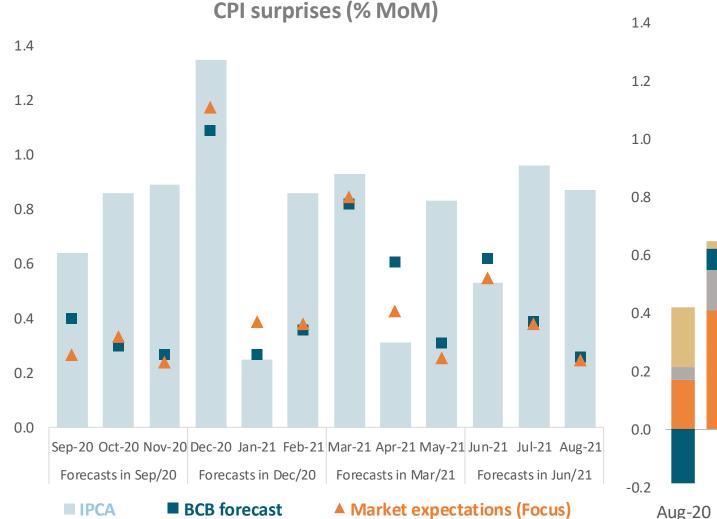
Inflation



DOMESTIC ECONOMY

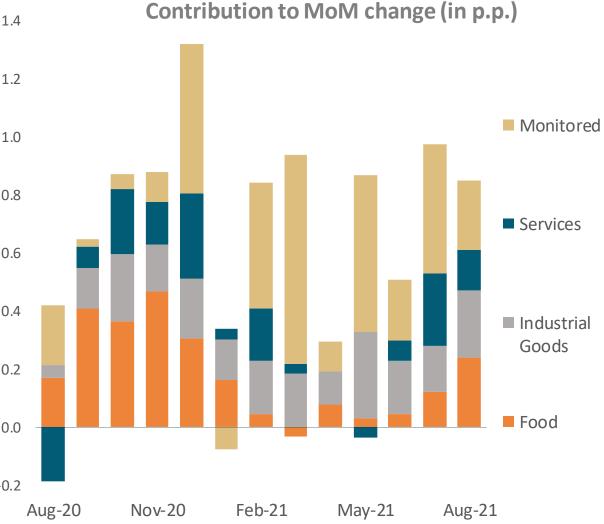
CPI: Surprises and decomposition

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Inflation

The date of the projections (in September, December, March and June) corresponds to the cutoff date of the Central Bank of Brazil Inflation Report.

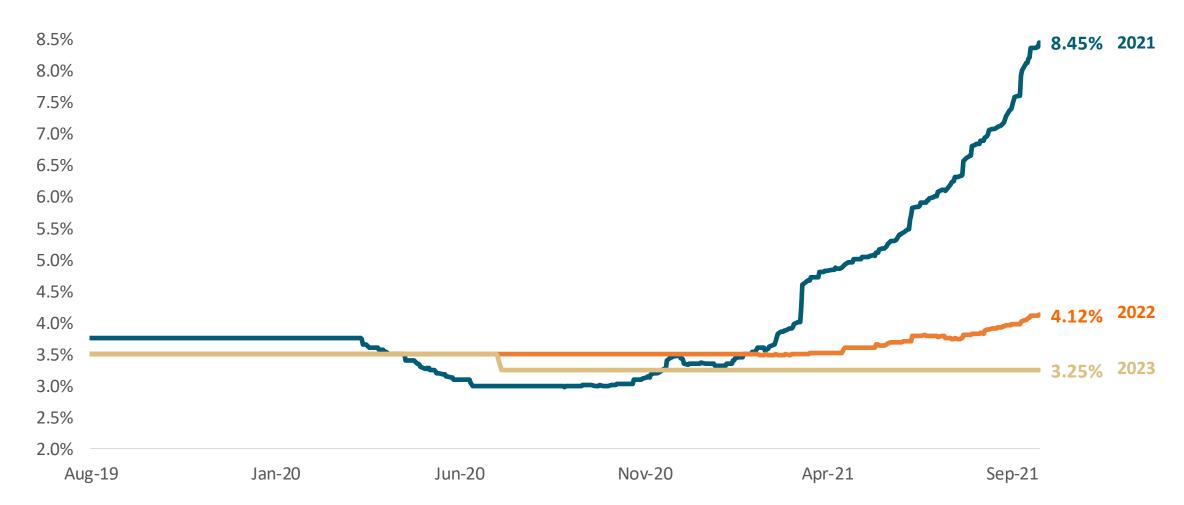


Sources: IBGE, BCB.

DOMESTICECONOMYInflationInflation expectations for CPI

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Market expectations – Focus (% p.y.)



Monetary policy

241st Copom Meeting – September 2021

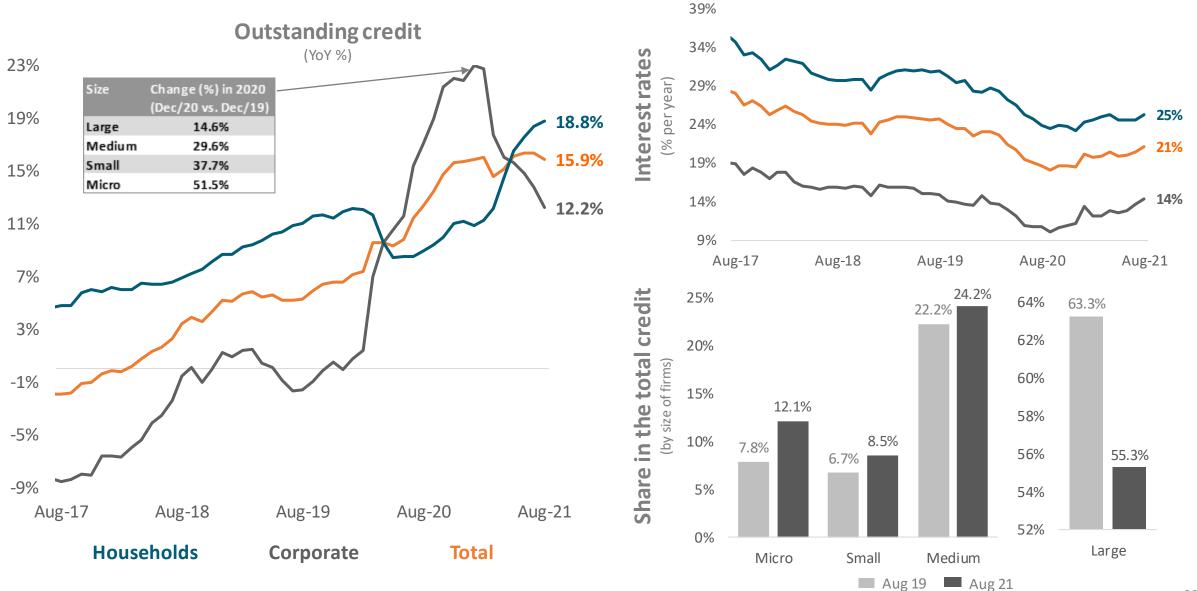
- In its 241st meeting, the Copom unanimously decided to increase the Selic rate by 1.00 p.p. to 6.25% p.a.
- The Committee judges that this decision reflects its baseline scenario for prospective inflation, a higher-thanusual variance in the balance of risks, and is consistent with the convergence of inflation to its target over the relevant horizon for monetary policy, which includes 2022 and, to a lesser extent, 2023.
- The Committee considers that, at the present stage of the tightening cycle, this pace is the most appropriate to guarantee inflation convergence to the target at the relevant horizon and, simultaneously, allow the Committee to obtain more information regarding the state of the economy and the persistence of shocks.
- At this moment, the Copom's baseline scenario and balance of risks indicate as appropriate to advance the process of monetary tightening further into the restrictive territory.
- For the next meeting, the Committee foresees another adjustment of the same magnitude. The Copom emphasizes that its future policy steps could be adjusted to ensure the achievement of the inflation target and will depend on the evolution of economic activity, on the balance of risks, and on inflation expectations and projections for the relevant horizon for monetary policy.

DOMESTIC ECONOMY

Credit Market

Credit in the National Financial System

Credit continue to increase. Interest rates close to historically low levels.

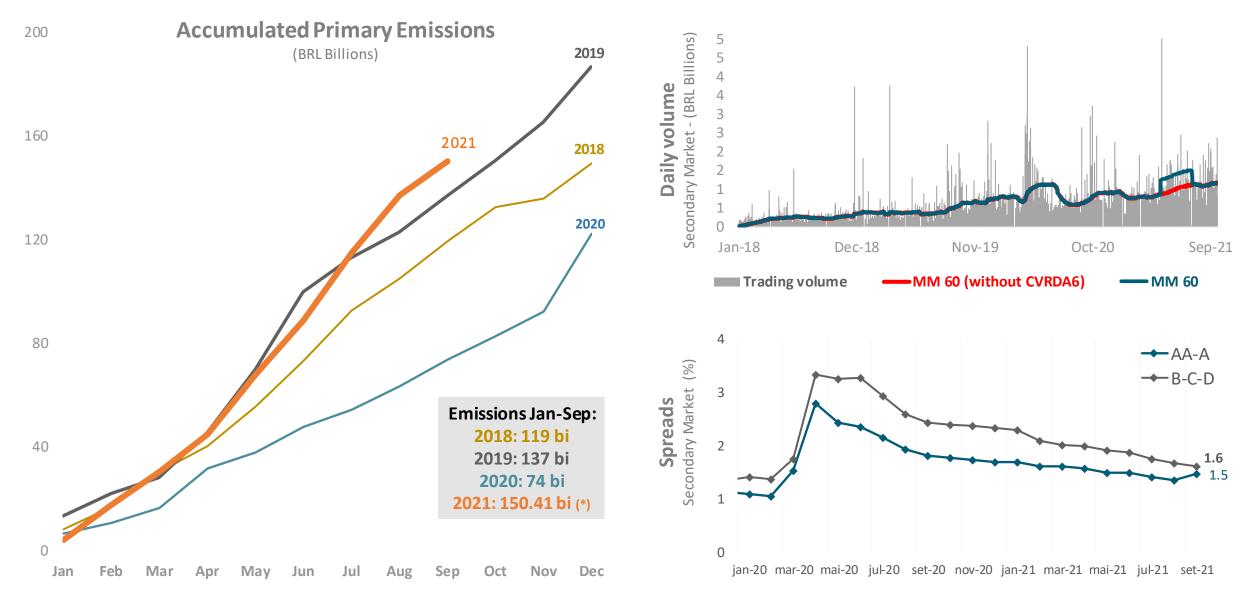


DOMESTIC ECONOMY

Credit Market

Corporate Credit





Source: B3. (*) until September 27th, 2021.

General Government Gross Debt (GGGD)

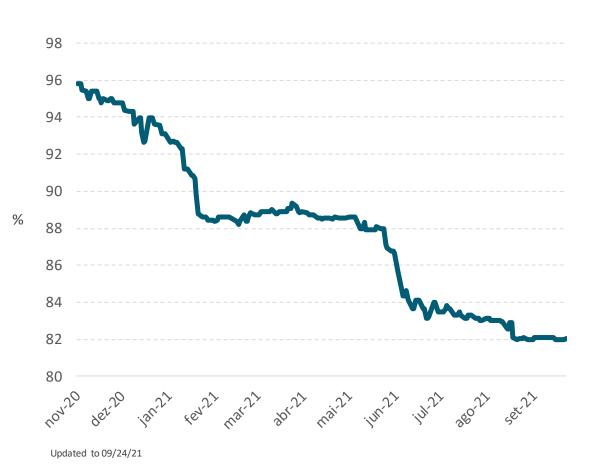
Fiscal

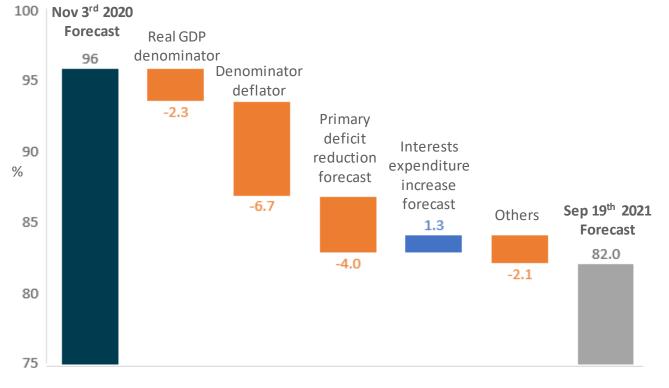


(Focus median)



(disaggregated)





* Approximate decomposition of the Focus median forecast evolution for GGGD/GDP. Each variable median is considered separately. GDB deflator constructed from Focus CPI forecast. Interest expenditure implicitly calculated from primary and nominal fiscal results forecast. "Others" are residuals (approximations, methodological compatibility, etc.).

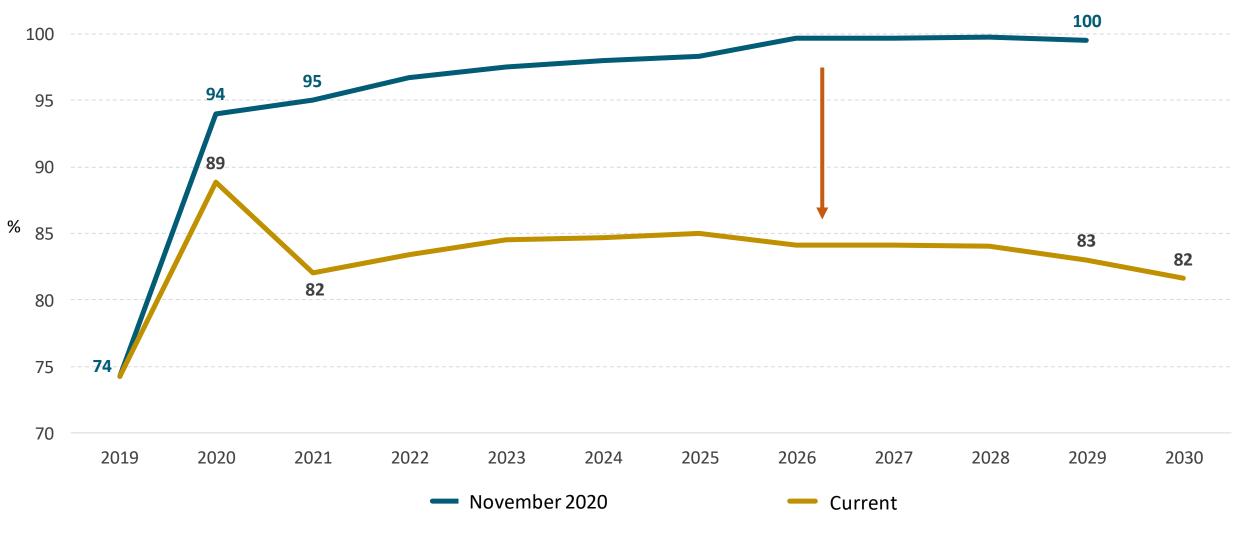
General Government Gross Debt (GGGD)

Fiscal

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Evolution of GGGD/GDP forecast

(median of market analysts forecast - Focus)





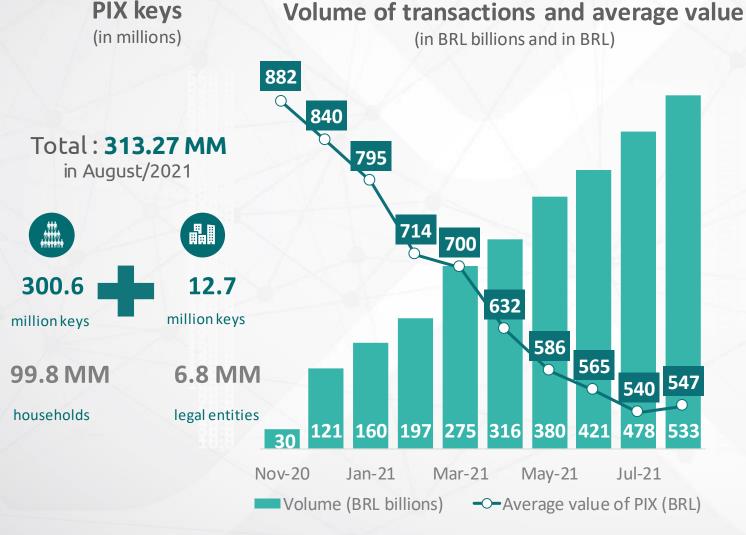


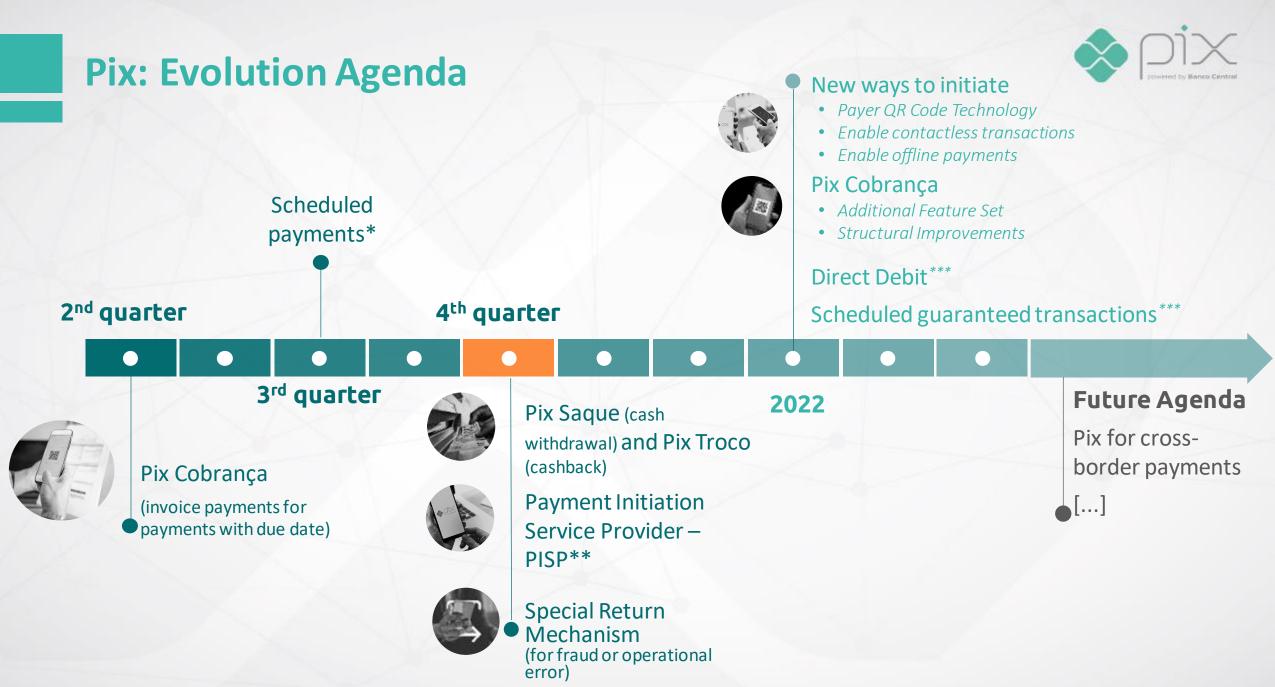
	#Inclusion	Cooperative credit Microcredit Currency convertibility Initiatives for capital market	
	#Competitiveness	Innovation Market efficiency International reserves	
	#Transparency	Rural credit Housing credit Relationship with Congress Transparency of Monetary Policy Communication plan for BCB actions Relationship with foreign investors Digital Citizenship	
	#Education	Financial education	
	#Sustainability	BCB's S&E responsability Regulation Supervision Partnerships	

Technology Agenda

Pix gains space and becomes popular







*became mandatory **linked to Open Finance ***Publication of Operating Rules by BCB, Go Live to be defined

AGENDA BC# Open Finance

• Implementation will be gradual

Goals:

- To promote competition, efficiency and data safety
- Proper balanced conditions between existing financial institutions and new players





Solutions that can be developed from Open Finance:



Devices to compare services and fees



Apps for financial advice and planning



Payment initiation in social medias



Credit marketplace

AGENDA BC#

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II Y T

Modernization of exchange rate legislation

- Proposal:
 - Establishing a modern, compact, and safe legal framework for FX market.
- Objectives:
 - Simplify the FX legislation and improve the business environment in Brazil.
 - Ease the connections with payment systems of other countries.

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BCB's Regulatory Sandbox starts in 2021 with the Cycle 1.

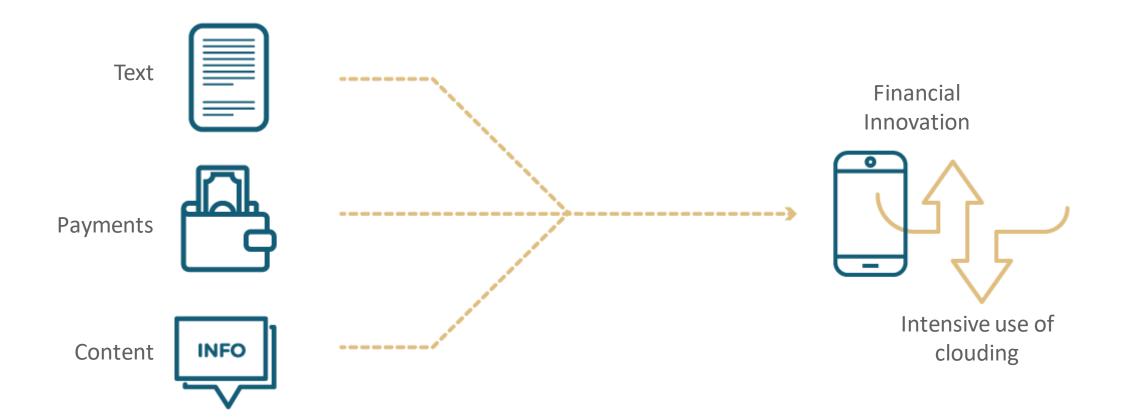


During the sandbox licensing process, BCB will assess whether the submitted projects comply with the definition of innovative project and whether their development is under the regulatory scope of BCB and CMN, among other criteria.

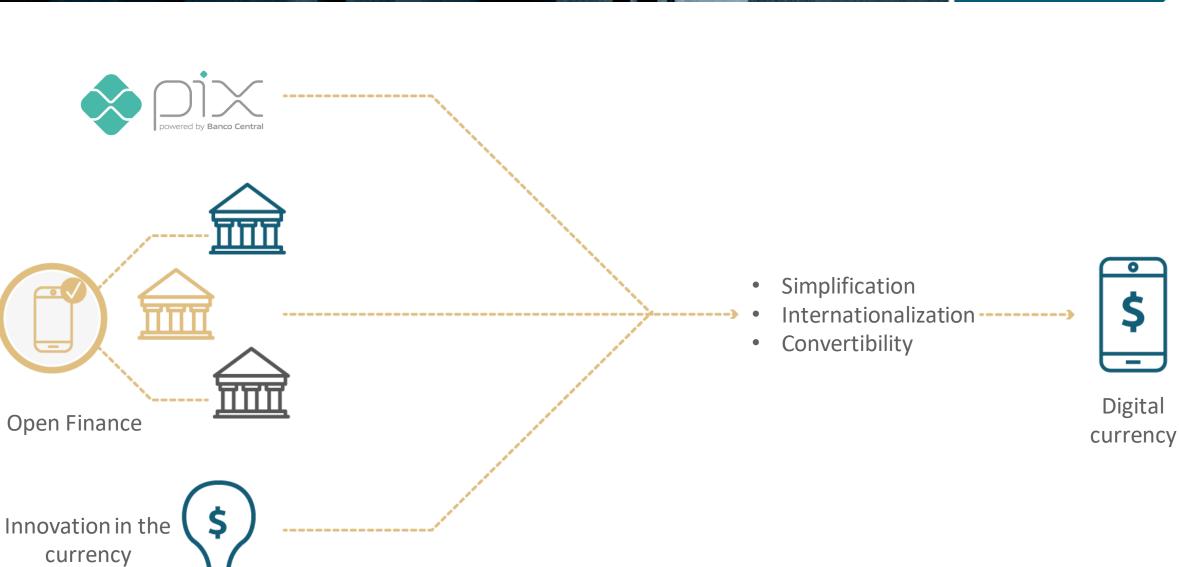
Legal persons, notary and registration service providers, public companies, and semipublic companies can participate, even when not yet fully licensed by BCB.

Simplified monitoring procedures will be adopted, considering the complexity and risks associated to each innovative project and, should BCB deems appropriate, additional limits and criteria may be applied.

By the end of cycle 1, participants may obtain a permanent license from BCB to operate. The projects may be a stepping stone for the improvement of the regulation issued by BCB and CMN.



Innovation in the financial system



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A CBDC for Brazil: The Digital Real



Guidelines:

- Extension of the Brazilian real
- Retail payments
- Innovative models development
- Not be interest-bearing
- Guarantee of legal certainty
- Data privacy and security
- Preventing and combating money laundering
- Interoperability and integration
- High cyber security



Sustainability

Measures:

BC

- BCB's S&E Responsibility
- Partnerships
- Policies
- Supervision
- Regulation

BC# banco central



More technology

The epidemic has accelerated technological change in medicine, education, finance, communication

Common factors in recovery

More sustainable and more inclusive growth

World trade

Changes in global value chains

Vision for the future



Low interest rates and high liquidity in the world

There are challenges, but also opportunities to reinvent the economy with private resources

Impact of possible reflation global conditions on EMEs

Thank you!

Roberto Campos Neto Governor of Banco Central do Brasil October 1st, 2021 BANCO CENTRAL DO BRASIL

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