Goldman Sachs

Brazil's Economic Outlook and Agenda BC#

Roberto Campos Neto Governor of Banco Central do Brasil

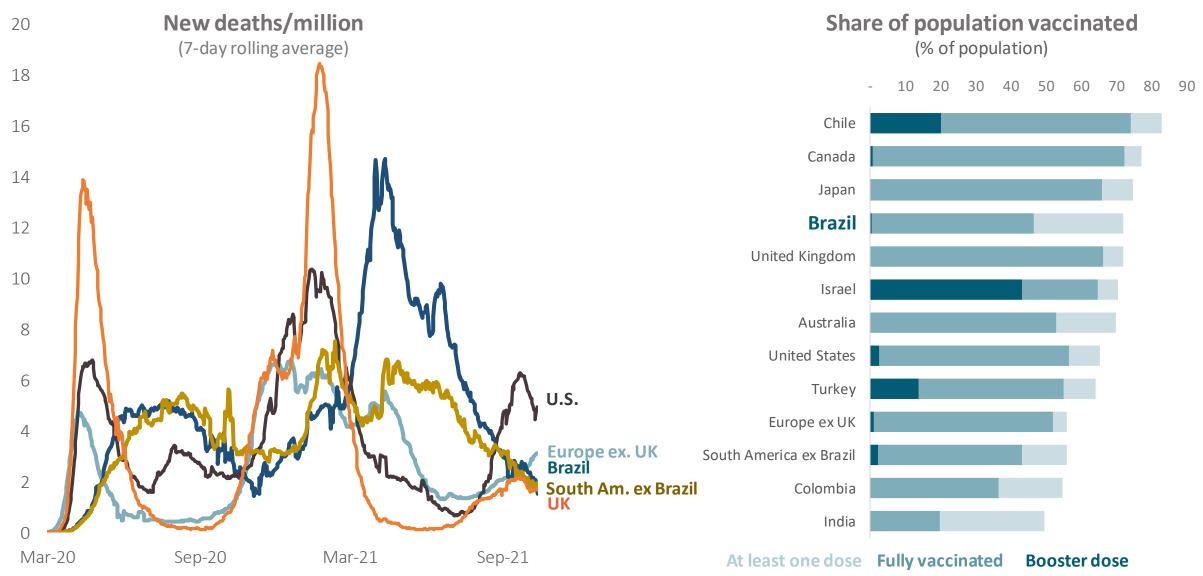
October 15, 2021



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Covid-19: New deaths and vaccination

New deaths fall as vaccination advances



Sources: (1) Our World in Data. Last data: 13 Oct. 2021. (2) Localiza SUS for Brazilian booster doses.

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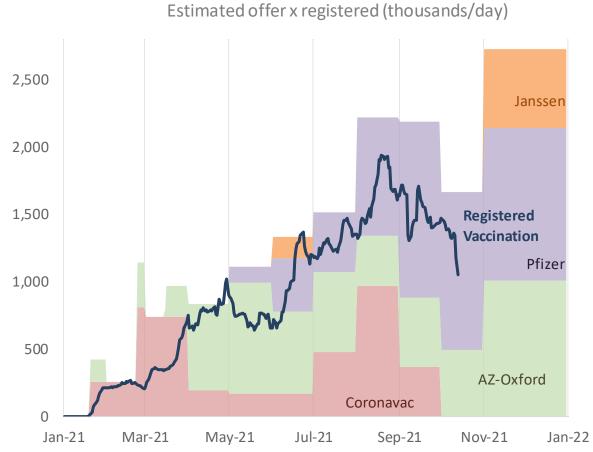
COVID-19

Brazil: Covid-19 vaccination

Brazil

Brazil: daily doses

Brazilian vaccination campaign has advanced.

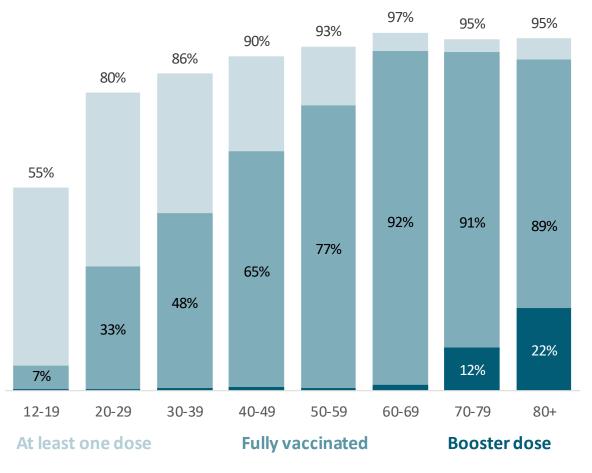


Availability of doses based on a schedule published by the Ministry of Health on October 13th, with adjustments that reflect news published by the press. Scenario considers Astrazeneca-Oxford, Coronavac, Pfizer-BioNTech and Janssen vaccines. Dose delivery schedule subject to changes.

Updated to 10/13/2021

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

Brazil: vaccination by age group (%)

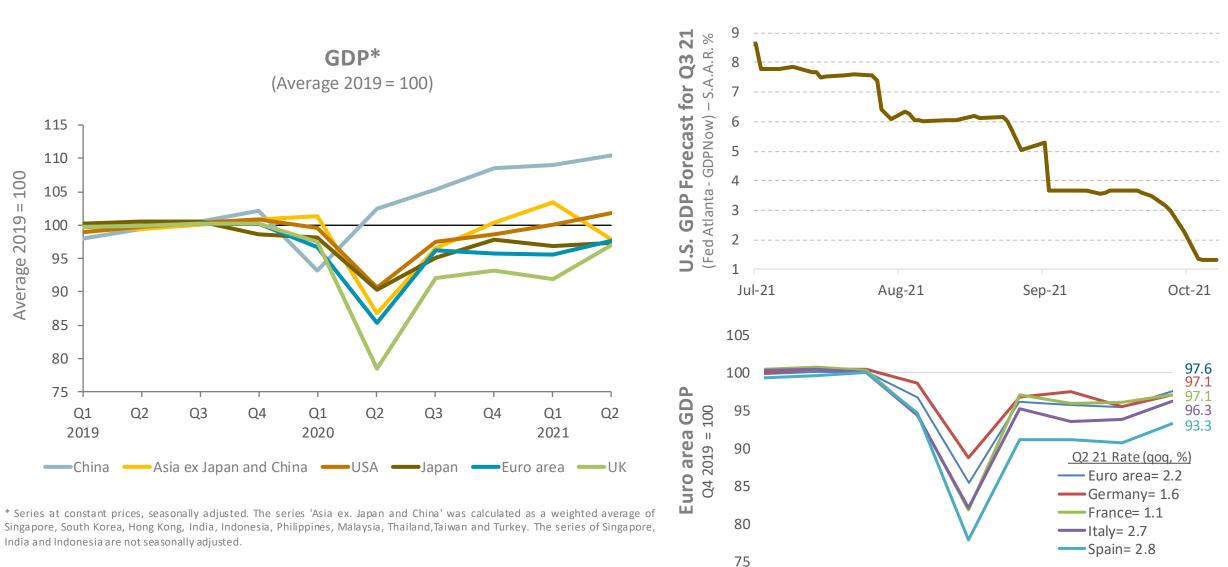


Updated to 10/10/2021

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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Q2 21

04 20

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Sources: Bloomberg, Eurostat

4

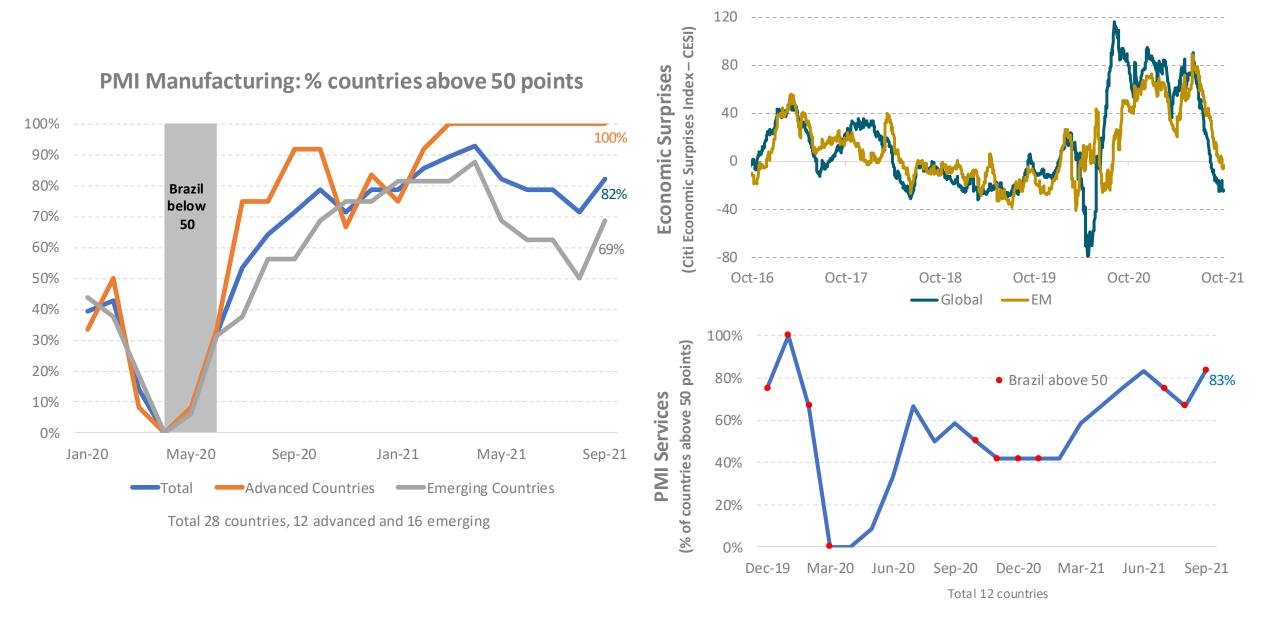
Q2 19

Q2 20

Q4 19

Economic activity

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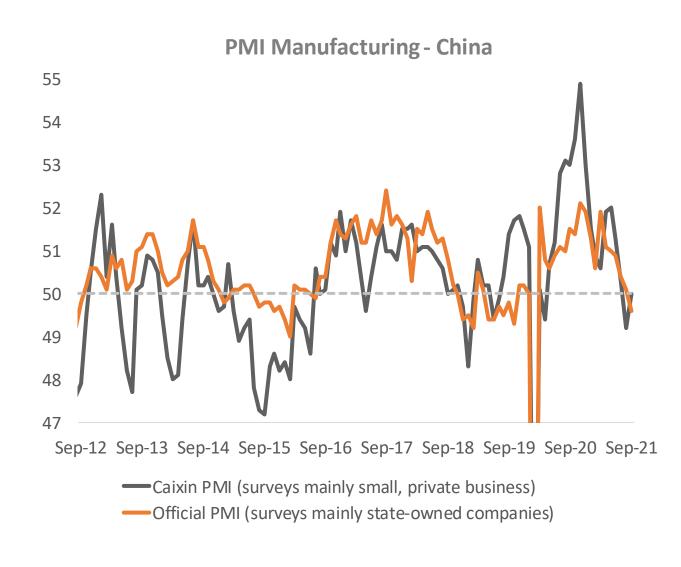


Sources: Refinitiv, Bloomberg.

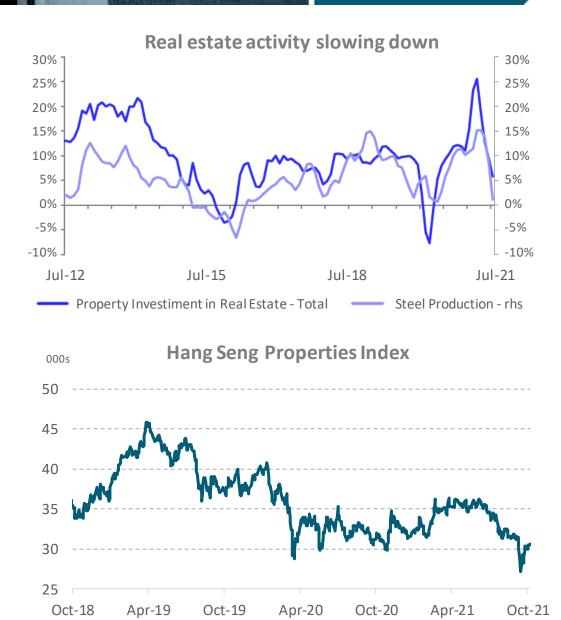
5

China: economic activity

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China

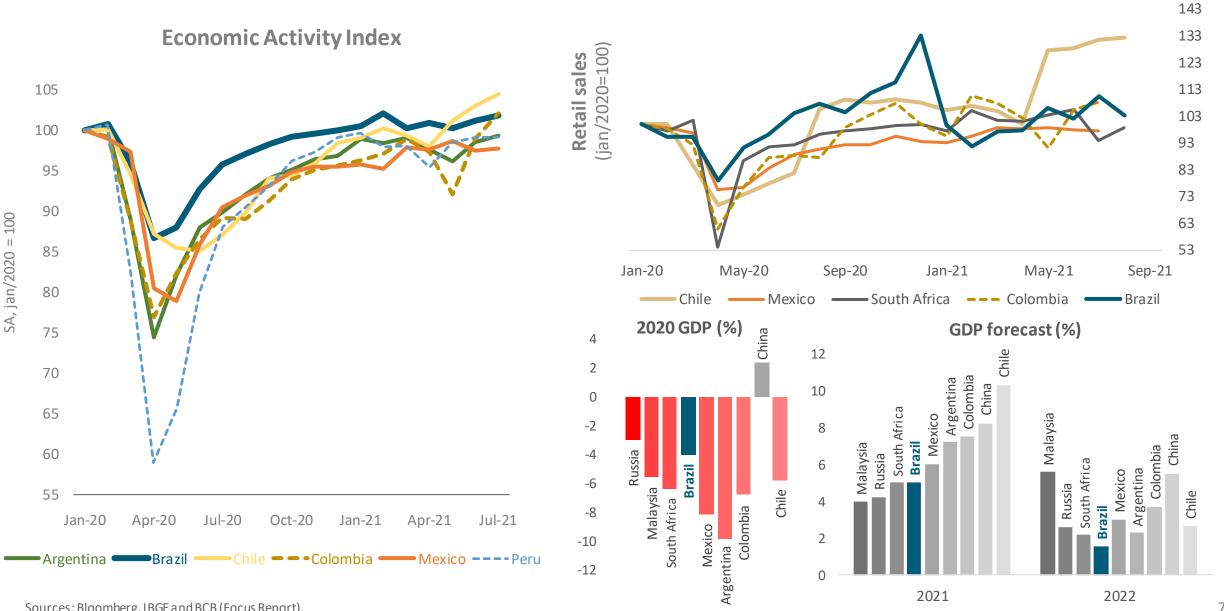


Sources: Caixin-Markit, NBS, Deutsche Bank, Bloomberg

Emerging Economies

Emerging economies: economic activity

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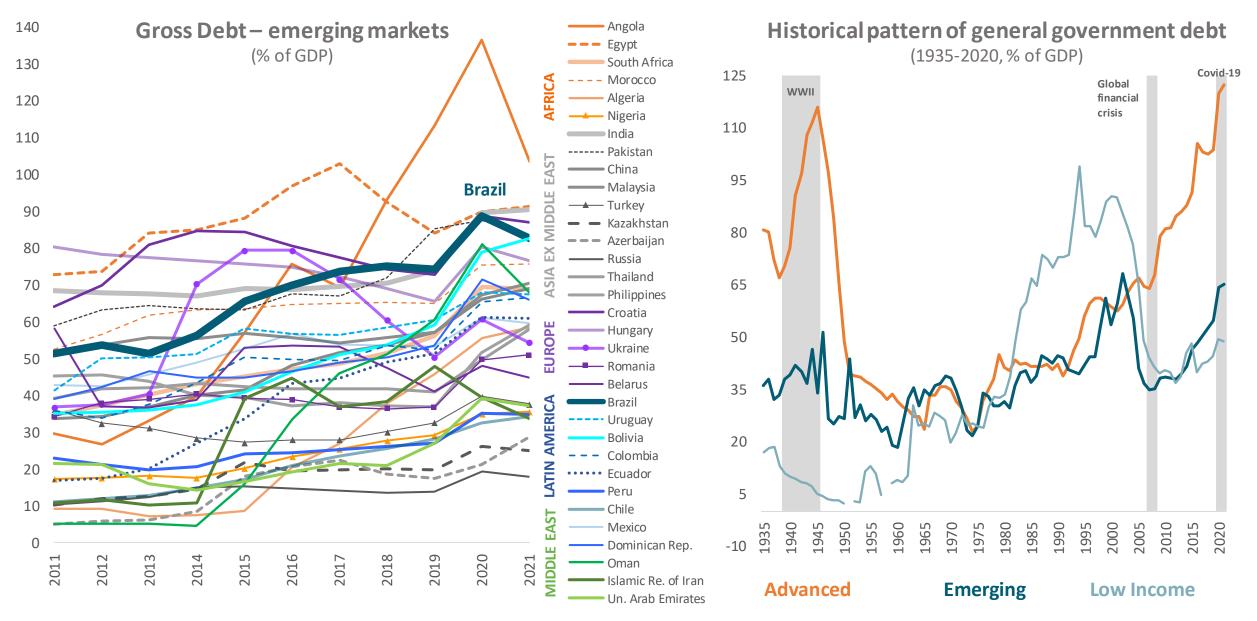


Sources: Bloomberg, IBGE and BCB (Focus Report).

Fiscal policy

Fiscal response

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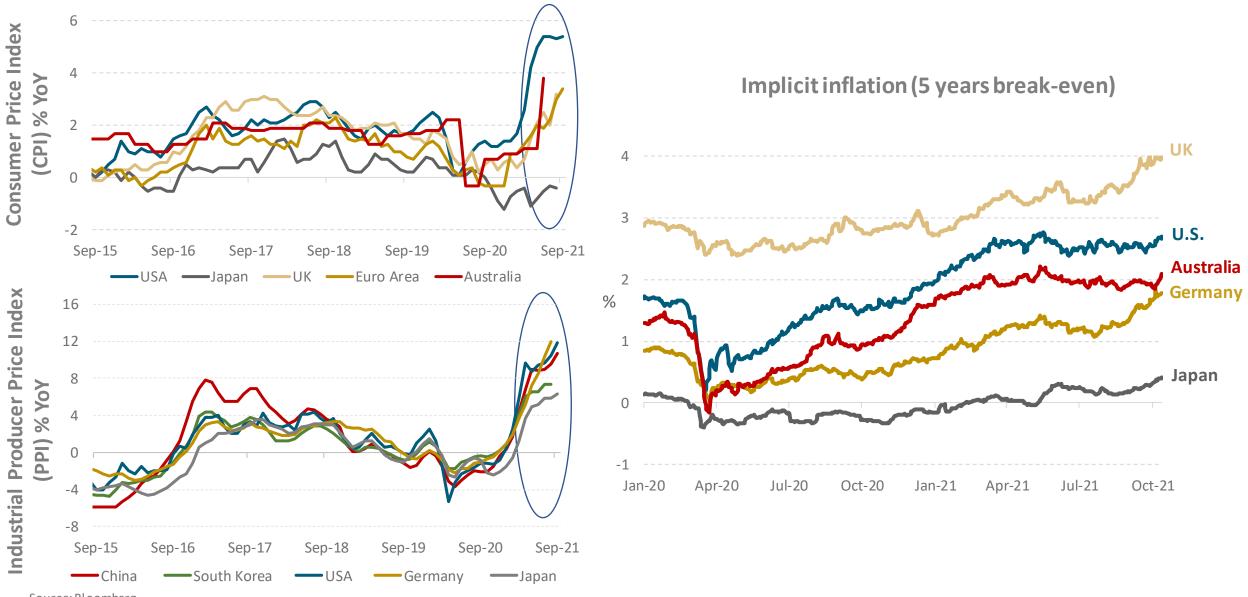


Sources: [1] IMF WEO Oct/21. For Brazil, the source is BCB. Brazil's 2021 figure refers to Aug. [2] IMF Historical Public Debt Database.

Advanced economies: inflation

Inflation

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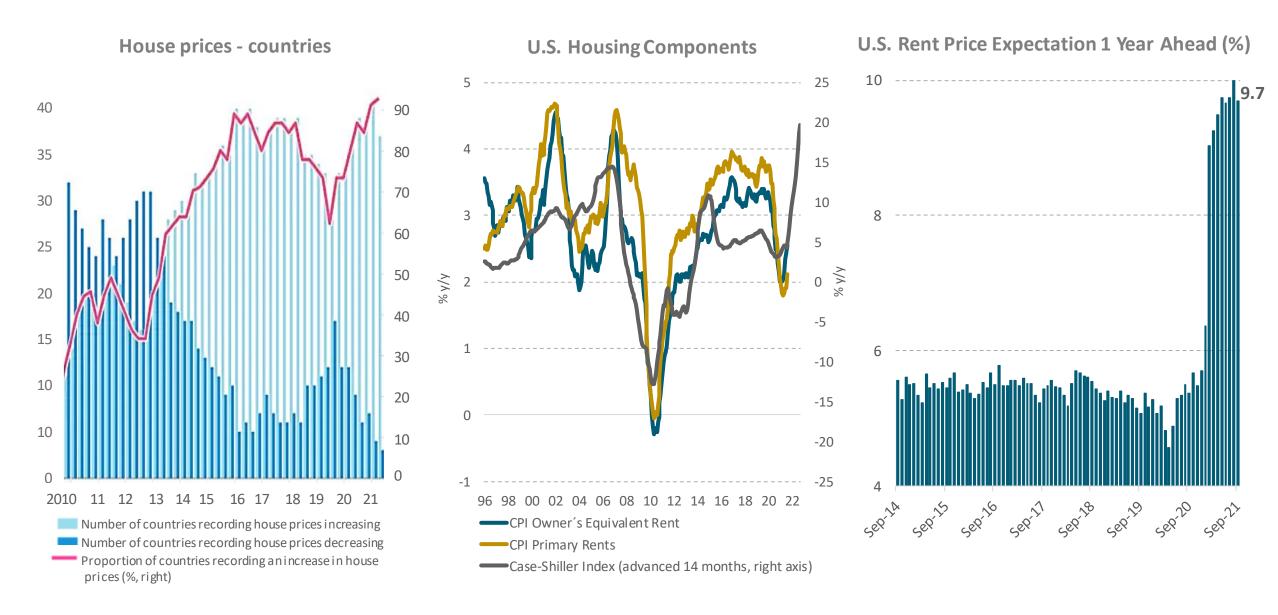


Source: Bloomberg

Housing prices

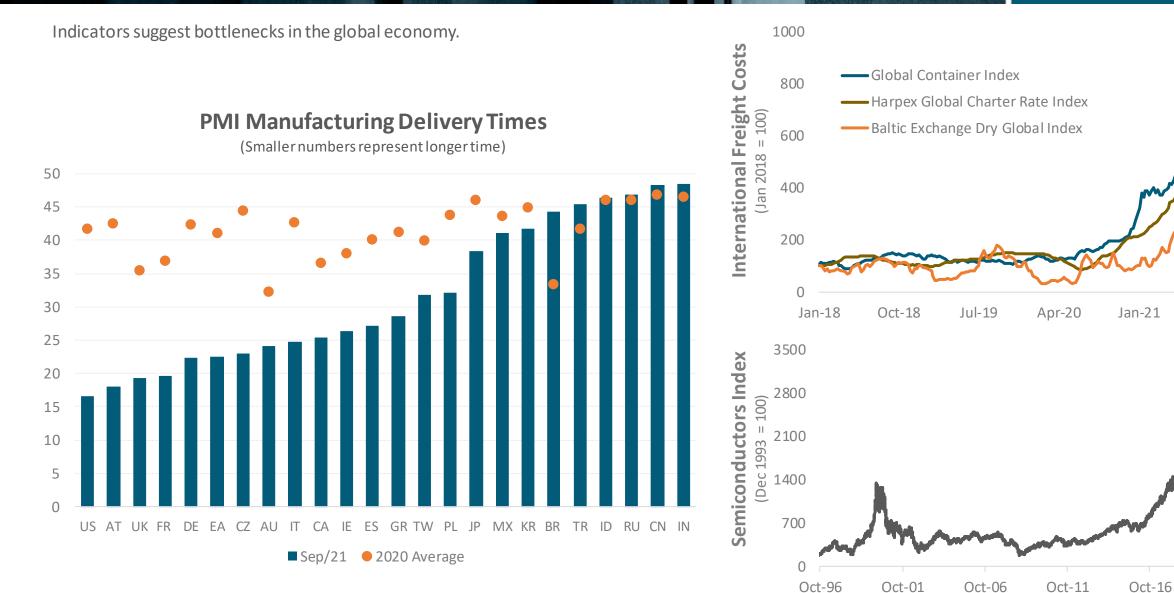
Markets

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Sectoral bottlenecks

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Semiconductors = Philadelphia Stock Exchange Semiconductor Index

Oct-21

827

826

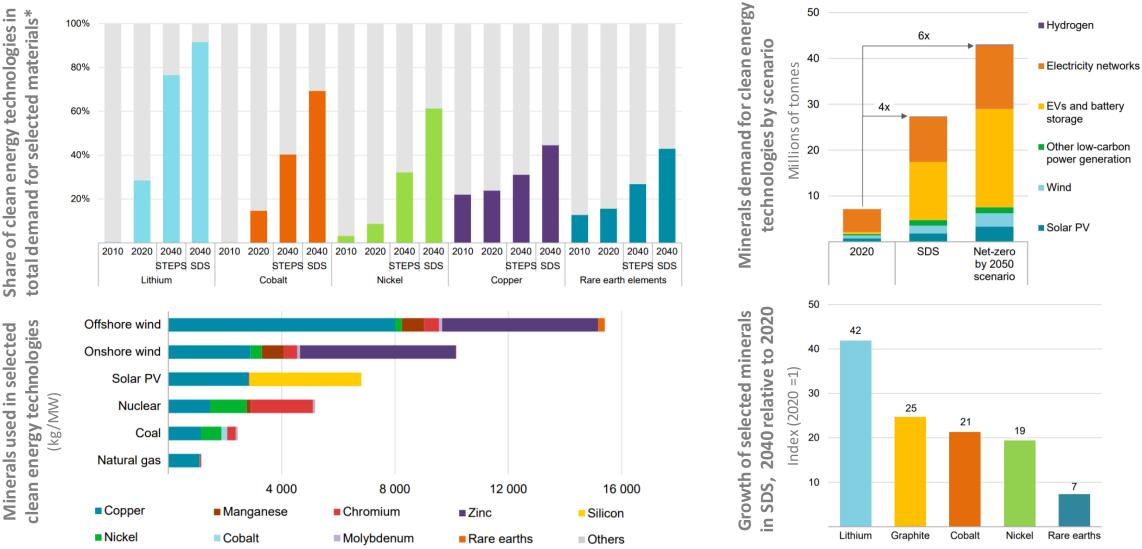
405

Oct-21

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.)

Jan-21

Copper

Oct-18

climate emergency

Apr-21

Jul-21

---- Nickel

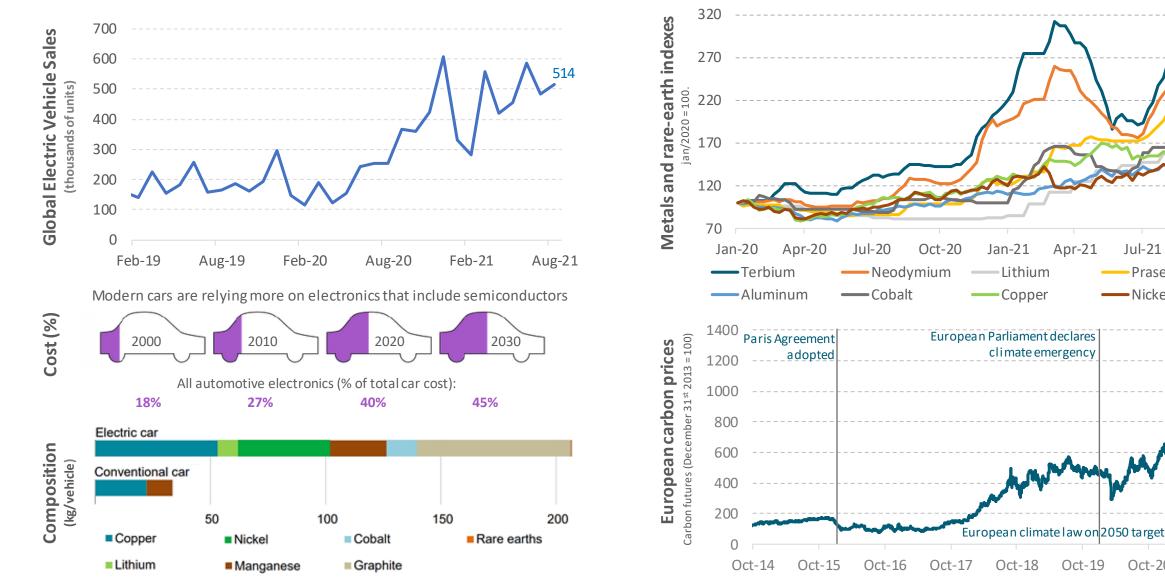
Oct-20

Oct-19

Praseodymium

Oct-21

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

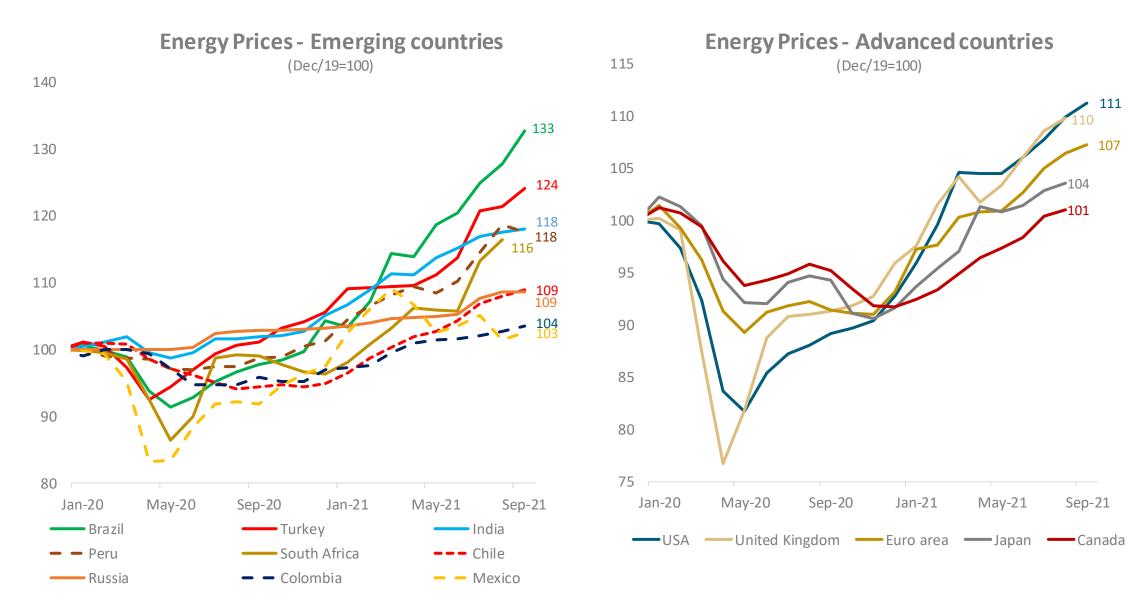


Sources: Researcher and Research (thernrcorp.com), CPM Group, International Energy Agency (IEA), Bloomberg.

Oct-21

Energy prices

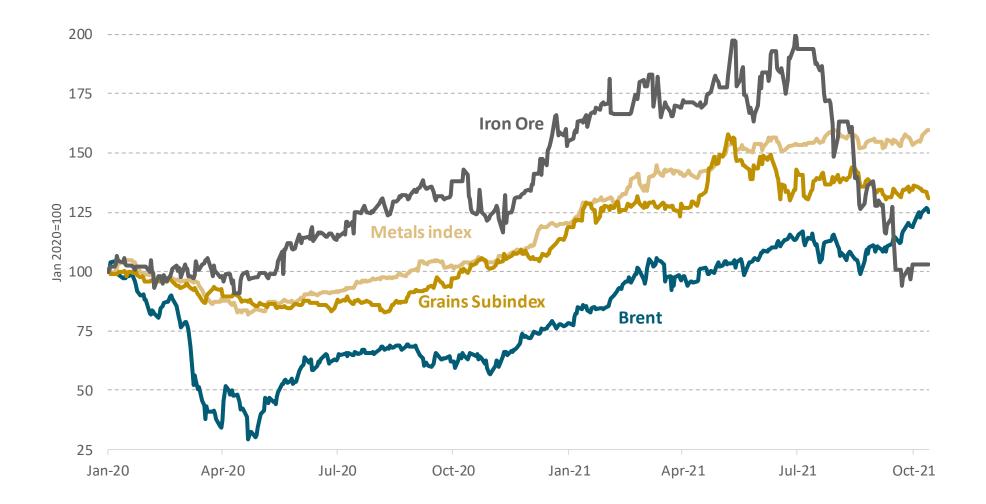
Energy



Commodity prices

Commodities

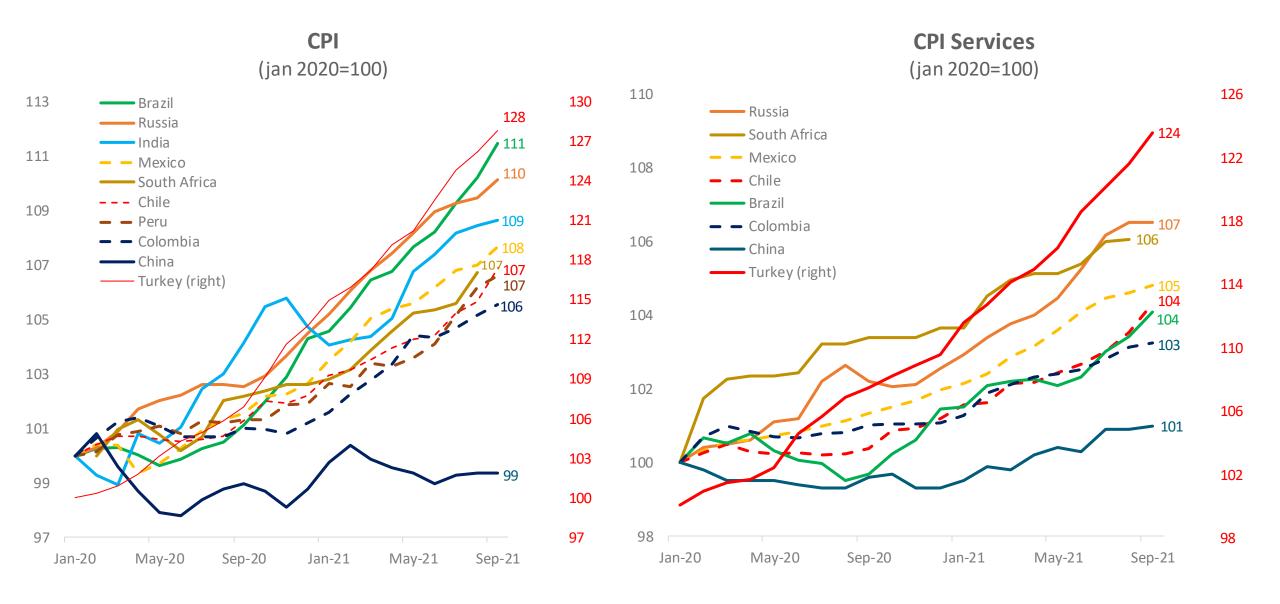
Brent, metals, iron ore and grains



Emerging economies: inflation

Inflation

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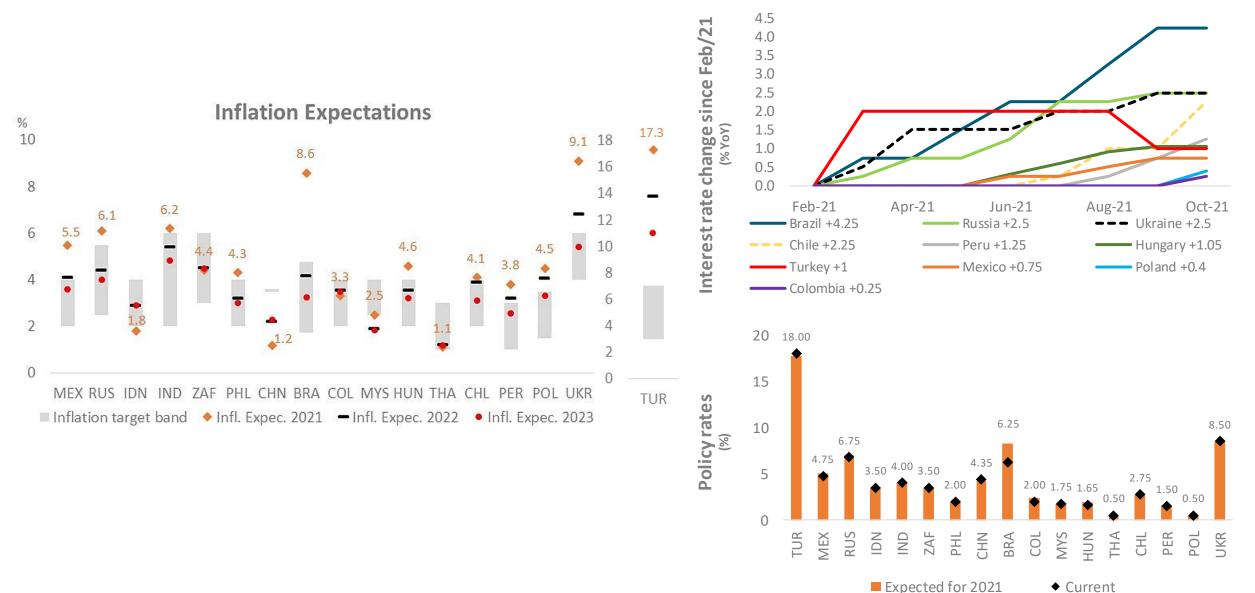
Source: Bloomberg.

EMEs: inflation expectations and monetary policy

Inflation

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



Sources: Bloomberg, BCB Focus Report.

Expected for 2021

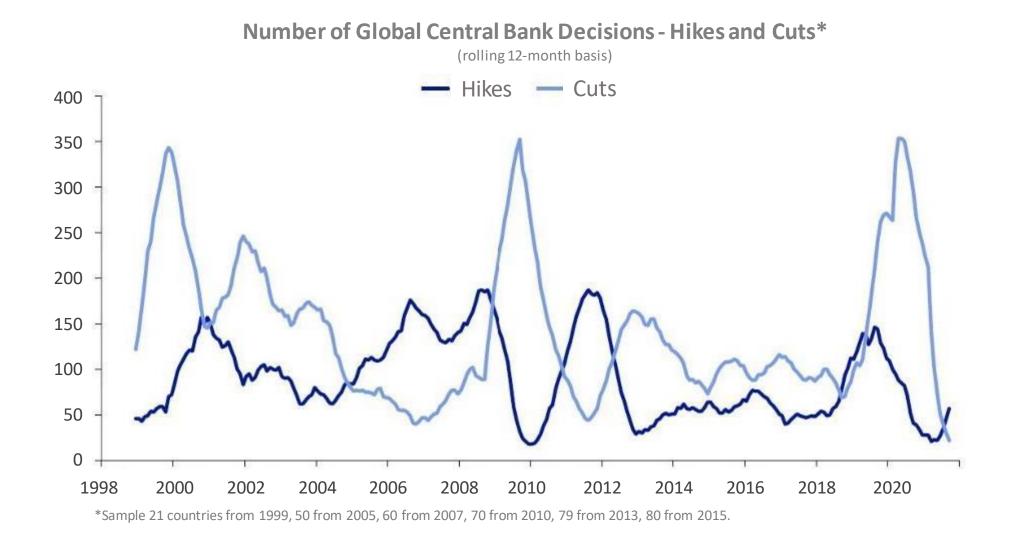
17

Monetary Policy

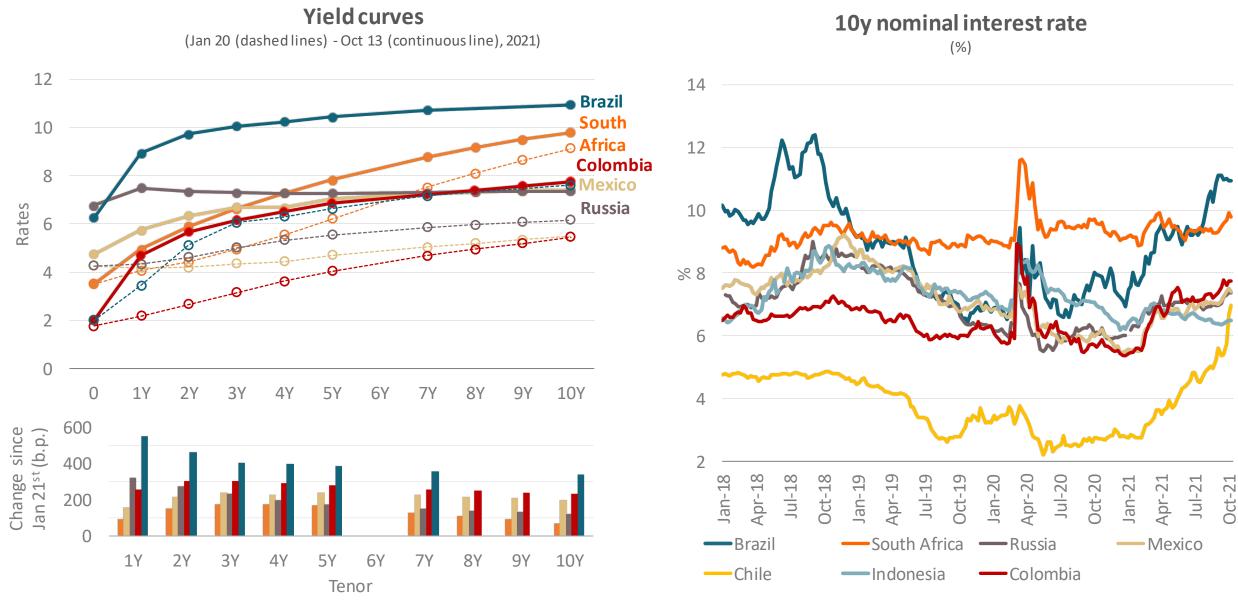
Monetary Policy

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



EMEs: interest rates



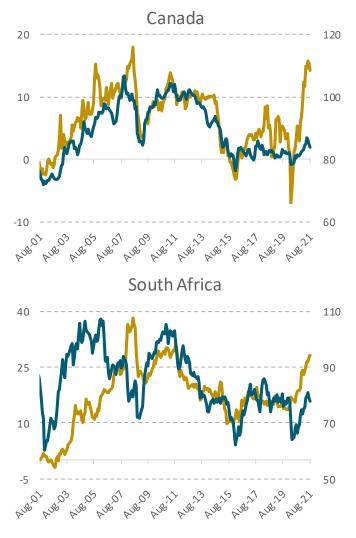
Sources: Bloomberg.

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)

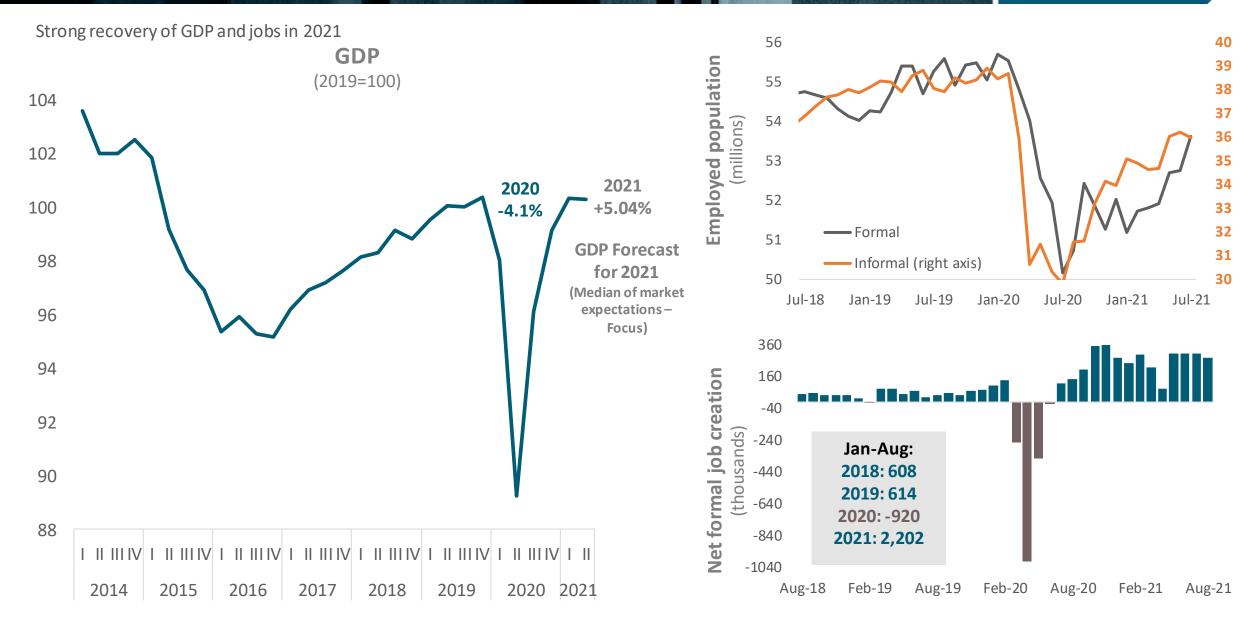
Source: Bloomberg

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

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Jul-21

Oct-21

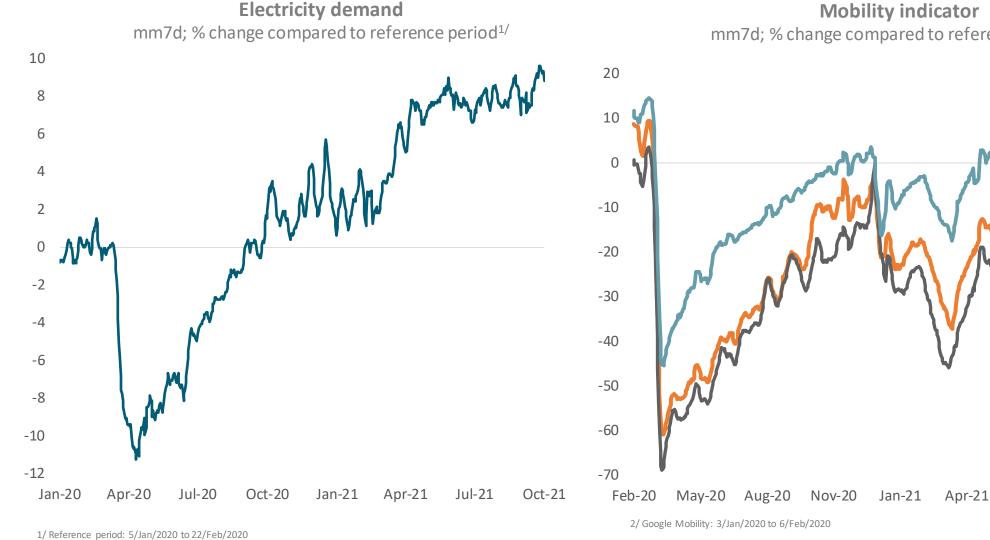
Work Places

Transport

Stations

Retail and

leisure

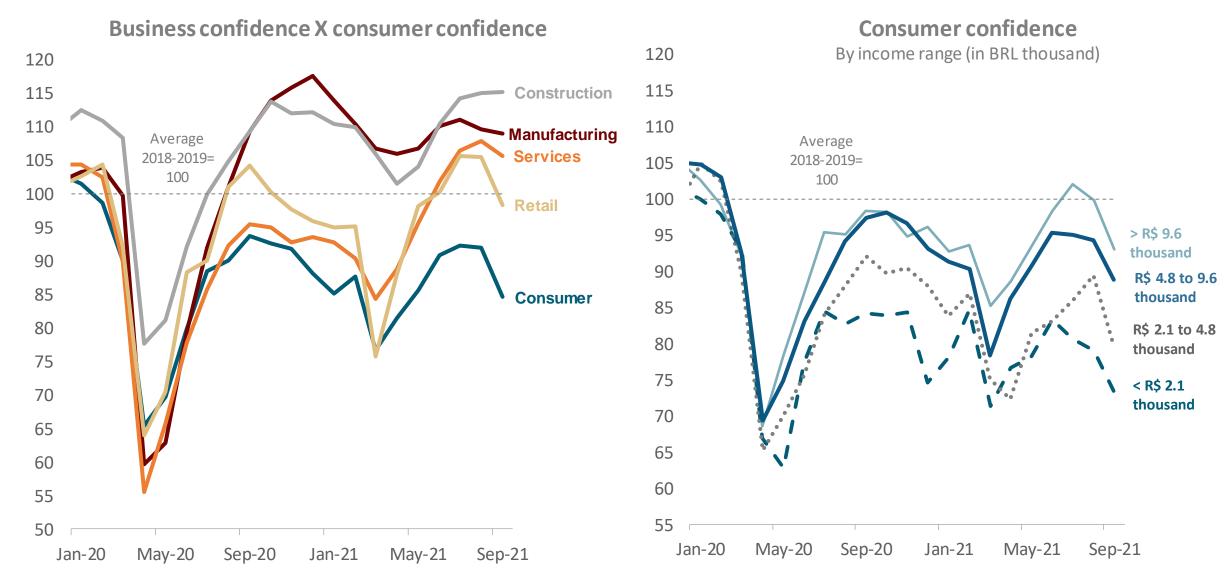


mm7d; % change compared to reference period^{2/}

DOMESTIC ECONOMY E

Economic Activity

Confidence indicators

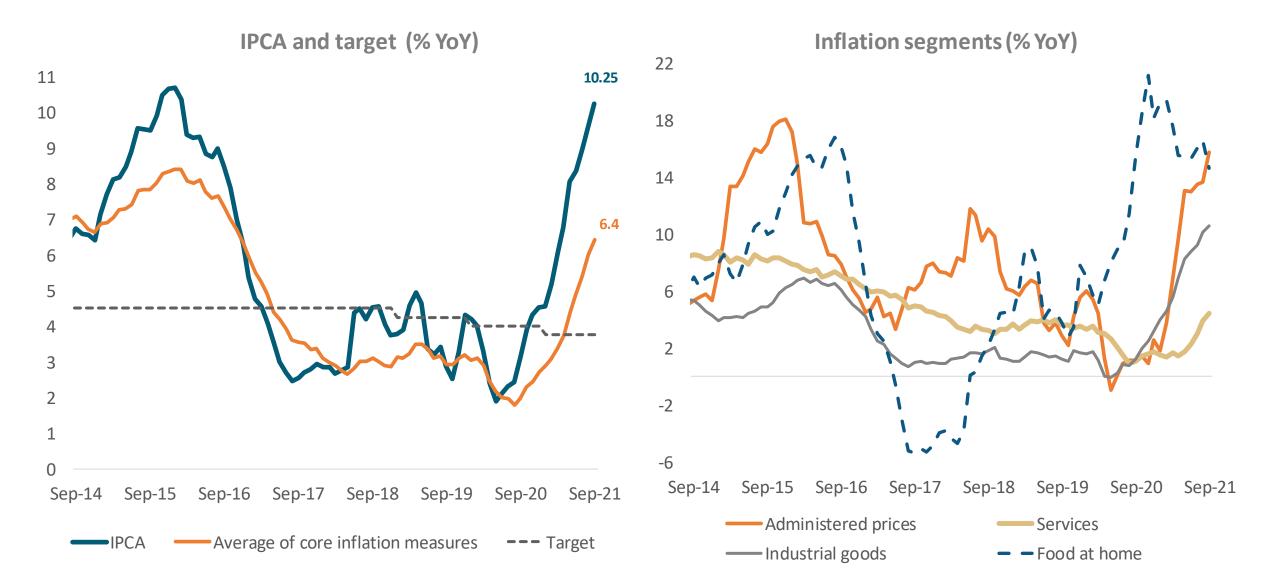


Source: FGV. Seasonally adjusted data.

Consumer inflation

Inflation

DOMESTIC ECONOMY

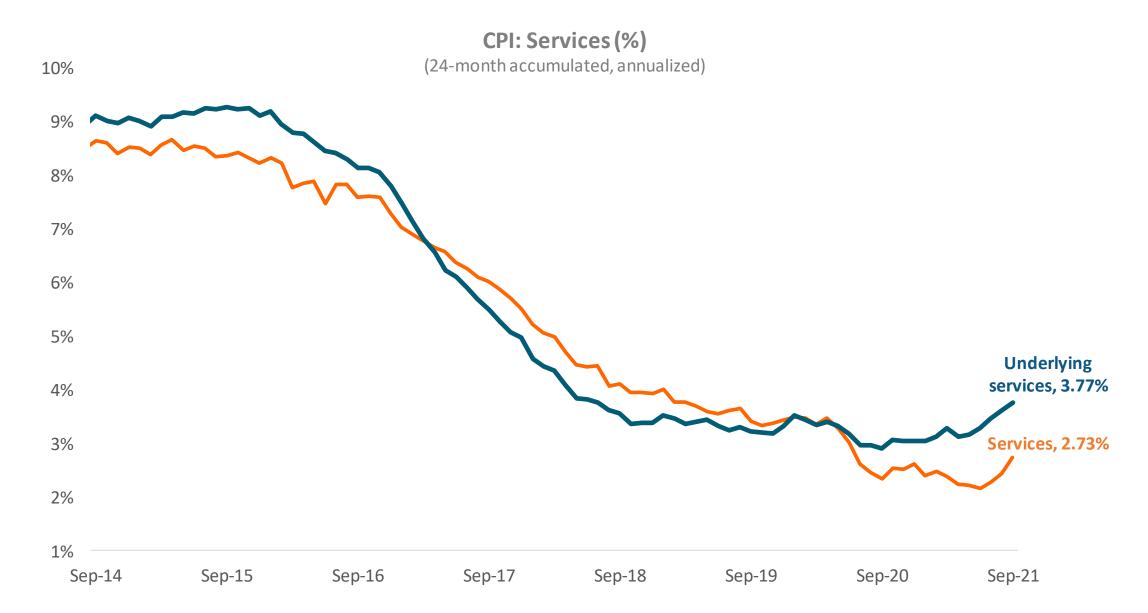


DOMESTICECONOMY

Inflation

CPI: Services

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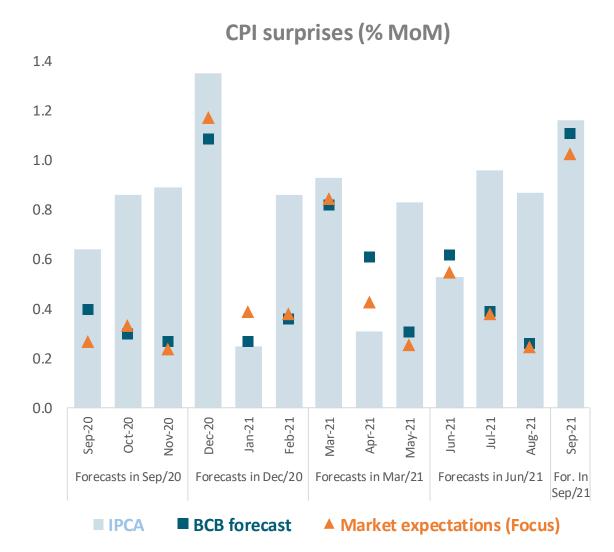
Source: BCB, based on IBGE.

DOMESTIC ECONOMY

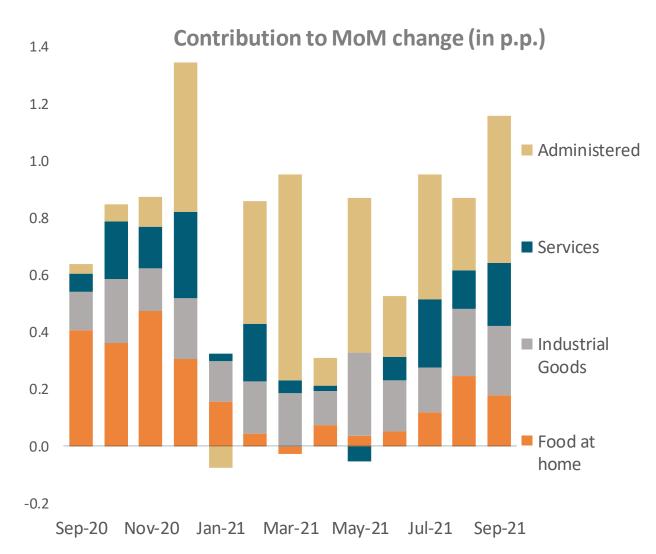
CPI: Surprises and decomposition

Inflation

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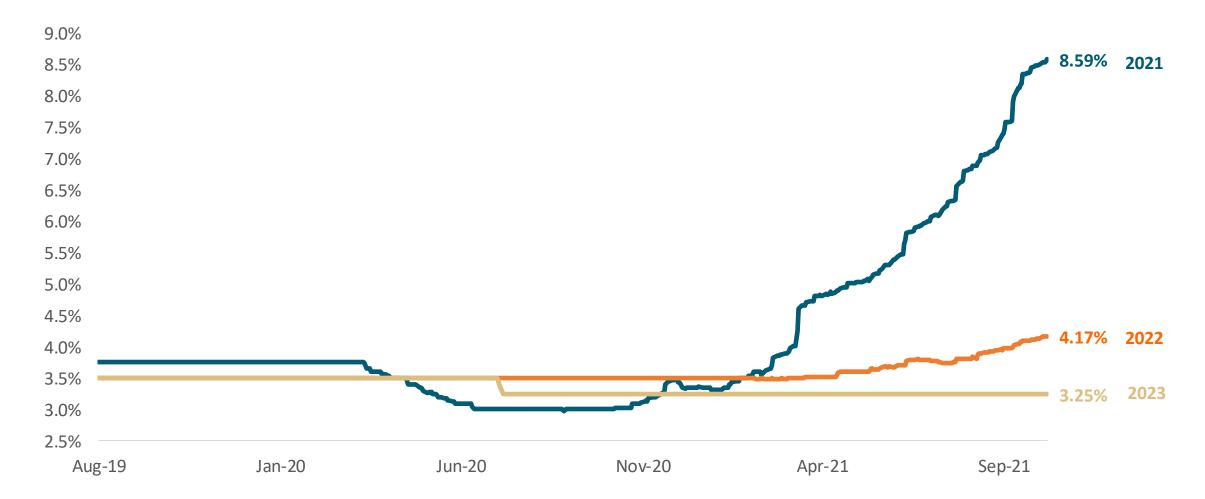


Sources: IBGE, BCB.

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.

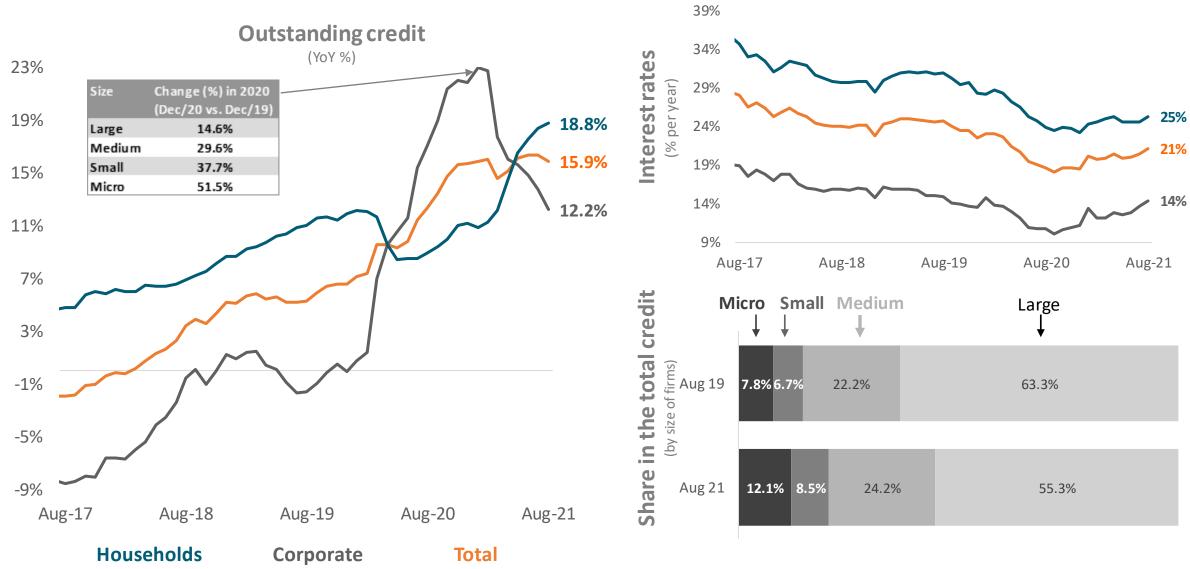
DOMESTIC ECONOMY

Credit Market

Credit in the National Financial System

CENTRAL DO BRASIL

Credit continue to increase.

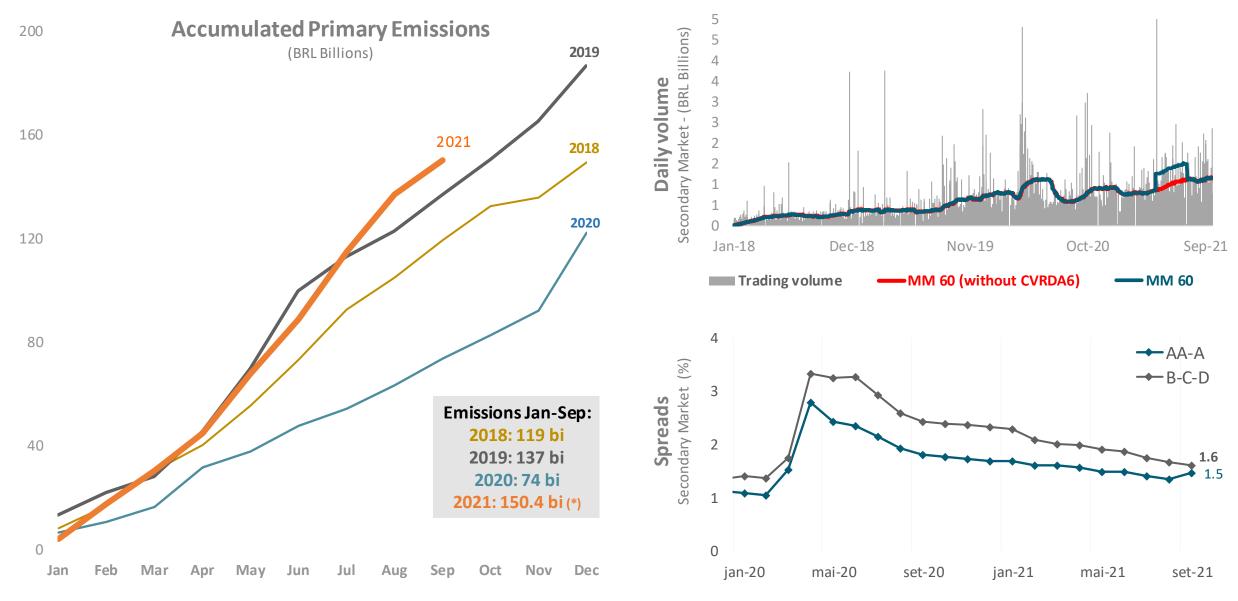


DOMESTIC ECONOMY

Credit Market

Corporate Credit





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

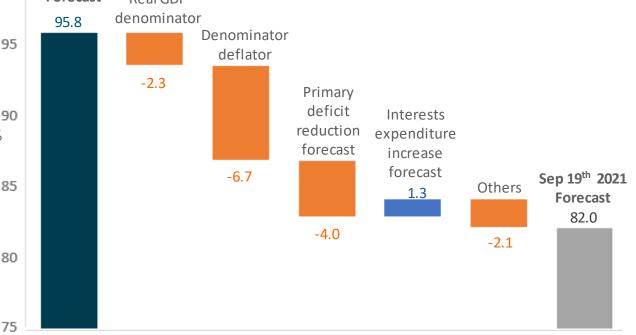
General Government Gross Debt (GGGD)

Fiscal



GGGD/GDP 2021 Focus forecast*

(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.).

Updated to 10/01/21

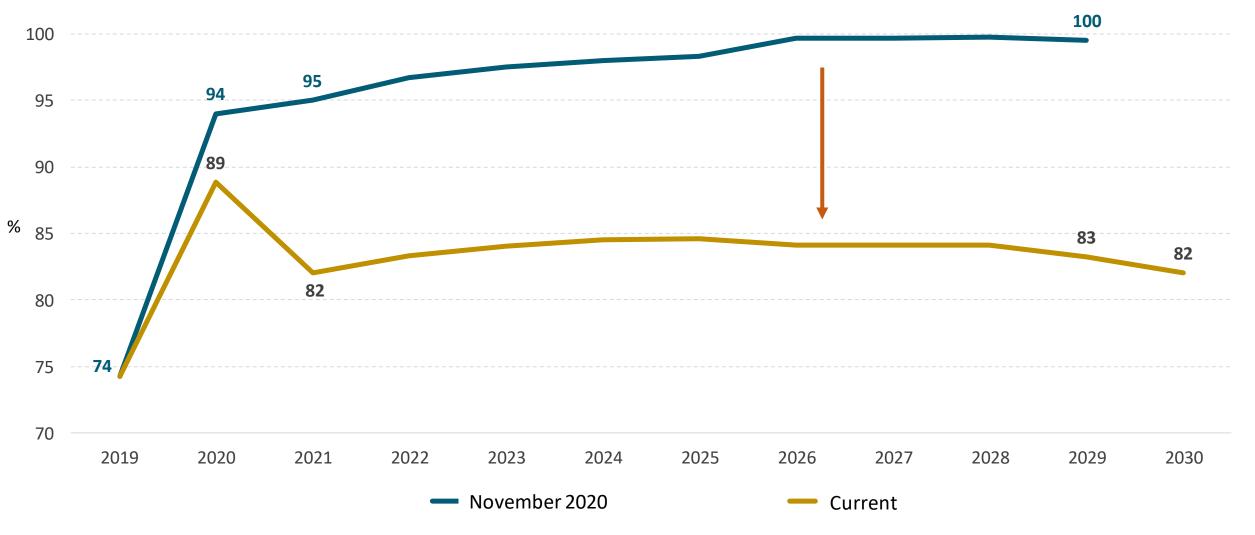
General Government Gross Debt (GGGD)

Fiscal

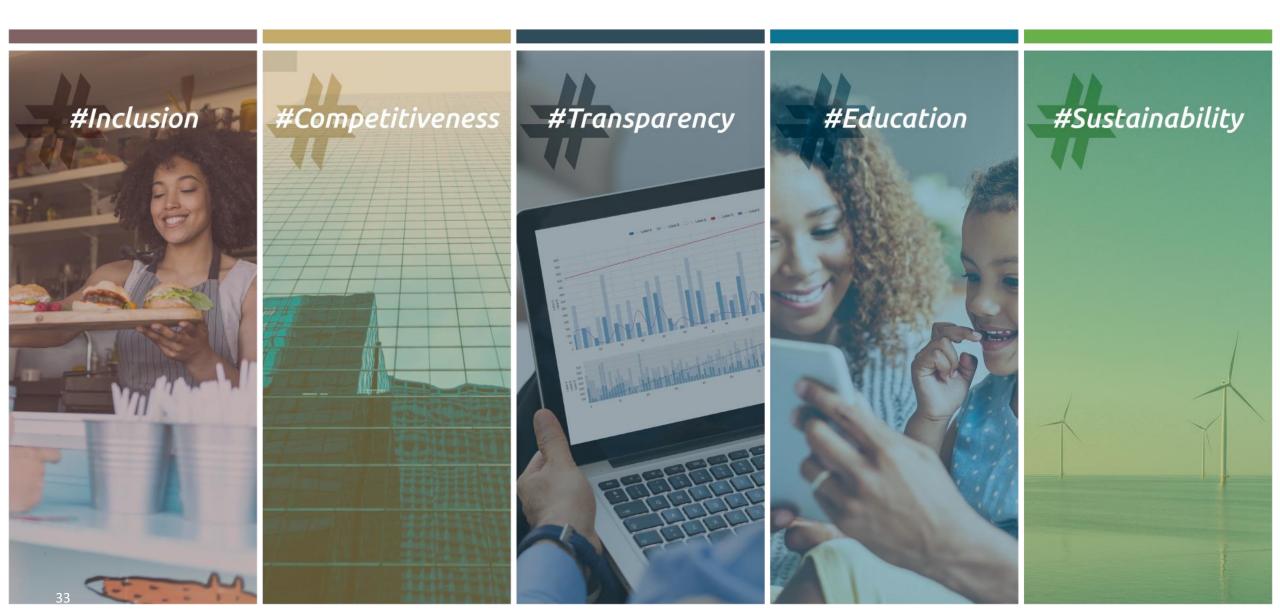
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Evolution of GGGD/GDP forecast

(median of market analysts forecast - Focus)







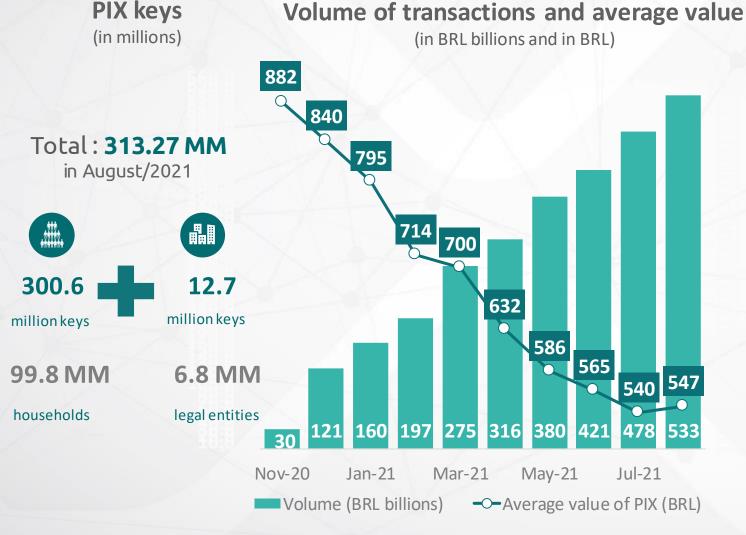
	#Inclusion	Cooperative credit Microcredit Currency convertibility Initiatives for capital market	
	#Competitiveness	Innovation Market efficiency International reserves	
	#Transparency	Rural credit Housing credit Relationship with Congress Transparency of Monetary Policy Communication plan for BCB actions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

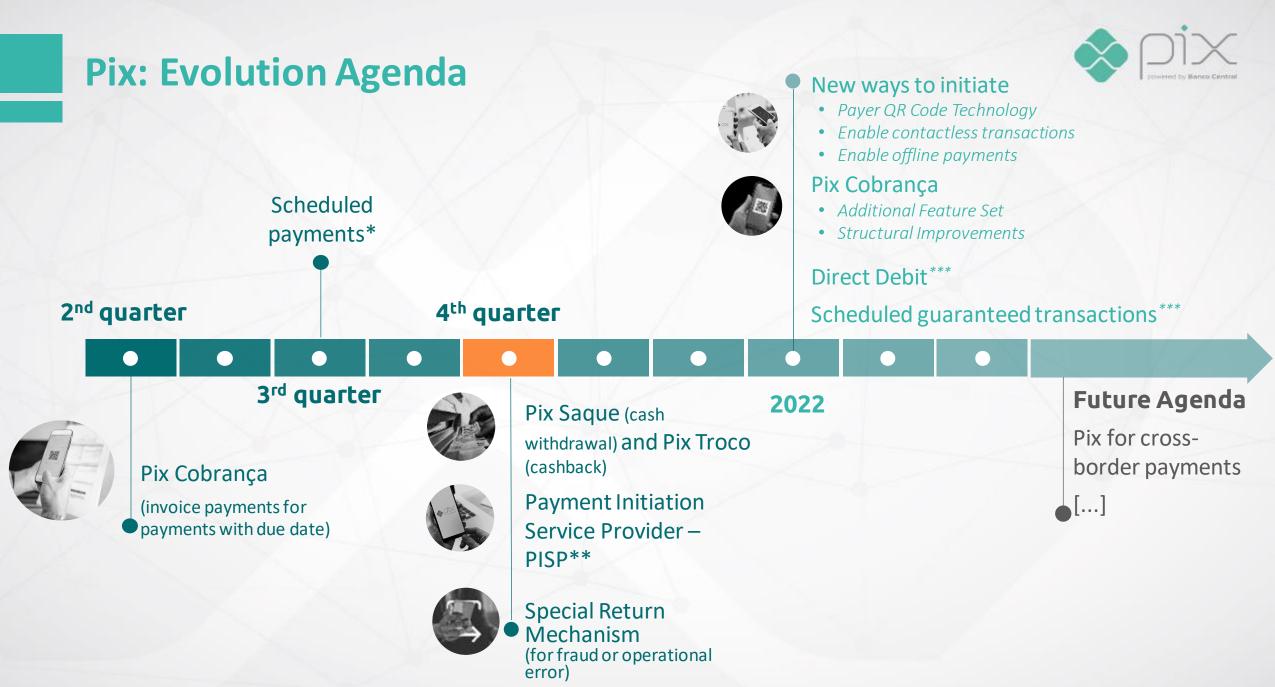
Technology Agenda

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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#

11 7 7

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.

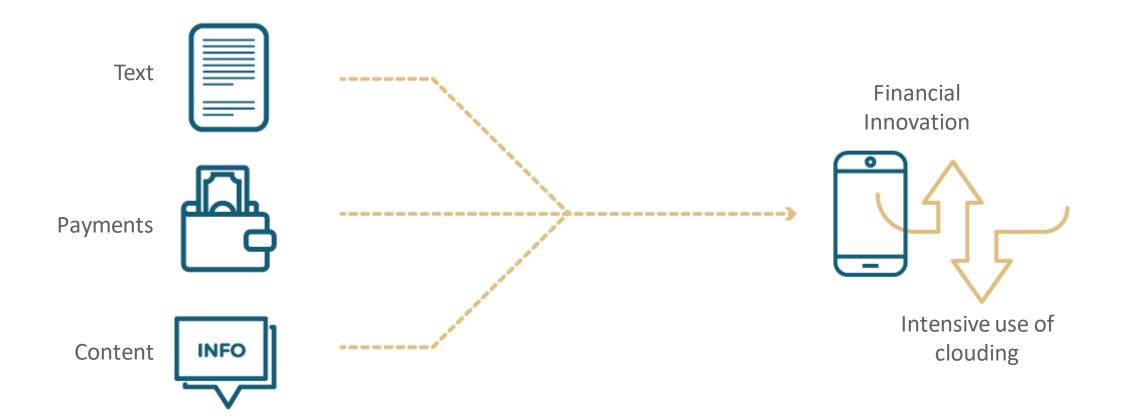


During the sandbox licensing process, BCB will assess whether the submitted projects comply with the definition of innovative project and whether their development is under the regulatory scope of BCB and CMN, among other criteria.

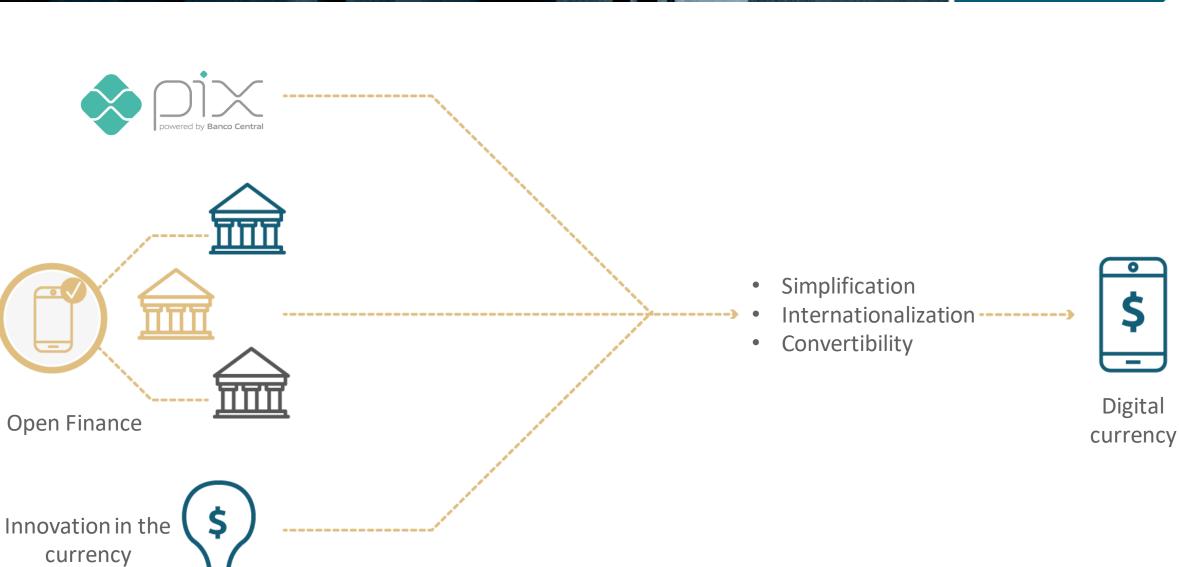
Legal persons, notary and registration service providers, public companies, and semipublic companies can participate, even when not yet fully licensed by BCB.

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 15, 2021 BANCO CENTRAL DO BRASIL

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