

# Macroeconomic Outlook

December 2022

12/23/22









### Macroeconomic Outlook

December 2022

Macroeconomic Outlook is a report prepared by the Office of Economic Policy (SPE) of the Ministry of Economy with the most relevant economic data and forecasting about Brazil.

This report is entirely descriptive and it does not imply or suggest policy decisions neither does it limit the operational scope of the Ministry of Economy.

Data valid up to the date of the report.

#### Macroeconomic Outlook

December 2022

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## Highlights

Macroeconomic Parameters											
	Gross Domestic Product										
Year	Nominal			Real	Deflator						
	BRL million	Chg. %	Chg. %	Per Capita chg. %	Chg. %						
2016	6,269,328	4.56	-3.28	-4.07	8.07						
2017	6,585,480	5.04	1.33	0.52	3.66						
2018	7,004,141	6.36	1.78	0.96	4.49						
2019	7,389,131	5.50	1.22	0.43	4.21						
2020	7,609,597	2.98	-3.28	-4.01	6.48						
2021	8,898,727	16.94	4.99	4.22	11.39						
2022	9,934,396	11.64	3.10	2.38	8.26						
2023	10,707,551	7.78	2.10	1.41	5.53						
2024	11,493,434	7.34	2.50	1.84	4.69						
2025	12,295,275	6.98	2.50	1.87	4.33						
2026	13,087,849	6.45	2.23	1.63	4.09						

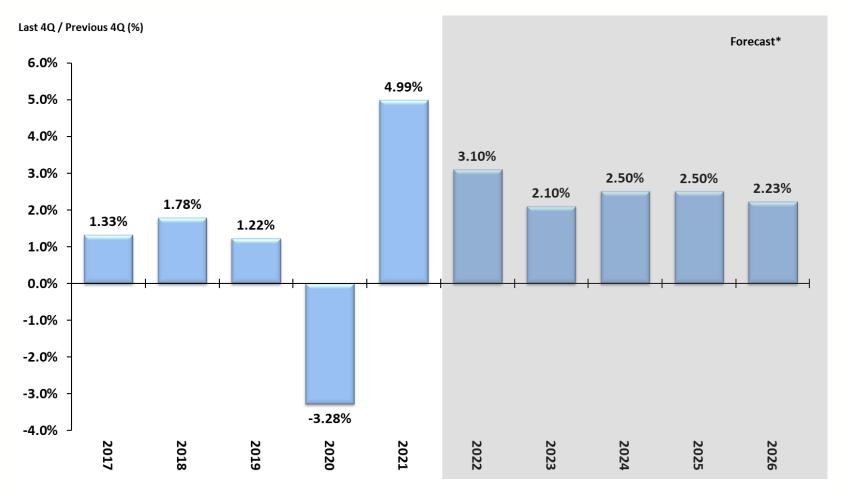
Macroeconomic Parameters									
Industrial Activity - Annual chg. %									
Year	Manuf	acturing	Beve	rages	Veh	icles			
Teal		Produ	ction		Domestic \	Wholesale			
	Price	Quantity	Price	Quantity	Price	Quantity			
2016	8.06	-5.98	7.60	-3.09	6.10	-17.53			
2017	1.76	2.23	4.34	0.78	4.26	12.31			
2018	8.35	1.11	2.67	0.87	3.30	13.05			
2019	4.31	0.19	2.86 4.25		2.97	10.38			
2020	9.13	-4.60	0.87	-0.19	4.15	-25.84			
2021	31.85	4.32	4.32 4.14 0.28		12.62	1.04			
2022	17.69	-1.01	9.77	2.63	12.69	-3.68			
2023	1.09	0.19	7.45	2.58	4.07	8.59			
2024	3.15	2.32	6.03	3.64	3.20	12.38			
2025	4.28	2.19	5.99	3.44	2.80	8.72			
2026	4.62	1.75	5.96	2.92	2.49	7.32			

Macroeconomic Parameters										
			Formal Jobs in Private Sector							
Year	Labor Force	Employed Population	Earni	ings	Wage	Bill				
Teal		Employed Population	Nominal	Real	Nominal	Real				
		Chg. % acc	um. In 4-trimeste	ers						
2016	1.32	-4.28	7.65	-1.03	3.04	-5.27				
2017	1.70	-2.76	5.90	2.36	2.99	-0.46				
2018	1.20	-0.58	3.43	-0.22	2.84	-0.79				
2019	1.77	1.43	3.35	-0.38	4.83	1.05				
2020	-5.88	-6.91	5.84	2.55	-1.51	-4.56				
2021	4.35	2.56	2.70	-5.12	5.37	-2.77				
2022	3.36	9.18	8.68	-0.64	18.70	8.61				
2023	2.44	3.84	7.13	2.53	11.21	6.45				
2024	2.08	2.54	4.89	1.27	7.54	3.84				
2025	2.15	2.47	3.98	0.95	6.55	3.45				
2026	2.30	2.86	3.90	0.87	6.86	3.75				

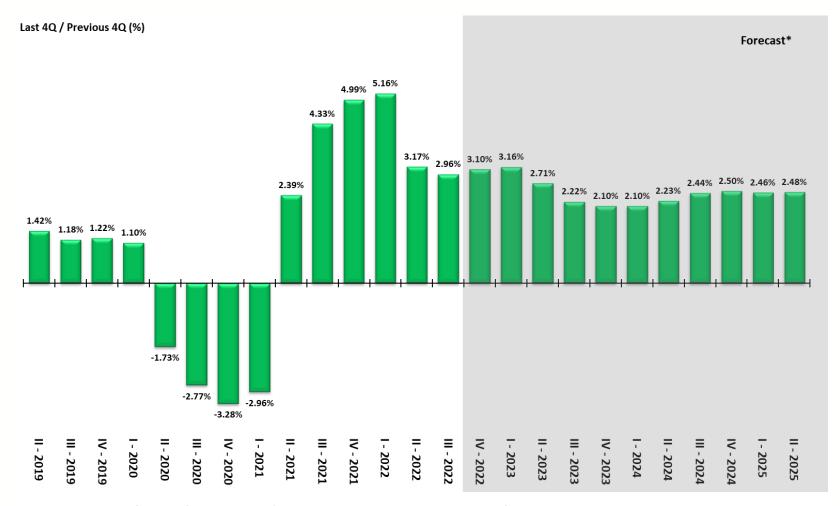
Macroeconomic Parameters											
	Inflation										
	IP	CA	IN	PC	IGP	P-DI					
Year	Annual	Annual	Annual	Annual	Annual	Annual					
	Average	Accum.	Average	Accum.	Average	Accum.					
			Chg	. %							
2016	8.74	6.29	9.32	6.58	10.19	7.18					
2017	3.45	2.95	2.97	2.07	0.96	-0.42					
2018	3.66	3.75	2.87	3.43	5.81	7.10					
2019	3.73	4.31	3.75 4.48		6.05	7.70					
2020	3.21	4.52	3.61	3.61 5.45		23.08					
2021	8.30	10.06	8.99	10.16	27.30	17.74					
2022	9.28	5.75	9.42	5.81	10.30	5.25					
2023	4.34	4.60	4.49	4.90	2.04	4.55					
2024	3.57	3.00	3.67	3.00	4.37	4.20					
2025	3.00	3.00	3.00	3.00	4.07	4.00					
2026	3.00	3.00	3.00	3.00	3.86	3.70					

Macroeconomic Parameters										
Financial Indicators										
Year	Selic	market rate	•	Long term ra	ate TJLP	Referential rate TR	Financial Sav	ings		
Teal	Annual Average	December	Real chg.	Annual Average	December	Annual Average	Annual Avera	ge		
				Annual chg. %			BRL million	Annual chg. %		
2016	14.08	13.65	7.33	7.50	7.50	2.01	4,566,852	13.89		
2017	9.87	7.00	6.72	7.12	7.00	0.60	4,992,423	9.32		
2018	6.48	6.40	2.64	6.72	6.98	0.00	5,346,678	7.10		
2019	5.90	4.59	1.53	6.18	5.57	0.00	5,744,064	7.43		
2020	2.64	1.90	-1.80	4.87	4.55	0.00	6,367,887	10.86		
2021	3.91	8.76	-5.59	4.79	5.32	0.05	7,334,662	15.18		
2022	12.34	13.65	6.23	6.76	7.20	1.63	8,555,787	16.65		
2023	13.09	11.65	8.11	7.33	7.17	1.97	9,624,282	12.49		
2024	9.65	8.40	6.46	6.87	6.64	0.64	10,513,554	9.24		
2025	8.13	7.90	4.98	6.32	6.20	0.06	11,376,399	8.21		
2026	7.90	7.90	4.76	5.93	5.80	0.02	12,238,531	7.58		

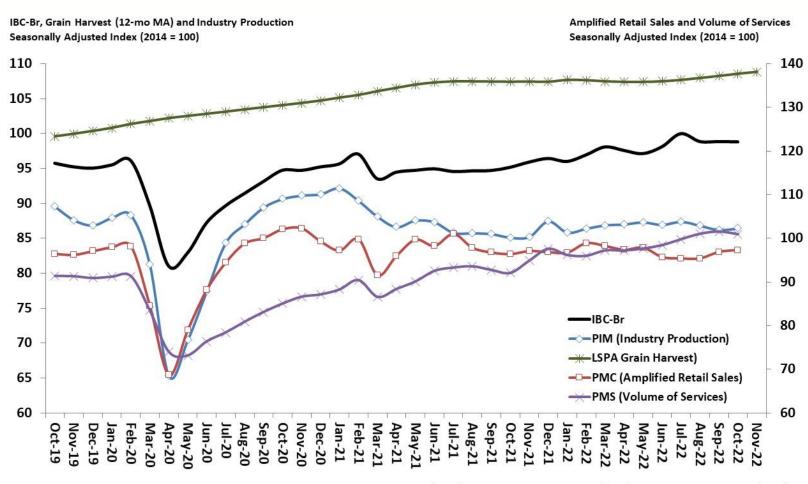
Macroeconomic Parameters											
External Sector											
Year		Exchange Rate									
Teal	Annual Average	December	Average chg. %	Annual chg. %							
	Exchange Rate BRL	/USD	Average chg. %	Annual Chy. %							
2016	3.5	3.3	4.8	-13.4							
2017	3.2	3.3	-8.5	-1.8							
2018	3.7	3.9	14.5	18.0							
2019	3.95	4.03	7.95	5.78							
2020	5.16	5.20	30.69	25.21							
2021	5.40	5.58	4.64	9.83							
2022	5.17	5.25	-4.22	-6.71							
2023	5.25	5.25	1.57	-0.42							
2024	5.21	5.23	-0.78	-0.62							
2025	5.22	5.21	0.20	-0.13							
2026	<b>5.2</b> 6	5.30	0.72	1.64							



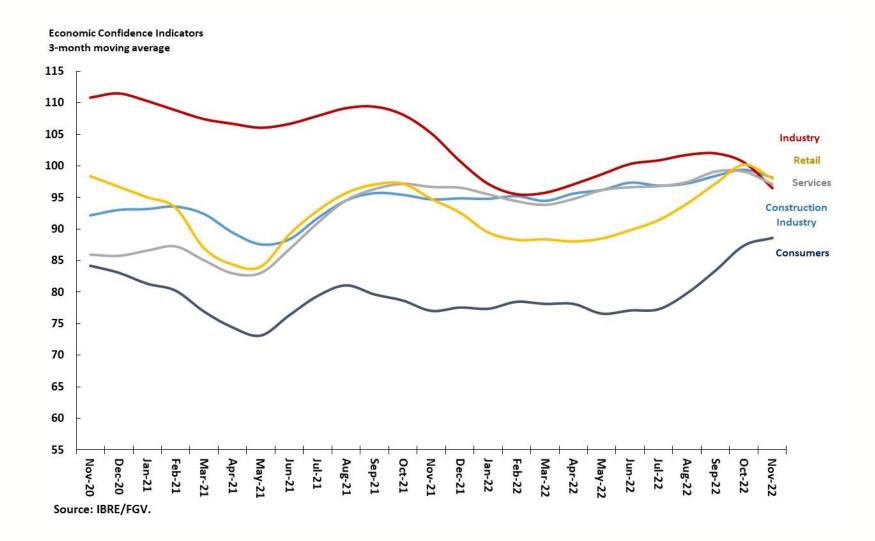
Source: IBGE, Quarterly National Accounts Series \*Forecast: Macroeconomic Parameters, December-2022.

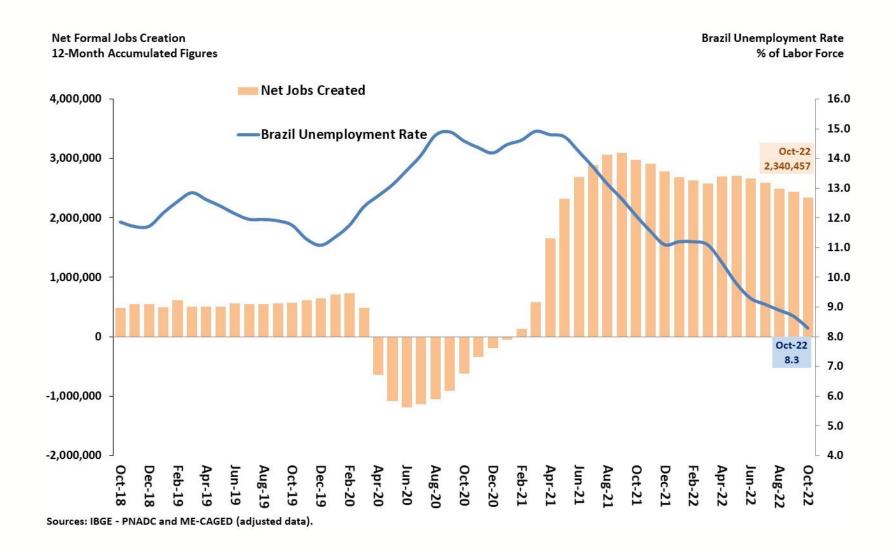


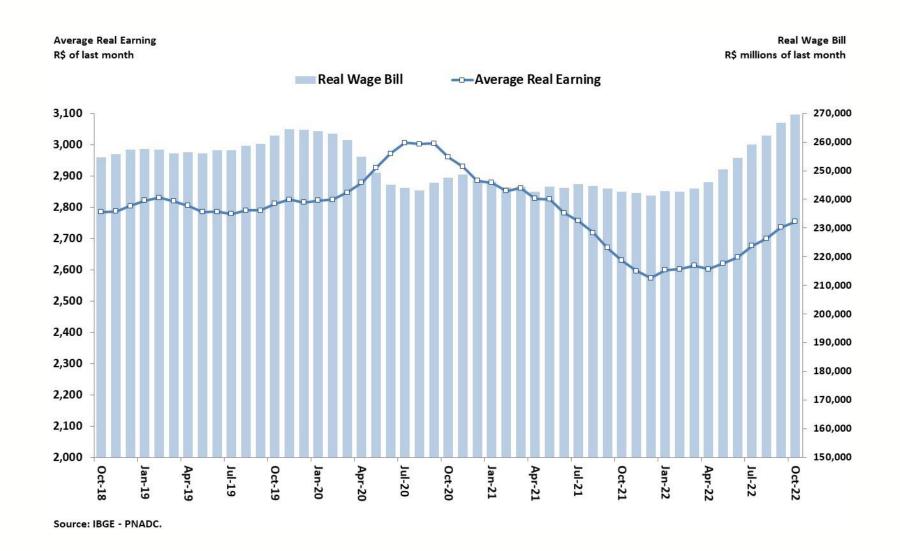
Source: IBGE, Quarterly National Accounts Series \*Forecast: Macroeconomic Parameters, December-2022.

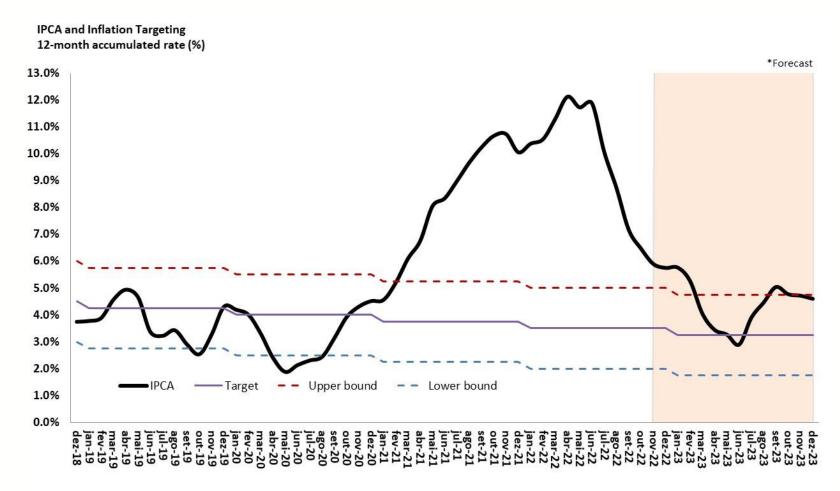


Sources: Central Bank of Brazil and IBGE: Systematic Survey of Agricultural Production (LSPA), Monthly Survey of Industry (PIM), Monthly Survey of Trade (PMC), and Monthly Survey of Services (PMS).

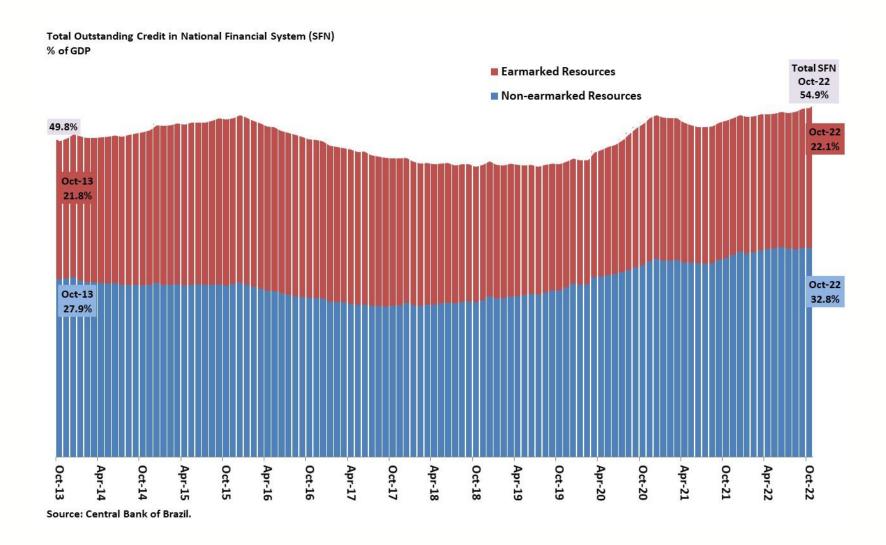


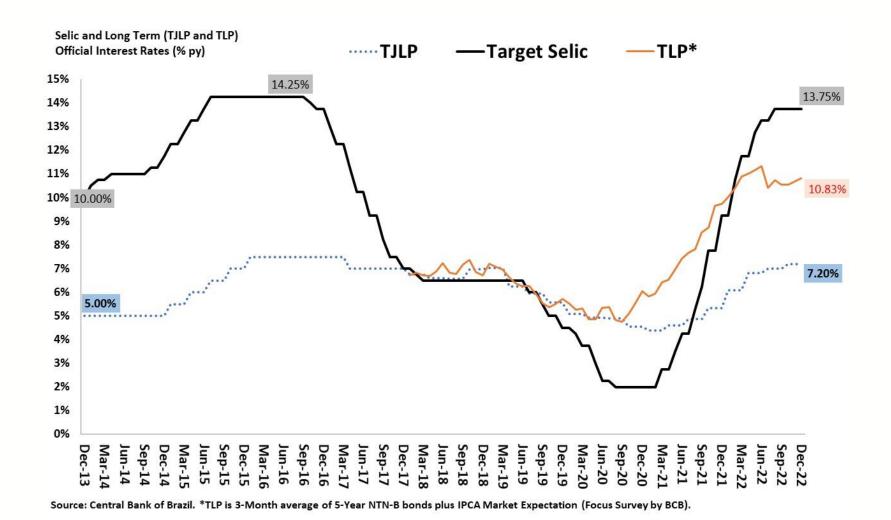




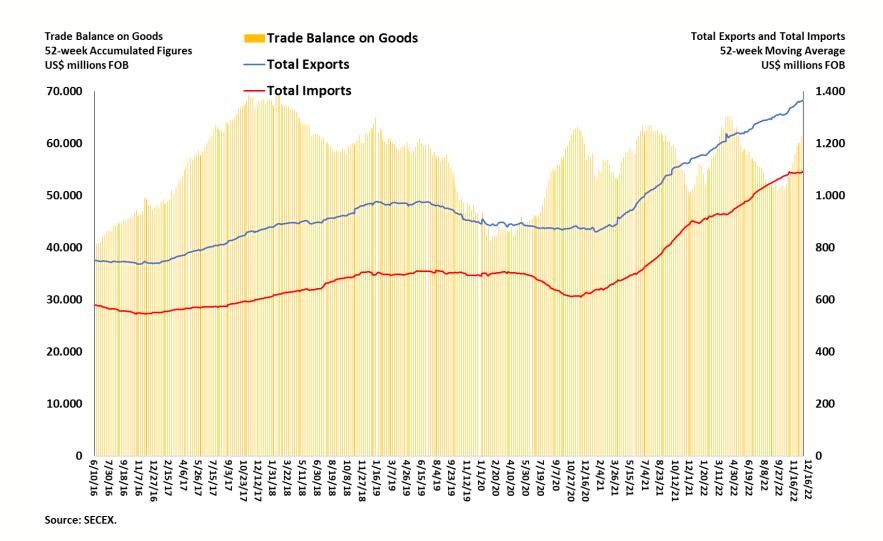


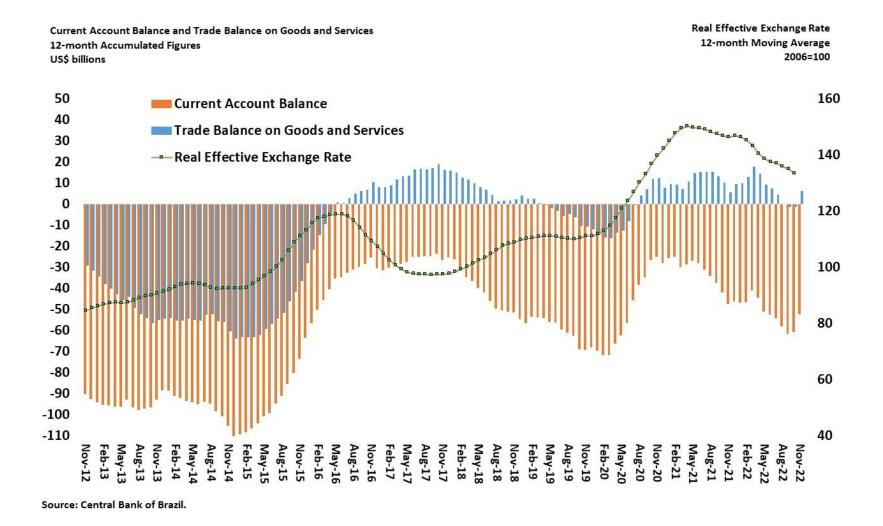
Source: IBGE and Central Bank of Brazil. \*Forecast: Macroeconomic Parameters, November-2022.

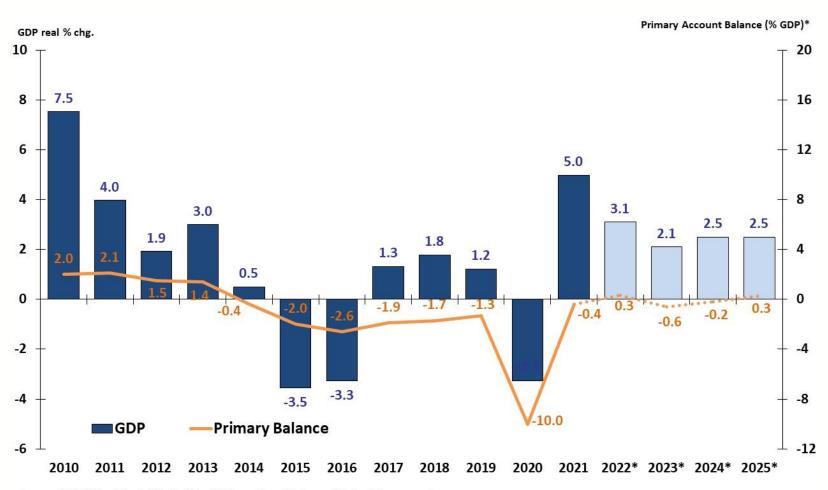






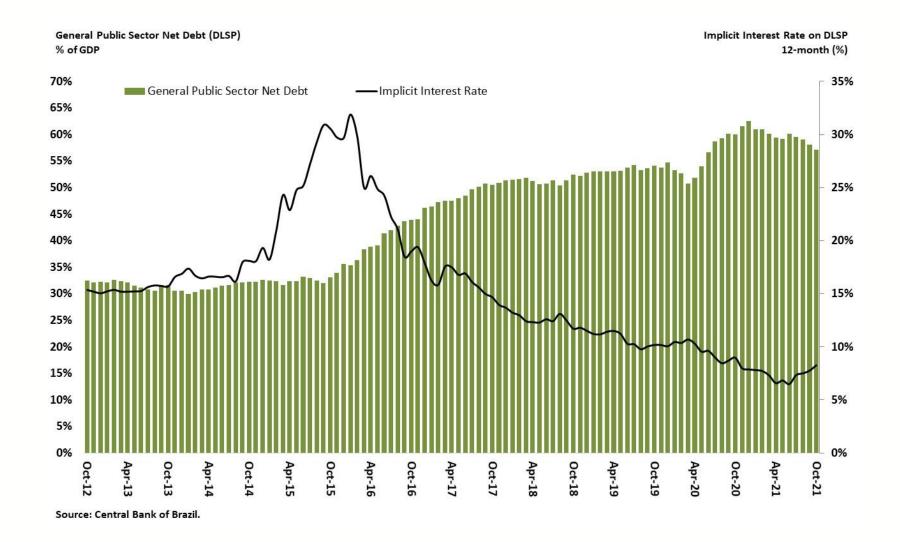




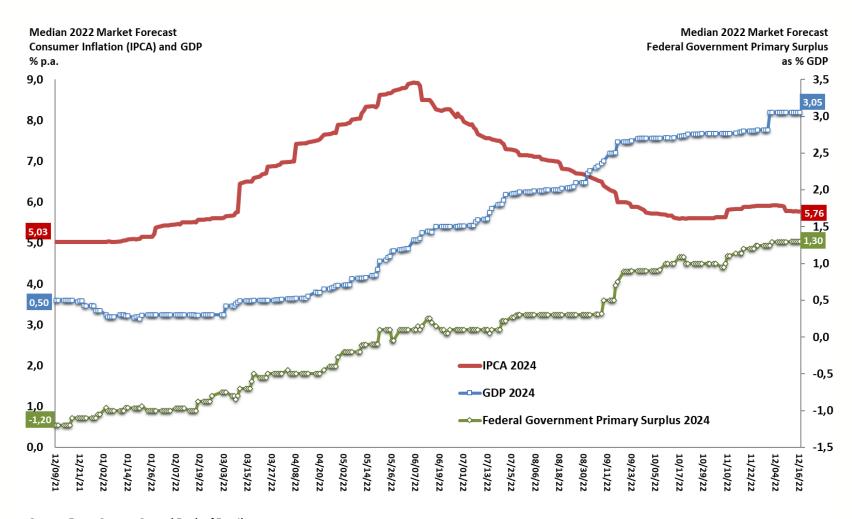


Source: IBGE, STN and Central Bank of Brazil. Primary Accout Balance of Federal Government.

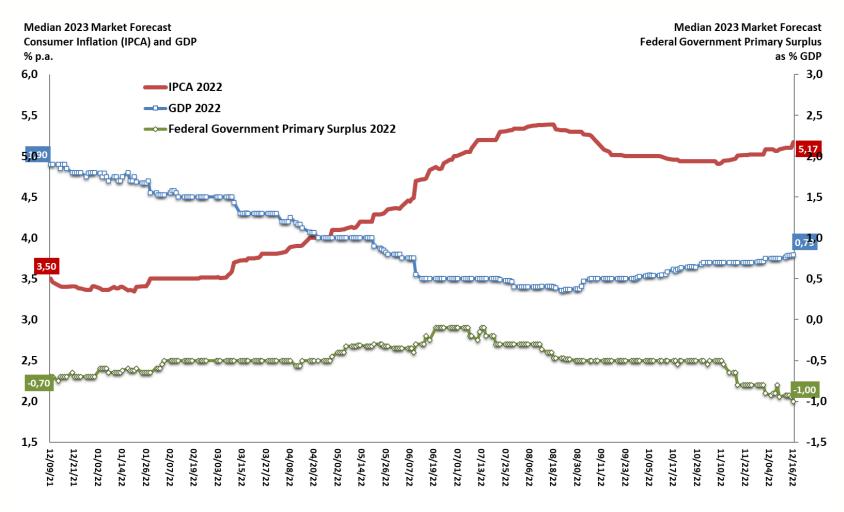
<sup>\*</sup> Annex-Fiscal Targets of Budgetary Guidelines Bill - PLDO 2023; and Macroeconomic Projections from SPE, December/2022.



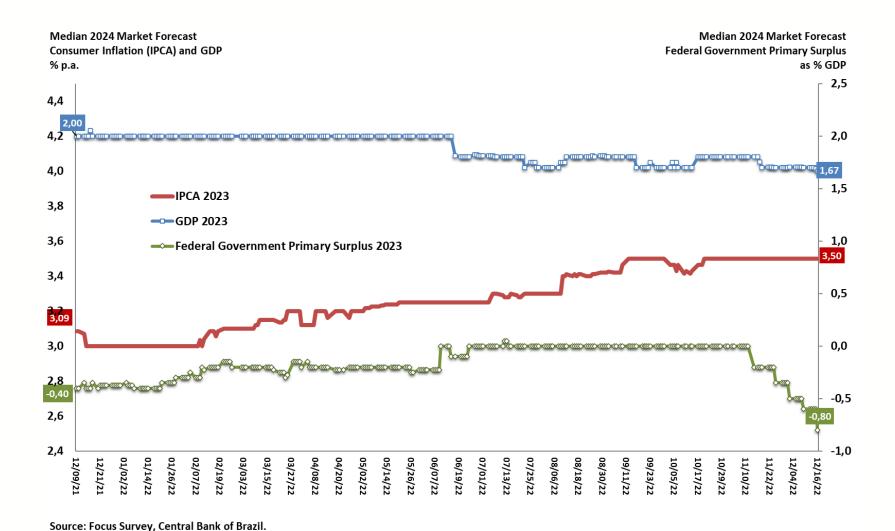
### Market Expectations



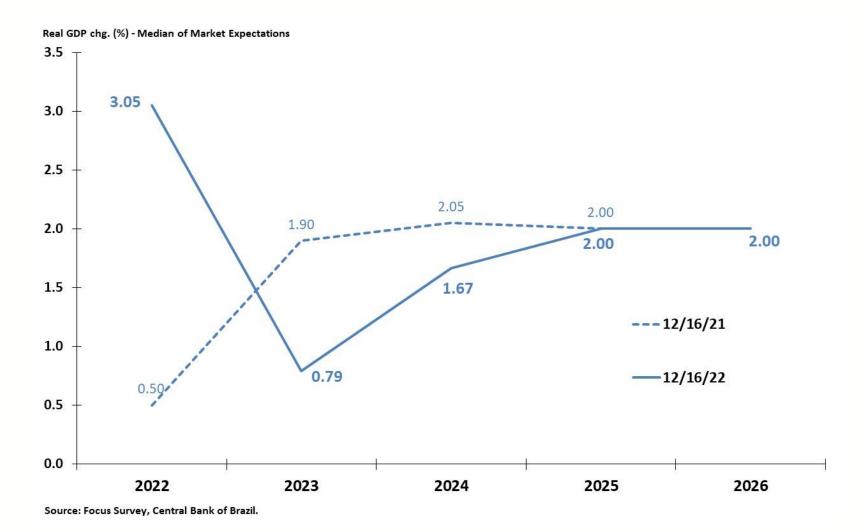
Source: Focus Survey, Central Bank of Brazil.



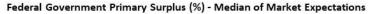
Source: Focus Survey, Central Bank of Brazil.

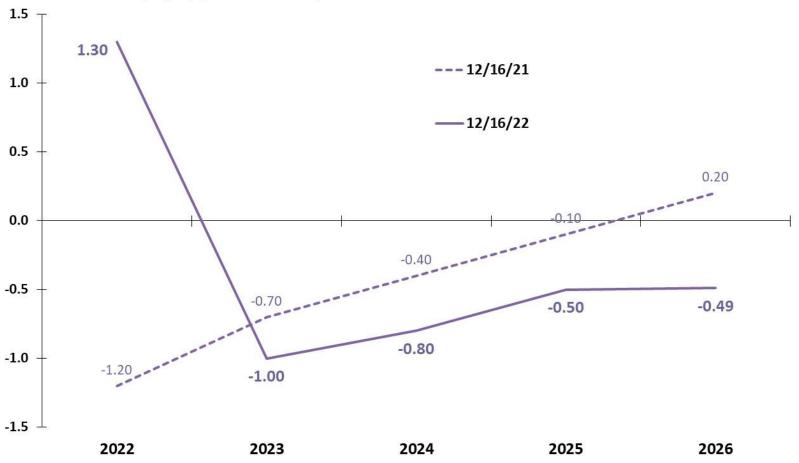


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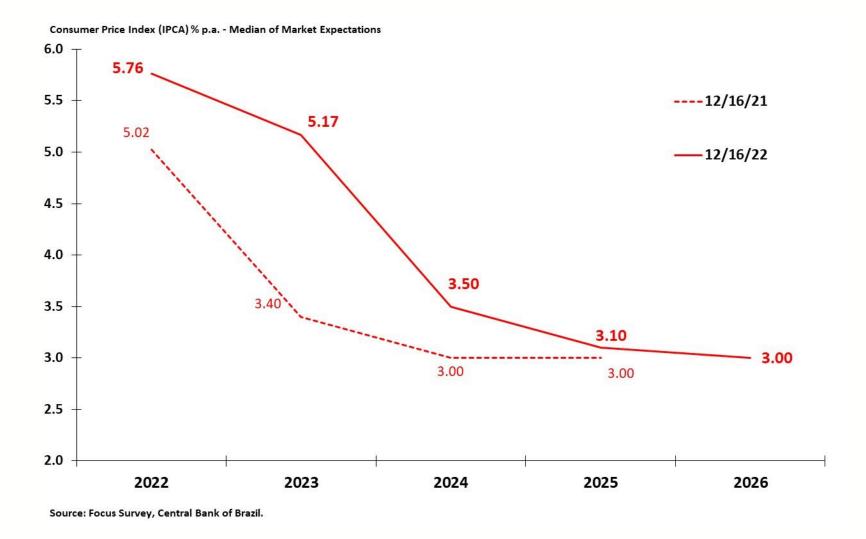


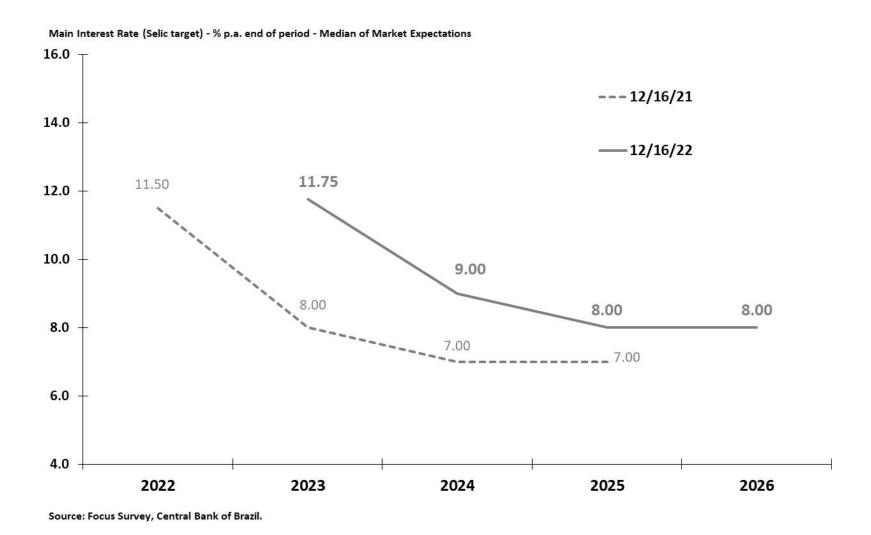


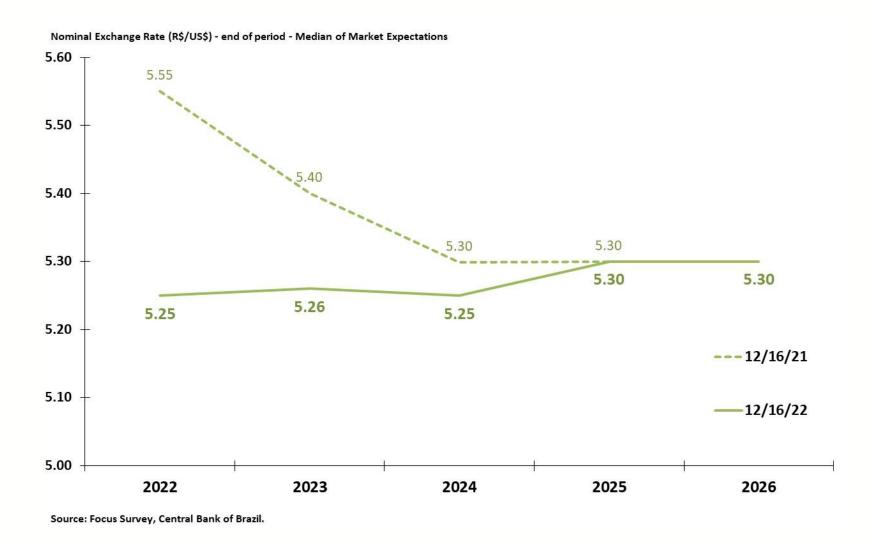




Source: Focus Survey, Central Bank of Brazil.







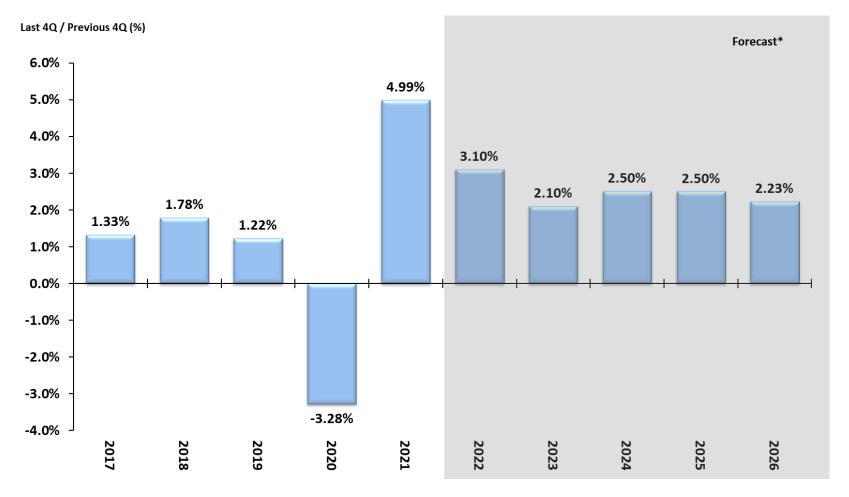
### **Economic activity**

												BCB/Focus:	12/16/22	
Gross Domestic Product (IBGE)	Q3 2022 %change	2020	2021	Q2 2022 / Q2 2021	Q3 2022 / Q3 2021	Q2 2022 / Q1 2022 (seasonally adjusted)	Q3 2022 / Q2 2022 (seasonally adjusted)	Year-To- Date	Q2 2022 accum. in 4-quarters	Q3 2022 accum. in 4-quarters	carry-over 2022	2022	2023	2024
Agriculture		4.2%	0.3%	-0.9%	3.2%	0.1%	-0.9%	-1.5%	-3.8%	-1.3%	-1.0%	-0.25%	4.10%	2.95%
Industry		-3.0%	4.8%	2.1%	2.8%	1.7%	0.8%	1.3%	0.4%	0.8%	1.8%	1.52%	0.20%	1.50%
Services		-3.7%	5.2%	4.7%	4.5%	1.3%	1.1%	4.4%	4.8%	4.4%	4.2%	3.70%	0.90%	1.55%
GDP (market prices)		-3.3%	5.0%	3.7%	3.6%	1.0%	0.4%	3.2%	3.2%	3.0%	2.4%	3.05%	0.79%	1.67%
Household Expenditure		-4.6%	3.7%	5.7%	4.6%	2.1%	1.0%	4.3%	3.7%	3.7%	4.2%	0.80%	1.20%	2.00%
Government Expenditure		-3.7%	3.5%	0.9%	1.0%	-0.9%	1.3%	1.9%	3.6%	2.5%	1.4%	1.40%	0.70%	1.30%
Gross Fixed Capital Formation		-1.7%	16.5%	1.5%	5.0%	3.8%	2.8%	0.0%	3.8%	0.8%	1.0%	-1.55%	1.00%	3.10%
Exports of Goods and Services		-2.3%	5.9%	-4.6%	8.1%	-2.8%	3.6%	3.6%	2.5%	3.5%	4.6%	2.95%	2.70%	3.00%
Imports of Goods and Services (-)		-9.5%	12.0%	-1.0%	10.6%	8.7%	5.8%	-0.5%	2.1%	0.4%	2.2%	1.60%	3.30%	4.50%
Economic Activity Indicators (BCB and IBGE)	Q3 2022 %change	2020	2021	Q2 2022 / Q2 2021	Q3 2022 / Q3 2021	Q2 2022 / Q1 2022 (seasonally adjusted)	Q3 2022 / Q2 2022 (seasonally adjusted)	Year-To- Date	Q2 2022 accum. in 4-quarters	Q3 2022 accum. in 4-quarters	carry-over 2022			
IBC-Br Economic Activity Index*		-4.0%	4.4%	3.2%	4.9%	0.6%	1.7%	1.9%	2.3%	2.7%	3.3%			
LSPA: Grain Harvest		4.8%	-0.1%	-0.1%	0.3%	-0.2%	4.7%	4.4%	-0.1%	0.3%	2.0%			
PIM: Industrial Production		-4.5%	3.9%	-4.4%	-0.1%	0.5%	0.8%	-3.4%	1.8%	-2.8%	-0.6%			
PMC: Amplified Retail Sales		-1.4%	4.5%	1.4%	-0.8%	1.2%	-1.0%	-1.4%	4.5%	-0.8%	-0.7%			
PMS: Volume of Services		-7.8%	10.9%	9.5%	8.3%	1.7%	1.4%	9.1%	13.6%	10.5%	7.9%			

LSPA: Systematic Survey of Agricultural Production (IBGE)

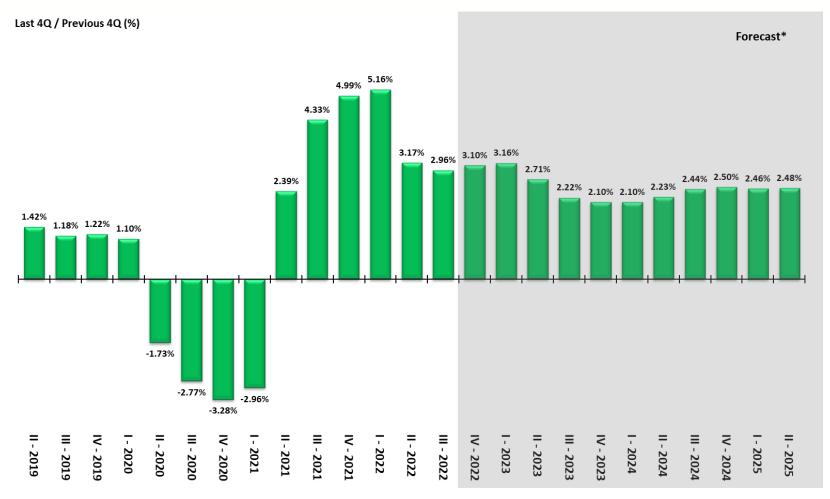
PIM: Monthly Survey of Industry (IBGE)
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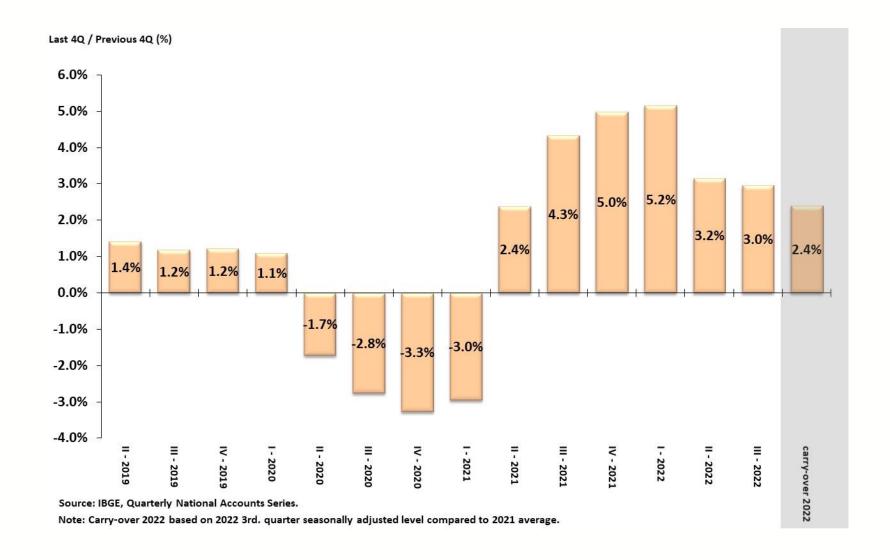


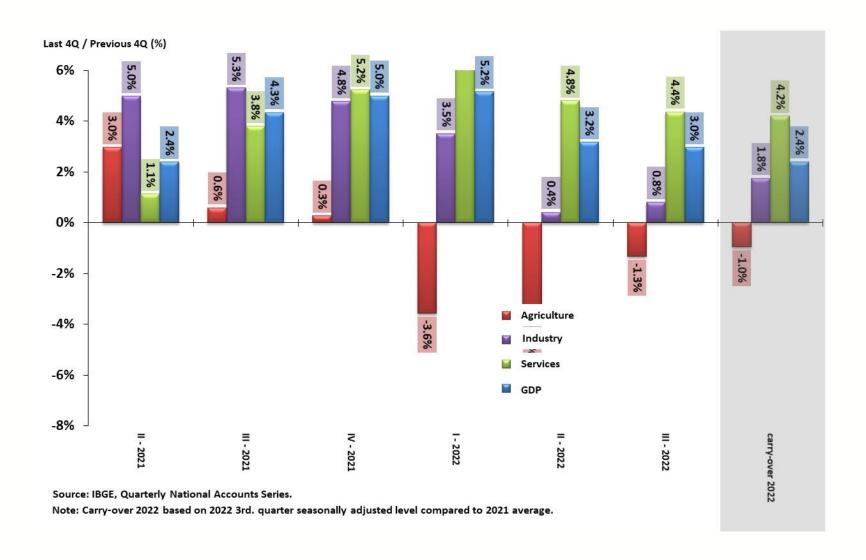
Source: IBGE, Quarterly National Accounts Series \*Forecast: Macroeconomic Parameters, December-2022.

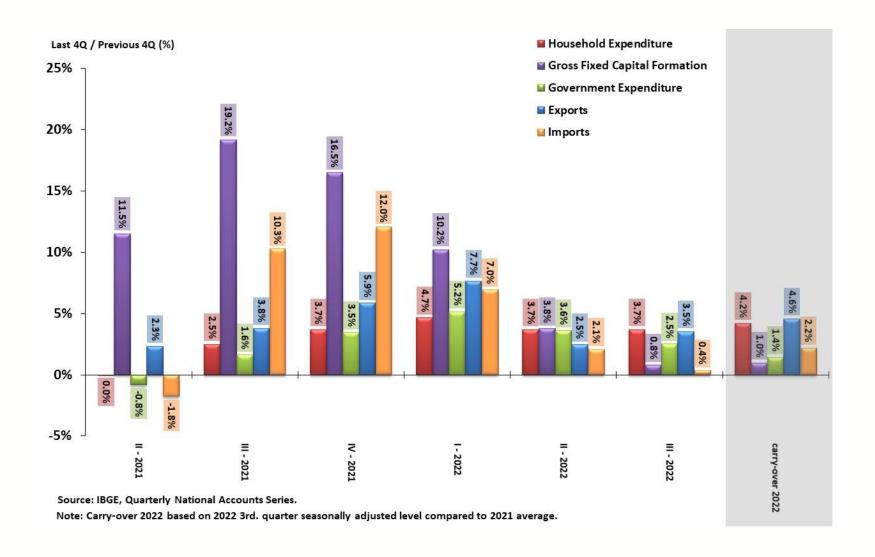




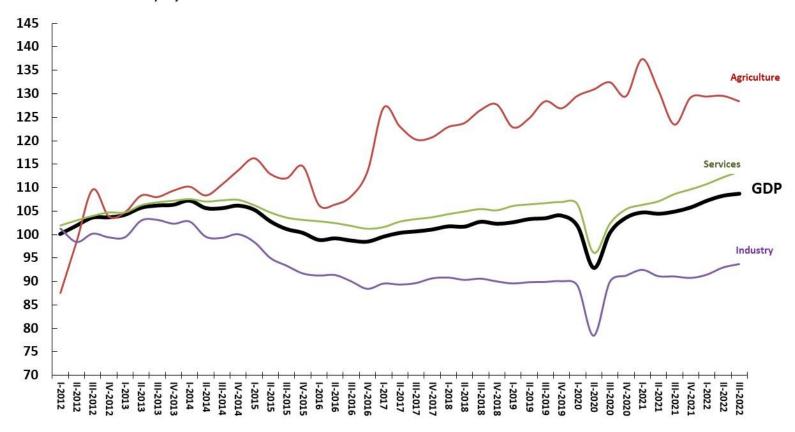
Source: IBGE, Quarterly National Accounts Series \*Forecast: Macroeconomic Parameters, December-2022.

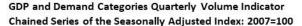


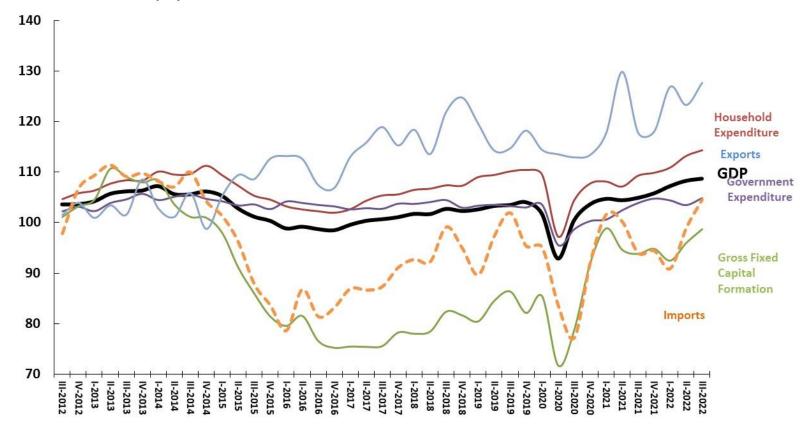


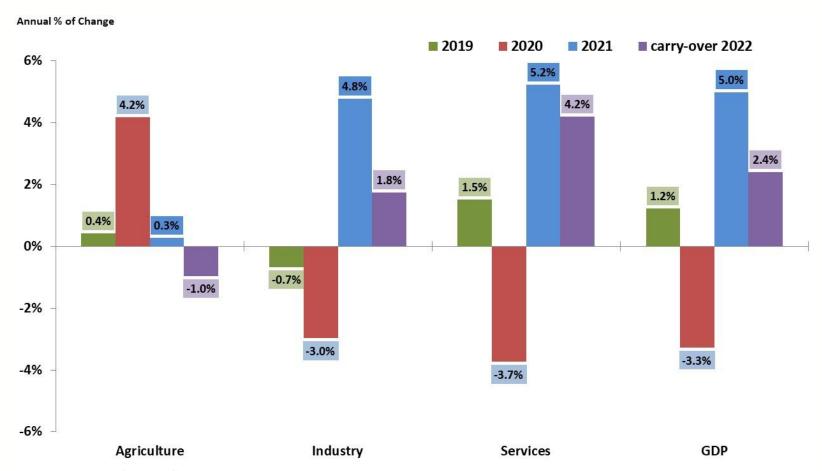


GDP and Economic Sectors Quarterly Volume Indicator Chained Series of the Seasonally Adjusted Index: 2007=100



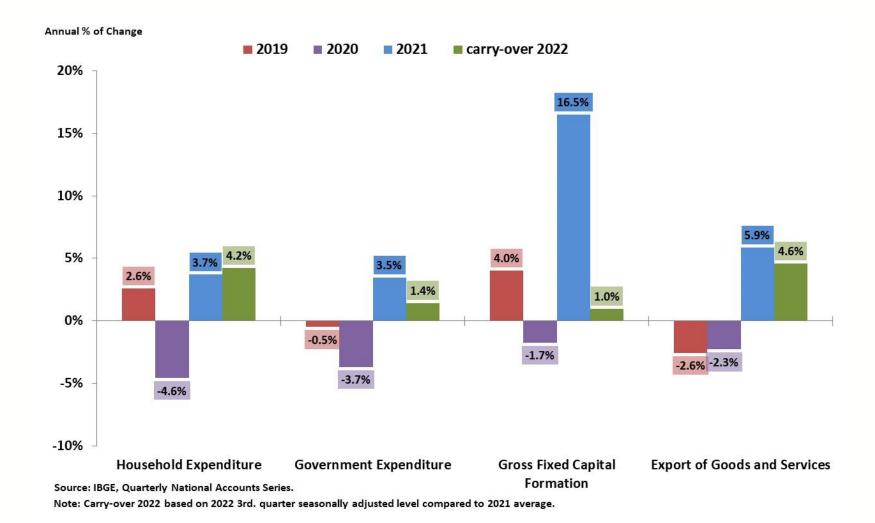


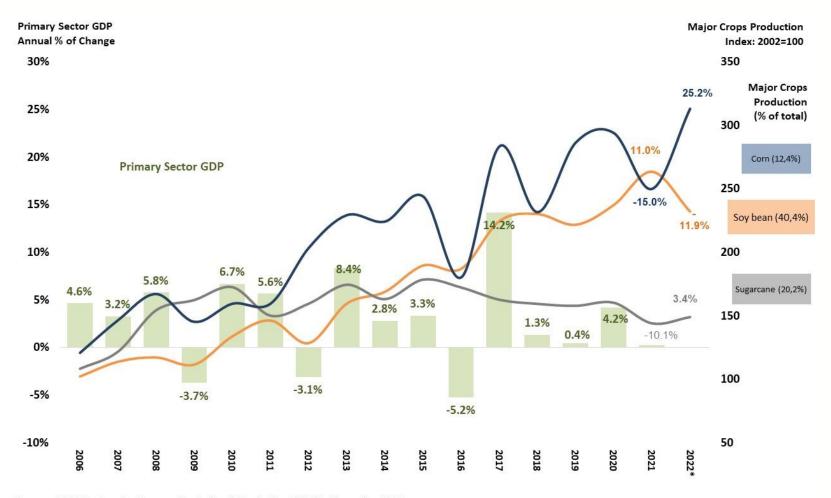




Source: IBGE, Quarterly National Accounts Series.

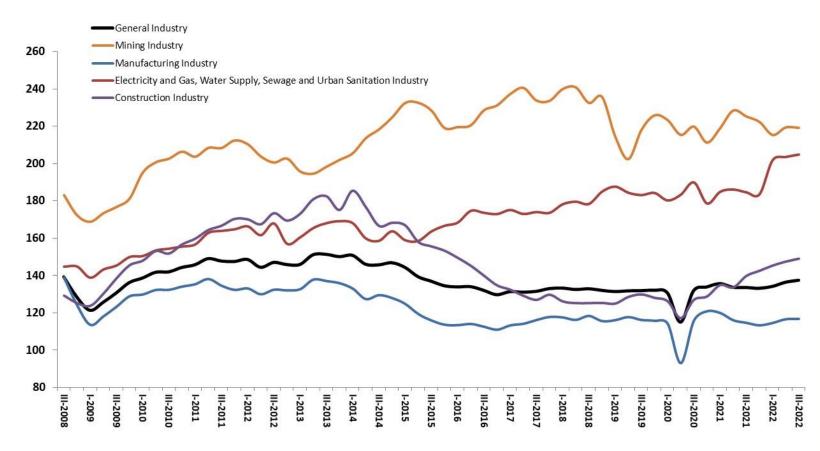
Note: Carry-over 2022 based on 2022 3rd. quarter seasonally adjusted level compared to 2021 average.





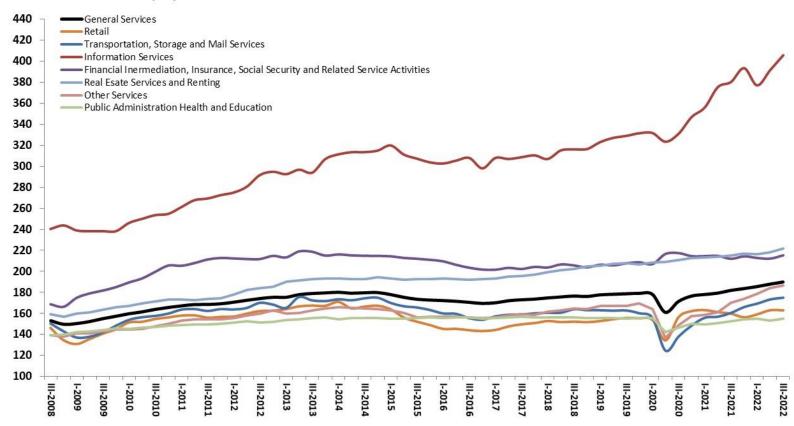
Source: IBGE, Systematic Survey of Agricultural Production (LSPA) - November/2022.

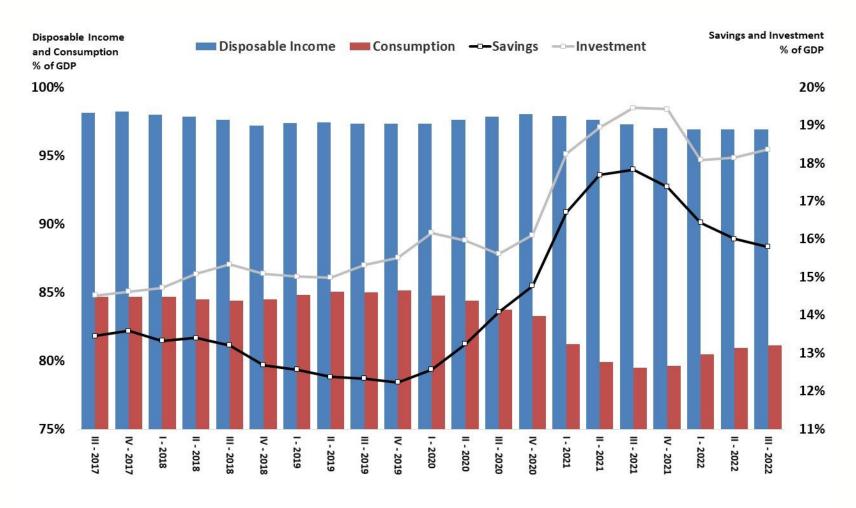
## Industrial Production Indicators Chained Series of the Seasonally Adjusted Index: 1995=100



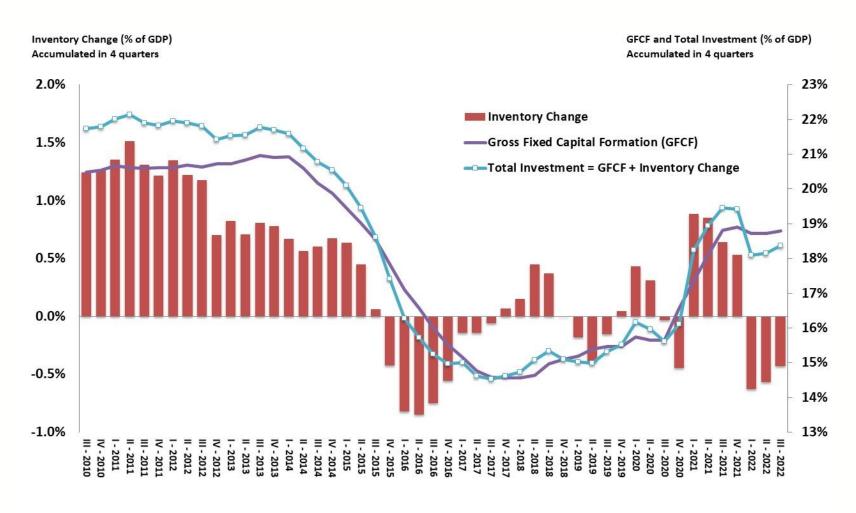
## **Services Provision Indicators**

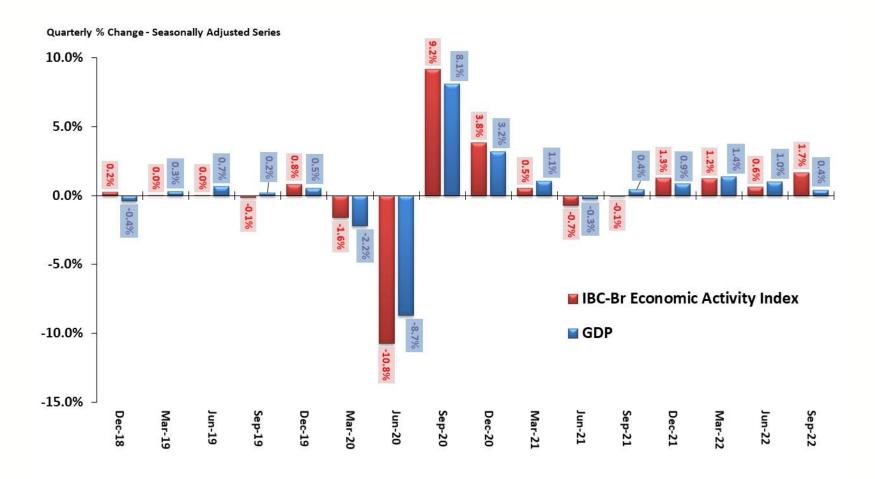
Chained Series of the Seasonally Adjusted Index: 1995=100





Source: IBGE, Quarterly National Accounts Series. Values accumulated in 4 quarters.



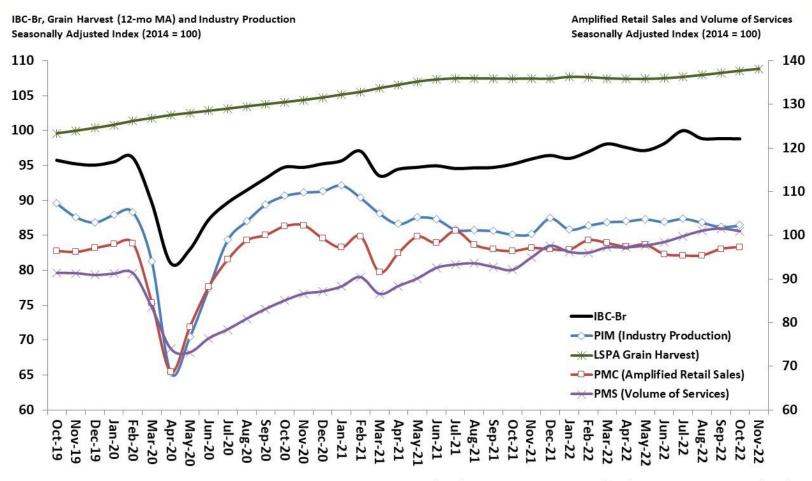


Sources: IBGE and Central Bank of Brazil.

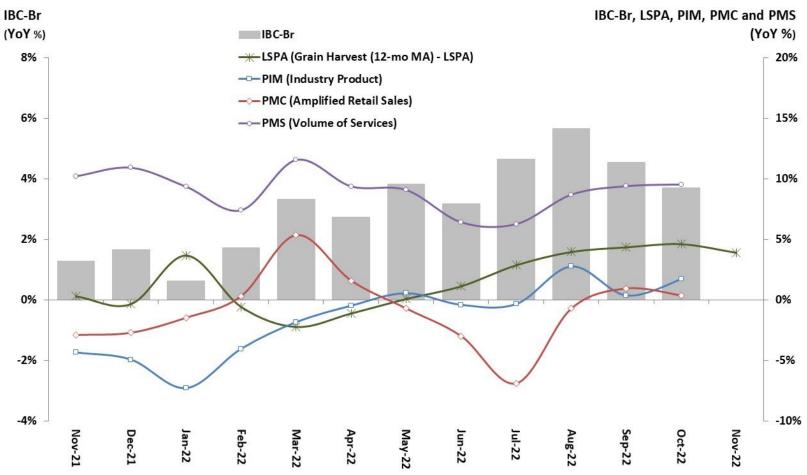
IBC-Br Economic Activity Index October-22 %change	2020	2021	Sep/22- Sep/21	Oct/22- Oct/21	Sep/22 - Aug/22 (seasonally adjusted)	Oct/22 - Sep/22 (seasonally adjusted)	Year-To-Date	Sep/22 accum. in 12-months	Oct/22 accum. in 12- months	carry-over 2022
IBC-Br Economic Activity Index	-4.0%	4.41%	4.5%	3.7%	0.0%	0.0%	3.4%	2.7%	3.1%	3.2%
Systematic Survey of Agricultural Production (IBGE)  November-22  %change	2020	2021	Oct/22- Oct/21	Nov/22- Nov/21	Oct/22 - Sep/22 (seasonally adjusted)	Nov/22 - Oct/22 (seasonally adjusted)	Year-To-Date	Oct/22 accum. in 12 months	Nov/22 accum. in 12-months	carry-over 2022
Grain Harvest	5.6%	3.3%	4.6%	3.9%	0.3%	0.0%	3.9%	4.6%	3.9%	2.0%
Industry Production (IBGE) October-22 %change	2020	2021	Sep/22- Sep/21	Oct/22- Oct/21	Sep/22 - Aug/22 (seasonally adjusted)	Oct/22 - Sep/22 (seasonally adjusted)	Year-To-Date	Sep/22 accum. in 12-months	Oct/22 accum. in 12- months	carry-over 2022
General Industry	-4.5%	3.9%	0.4%	1.7%	-0.7%	0.3%	-0.8%	-2.3%	-1.4%	-0.7%
Mining Industry (weight 11,2%)	-3.4%	1.0%	-5.7%	4.5%	1.8%	0.6%	-3.2%	-2.9%	-2.2%	-2.8%
Manufacturing Industry (weight 88,8%)	-4.6%	4.3%	1.2%	1.4%	-1.4%	0.0%	-0.5%	-2.2%	-1.3%	-0.4%
Food (weight 13,9%)	4.2%	-8.2%	-0.1%	12.2%	-4.2%	4.8%	1.9%	-1.9%	1.1%	1.8%
Petroleum refinement and alcohol production (weight 10,3%)	4.4%	-0.7%	0.6%	-2.3%	-2.6%	0.2%	7.1%	6.8%	6.4%	5.6%
Motor vehicles (weight 10,1%)	-27.9%	20.1%	20.3%	12.6%	-0.1%	-6.7%	1.9%	-2.6%	-0.2%	1.8%
Capital Goods	-9.6%	27.8%	4.6%	-0.2%	-0.7%	-4.1%	-0.5%	0.9%	0.2%	-0.9%
Intermediate Goods	-1.0%	3.3%	-0.3%	1.9%	-1.0%	0.7%	-0.7%	-1.9%	-1.1%	-0.5%
Durable Consumer Goods	-19.8%	2.0%	10.5%	11.8%	-0.2%	-2.7%	-3.7%	-10.1%	-6.5%	-3.0% -0.6%
Semi and Non-Durable Consumer Goods	-6.0%	-0.4%	-1.4%	0.4%	-1.4%	0.3%	-0.6%	-2.6%	-1.7%	
Typical Construction Inputs	2.8%	-11.4%	-5.3%	-3.3%	-4.7%	0.9%	-7.0%	-8.0%	-7.5%	-15.0%
Retail Sales (IBGE) October-22 %change	2020	2021	Sep/22- Sep/21	Oct/22- Oct/21	Sep/22 - Aug/22 (seasonally adjusted)	Oct/22 - Sep/22 (seasonally adjusted)	Year-To-Date	Sep/22 accum. in 12-months	Oct/22 accum. in 12- months	carry-over 2022
Retail Sales	1.2%	1.4%	3.2%	2.7%	1.2%	0.4%	1.0%	-0.7%	0.1%	1.5%
Amplified Retail Sales	-1.4%	4.5%	0.9%	0.3%	1.5%	0.5%	-0.5%	-1.6%	-1.0%	-0.3%
Vehicles, Motorcycles, Parts and Accessories	-13.6%	14.9%	-1.2%	-0.7%	0.1%	-1.7%	-1.3%	-1.2%	-0.9%	-1.9%
Construction Material	10.8%	4.4%	-8.2%	-12.7%	-0.6%	-3.5%	-8.6%	-8.4%	-8.2%	-9.3%
Fuel and Lubricants	-9.7%	0.3%	34.7%	34.2%	1.3%	0.4%	14.9%	7.6%	11.2%	18.2%
Hypermarkets, Supermarkets, Food, Beverage and Tobacco	4.8%	-2.6%	3.8%	2.6%	1.3%	0.2%	1.1%	0.1%	0.8%	1.4%
Textiles, Apparel and Footwear	-22.5%	13.7%	-9.5%	-14.8%	-2.2%	-3.4%	4.0%	3.5%	2.4%	1.1%
Furniture and Household Appliances	10.6%	-7.0%	-6.1%	-0.5%	-0.1%	2.5%	-8.7%	-13.0%	-11.2%	-7.4%
Volume of Services (IBGE) October-22 %change	2020	2021	Sep/22- Sep/21	Oct/22- Oct/21	Sep/22 - Aug/22 (seasonally adjusted)	Oct/22 - Sep/22 (seasonally adjusted)	Year-To-Date	Sep/22 accum. in 12-months	Oct/22 accum. in 12- months	carry-over 2022
Volume of Services	-7.8%	10.9%	9.4%	9.5%	0.5%	-0.6%	8.7%	8.8%	9.0%	7.9%
Services Rendered to Families	-35.6%	18.2%	18.0%	10.7%	0.8%	-1.5%	27.9%	28.2%	26.7%	23.9%
Information and Communication Services	-1.6%	9.5%	6.0%	8.3%	1.8%	0.7%	3.7%	4.8%	4.9%	3.7%
Professional, Administrative and Complementary Services	-11.4%	7.4%	7.7%	8.3%	0.7%	-0.8%	7.8%	7.3%	7.6%	7.4%
Transportation, Support Activities for Transportation and Mailing Activities	-7.6%	15.2%	15.0%	12.0%	-0.3%	-1.8%	13.9%	13.9%	14.0%	13.0%
Other Services	6.8%	5.0%	-2.2%	6.5%	-3.1%	2.6%	-3.6%	-4.6%	-3.7%	-2.5%

Macroeconomic Parameters											
	Industrial Activity - Annual chg. %										
Year	Manuf	acturing	Beve	rages	Vehicles						
		Produ	Domestic Wholesale								
	Price	Quantity	Price	Quantity	Price	Quantity					
2016	8.06	-5.98	7.60	-3.09	6.10	-17.53					
2017	1.76	2.23	4.34	0.78	4.26	12.31					
2018	8.35	1.11	2.67	0.87	3.30	13.05					
2019	4.31	0.19	2.86	4.25	2.97	10.38					
2020	9.13	-4.60	0.87	-0.19	4.15	-25.84					
2021	31.85	4.32	4.14	0.28	12.62	1.04					
2022	17.69	-1.01	9.77	2.63	12.69	-3.68					
2023	1.09	0.19	7.45	2.58	4.07	8.59					
2024	3.15	2.32	6.03	3.64	3.20	12.38					
2025	4.28	2.19	5.99	3.44	2.80	8.72					
2026	4.62	1.75	5.96	2.92	2.49	7.32					

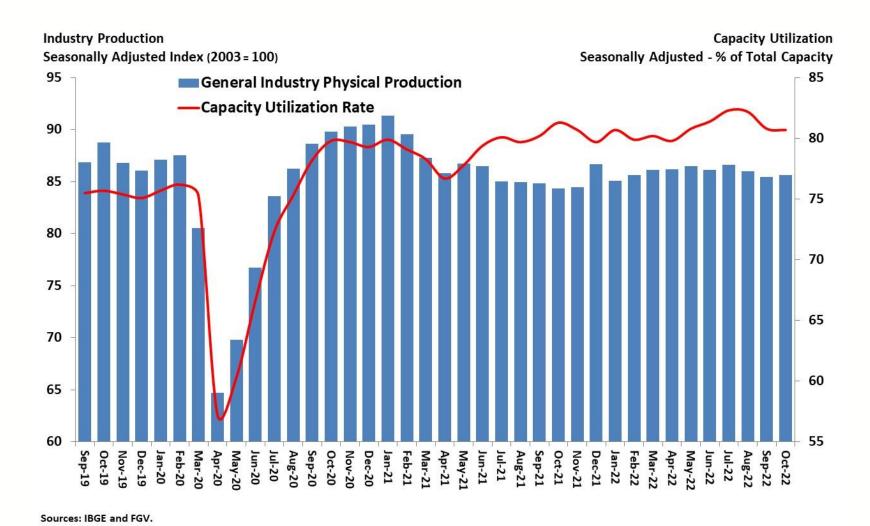
Source: SPE/ME. Macroeconomic Parameters, December-2022.



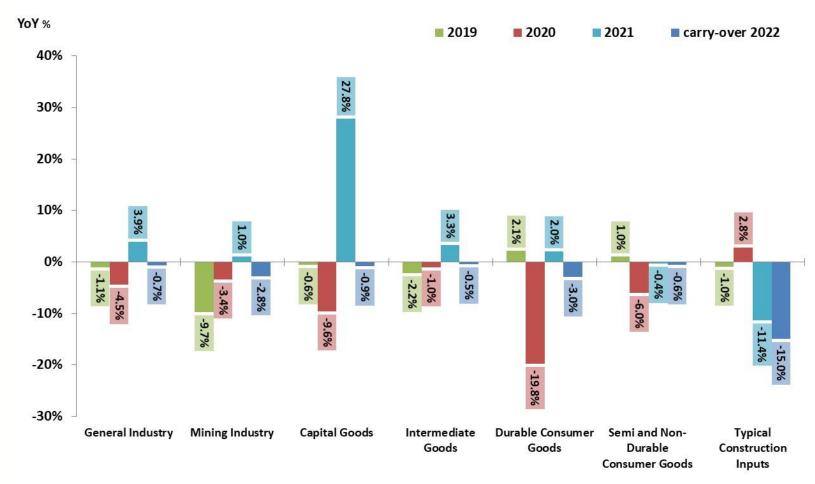
Sources: Central Bank of Brazil and IBGE: Systematic Survey of Agricultural Production (LSPA), Monthly Survey of Industry (PIM), Monthly Survey of Trade (PMC), and Monthly Survey of Services (PMS).



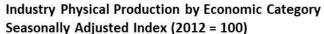
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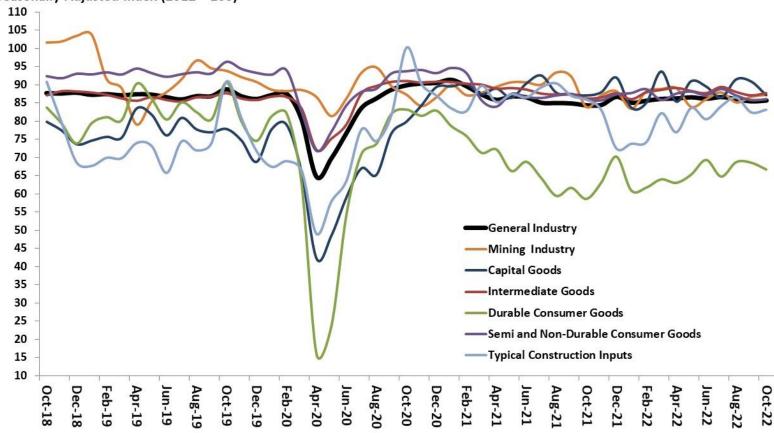


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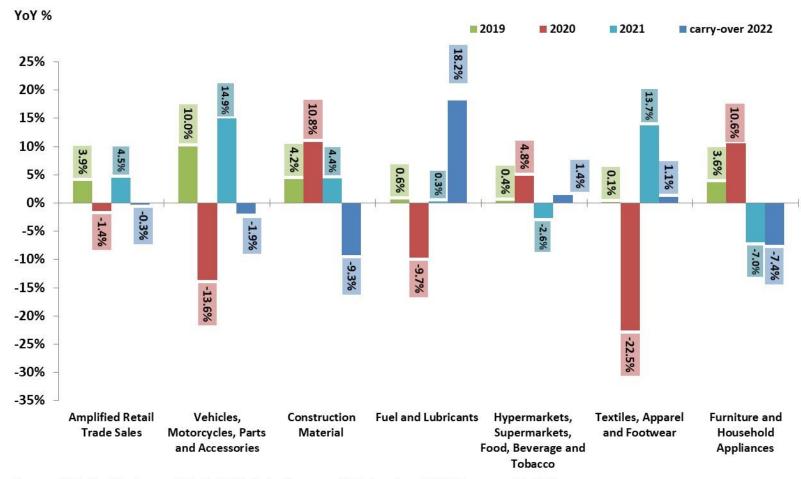


Source: IBGE, Monthly Survey of Industry (PIM). Note: Carry over 2022: based on Oct/2022 compared to 2021 average.

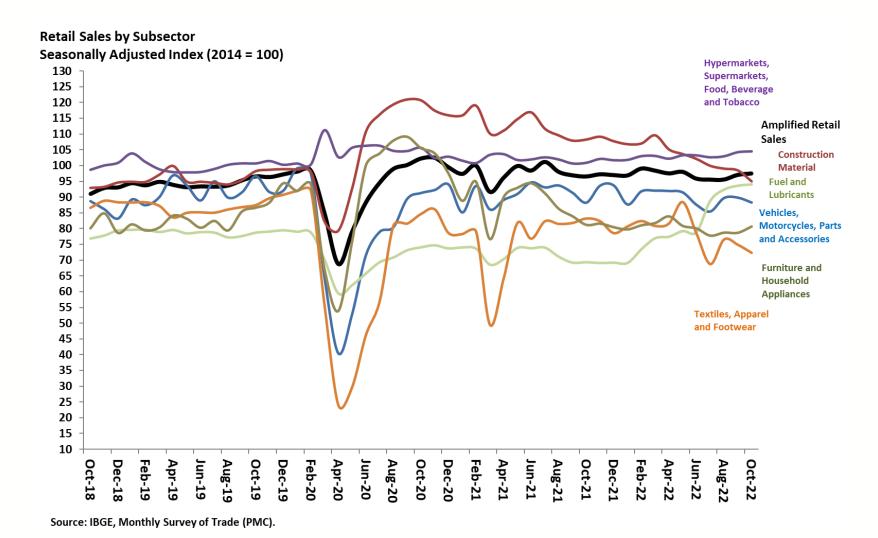


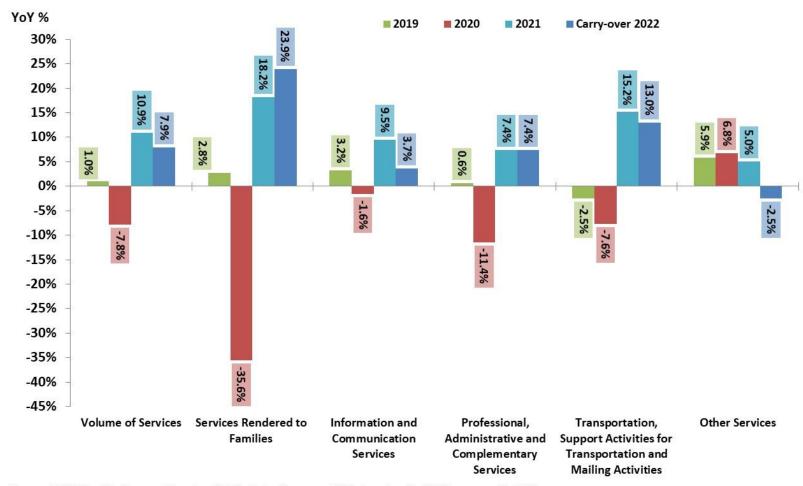


Source: IBGE



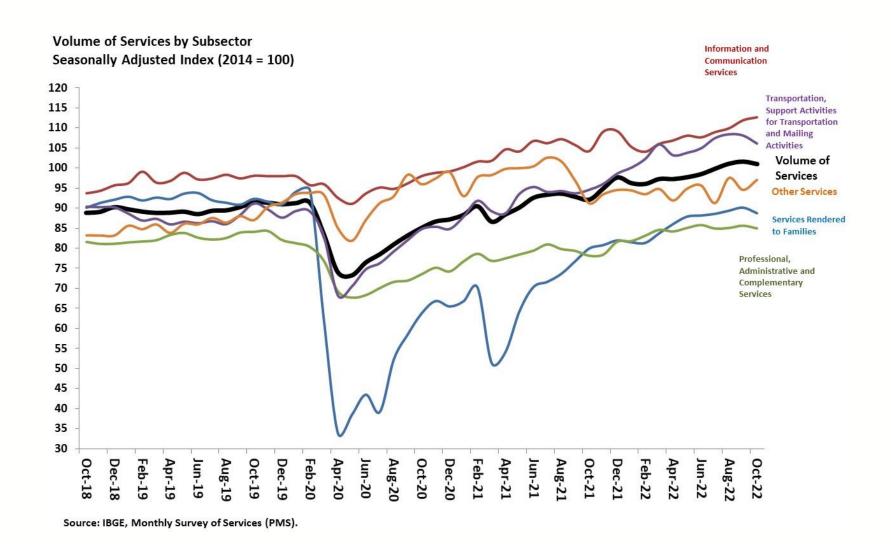
Source: IBGE, Monthly Survey of Trade (PMC). Note: Carry over 2022: based on Oct/2022 compared to 2021 average.



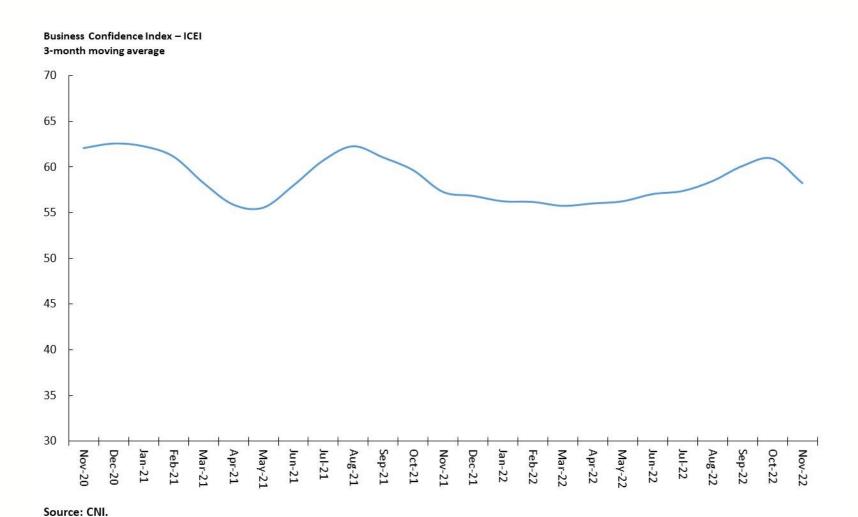


Source: IBGE, Monthly Survey of Services (PMS). Note: Carry over 2022: based on Oct/2022 compared to 2021 average.

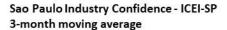


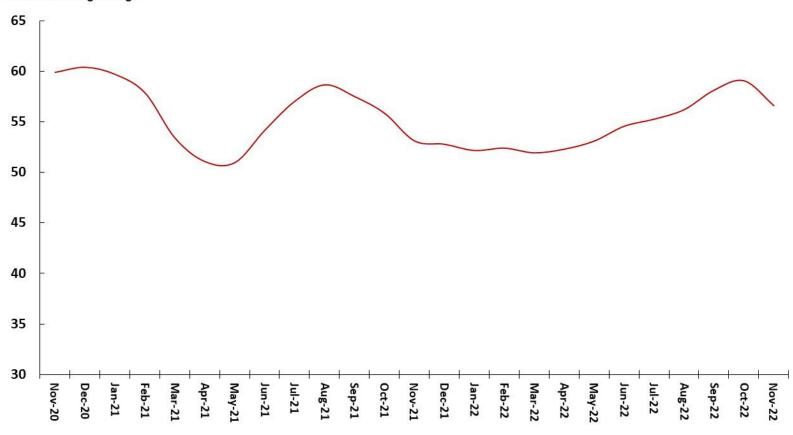


	Last update (m/y)	Annual change % (y-1)	change % (m-1 / y) / (m-1 / y-1)	change % (m / y) / (m / y-1)	change % (m- 1/y) / (m-2/y) (seasonally adjusted)	change % (m/y) / (m-1/y) (seasonally adjusted)	Year-To-Date	(m-1 / y) accum. in 12- months	(m / y) accum. in 12- months	carry-over	
Industry Indicators (CNI)											
Real Sales Revenue	Oct-22	-0.1%	7.0%	10.6%	-0.5%	0.3%	2.4%	-0.7%	1.2%	3.1%	2022
Working Hours in Production	Oct-22	-2.1%	3.3%	2.9%	-1.0%	-1.2%	3.0%	2.7%	2.8%	2.6%	2022
Capacity Utilization - UCI	Oct-22	0.4%	-1.9%	-1.6%	0.0%	0.0%	-0.7%	-0.3%	-0.6%	-0.5%	2022
Industry Inventories (CNI) - Final Goods - planned x realize	Dec-22	1.0%	3.7%	3.0%	-1.6%	0.0%	4.1%	5.9%	4.9%	3.2%	2023
Business Confidence - ICEI (CNI)	Nov-22	19.5%	4.2%	-7.7%	-4.2%	-14.0%	-2.3%	-3.4%	-3.0%	-2.7%	2022
Sao Paulo Industry Confidence - ICEI-SP (FIESP)	Nov-22	25.9%	7.7%	-2.9%	-5.2%	-13.6%	0.2%	-2.2%	-1.0%	0.0%	2022
Industry Capacity Utilization - NUCI (FGV)	Nov-22	0.7%	-0.7%	-1.1%	-0.1%	-1.1%	1.8%	1.8%	1.6%	1.6%	2022
Industry Confidence (FGV)	Nov-22	12.5%	-8.9%	-9.7%	-3.8%	-3.8%	-8.1%	-8.6%	-8.6%	-7.9%	2022
Consumer Confidence (FGV)	Nov-22	13.1%	15.0%	12.9%	-0.4%	-3.7%	4.6%	2.0%	3.9%	5.8%	2022
Services Confidence (FGV)	Nov-22	14.6%	0.0%	-3.2%	-2.6%	-5.4%	6.1%	8.0%	6.5%	5.4%	2022
Construction Confidence (FGV)	Nov-22	8.5%	5.1%	0.3%	-0.8%	-5.3%	4.6%	4.6%	4.4%	4.1%	2022
Retail Confidence (FGV)	Nov-22	15.2%	3.4%	-1.0%	-3.7%	-11.0%	0.9%	-0.1%	0.3%	1.2%	2022
Supermarket Sector Total Retail Sales (ABRAS)	Oct-22	1.3%	26.0%	27.6%	1.4%	1.6%	13.3%	8.7%	11.2%	15.3%	2022
Natural Gas and Oil Production (ANP)	Oct-22	4.5%	5.2%	16.1%	2.7%	4.9%	2.5%	1.2%	2.8%	4.2%	2022
Electric Energy Consumption - Total (EPE)	Oct-22	1.2%	0.2%	-0.3%	-1.3%	-1.6%	1.1%	1.1%	1.2%	0.9%	2022
Industry Consumption (EPE)	Oct-22	1.3%	1.8%	0.9%	-0.9%	-1.3%	0.5%	1.0%	1.0%	0.4%	2022
Electric Energy System Supply (ONS)	Nov-22	1.8%	-4.2%	2.5%	-2.4%	0.3%	0.5%	1.5%	1.6%	0.7%	2022
Corrugated Fiberboard Sales (ABPO)	Nov-22	7.9%	1.5%	-0.2%	-1.9%	-1.1%	-2.2%	-2.7%	-2.4%	-2.3%	2022
Heavy Vehicles Road Traffic (ABCR)	Nov-22	8.0%	2.7%	0.9%	-0.6%	-1.3%	2.3%	1.9%	2.1%	2.1%	2022
Total Vehicles Production (ANFAVEA)	Nov-22	13.7%	15.1%	4.9%	2.2%	-1.6%	6.3%	4.4%	6.3%	5.2%	2022
Car Production	Nov-22	7.4%	21.8%	5.5%	4.0%	-3.4%	8.1%	5.9%	8.1%	7.3%	2022
Commercial Vehicles Production	Nov-22	81.5%	13.5%	5.2%	0.8%	1.0%	1.8%	3.3%	1.8%	1.8%	2022
Total Vehicles Exports (ANFAVEA)	Nov-22	17.8%	47.8%	58.2%	42.9%	-1.1%	33.7%	23.9%	33.7%	32.5%	2022
Total Vehicles Sales/Licensing (FENABRAVE)	Nov-22	3.8%	11.4%	17.9%	-2.9%	3.7%	-2.9%	-6.6%	-2.9%	-4.1%	2022
Domestic Vehicles Sales/Licensing	Nov-22	2.9%	13.2%	17.3%	-3.6%	1.6%	-4.7%	-8.7%	-4.7%	-6.0%	2022
Imported Vehicles Sales/Licensing	Nov-22	11.6%	0.3%	21.7%	-2.9%	17.8%	11.1%	11.1%	11.1%	11.0%	2022

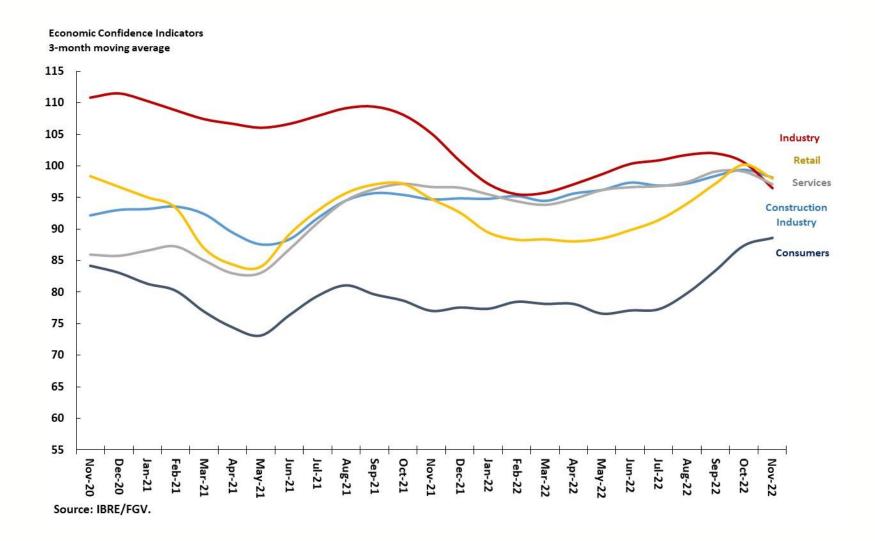


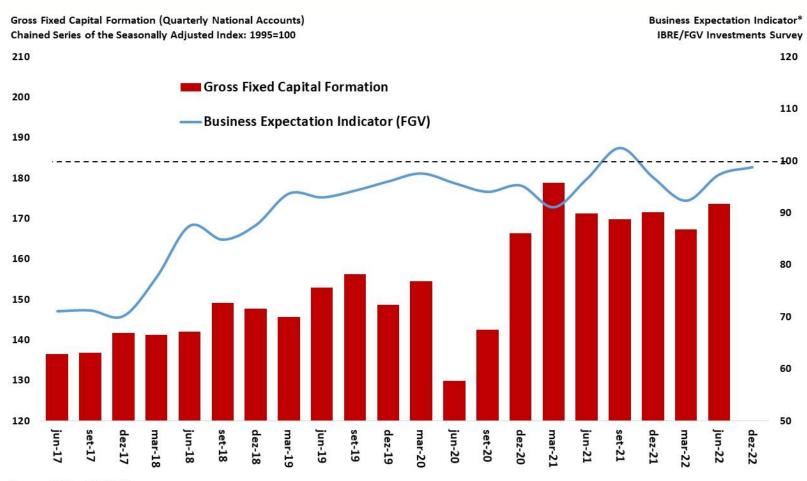






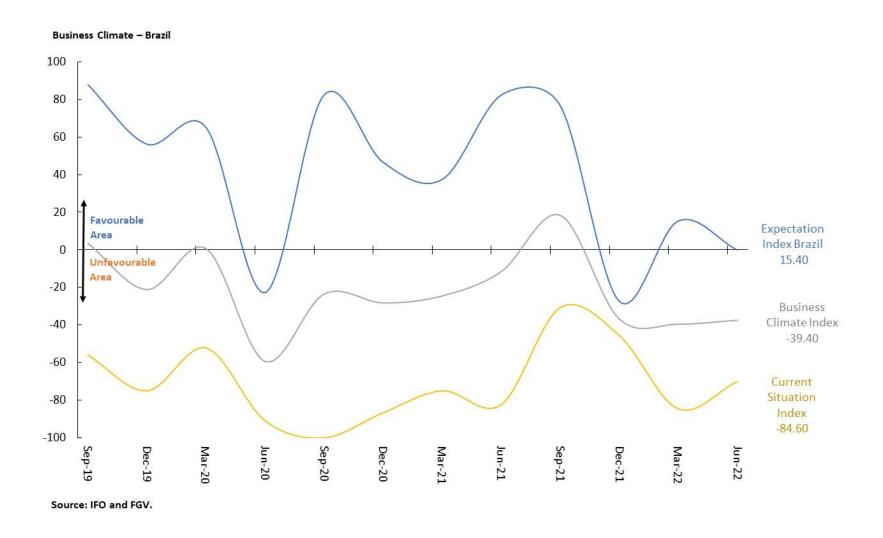
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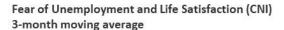


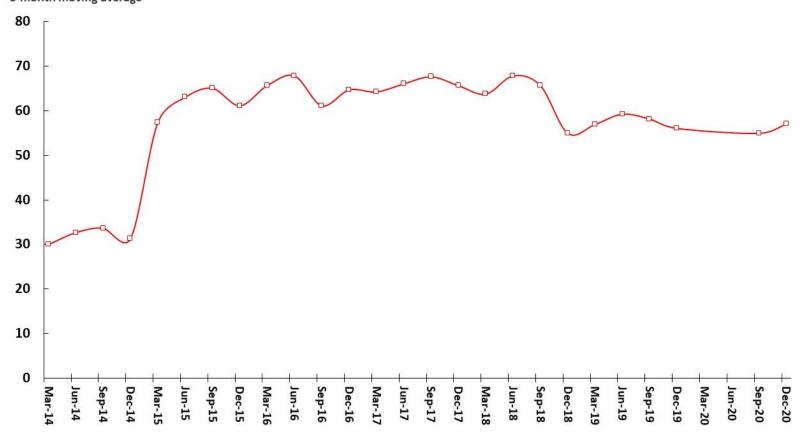


Source: IBGE e IBRE/FGV.

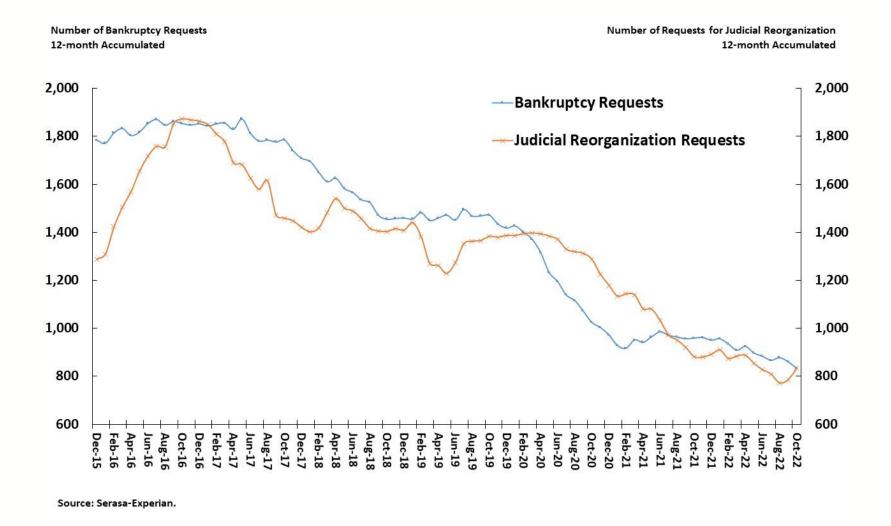
<sup>\*</sup>Note: Measures the difference between positive and negative answers, plus 100.

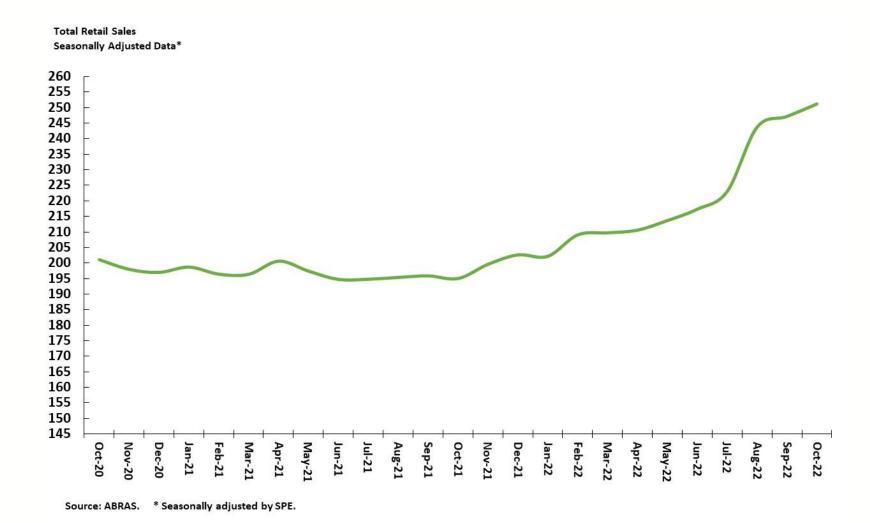


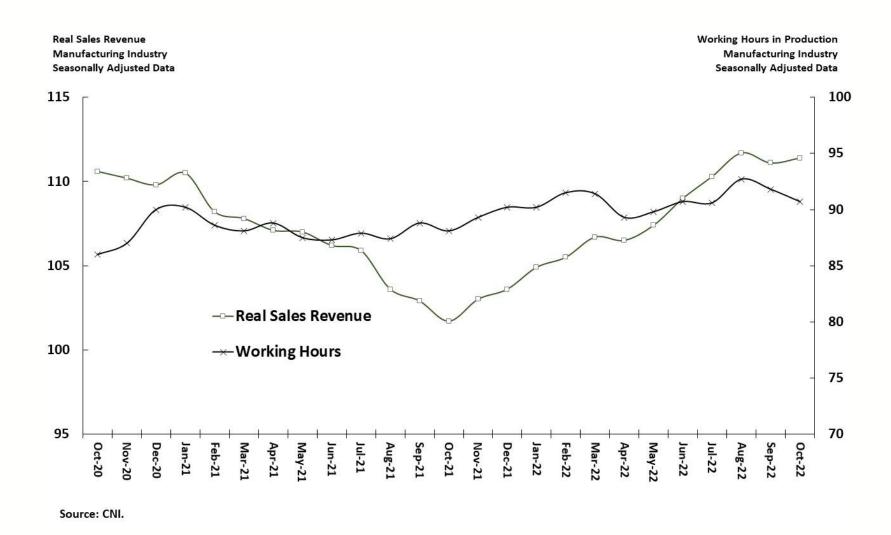




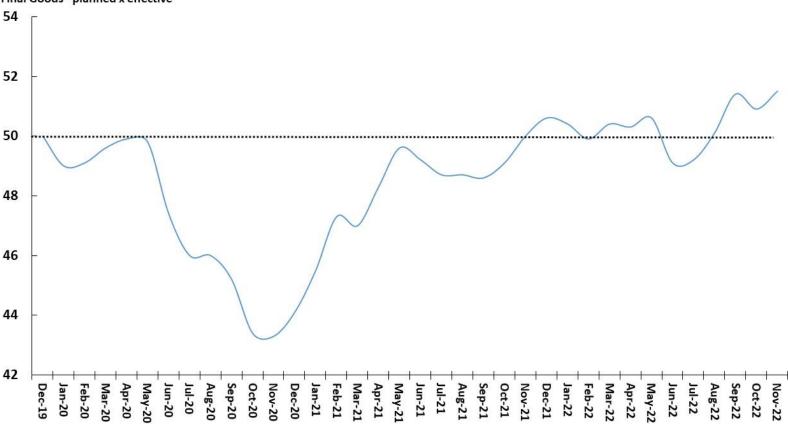
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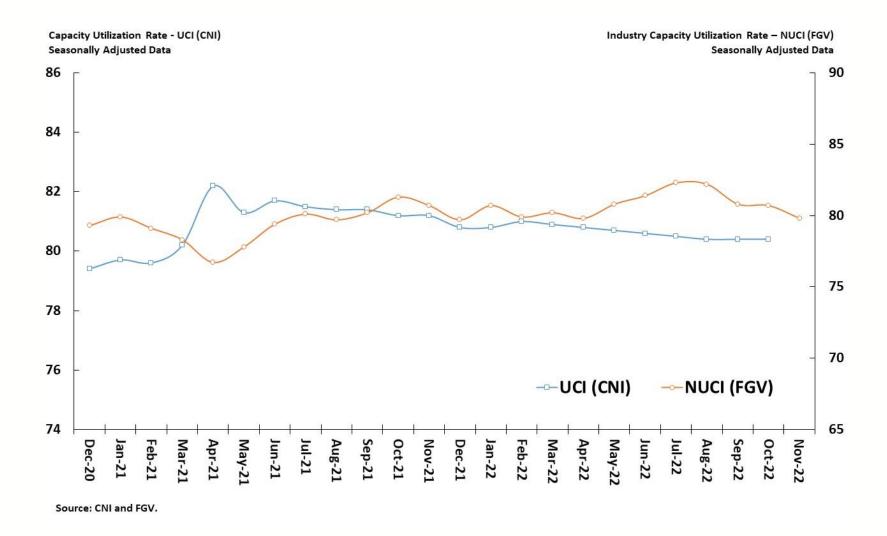


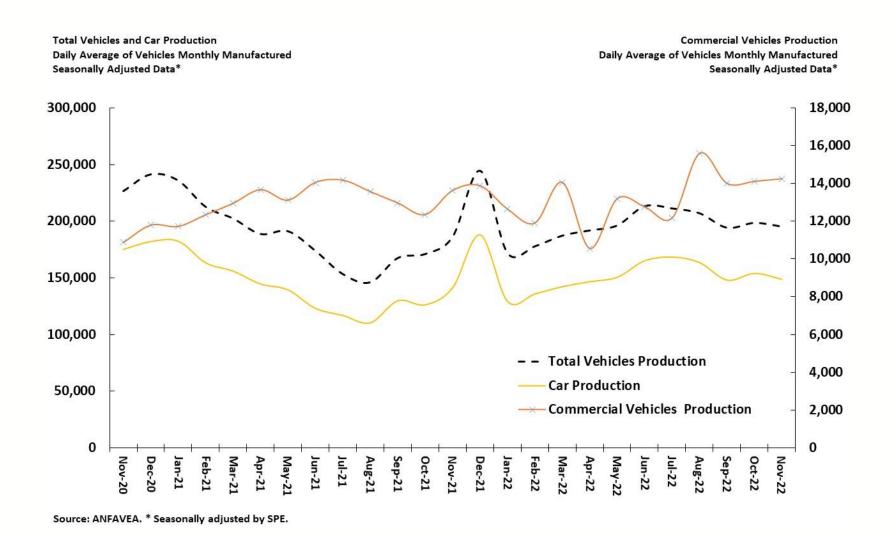


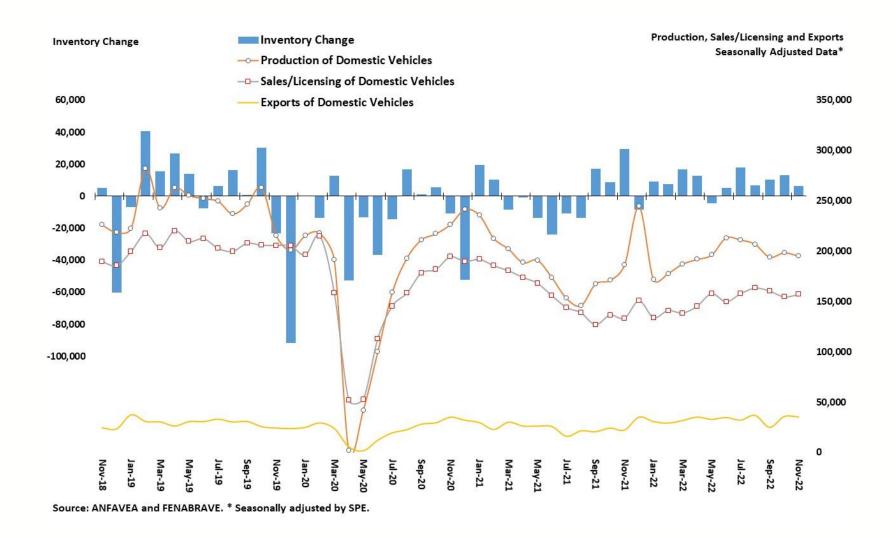




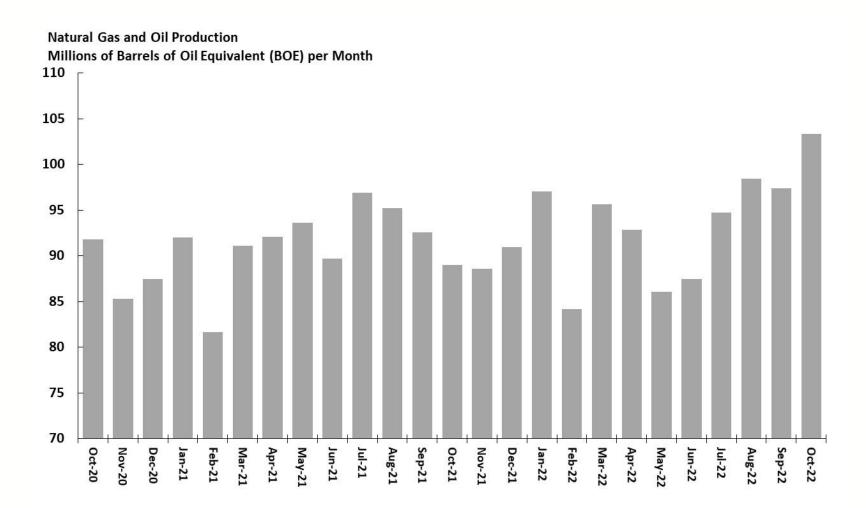
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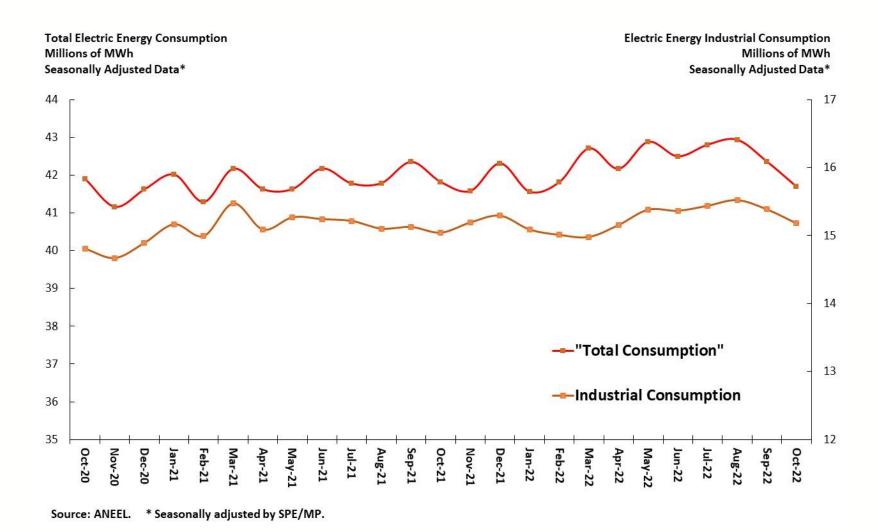




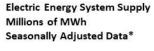
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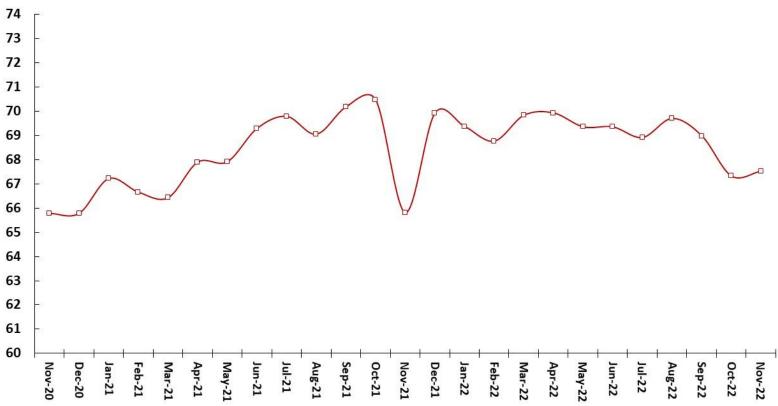


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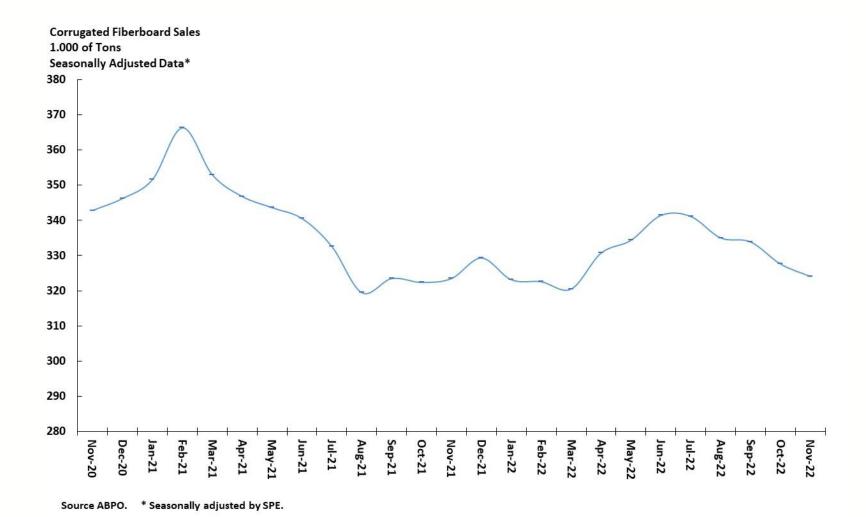




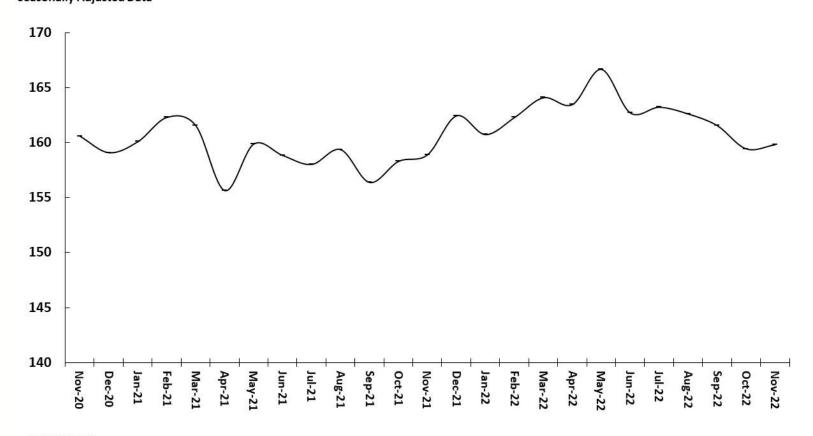




Source: ONS. \* Seasonally adjusted by SPE.



Heavy Vehicles Road Traffic Index Index: 1999=100 Seasonally Adjusted Data



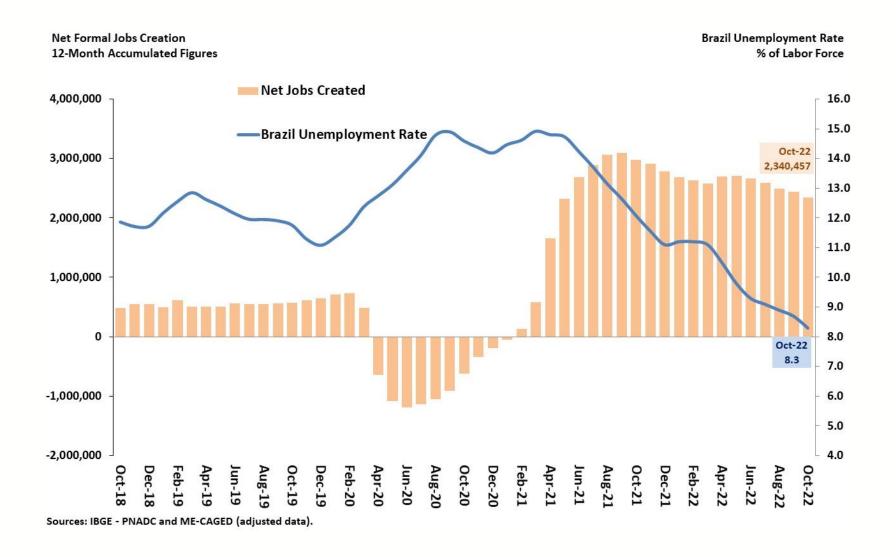
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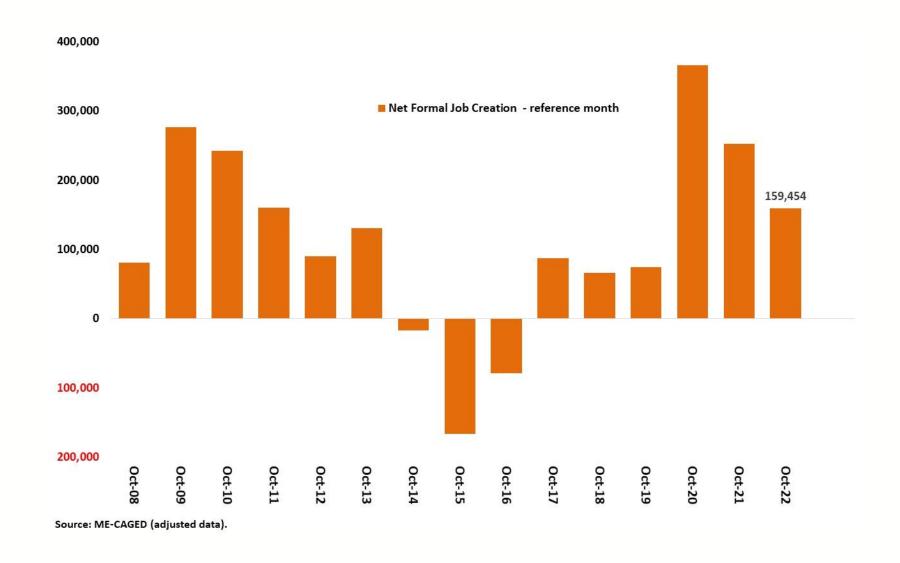
## Labor market

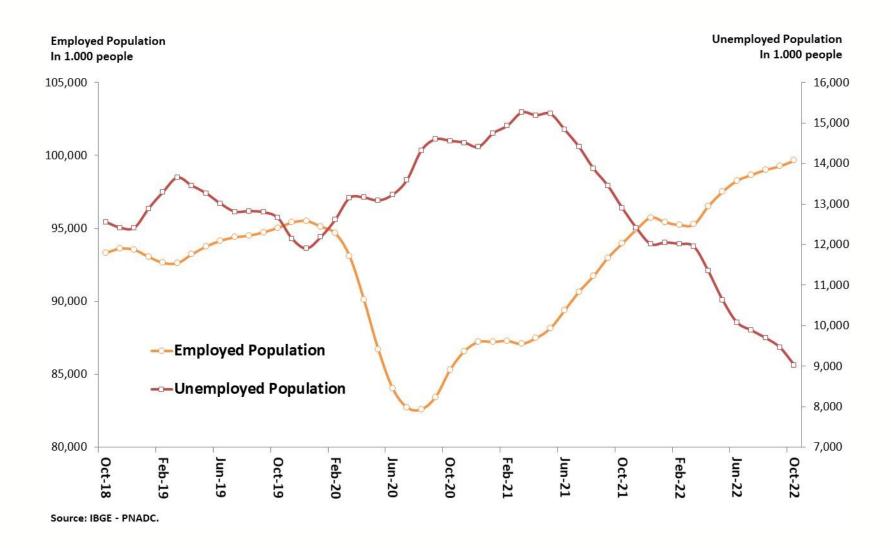
										BCB/Focus:	12/16/22	
Employment Indicators October-2: Brasil (PNADC, IBGE)	2020 average	2021 average	Oct/22 (12-months moving average)	Oct-22	chg.% 2021 / 2020	chg.% Sep/22- Sep/21	chg.% Oct/22- Oct/21	chg.% YTD 2020 / YTD 2019	chg.% Oct/22 - 2019 average	2022	2023	2024
Unemployment Rate % Labor Force	13.5	13.5	10.1	8.3	0.0 pp	-3.9 pp	-3.8 pp	-4.1 pp	-5.2 pp	9.95	10.2	10.0
Working Age Population (in thousands)	169,917	171,551	172,871	173,587	1.0%	0.9%	0.9%	0.9%	1.2%			
Labor Force (in thousands)	101,254	104,652	108,005	108,684	3.4%	2.2%	1.7%	3.9%	3.9%			
Employed Population (in thousands)	87,638	90,549	97,127	99,661	3.3%	6.8%	6.1%	8.8%	10.1%			
Unemployed Population (in thousands)	13,617	14,103	10,879	9,023	3.6%	-29.7%	-30.1%	-26.7%	-36.0%			
Average Real Earnings (PNADC, IBGE)  real values (in R\$ of last month)	2020 average	2021 average	Oct/22 (12-months moving average)	Oct-22	chg.% 2021 / 2020	chg.% Sep/22- Sep/21	chg.% Oct/22- Oct/21	chg.% YTD 2020 / YTD 2019	chg.% Oct/22 - 2019 average			
Employed Population	2,921	2,747	2,643	2,754	-5.9%	2.5%	4.7%	-4.5%	0.2%			
Formal Contract	2,719	2,596	2,542	2,611	-4.5%	1.6%	3.7%	-2.9%	0.6%			
Informal Contract	1,857	1,753	1,752	1,818	-5.6%	3.8%	10.8%	-1.4%	3.7%			
Self-employed	2,123	2,072	2,086	2,178	-2.4%	5.1%	7.2%	0.2%	5.1%			
Public Sector	4,551	4,408	4,073	4,196	-3.1%	-2.0%	0.8%	-8.8%	-4.8%			
Real Wage Bill (in R\$ milions of last months)	251,047	243,859	251,770	269,497	-2.9%	9.4%	11.0%	3.9%	10.5%			
Formal Jobs (CAGED, MTE) October-2:	2020	2021	Sep/22 accum. in 12-		Year-To- Date	Oct-22	chg.% 2021 / 2020	chg.% Oct/22 accum.12-m /	2020 / YTD			
Million people			months	12-months				2019	2019			
Net Formal Jobs Creation	-193	2,777	2,434	2,340	2,320	159	-1541.6%	-15.7%	84.2%			
Job Oppenings	15,625	20,949	22,839	22,786	19,445	1,789	34.1%	8.8%	110.4%			
Job Separations	15,818	18,172	20,405	20,445	17,125	1,630	14.9%	12.5%	115.3%			

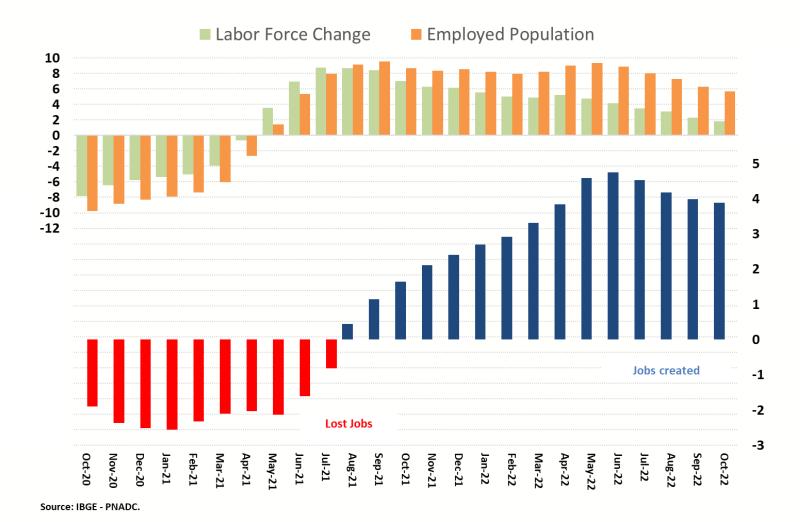
Macroeconomic Parameters									
			Formal Jobs i	n Private Sec	tor				
Year	Labor Force	Employed Population	Earni	ings	Wage Bill				
Teal		Employed Population	Nominal	Real	Nominal	Real			
		Chg. % acc	um. In 4-trimeste	ers					
2016	1.32	-4.28	7.65	-1.03	3.04	-5.27			
2017	1.70	-2.76	5.90	2.36	2.99	-0.46			
2018	1.20	-0.58	3.43	-0.22	2.84	-0.79			
2019	1.77	1.43	3.35	-0.38	4.83	1.05			
2020	-5.88	-6.91	5.84	2.55	-1.51	-4.56			
2021	4.35	2.56	2.70	-5.12	5.37	-2.77			
2022	3.36	9.18	8.68	-0.64	18.70	8.61			
2023	2.44	3.84	7.13	2.53	11.21	6.45			
2024	2.08	2.54	4.89	1.27	7.54	3.84			
2025	2.15	2.47	3.98	0.95	6.55	3.45			
2026	2.30	2.86	3.90	0.87	6.86	3.75			

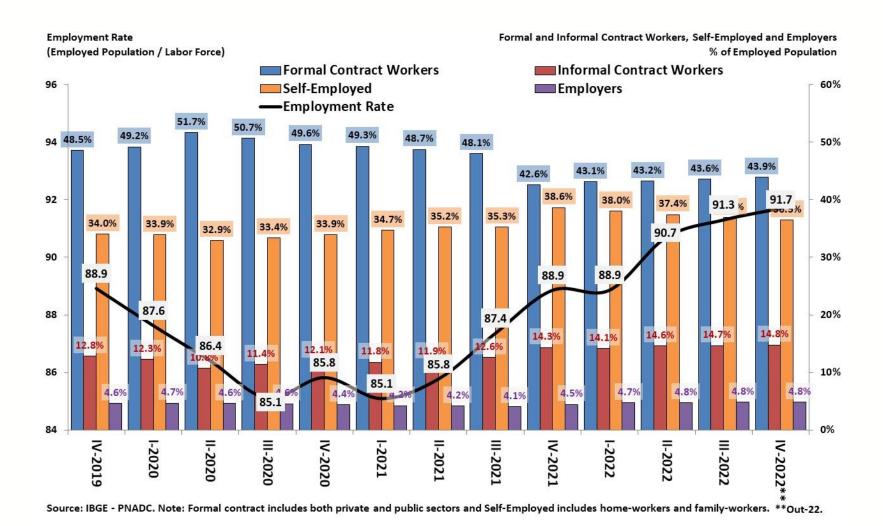
Source: SPE/ME. Macroeconomic Parameters, December-2022.



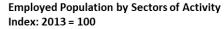


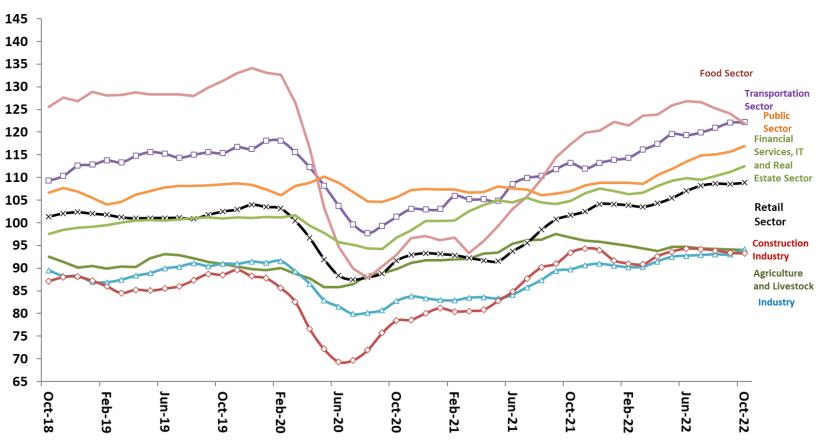




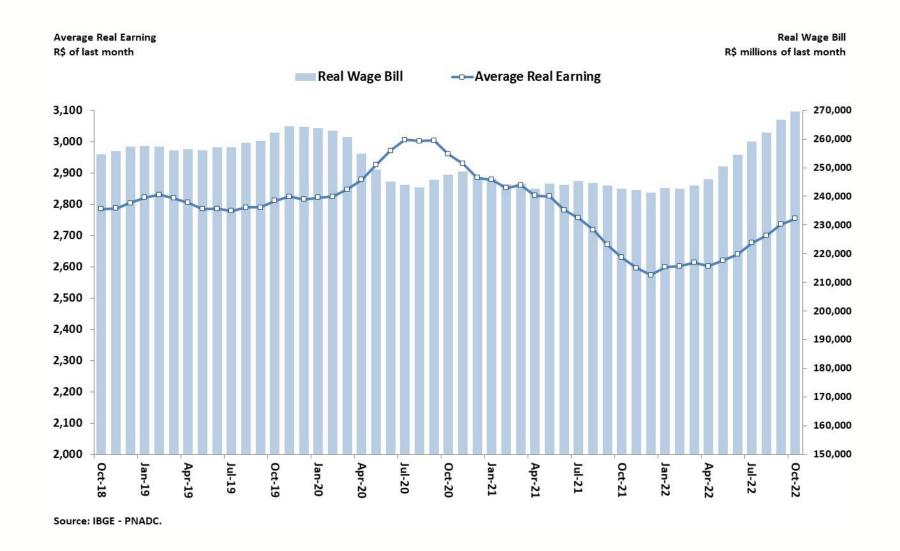


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Source: IBGE - PNADC.

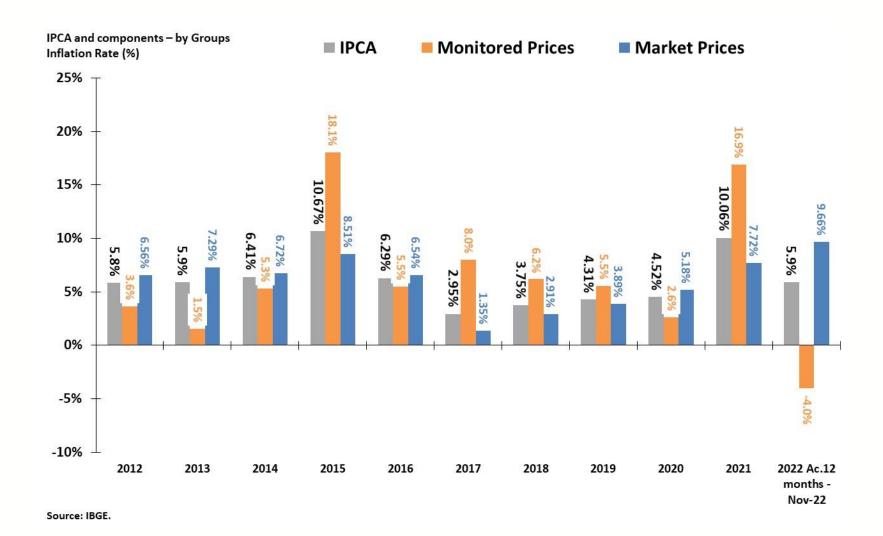


## Inflation

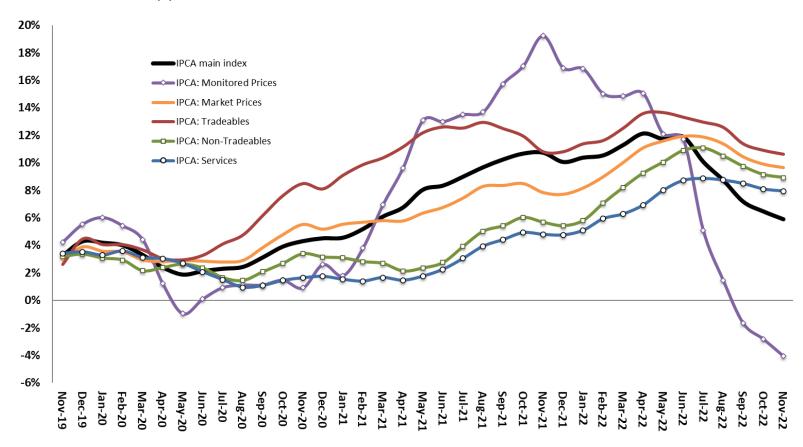
													BCB/Focus:	12/16/22	
Inflation Index	Last update (m / y)	2020	2021	Accum. In 12- months	YTD Wednesd ay	YTD Thursday	(m-2/y-1)	(m-1/y-1)	(m/y-1)	(m-2/y)	(m-1/y)	(m / y)	2022	2023	2024
IPCA Inflation Target (CMN)		4.0%	3.8%	3.5%									3.50%	3.25%	3.00%
Consumer Price Index IPCA (IBGE)	Nov-22	4.52%	10.06%	5.90%	9.26%	5.13%	1.16%	1.25%	0.95%	-0.29%	0.59%	0.41%	5.76%	5.17%	3.50%
IPCA core (By exclusion food and energy - Ex2)	Nov-22	2.8%	7.3%	8.0%	6.3%	7.0%	1.0%	1.0%	0.5%	0.5%	0.7%	0.2%			
Food and Beverages	Nov-22	14.1%	7.9%	11.8%	7.0%	10.9%	1.0%	1.2%	0.0%	-0.5%	0.7%	0.5%			
Housing	Nov-22	5.3%	13.0%	0.6%	12.2%	-0.1%	2.6%	1.0%	1.0%	0.6%	0.3%	0.5%			
Household Articles	Nov-22	6.0%	12.1%	8.7%	10.6%	7.2%	0.9%	1.3%	1.0%	-0.1%	0.4%	-0.7%			
Apparel	Nov-22	-1.1%	10.3%	18.6%	8.1%	16.2%	0.3%	1.8%	1.0%	1.8%	1.2%	1.1%			
Transportation	Nov-22	1.0%	21.0%	-0.9%	20.3%	-1.5%	1.8%	2.6%	3.4%	-2.0%	0.6%	0.8%			
Health and Personal Care	Nov-22	1.5%	3.7%	10.5%	2.9%	9.7%	0.4%	0.4%	-0.6%	0.6%	1.2%	0.0%			
Personal Expenses	Nov-22	1.0%	4.7%	7.7%	4.2%	7.1%	0.6%	0.8%	0.6%	1.0%	0.6%	0.2%			
Education	Nov-22	1.1%	2.8%	7.3%	2.8%	7.3%	0.0%	0.1%	0.0%	0.1%	0.2%	0.0%			
Communication	Nov-22	3.4%	1.4%	-1.2%	1.0%	-1.5%	0.1%	0.5%	0.1%	-2.1%	-0.5%	-0.1%			
Consumer Price Index INPC (IBGE)	Nov-22	2.07%	3.43%	5.97%	9.36%	5.21%	1.20%	1.16%	0.84%	-0.32%	0.47%	0.38%			
Consumer Price Index IPCA - 15 (IBGE)	Dec-22	4.23%	10.42%	5.90%	10.42%	5.90%	1.20%	1.17%	0.78%	0.16%	0.53%	0.52%			
General Price Index IGP-10 (FGV)	Dec-22	-0.42%	7.92%	6.10%	17.30%	17.83%	-0.31%	1.19%	-0.14%	-1.04%	-0.59%	0.36%			
General Price Index IGP-M (FGV)	Nov-22	-0.53%	7.55%	5.90%	16.78%	4.99%	-0.64%	0.64%	0.02%	-0.95%	-0.97%	-0.56%	5.42%	4.55%	4.02%
General Price Index IGP-DI (FGV)	Nov-22	-0.42%	7.10%	5.99%	2.91%	4.68%	-0.55%	1.60%	-0.58%	-1.22%	-0.62%	-0.18%			
Consumer Price Subindex IPC/Br-DI	Nov-22	3.22%	4.34%	4.53%	0.27%	3.93%	1.43%	0.77%	1.08%	0.02%	0.69%	0.57%			
Construction Cost Subindex INCC-DI	Nov-22	4.25%	3.83%	9.55%	0.89%	9.17%	0.51%	0.86%	0.67%	0.09%	0.12%	0.36%			
Wholesale Price Subindex IPA-DI	Nov-22	-2.52%	8.73%	5.97%	3.92%	4.37%	-1.17%	1.90%	-1.16%	-1.68%	-1.04%	-0.43%			
IPA-DI Industry	Nov-22	1.22%	9.16%	5.30%	3.25%	3.70%	-0.04%	-0.06%	-1.71%	-1.20%	-1.79%	-0.96%			
IPA-DI Agriculture	Nov-22	-12.34%	7.52%	6.24%	4.20%	4.63%	-1.64%	2.72%	-0.93%	-1.88%	-0.73%	-0.22%			
São Paulo Consumer Price Index IPC RMSP (FIPE)	Nov-22	2.28%	2.99%	7.35%	9.10%	6.74%	1.13%	1.00%	0.72%	0.12%	0.45%	0.47%			

Macroeconomic Parameters												
	Inflation											
	IP	CA	IN	PC	IGP-DI							
Year	Annual	Annual	Annual	Annual	Annual	Annual						
	Average	Accum.	Average	Accum.	Average	Accum.						
			Chg	. %								
2016	8.74	6.29	9.32	6.58	10.19	7.18						
2017	3.45	2.95	2.97	2.07	0.96	-0.42						
2018	3.66	3.75	2.87	3.43	5.81	7.10						
2019	3.73	4.31	3.75	4.48	6.05	7.70						
2020	3.21	4.52	3.61	5.45	13.05	23.08						
2021	8.30	10.06	8.99	10.16	27.30	17.74						
2022	9.28	5.75	9.42	5.81	10.30	5.25						
2023	4.34	4.60	4.49	4.90	2.04	4.55						
2024	3.57	3.00	3.67	3.00	4.37	4.20						
2025	3.00	3.00	3.00	3.00	4.07	4.00						
2026	3.00	3.00	3.00	3.00	3.86	3.70						

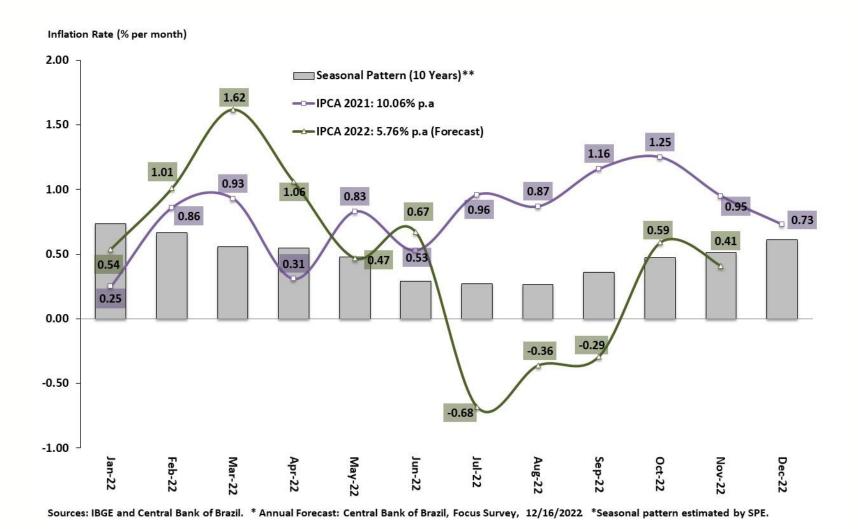
Source: SPE/ME. Macroeconomic Parameters, December-2022.



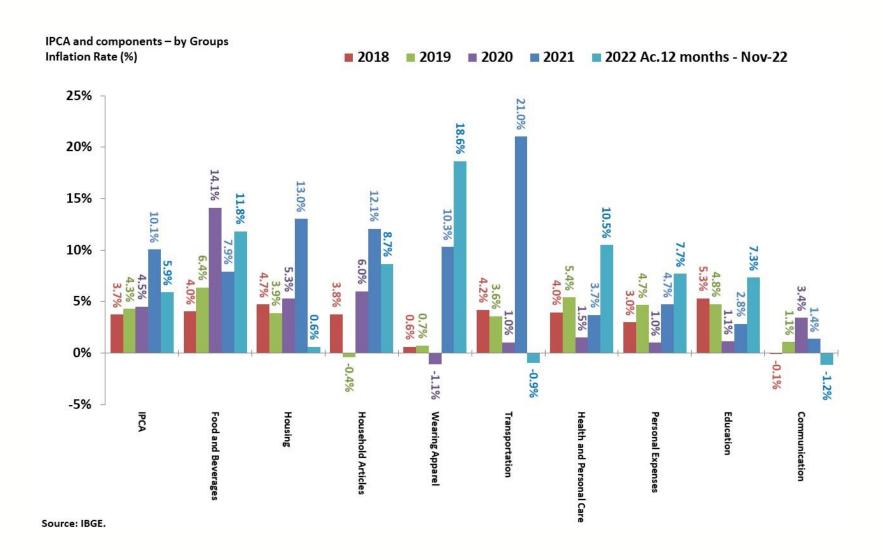


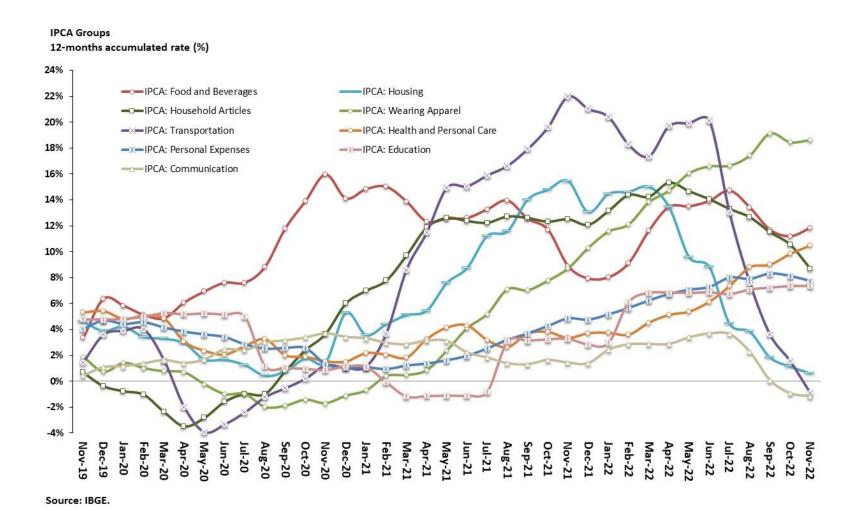


Source: IBGE

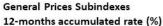


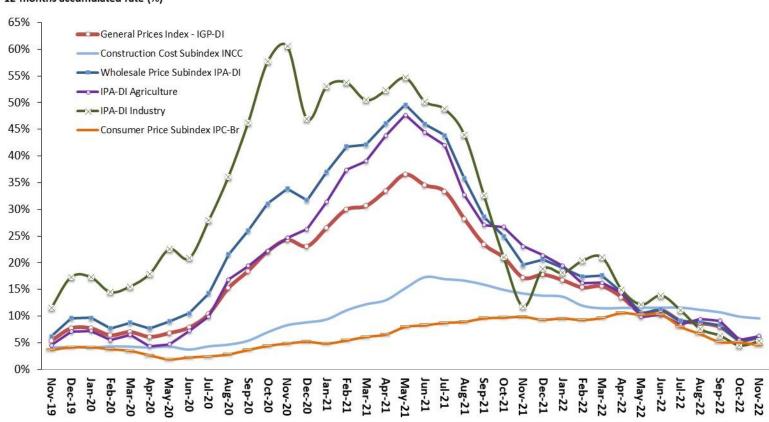




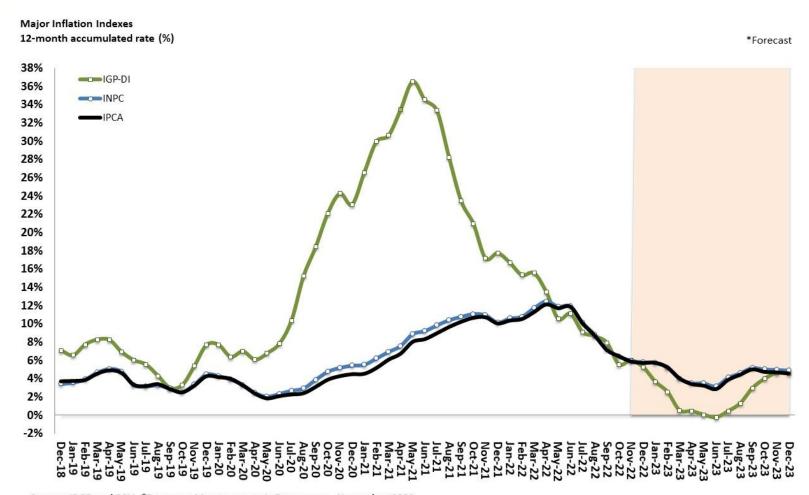




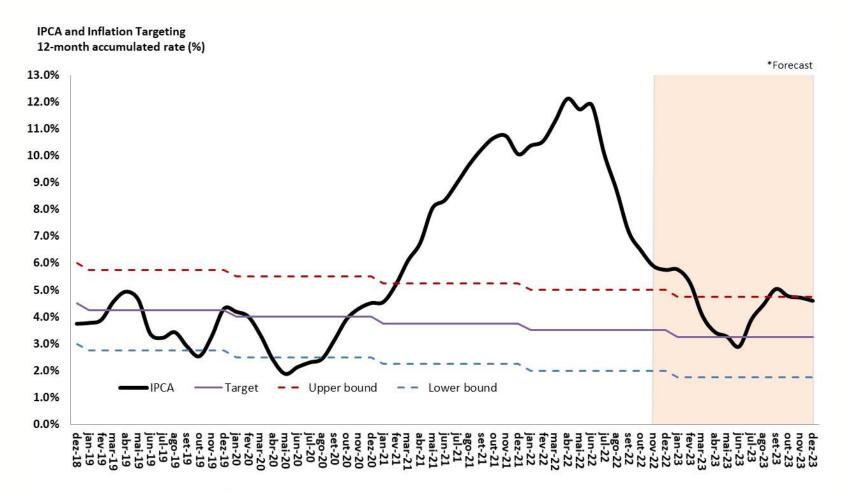




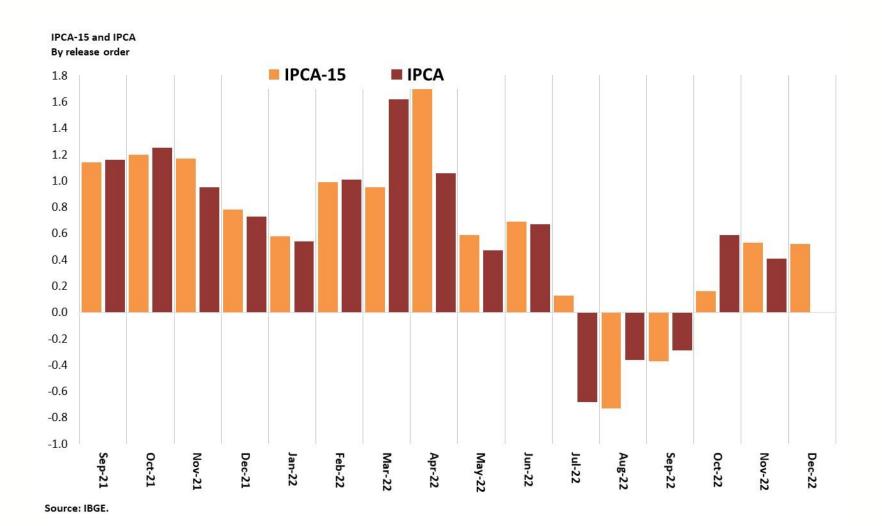
Source: IBGE.



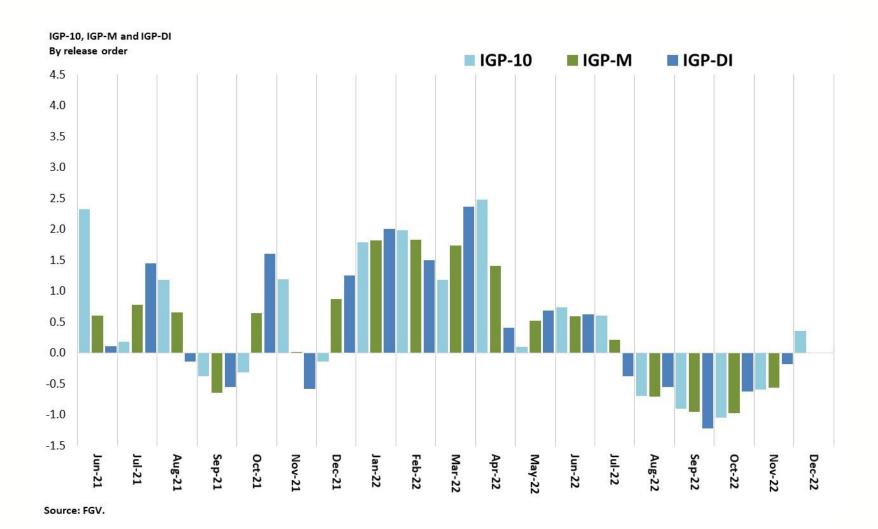
Source: IBGE and FGV. \*Forecast: Macroeconomic Parameters, November-2022.

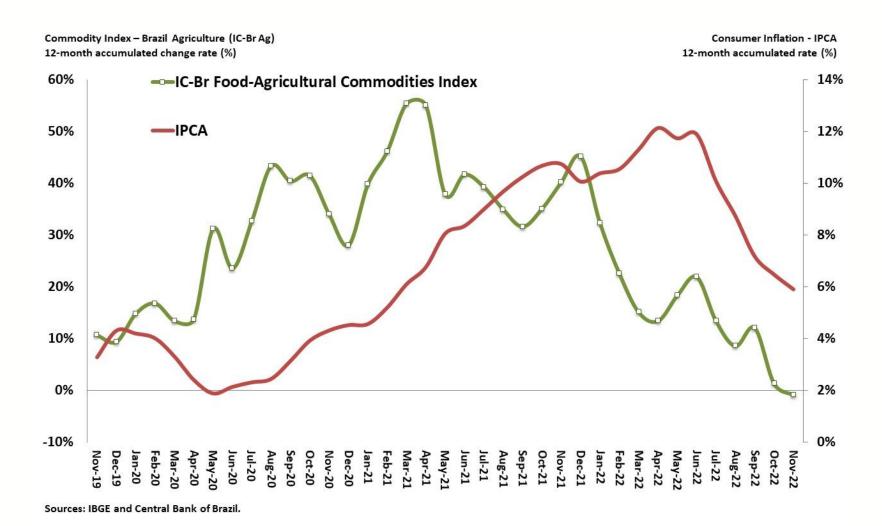


Source: IBGE and Central Bank of Brazil. \*Forecast: Macroeconomic Parameters, November-2022.

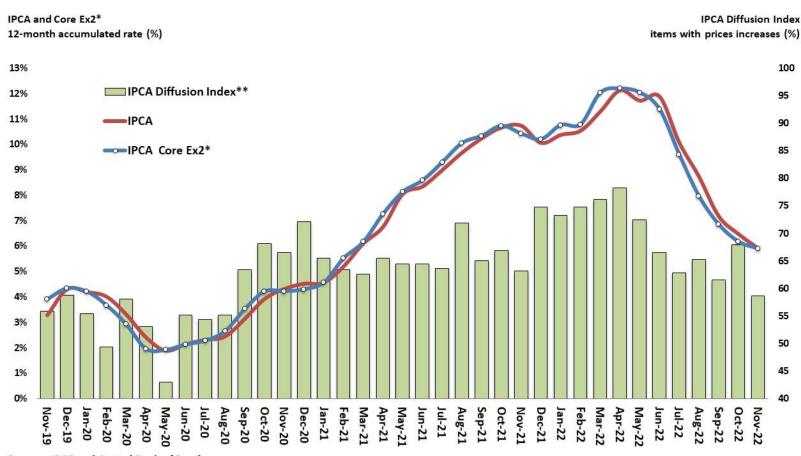








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Sources: IBGE and Central Bank of Brazil.

<sup>\*</sup> Ex2 = Exclusion from the main index of 12 items, 10 from residence dining and 2 from monitored prices. The excluded items represent, on average, 16% of IPCA main index.

<sup>\*\*</sup> Diffusion Index = % of items from IPCA with price increase.

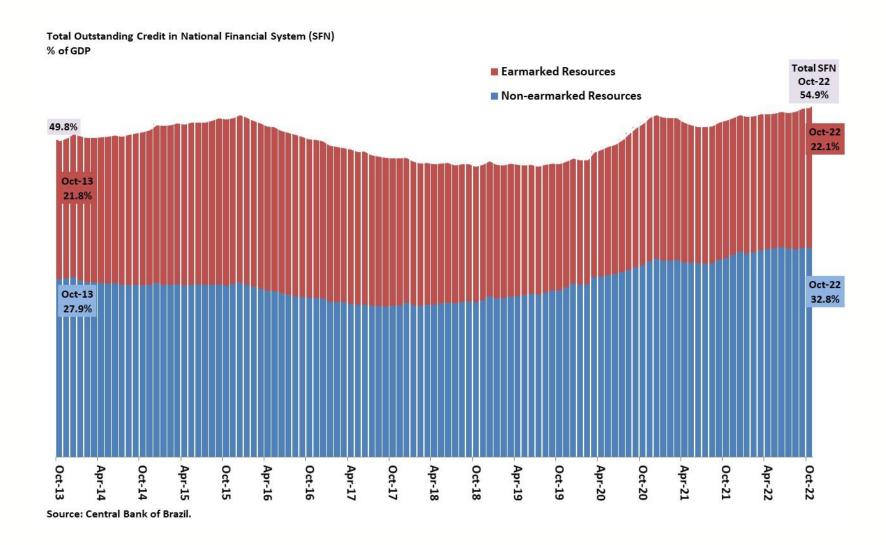
## Credit Market

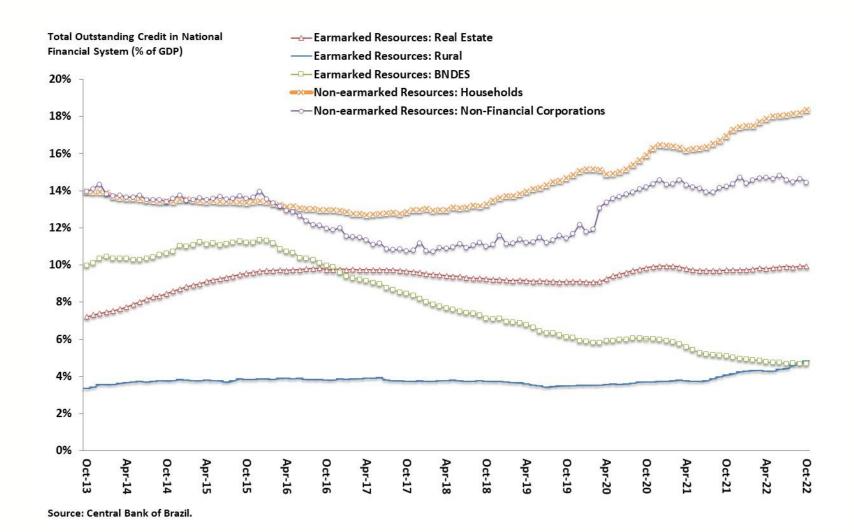
Credit Market (BCB)  End-of-Period Outstanding Credit (in R\$ billions)	October-22	Dec-20	Dec-21	Oct-22	% of Total Credit Dec/20	% of Total Credit Dec/21	% of Total Credit Oct/22	chg.% Dec/21- Dec/20	chg.% Oct/22- Dec/21	% of GDP Dec/20	% of GDP Dec/21	% of GDP Oct/22
Total Credit to the National Financial System (NFS)		4,016.9	4,673.5	5,214.8	100.0%	100.0%	100.0%	16.3%	11.6%	53.8%	53.8%	54.9%
by type of borrower												
Public Sector (incl. State-Owned Enterprises)		223.5	202.3	208.9	5.6%	4.3%	4.0%	-9.5%	3.3%	3.0%	2.3%	2.2%
Private Sector		3,793.4	4,470.0	5,005.9	94.4%	95.6%	96.0%	17.8%	12.0%	50.8%	51.5%	52.7%
Non-Financial Corporations		1,775.9	1,962.7	2,097.4	44.2%	42.0%	40.2%	10.5%	6.9%	23.8%	22.6%	22.1%
Households		2,241.1	2,710.8	3,117.5	55.8%	58.0%	59.8%	21.0%	15.0%	30.0%	31.2%	32.8%
by type of lender				,								
Public Financial Institutions		1,807.8	1,990.2	2,219.1	45.0%	42.6%	42.6%	10.1%	11.5%	24.2%	22.9%	23.4%
National Private Financial Institutions		1,558.3	1,971.7	2,232.8	38.8%	42.2%	42.8%	26.5%	13.2%	20.9%	22.7%	23.5%
Foreign Private Financial Institutions		650.8	710.8	762.9	16.2%	15.2%	14.6%	9.2%	7.3%	8.7%	8.2%	8.0%
by type of credit					1012/0	10.270						5.572
Earmarked Resources		1,697.7	1,882.2	2,095.5	42.3%	40.3%	40.2%	10.9%	11.3%	22.7%	21.7%	22.1%
Housing		277.5	366.8	458.3	6.9%	7.8%	8.8%	32.2%	25.0%	3.7%	4.2%	4.8%
Rural		741.5	843.7	943.8	18.5%	18.1%	18.1%	13.8%	11.9%	9.9%	9.7%	9.9%
BNDES Development Bank		445.7	431.3	444.5	11.1%	9.2%	8.5%	-3.2%	3.1%	6.0%	5.0%	4.7%
Others		233.0	240.4	248.8	5.8%	5.1%	4.8%	3.2%	3.5%	3.1%	2.8%	2.6%
Non-Financial Corporations		687.5	685.3	724.5	17.1%	14.7%	13.9%	-0.3%	5.7%	9.2%	7.9%	7.6%
Households		1,010.1	1,196.9	1,371.0	25.1%	25.6%	26.3%	18.5%	14.5%	13.5%	13.8%	14.4%
Non-earmarked Resources		2,319.2	2,791.3	3,119.4	57.7%	59.7%	59.8%	20.4%	11.8%	31.1%	32.2%	32.8%
Non-Financial Corporations		1,088.3	1,277.4	1,372.9	27.1%	27.3%	26.3%	17.4%	7.5%	14.6%	14.7%	14.4%
Households		1,230.9	1,513.9	1,746.5	30.6%	32.4%	33.5%	23.0%	15.4%	16.5%	17.4%	18.4%
Non-earmarked Resources (BCB)  NewLoans, Spread and Delinquency Rates	October-22	Dec-20	Dec-21	Oct-22	% of Total Credit Dec/20	% of Total Credit Dec/21	% of Total Credit Oct/22	chg.% Dec/21- Dec/20	chg.% Oct/22- Dec/21	% of GDP Dec/20	% of GDP Dec/21	% of GDP Oct/22
		0.000.4	4.000.0	5 101 1			400.00/			40.00/	E0.00/	54.00/
New Loans (12-months accum. in R\$ billions)		3,606.4	4,369.0	5,184.4	100.0%	100.0%	100.0%	21.1%	18.7%	48.3%	50.3%	54.6%
Non-Financial Corporations		1,748.7	2,086.3	2,479.1	48.5%	47.8% 52.2%	47.8%	19.3%	18.8% 18.5%	23.4% 24.9%	24.0%	26.1%
Households		1,857.7 <b>20.8</b>	2,282.6 <b>23.6</b>	2,705.4 <b>30.4</b>	51.5%	52.2%	52.2%	22.9%	6.7 pp	24.9%	26.3%	28.5%
Spread (in pp per year)  Non-Financial Corporations		<b>20.8</b> 7.7	9.7	30.4 11.7				<b>2.9 pp</b> 2.0 pp	<b>6.7 pp</b> 2.0 pp			
Households		7.7 31.7	34.7	44.4				3.0 pp	9.6 pp			
Delinquency (% non-performing loans by 90 days or more)		2.9	3.1	44.4				0.2 pp	9.0 pp			
Non-Financial Corporations		1.5	1.5	2.0				0.2 pp 0.1 pp	0.5 pp			
Households		4.2	4.4	5.9				0.1 pp 0.2 pp	1.5 pp			
		1.4	1	0.0	I.			0. <u>~</u> PP	1.0 PP			



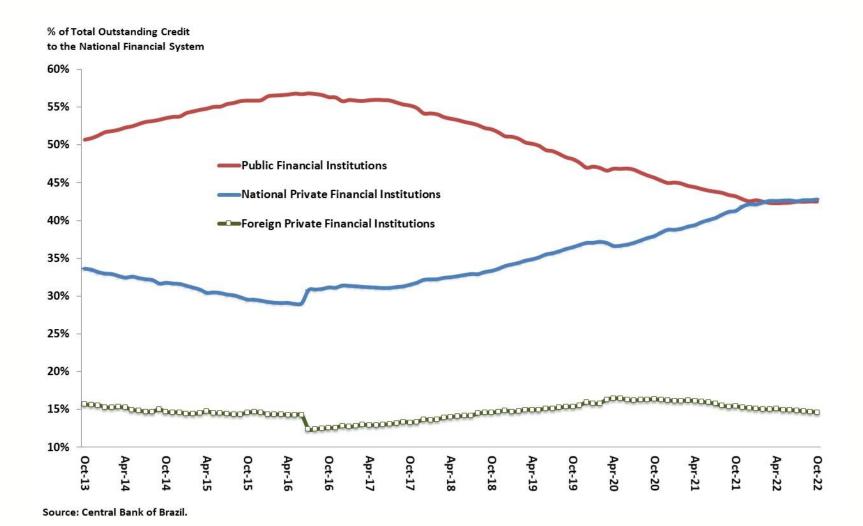
Macroeconomic Parameters										
	Credit Market									
Year	Total Credit									
i cai	Annual Ave	rage								
	BRL million	Annual chg. %								
2016	3,144,353	0.84								
2017	3,079,705	-2.06								
2018	3,145,561	2.14								
2019	3,324,502	5.69								
2020	3,699,682	11.29								
2021	4,288,795	15.92								
2022	4,994,953	16.47								
2023	5,601,999	12.15								
2024	6,171,685	10.17								
2025	6,762,925	9.58								
2026	7,391,519	9.29								

Source: SPE/ME. Macroeconomic Parameters, December-2022.

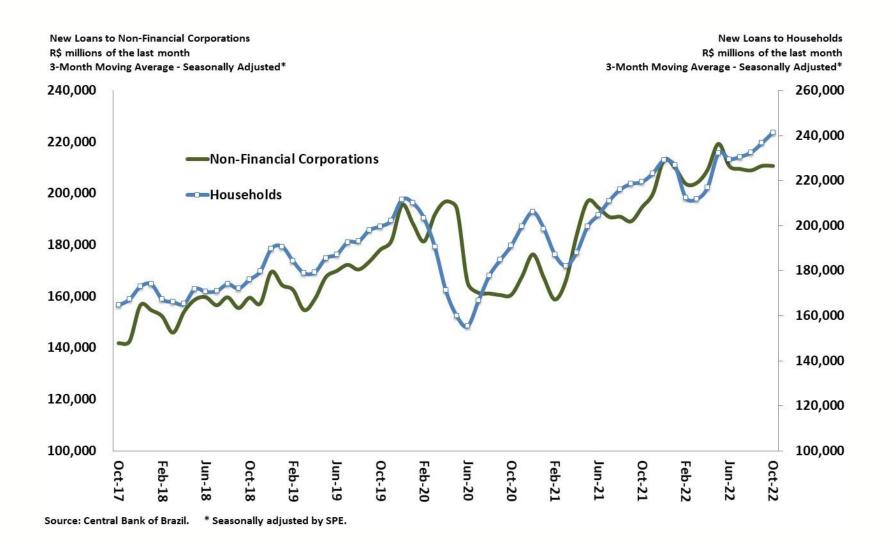


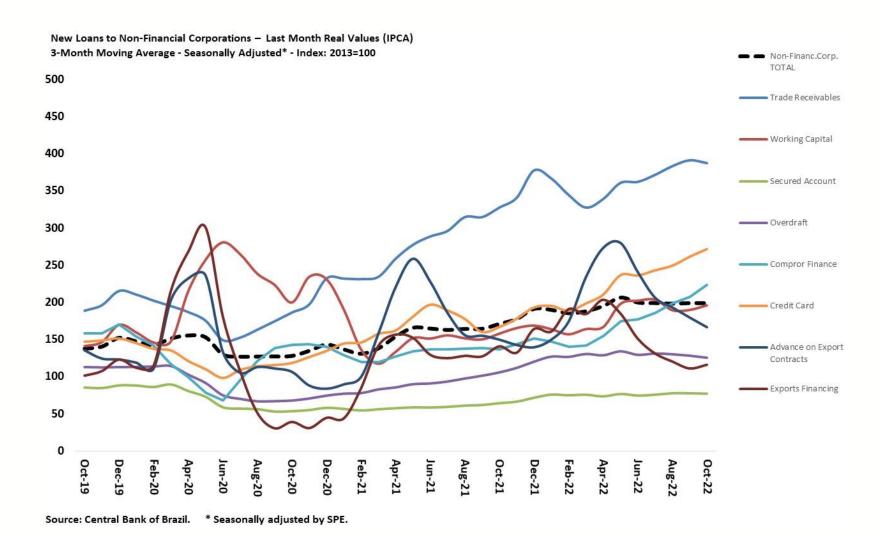






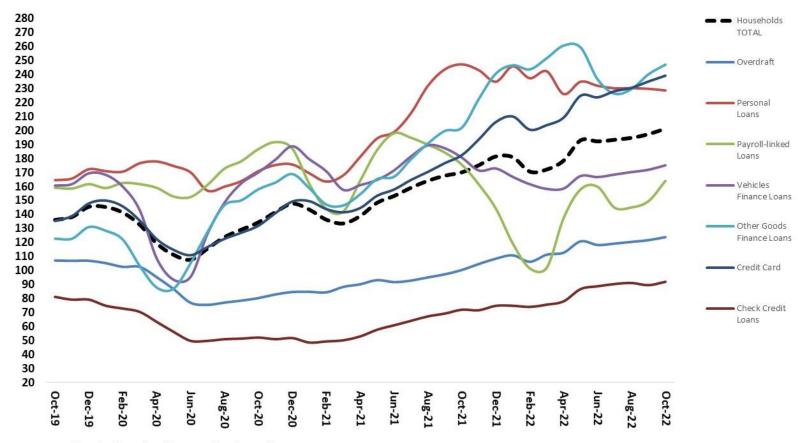




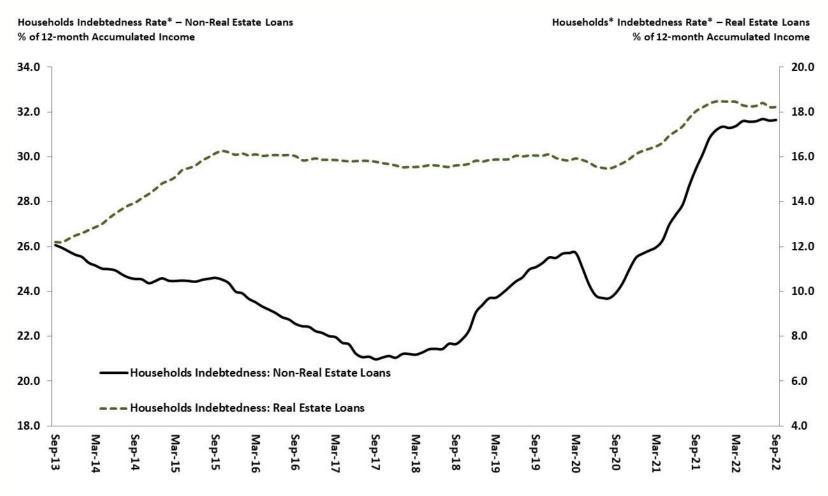




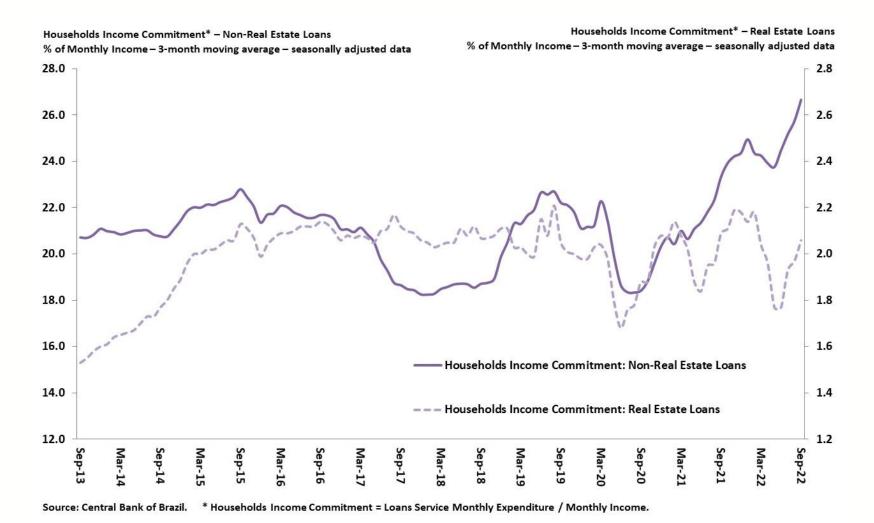
New Loans to Households – Real Last Month Values (IPCA)
3-Months Moving Average - Seasonally Adjusted\* - Index: 2013=100



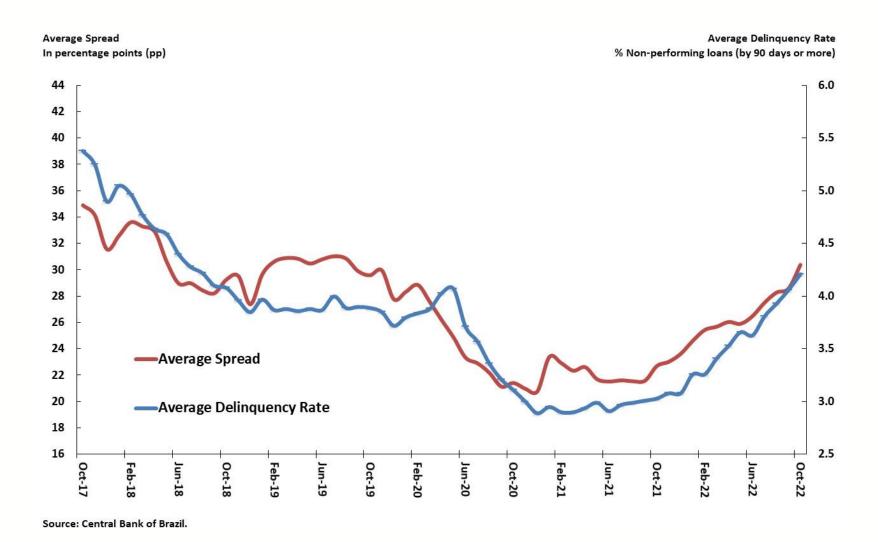
Source: Central Bank of Brazil. \* Seasonally adjusted by SPE.

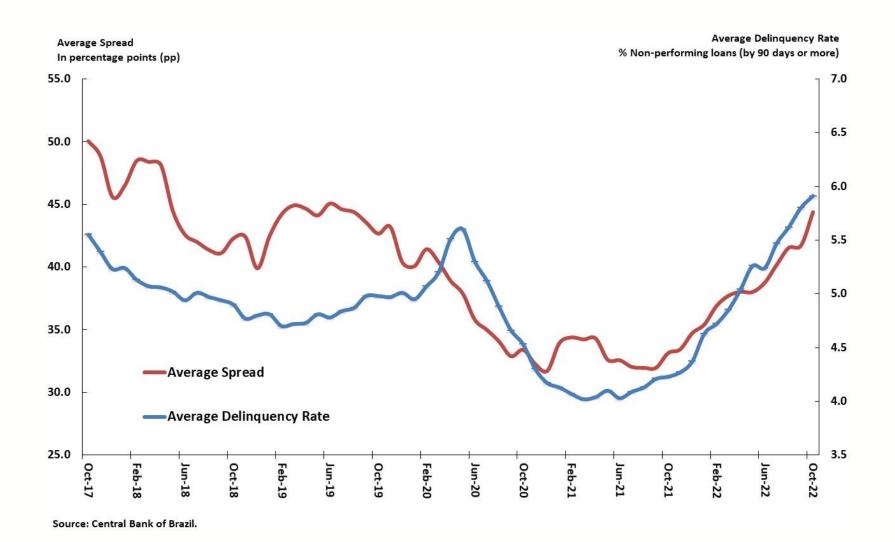


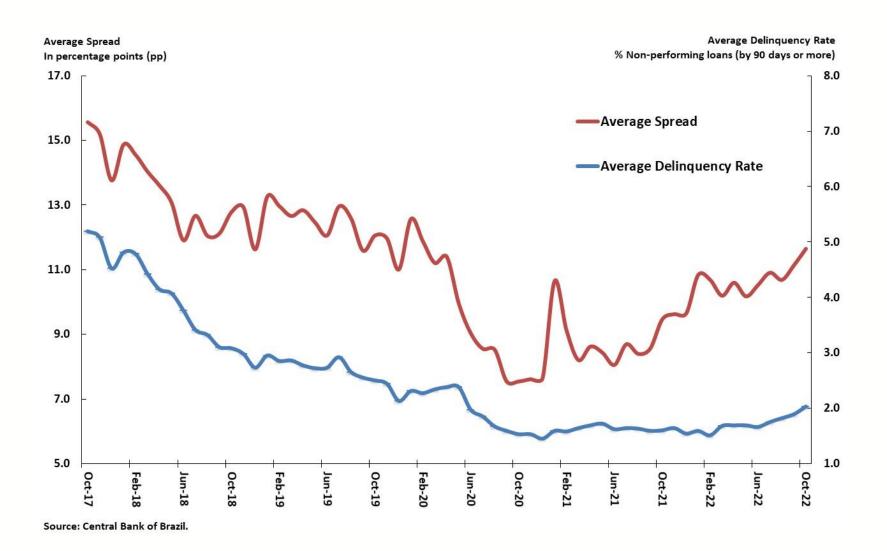
Source: Central Bank of Brazil. \* Indebtedness rate = total outstanding debt / 12-months accumulated income.









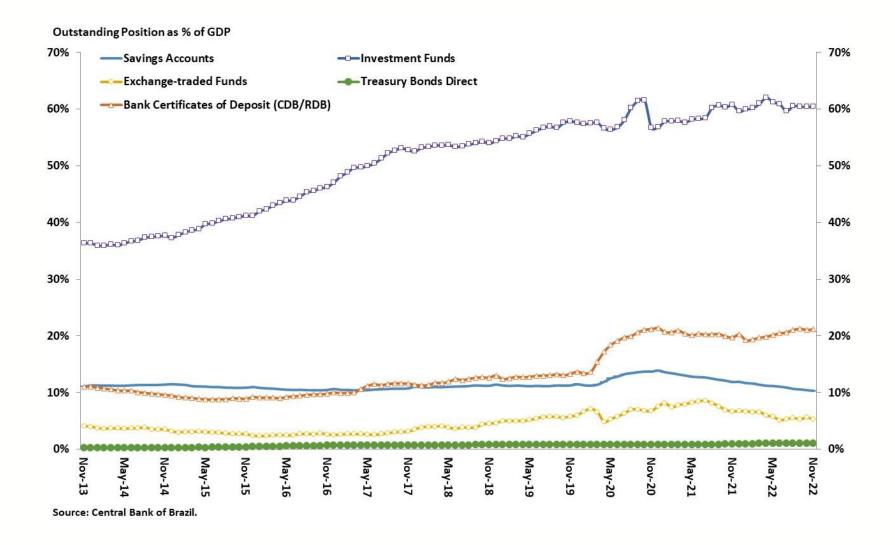


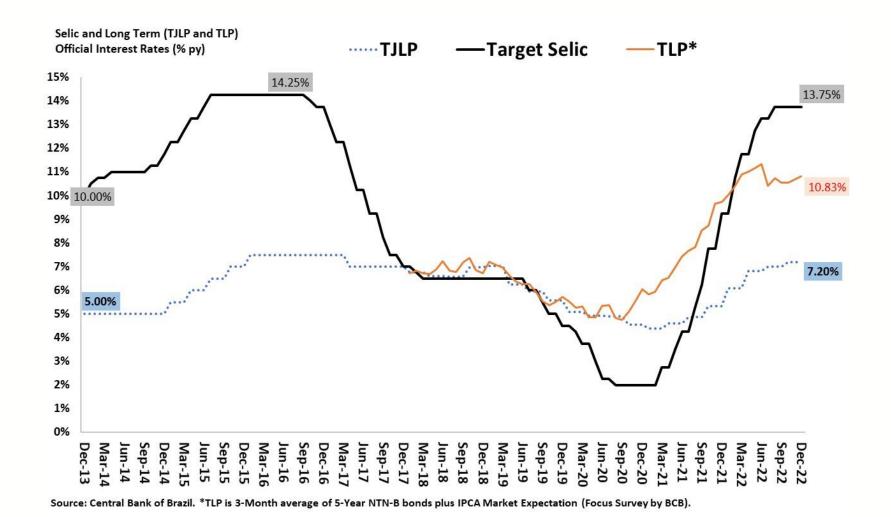
## Financial Markets

									BCB/Focus:	12/16/22	
Financial Savings (BCB) November	22 Dec-20	Dec-21	Nov-21	Nov-22	chg. % Dec/17 /	chg. % Dec/18 /	chg. % Nov/22-	chg. % Nov/22-			
Outstanding Positions - R\$ billions					Dec/16	Dec/17	Dec/18	Nov/21			
Bank Certificates of Deposit (CDB/RDB) Savings Accounts (Caderneta de Poupança) Investment Funds Exchange-traded Funds Treasury Bonds Direct (Tesouro Direto)	1,598.0 1,035.6 4,245.9 565.3 62.7	1,758.4 1,030.6 5,179.3 584.7 79.2	1,697.3 1,018.6 5,226.8 572.8 76.6	2,016.1 976.9 5,743.7 499.3 101.2	58.1% 22.5% -0.3% 28.0% 5.1%	10.0% -0.5% 22.0% 3.4% 26.3%	14.7% -5.2% 10.9% -14.6% 27.8%	18.8% -4.1% 9.9% -12.8% 32.2%			
BM&F-Bovespa - listed companies value as % of GDP	68.8%	52.2%	68.8%	52.2%	0.53 pp	0.46 pp	4.23 pp	-16.56 pp			
Capital Market (CVM)  New Public Offering - R\$ billions	22 Dec-20	Dec-21	Nov-21	Nov-22	chg. % Dec/17 / Dec/16	chg. % Dec/18 / Dec/17	chg. % Nov/22- Dec/18	chg. % Nov/22- Nov/21			
Stocks Debentures Housing Credit-backed Securities (CRI) Investment Funds - new shares	26.1 3.3 3.5 24.6	36.0 10.1 15.8 24.4	36.0 8.9 12.1 22.2	30.8 14.0 22.5 19.3	517.8% -77.7% -83.8% 162.1%	37.6% 209.7% 355.0% -1.2%	-100.0% -2.5% -60.7% 14.6%	- -2.5% 43.6% 159.3%			
Monet Market (BCB) November-	22 Dec-20	Dec-21	Nov-21	Nov-22	chg. % Dec/17 / Dec/16	chg. % Dec/18 / Dec/17	chg. % Nov/22- Dec/18	chg. % Nov/22- Nov/21			
Interest Rates Selic market rate (% py) CDI (% py) Swap DI-Pre 180 days (% py) Swap DI-Pre 360 days (% py)	1.90 1.90 2.10 2.83	<b>8.76</b> 8.76 11.20 11.79	<b>8.76</b> 8.76 10.81 11.75	<b>13.65</b> 13.65 13.87 13.94	-2.7 pp -2.7 pp -2.2 pp -1.7 pp	<b>6.9 pp</b> 6.9 pp 9.1 pp 9.0 pp	<b>4.9 pp</b> 4.9 pp 2.7 pp 2.2 pp	<b>4.9 pp</b> 4.9 pp 3.1 pp 2.2 pp			
Monet Market (BCB) December-	22 Dec-20	Dec-21	Dec-21	Dec-22	chg. % Dec/17 / Dec/16	chg. % Dec/18 / Dec/17	chg. % Dec/22- Dec/18	chg. % Dec/22- Dec/21	2022	2023	2024
Selic target rate (% py)	2.00	9.25	9.25	13.75	-2.5 pp	7.25 pp	4.5 pp	4.5 pp	0.00%	11.75%	9.00%
TJLP (% py)	4.55	5.32	5.32	7.20	-1.0 pp	0.8 pp	1.88 pp	1.88 pp			
Brazil Sovereign Risk (BCB)  Monthly Average (in basis points)	22 Dec-20	Dec-21	Nov-21	Nov-22	chg. pp Dec/17 / Dec/16	chg. pp Dec/18 / Dec/17	chg. % Nov/22- Dec/18	chg. % Nov/22- Nov/21			
EMBI+ (JPMorgan)	260	326	366	270	46 pp	66 pp	-56 pp	-96 pp			
5 years CDS	143	205	257	247	43 pp	62 pp	42 pp	-10 pp			
10 years CDS	215	292	345	339	35 pp	77 pp	47 pp	-7 pp			

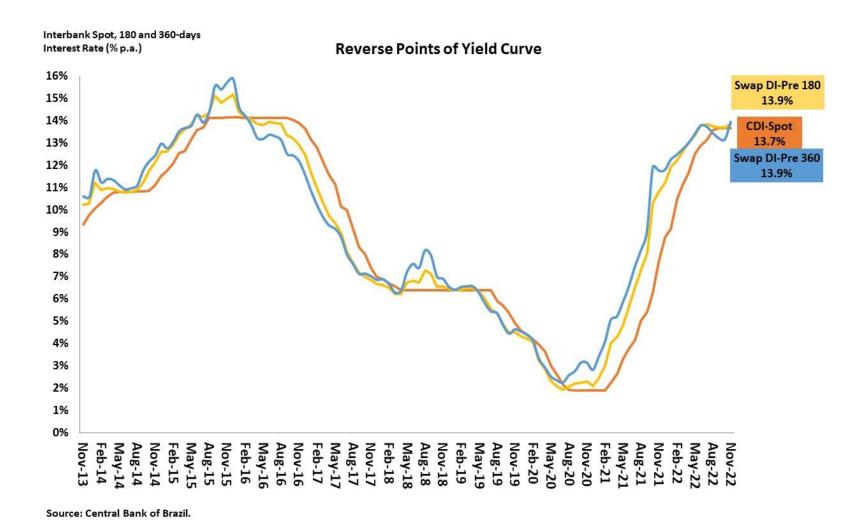
	Macroeconomic Parameters										
	Financial Indicators										
Year	Selic	market rate	2	Long term ra	ate TJLP	Referential rate TR	Financial Savings				
Teal	Annual Average	December	Real chg.	Annual Average	December	Annual Average	Annual Average				
				Annual chg. %			BRL million	Annual chg. %			
2016	14.08	13.65	7.33	7.50	7.50	2.01	4,566,852	13.89			
2017	9.87	7.00	6.72	7.12	7.00	0.60	4,992,423	9.32			
2018	6.48	6.40	2.64	6.72	6.98	0.00	5,346,678	7.10			
2019	5.90	4.59	1.53	6.18	5.57	0.00	5,744,064	7.43			
2020	2.64	1.90	-1.80	4.87	4.55	0.00	6,367,887	10.86			
2021	3.91	8.76	-5.59	4.79	5.32	0.05	7,334,662	15.18			
2022	12.34	13.65	6.23	6.76	7.20	1.63	8,555,787	16.65			
2023	13.09	11.65	8.11	7.33	7.17	1.97	9,624,282	12.49			
2024	9.65	8.40	6.46	6.87	6.64	0.64	10,513,554	9.24			
2025	8.13	7.90	4.98	6.32	6.20	0.06	11,376,399	8.21			
2026	7.90	7.90	4.76	5.93	5.80	0.02	12,238,531	7.58			

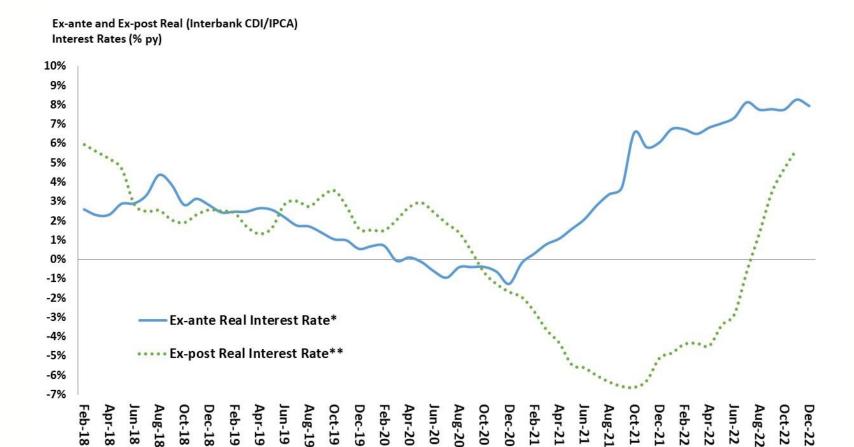
Source: SPE/ME. Macroeconomic Parameters, December-2022.







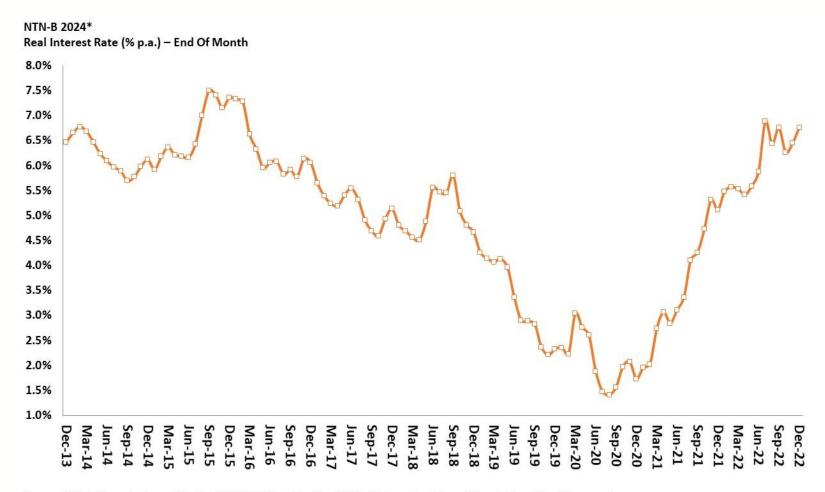




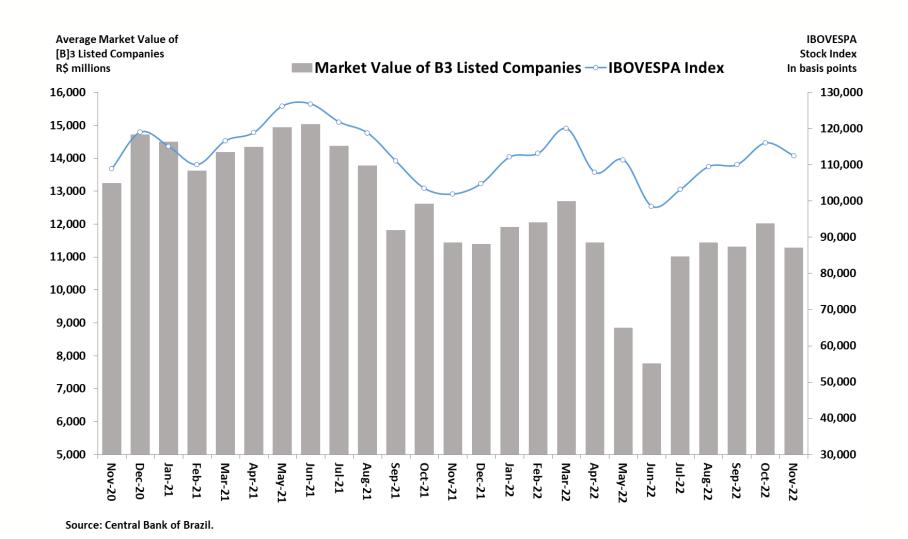
Source: Central Bank of Brazil. Data valid up to the date of the report.

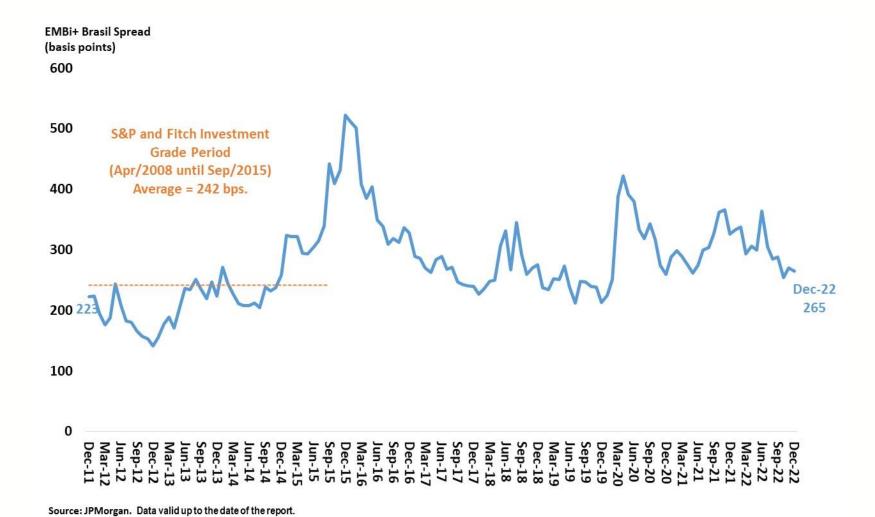
<sup>\*</sup> Ex-ante Real Interest Rate = Expected Interbank CDI/IPCA ratio, considering 360-days Swap DI-Pre rate and IPCA median of BCB-Focus Survey.

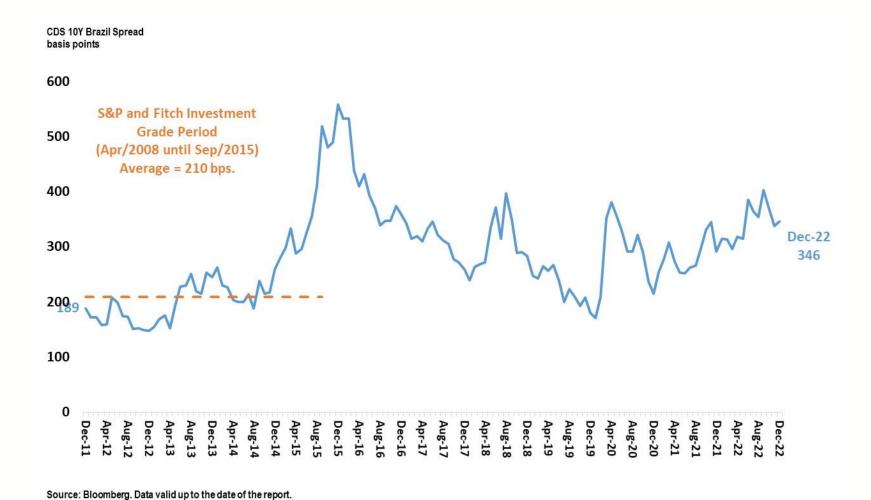
<sup>\*\*</sup> Ex-post Real Interest Rate = Observed 12-months accumulated CDI/IPCA ratio.



Source: STN. \* Interest rate paid by the NTN-B 2024 besides the IPCA inflation rate. Data valid up to the date of the report.







## Foreign Trade

## Foreign Trade

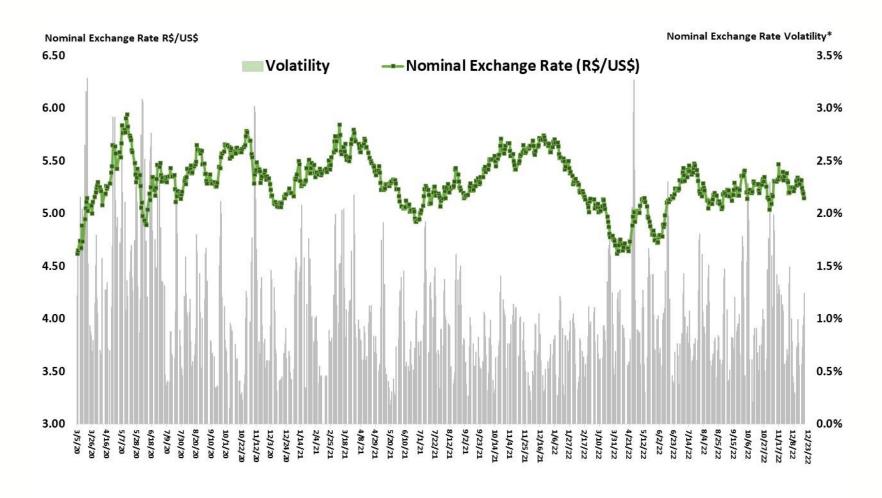
											BCB/Focus:	12/16/22	
Exchange Rate Indicators (BCB)  FX % change rate: appreciation (-) or depreciation (+) of the Real	November-22	2020	2021	chg.% Sep/22- Sep/21	chg.% Oct/22- Oct/21	chg.% Nov/22- Nov/21	YTD 2022	Sep/22 accum. in 12-months	Oct/22 accum. in 12-months	Nov/22 accum. in 12-months	Average FX Rate 2021	Average FX Rate 2022	Average FX Rate 2023
Nominal Exchange Rate (R\$/US\$) - sale - end of period; month value:	5.2941	32.9%	3.1%	-0.6%	-6.8%	-5.8%	-4.8%	-2.5%	-2.9%	-3.8%	5.25	5.26	5.25
Exchange Rate Indicators (BCB)	November-22			chg.%	chg.%	chg.%		Sep/22	Oct/22	Nov/22			
FX % change rate: appreciation (-) or depreciation (+) of the Real		2020	2021	Sep/22- Sep/21	Oct/22- Oct/21	Nov/22- Nov/21	YTD 2022	accum. in 12-months	accum. in 12-months	accum. in 12-months			
Real Effective Exchange Rate (IPCA)		27.9%	3.2%	-9.1%	-8.2%	-12.7%	-11.0%	-8.4%	-8.6%	-9.2%			
Exchange Rate / Wage Ratio adjusted by Labor Productivity		12.6%	-22.3%	-3.6%	-5.8%	-0.8%	-6.0%	-9.7%	-8.1%	-6.2%			
Unitary Labor Cost in US\$		-20.2%	-0.8%	11.8%	13.3%	18.2%	18.6%	17.7%	17.3%	17.2%			
		20.270	0.070				10.070						
Foreign Trade of Goods (FUNCEX)	October-22	2020	2021	chg.% Aug/22-	chg.% Sep/22-	chg.% Oct/22-	YTD 2022	Aug/22 accum. in	Sep/22 accum. in	Oct/22 accum. in			
Average Price and Quantum		2020	2021	Aug/22- Aug/21	Sep/22-	Oct/21	110 2022	12-months					
Avoidgo i noo ana Quantam					оор	00.12.							
Evmente (V)	1	1.4%	3.6%	UANTUM 6.4%	10.1%	14.4%	3.9%	1.6%	2.3%	3.5%		T 1	
Exports (X) Basic Goods		1.4% 5.8%	-0.3%	0.3%	9.6%	14.4% 17.1%	<b>3.9%</b> 0.1%	-2.9%	-1.8%	-0.4%			
Semi-Manufactured		5.6% 10.0%	2.0%	6.3%	9.6% 16.4%	30.1%	7.0%	-2.9% 2.4%	3.5%	7.5%			
Manufactured		-9.1%	12.8%	19.3%	8.0%	3.6%	10.1%	10.3%	10.1%	9.3%			
Imports (M)		-7.9%	22.1%	16.7%	10.1%	4.1%	3.0%	6.1%	5.1%	3.6%			
Intermediate Goods		-7.4%	26.6%	18.6%	2.8%	-3.0%	1.4%	6.7%	4.8%	2.5%			
Capital Goods		-4.4%	1.8%	34.0%	20.1%	37.7%	9.8%	2.0%	3.0%	4.8%			
Durable Consumer Goods		-30.1%	44.6%	29.4%	11.7%	15.3%	2.9%	9.8%	7.8%	7.5%			
Semi and Non-Durable Consumer Goods		-2.6%	5.1%	28.7%	12.9%	16.9%	4.5%	-0.8%	-0.6%	1.6%			
Fuel and Lubricants		-15.7%	34.6%	-15.5%	31.4%	-0.2%	-0.1%	9.5%	9.3%	5.4%			
Exports Profitability Index		6.9%	3.2%	-6.0%	-3.3%	-4.9%	-3.9%	-1.3%	-1.7%	-2.3%			
Quantum Ratio = average quantum X / average quantum M		12.5%	-17.5%	-6.0%	1.7%	9.9%	2.0%	-3.7%	-1.7%	0.9%			
				PRICE									
Exports (X)		-6.7%	29.5%	5.7%	6.2%	5.1%	14.2%	19.9%	17.7%	15.7%			
Basic Goods		-4.8%	38.0%	1.7%	4.3%	3.9%	12.4%	19.0%	16.3%	14.0%			
Semi-Manufactured		-6.4%	27.8%	4.6%	-0.2%	-2.8%	11.8%	20.4%	17.4%	14.4%			
Manufactured		-10.3%	14.4%	16.6%	13.1%	10.4%	19.7%	22.0%	21.3%	20.2%			
Imports (M)		-7.3%	13.2%	16.7%	13.2%	9.2%	25.6%	28.4%	27.5%	26.1%			
Intermediate Goods		-5.1%	15.1%	12.0%	10.5%	7.2%	23.2%	27.0%	25.8%	24.2%			
Capital Goods		-1.4%	-1.1%	0.6%	0.3%	3.8%	5.2%	5.4%	4.8%	5.0%			
Durable Consumer Goods		-6.8%	4.6%	1.3%	6.3%	4.9%	8.8%	9.5%	9.6%	9.3%			
Semi and Non-Durable Consumer Goods		-6.6%	0.8%	0.3%	9.3%	1.6%	9.1%	10.6%	10.8%	9.4%			
Fuel and Lubricants		-25.4%	39.1%	87.7%	50.2%	36.9%	86.5%	96.3%	92.8%	87.2%			
Terms of Trade = average price X / average price M		0.6%	14.7%	-9.4%	-6.2%	-3.8%	-9.1%	-6.4%	-7.5%	-8.2%			

	Macroeconomic Parameters									
		Impor	ts of Goods	Fuels						
Year	Brent Oil		Imports of Goods less Fuels		Gasoline		Diesel			
Tear	Average price	Chg. %	USD million	Ch~ 0/	Annual average sales					
	USD	Crig. 76	וווווווו עכט	Chg. %	Million cubic meters	Chg. %	Million cubic meters	Chg. %		
2016	44.05	-15.89	125182.54	-16.40	2.62	4.09	4.52	-5.13		
2017	54.39	23.49	139730.39	11.62	2.69	2.63	4.56	0.91		
2018	71.07	30.66	161647.66	15.69	2.33	-13.13	4.64	1.56		
2019	64.03	-9.91	163757.67	1.31	2.32	-0.49	4.77	3.00		
2020	42.30	-33.94	144852.28	-11.54	2.18	-6.13	4.79	0.30		
2021	70.44	66.53	193314.84	33.46	2.39	9.75	5.18	8.07		
2022	99.90	41.82	229644.44	18.79	2.60	8.57	5.24	1.25		
2023	81.83	-18.09	235192.67	2.42	2.69	3.50	5.37	2.48		
2024	78.80	-3.70	258001.49	9.70	2.81	4.57	5.55	3.37		
2025	75.95	-3.61	281173.00	8.98	2.93	4.40	5.73	3.26		
2026	73.81	-2.81	304360.13	8.25	3.05	4.10	5.90	2.91		

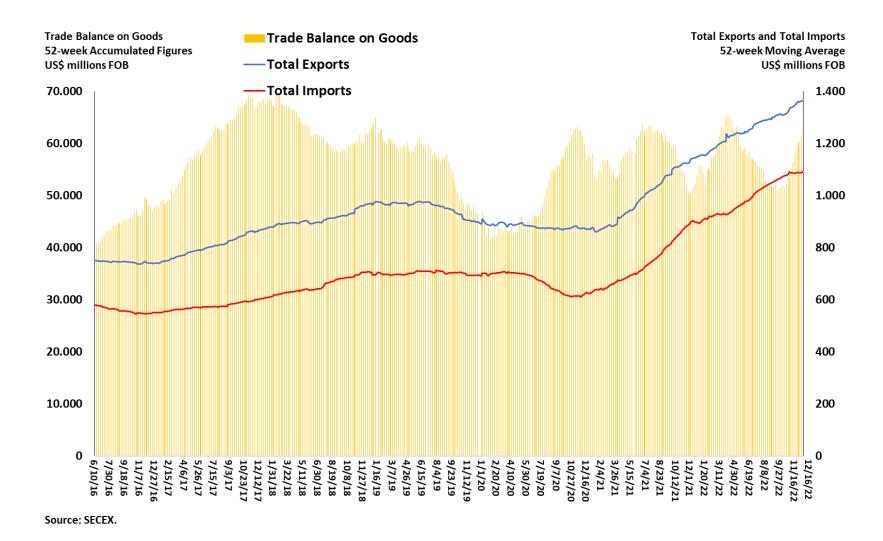
Source: SPE/ME. Macroeconomic Parameters, December-2022.

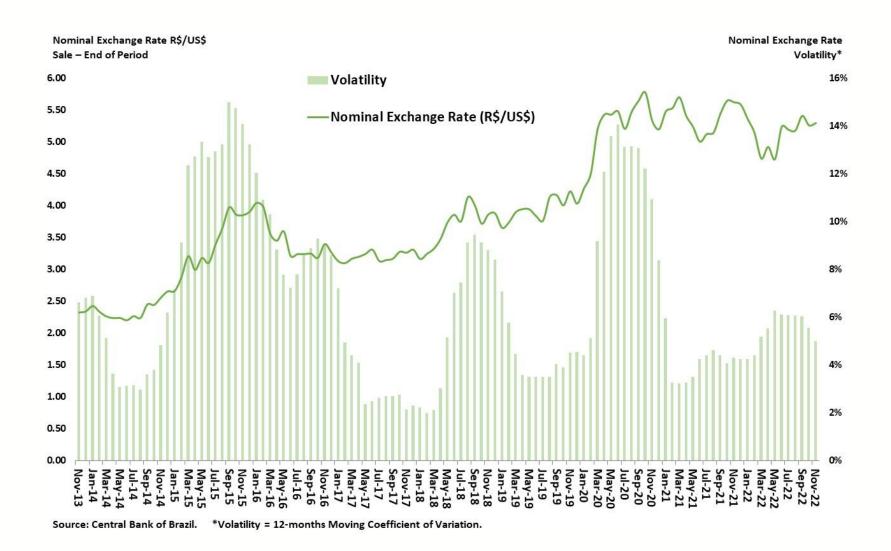
Macroeconomic Parameters										
	External Sector									
Year	Exchange Rate									
Teal	Annual Average	December	- Average chg. %	Annual chg. %						
	Exchange Rate BRL	/USD	Average chg. //	Annual City. 76						
2016	3.5	3.3	4.8	-13.4						
2017	3.2	3.3	-8.5	-1.8						
2018	3.7	3.9	14.5	18.0						
2019	3.95	4.03	7.95	5.78						
2020	5.16	5.20	30.69	25.21						
2021	5.40	5.58	4.64	9.83						
2022	5.17	5.25	-4.22	-6.71						
2023	5.25	5.25	1.57	-0.42						
2024	5.21	5.23	-0.78	-0.62						
2025	5.22	5.21	0.20	-0.13						
2026	5.26	5.30	0.72	1.64						

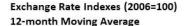
Source: SPE/ME. Macroeconomic Parameters, December-2022.

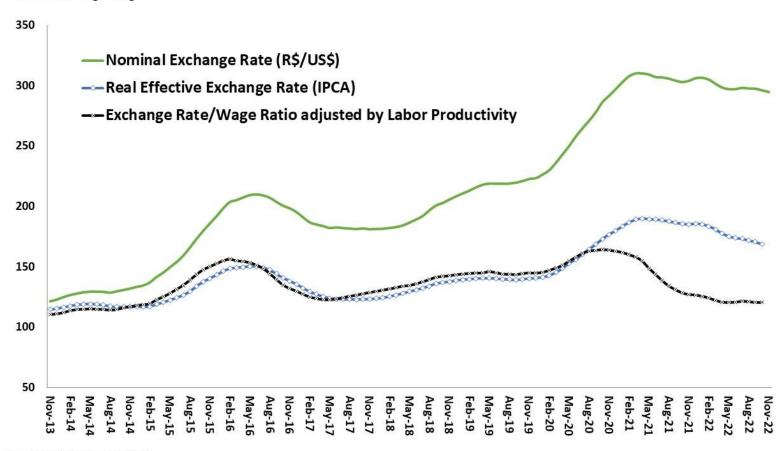


Source: Central Bank of Brazil. \*Volatility = 5-days Moving Coefficient of Variation.

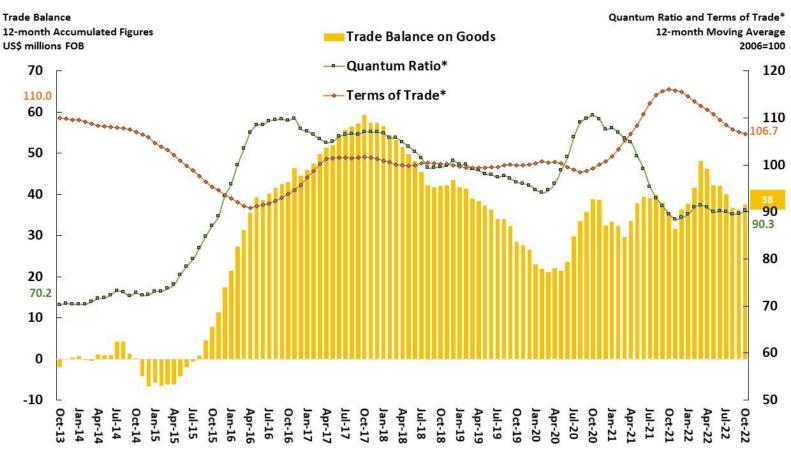








Source: Central Bank of Brazil.

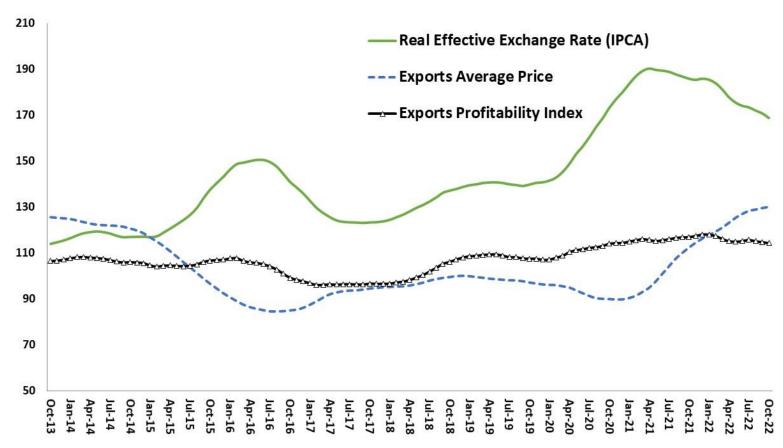


Sources: Central Bank of Brazil, SECEX and FUNCEX.

<sup>\*</sup> Quantum Ratio = (average quantum Exports / average quantum Imports)

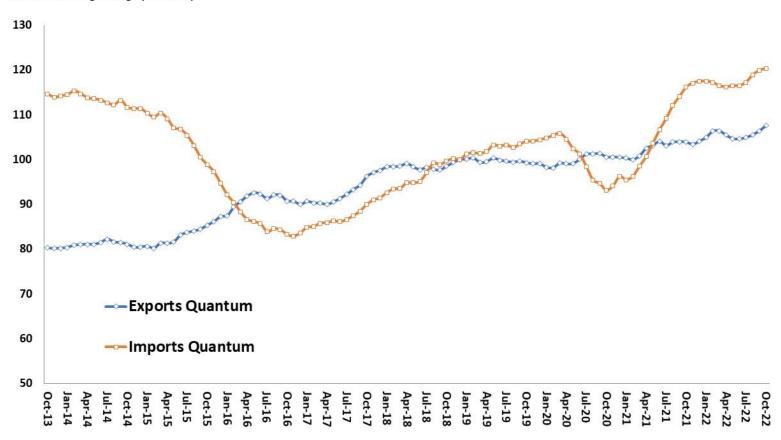
Terms of Trade = (average price Exports / average price Imports)

Real Effective Exchange Rate (IPCA), Exports Average Price and Exports Profitability Index 12-month Moving Average (2006=100)

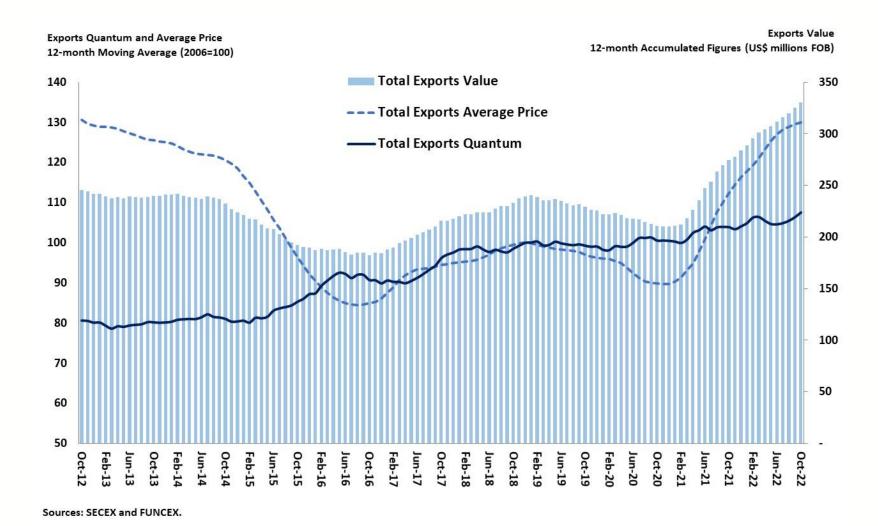


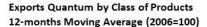
Sources: Central Bank of Brazil and FUNCEX.

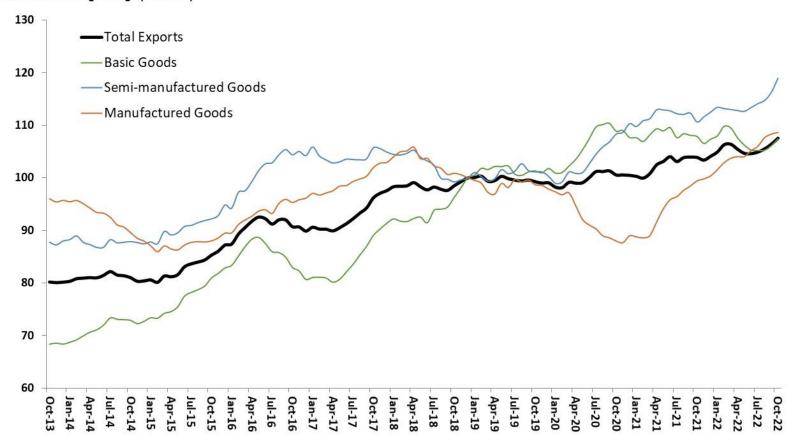




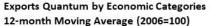
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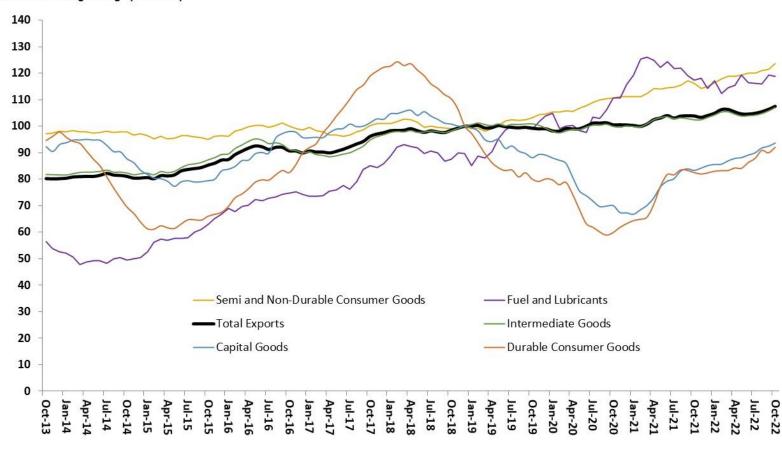




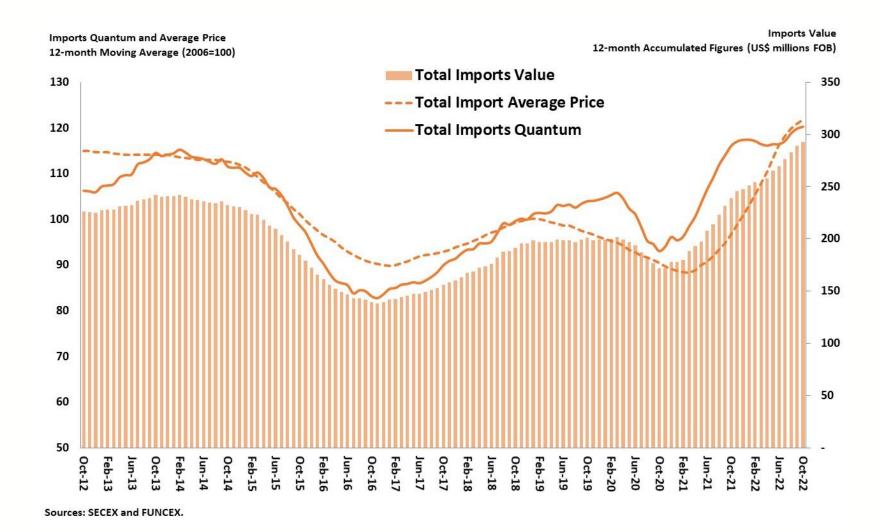


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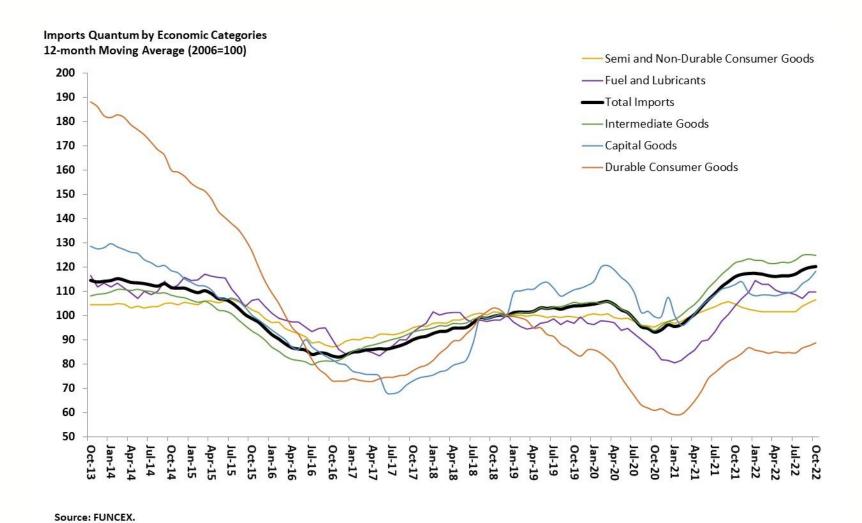


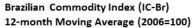


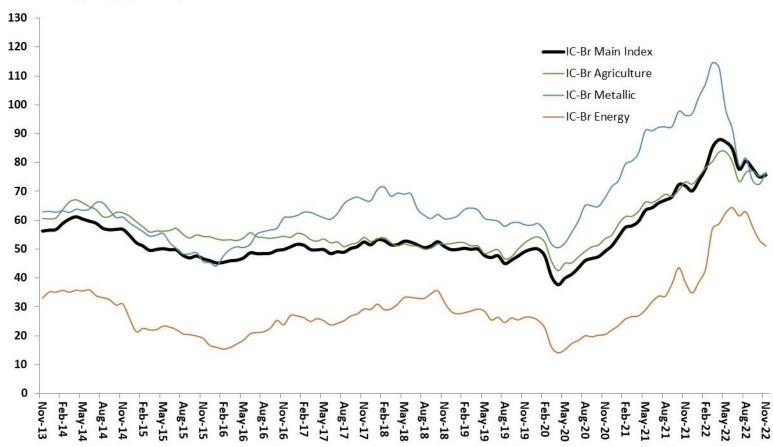
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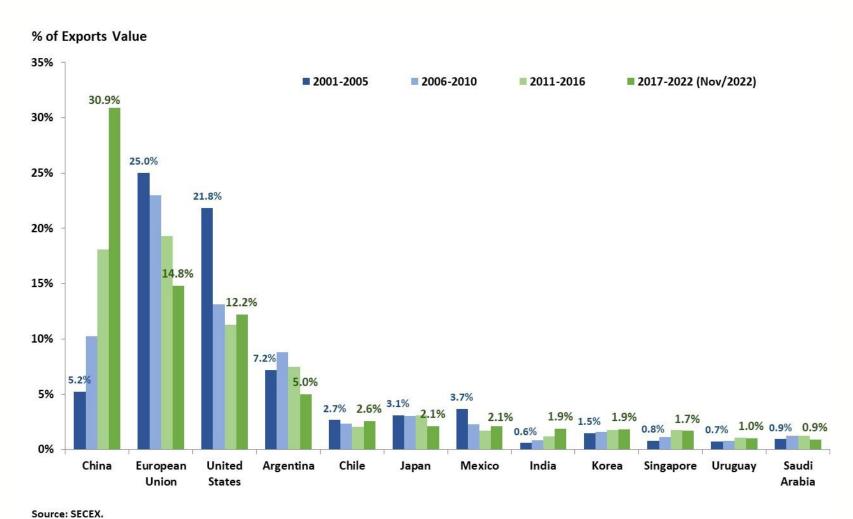






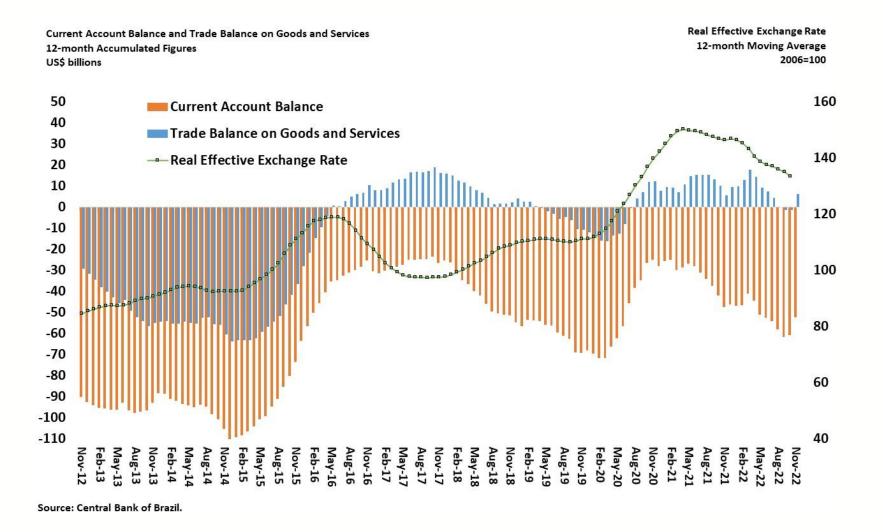


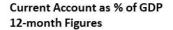
Source: Central Bank of Brazil.

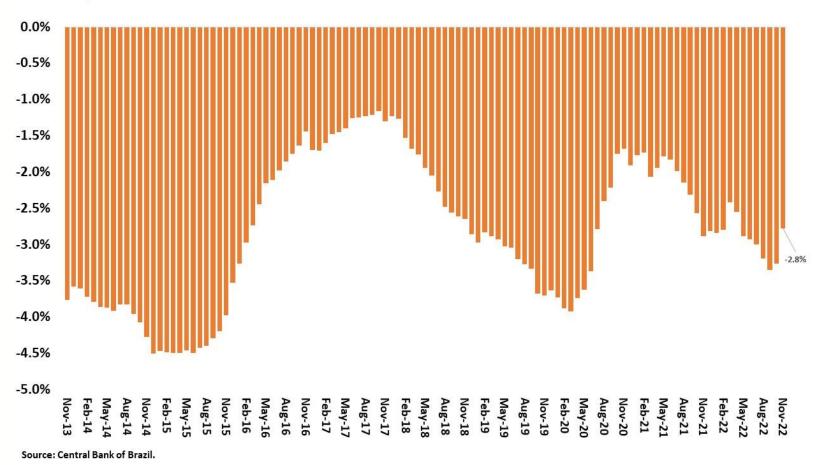


# **External Sector**

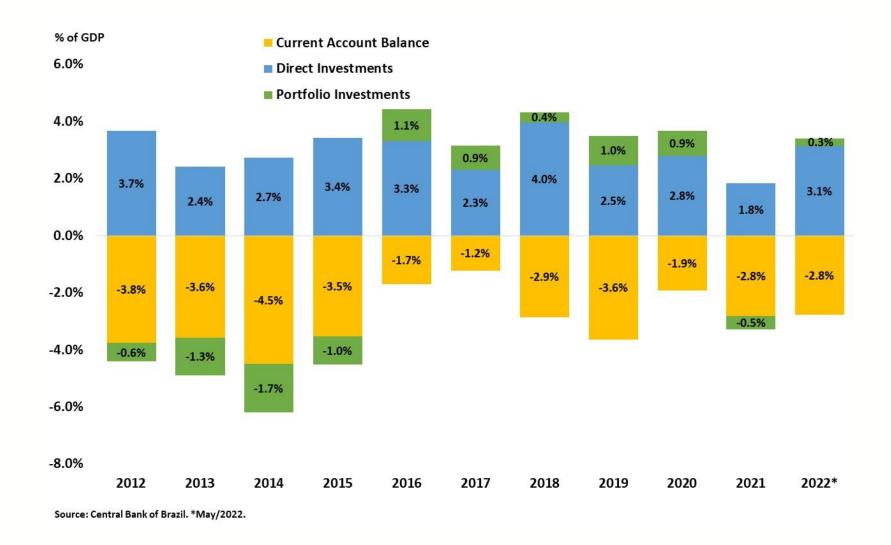
										BCB/Focus:	12/16/22	
Balance of Payments (BCB)  November-22  In US\$ millions	2020	2021	Nov/22 accum. in 12-months	chg.% 2021 / 2020	chg.% Nov/22 accum. 12-m / 2021	chg.% Oct/22 - Oct/21	chg.% Nov/22 - Nov/21	chg.% - Jan- Oct/22 - Jan-Oct/21	chg.% - Jan- Nov/22 - Jan-Nov/21	2022	2023	2024
Balance of Payments	7,806	-4,035	-1,989	-151.7%	-50.7%	-62.7%	-62.8%	-178.1%	-36.4%			
Current Account Balance (CAB)	-28,208	-46,358	-52,357	64.3%	12.9%	-15.9%	-99.3%	100.0%	15.5%	-46.2	-46.0	-45.0
CAB as % of GDP	-1.9%	-2.8%	-2.8%	-0.9 pp	0.0 pp	-0.7 pp	0.1 pp	0.0 pp	0.0 pp			
Balance on Goods	32,369	36,363	44,530	12.3%	22.5%	55.8%	-320.3%	-2.0%	24.3%	337.0	332.3	350.0
Exports	210,707	284,012	338,501	34.8%	19.2%	21.0%	39.3%	35.0%	21.0%	280.0	280.0	290.0
Imports	178,337	247,648	293,971	38.9%	18.7%	18.8%	3.0%	43.1%	20.5%	55.0	59.1	54.1
Balance on Services	-24,657	-26,957	-38,422	9.3%	42.5%	39.3%	-7.7%	6.2%	48.0%			
Primary Income	-38,264	-58,971	-62,313	54.1%	5.7%	-21.9%	-18.4%	54.3%	6.5%			
Secondary Income	2,344	3,207	3,848	36.83%	20.0%	8.5%	47.9%	38.6%	21.9%			
Capital Account	4,141	226	249	-94.6%	10.2%	-8.6%	-35.5%	-45.3%	11.0%			
Financial Account	-16,260	-50,168	-54,097	208.5%	7.8%	-30.5%	-105.6%	275.3%	8.9%			
Direct Investments	-41,254	-30,200	-59,154	-26.8%	95.9%	247.7%	131.1%	-33.3%	98.4%			
Foreign Direct Investments (FDI)	37,786	46,439	77,112	22.9%	66.0%	64.2%	65.7%	40.7%	59.4%	80.0	77.0	80.0
Portfolio Investments	12,882	-7,881	4,933	-161.2%	-162.6%	-12.4%	100.5%	-142.3%	-100.0%			
Stock Market	7,701	-901	-5,795	-111.7%	543.4%	260.2%	-1037.8%	-116.7%	261.7%			
Bonds	-3,822	-14,913	18,001	290.2%	-220.7%	-107.6%	-70.3%	-694.3%	-199.1%			
Others Investments and Capital Flows	12,111	-12,087	124	-199.8%	-101.0%	-111.4%	-352.5%	-150.8%	-227.9%			
International Reserves - liquidity concept	355,620	362,204	331,505	1.9%	-8.5%	-11.5%	-9.9%					
Gross External Debt (BCB) November-22	2020	2021	Nov-22	2020 % of total	Nov/22 % of total	chg. pp	2020 % of GDP	Nov/22 % of GDP	chg. pp			
In US\$ millions				% OI LOLAI	% OI total		% OI GDP	% OI GDP				
Total External Debt	619,416	670,286	676,312	100.0%	100.0%	-	37.1%	35.9%	-1.2 pp			
Gross External Debt	307,056	325,440	318,987	49.6%	47.2%	-2.4 pp	18.4%	16.9%	-1.5 pp			
Public Sector	82,349	98,455	92,989	26.8%	29.2%	2.3 pp	4.9%	4.9%	0.0 pp			
Private Sector and Public Financial Sector	224,707	226,985	225,998	73.2%	70.8%	-2.3 pp	13.5%	12.0%	-1.5 pp			
Short Term	71,517	78,753	67,742	23.3%	21.2%	-2.1 pp	4.3%	3.6%	-0.7 pp			
Medium and Long Term	235,539	246,687	251,245	76.7%	78.8%	2.1 pp	14.1%	13.3%	-0.8 pp			
Intercompany Loans	245,953	242,107	256,021	39.7%	37.9%	-1.9 pp	14.7%	13.6%	-1.1 pp			
Domestic Bonds with Foreign Investors	66,407	102,739	101,303	10.7%	15.0%	4.3 pp	4.0%	5.4%	1.4 pp			

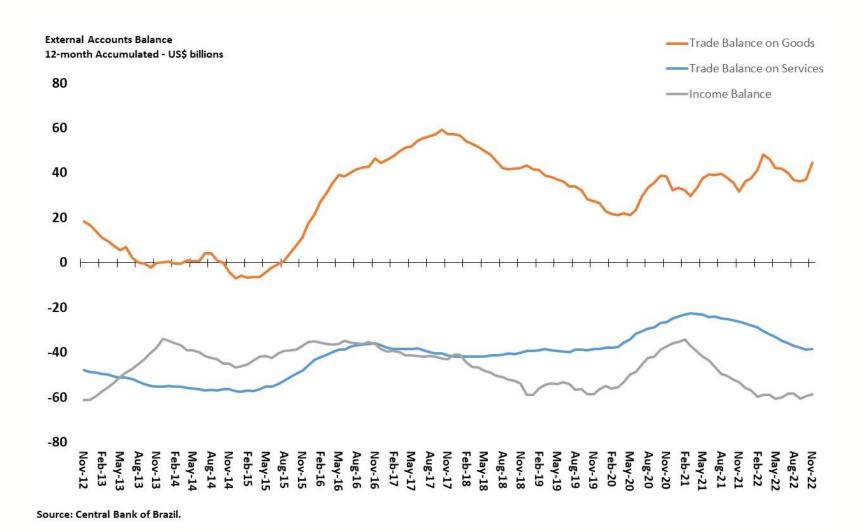


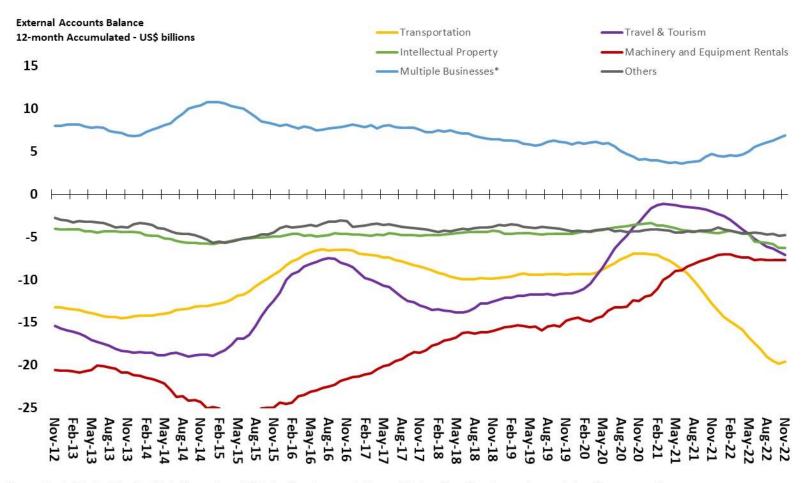




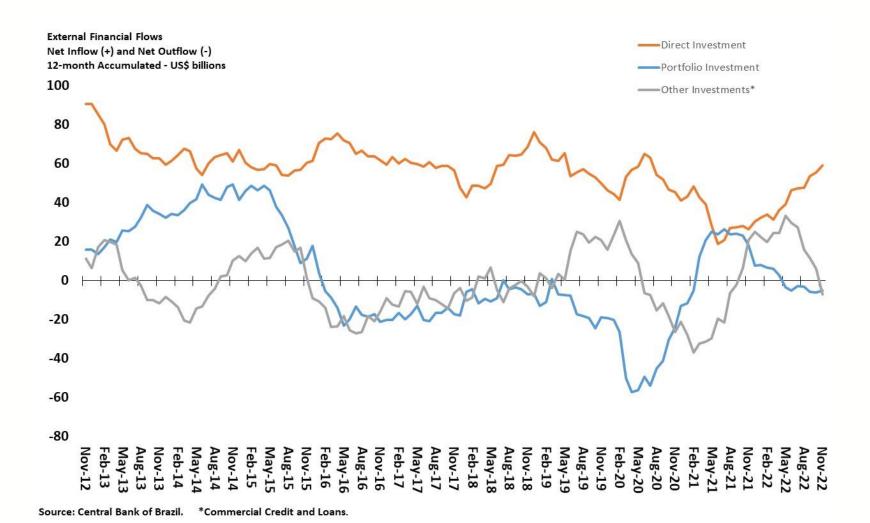
SPE Secretariat for Economic Policy

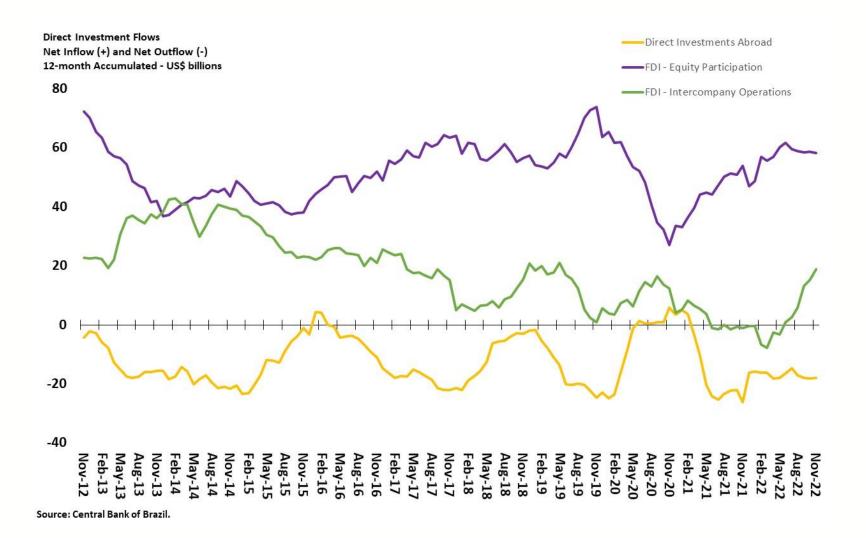


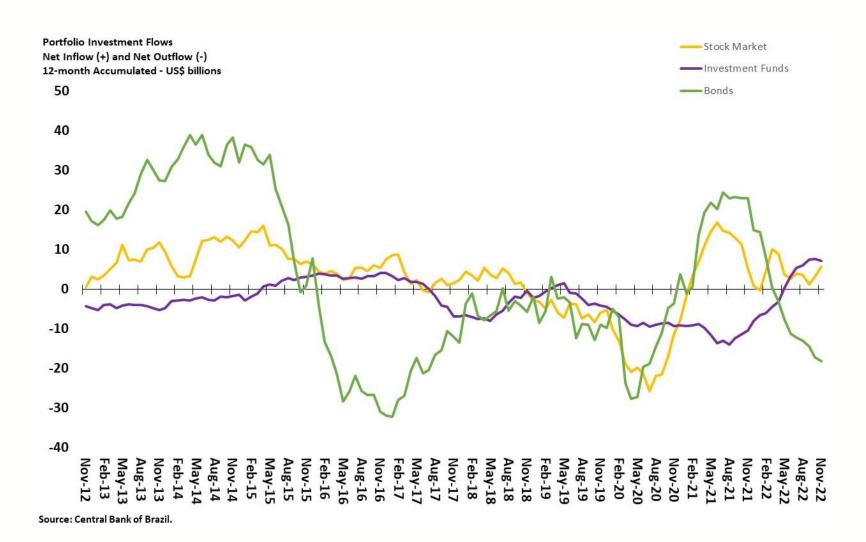


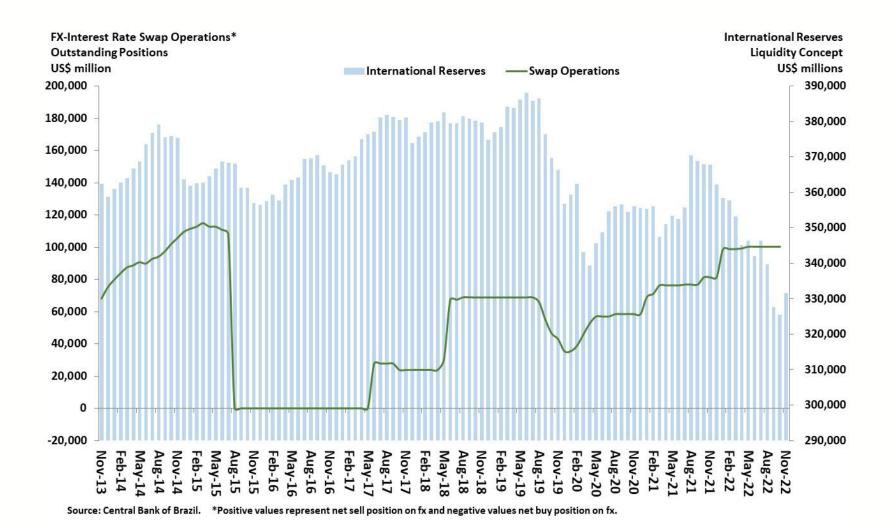


Source: Central Bank of Brazil. \*Includes services of P&D, legal services, marketing, architecture & engineering, environmental services, among others.





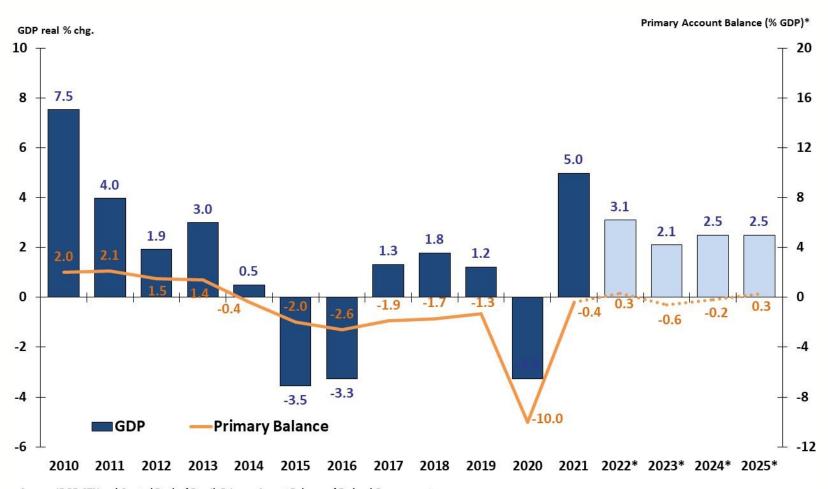






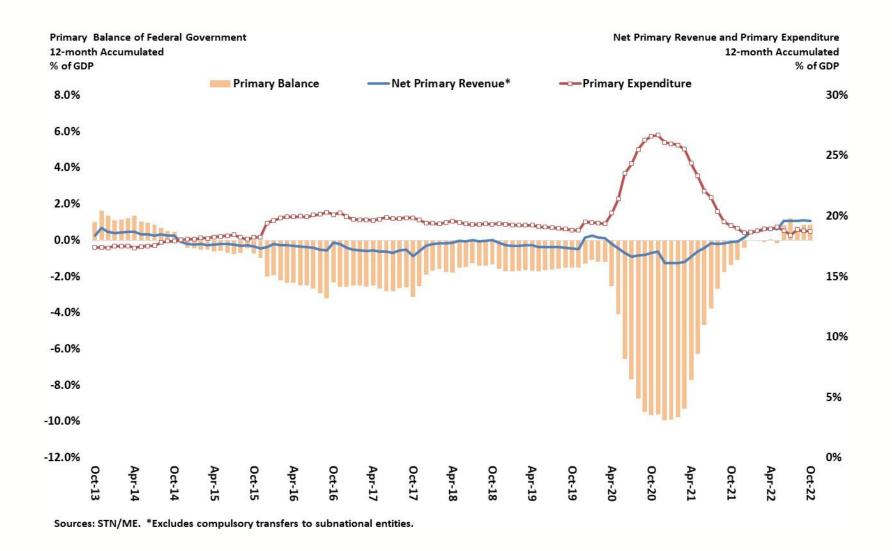
# **Public Sector Accounts**

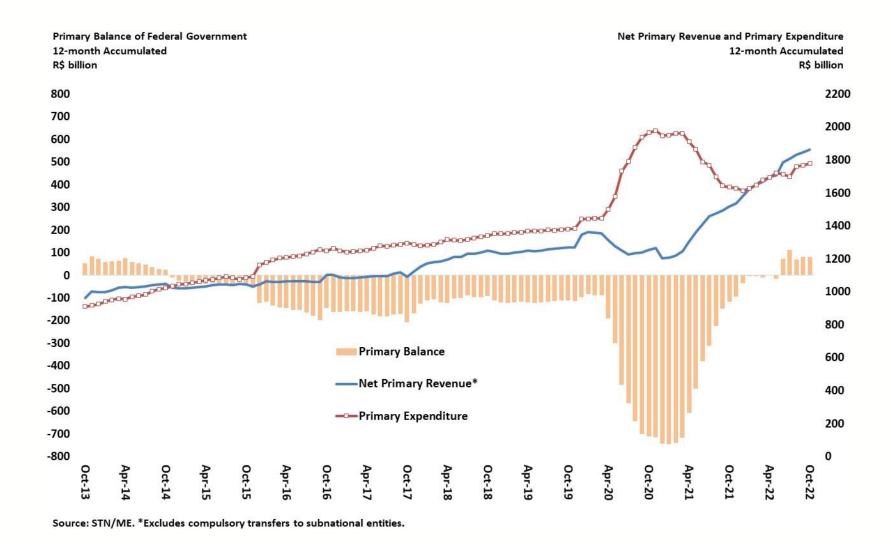
											BCB/Focus:	12/16/22	
Federal Government Accounts	October-22	12-month Acummulated Figures (in R\$ millions)							chg. %				
Federal Budget (National Treasury/Ministry of Finance)		2017	2018	2019	2020	2021	Oct/22 accum. in 12- months	2021 / 2020	Dec/17 accum. 12- m / 2016	YTD 2018 / YTD 2017	2022	2023	2024
Total Primary Revenue (a)		1,383,653	1,488,999	1,635,608	1,468,096	1,932,650	2,306,766	31.6%	19.4%	24.4%			
National Treasury		1,008,868	1,097,817	1,222,277	1,063,324	1,470,406	1,503,624	38.3%	2.3%	27.2%			
Social Security General System		374,785	391,182	413,331	404,773	462,244	423,759	14.2%	-8.3%	17.2%			
States and Municipalities Mandatory Transfers (b)		228,335	256,724 1,232,276	288,331	263,798	353,547	368,625 1,558,758	34.0% 31.1%	4.3% -1.3%	31.9% 23.2%			
Net Primary Revenue (a-b) Total Primary Expenditure		1,155,318 1,279,579	1,232,276	1,347,277 1,442,342	1,204,298 1,947,553	1,579,103 1,614,171	1,494,320	-17.1%	-1.3% -7.4%	23.2% 10.0%			
National Treasury		722.344	766.118	815,831	1,283,649	904,588	821.895	-29.5%	-9.1%	8.8%			
Social Security General System		557,235	586,379	626,510	663,904	709,583	672,425	6.9%	-5.2%	11.6%			
Federal Government Accounts	October-22	12-month Acummulated Figures (in R\$ millions)							% of GDP				
Federal Budget (National Treasury/Mnistry of Finance)		2017	2018	2019	2020	2021	Oct/22 accum. in 12- months	2020	2021	Oct/22 accum. in 12-months			
Primary Account Balance of Federal Government (STN/MF)		-124,261	-120,221	-95,065	-743,255	-35,068	64,438	-10.0%	-0.4%	0.7%			
National Treasury		58,189	74,976	118,114	-484,123	212,270	313,104	-6.5%	2.4%	3.3%			
Social Security General System		-182,450	-195,197	-213,179	-259,132	-247,338	-248,666	-3.5%	-2.8%	-2.6%			
Consolidate Public Sector Accounts	October-22	12-month Acummulated Figures (in R\$ millions) % of GDP											
Public Sector Financial Need (Central Bank of Brazil - BCB)		2017	2018	2019	2020	2021	Oct/22 accum. in 12- months	2020	2021	Oct/22 accum. in 12-months	2022	2023	2024
Primary Account Balance Target in Law - LDO (% GDP)											0.3%	-0.6%	-0.2%
Primary Account Balance		-110,583	-108,258	-61,872	-702,950	64,727	157,896	-9.4%	0.7%	1.7%	1.3%	-1.0%	-0.8%
Federal Government		-118,442	-116,167	-88,899	-745,266	14,919	65,313	-10.0%	-0.4%	0.7%			
States and Municipalities		7,498	3,492	15,196	38,748	97,694	87,243	0.5%	1.1%	0.9%			
State Owned Companies (except Petrobrás and Eletrobrás) Net Financial Public Expenditure (Debt Interest Payments)		362 -400,826	4,417 -379,184	11,831 -367,282	3,567 -312,427	2,906 -448,391	5,341 -477,137	0.0% -4.2%	0.0% -5.2%	0.1% -5.0%			
Nominal Account Balance		-400,626 - <b>511,408</b>	-379,164 -487,442	-307,262 - <b>429,154</b>	-312,427 -1,015,377	-383,664	-477,137 -319,241	-4.2% -13.6%	-3.2% -4.4%	-3.4%	-5.2%	-8.7%	-6.5%
	October-22	Debt Outstanding (in R\$ millions) chg. %											
End of Period Debt Outstanding (in R\$ millions)		Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Oct-22	Dec/20 - Dec/19	Dec/21 - Dec/20	Oct/22 - Dec/21	2022	2023	2024
Consolidated Public Sector		3,382,942	3,695,837	4,041,769	4,670,004	4,966,921	5,542,541	15.54%	6.36%	11.59%			
Federal Government		2,534,119	2,763,702	3,078,019	3,651,460	4,029,713	4,654,733	18.6%	10.4%	15.5%			
States and Municipalities State Owned Companies (except Petrobrás and Eletrobrás)		789,403 59.420	871,134 61.001	907,931 55.819	954,485 64.060	880,490 56.718	833,238 54,571	5.1% 14.8%	-7.8% -11.5%	-5.4% -3.8%			
Net Domestic Debt		4,001,077	1,237,861	4,750,944	5,654,808	5,898,308	6,265,892	14.8%	4.3%	6.2%			
Net External Debt		-618,135	-748,749	-709,175	-984,804	-931,387	-723,351	38.9%	-5.4%	-22.3%			
General Public Sector Net Debt (% GDP)	Ì	51.4%	52.8%	54.7%	62.5%	57.2%	58.3%	7.8 pp	-5.3 pp	1.1 pp	57.5%	62.2%	64.7%
General Public Sector Gross Debt (% GDP)		73.7%	75.3%	74.4%	88.6%	80.3%	76.8%	14.2 pp	-8.3 pp	-3.5 pp	76.5%	80.7%	84.0%
General Public Sector Gross Debt (in R\$ millions)		5,449,151	5,937,904	6,437,299	7,305,734	8,014,883	8,198,910	13.49%	9.71%	2.30%			

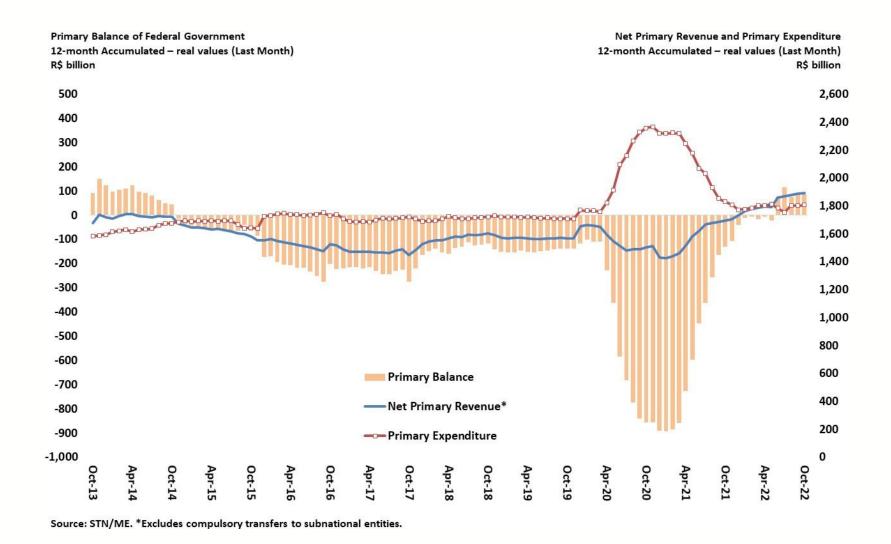


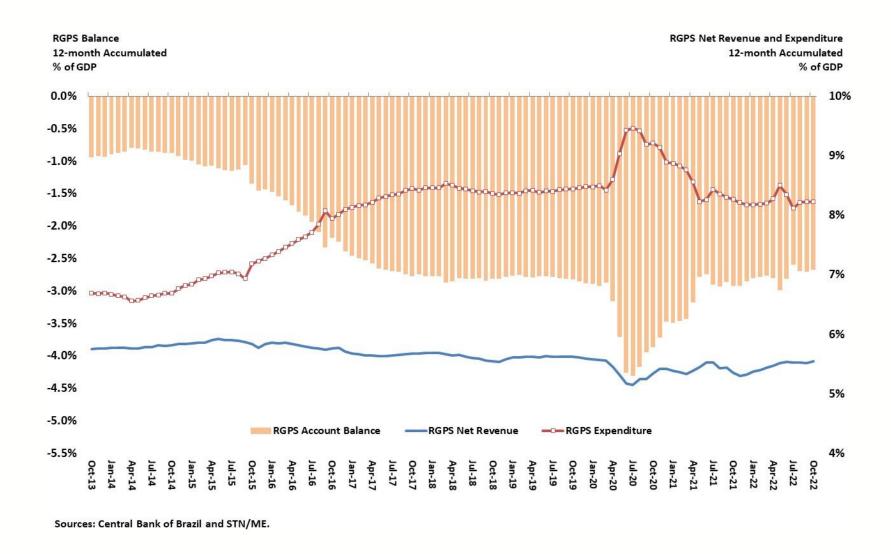
Source: IBGE, STN and Central Bank of Brazil. Primary Accout Balance of Federal Government.

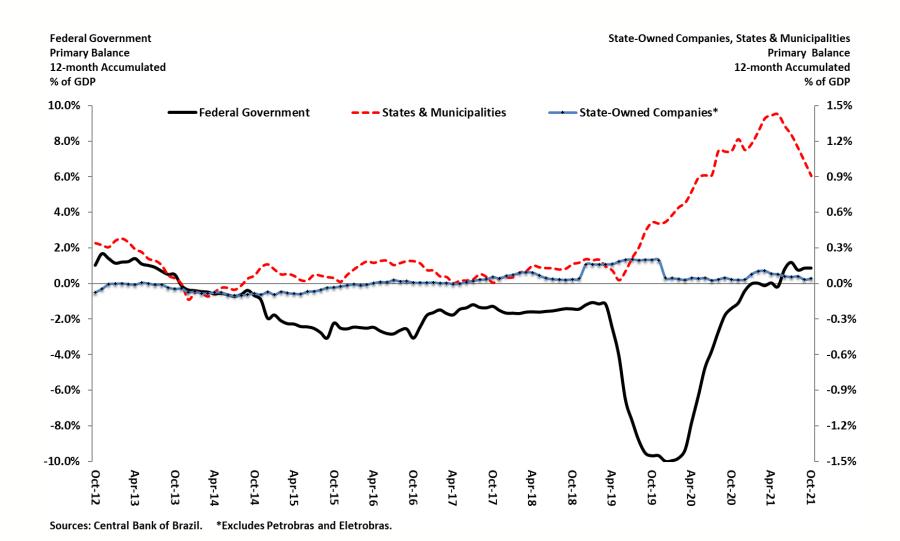
<sup>\*</sup> Annex-Fiscal Targets of Budgetary Guidelines Bill - PLDO 2023; and Macroeconomic Projections from SPE, December/2022.



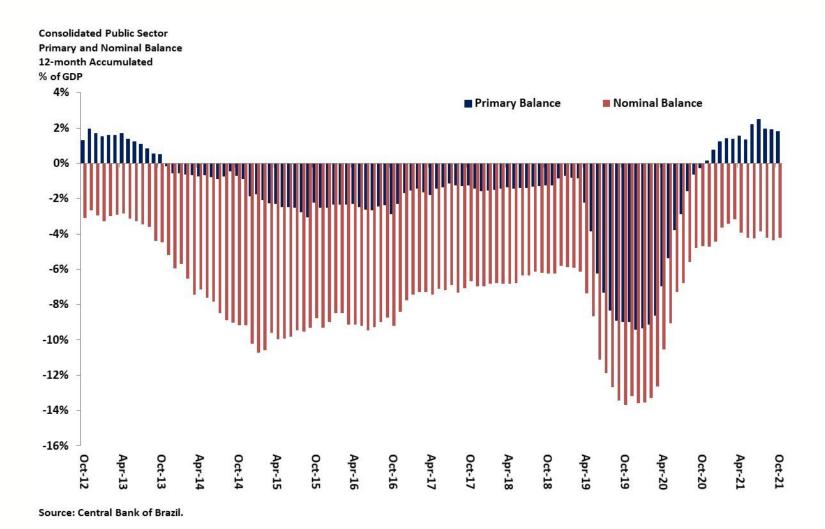


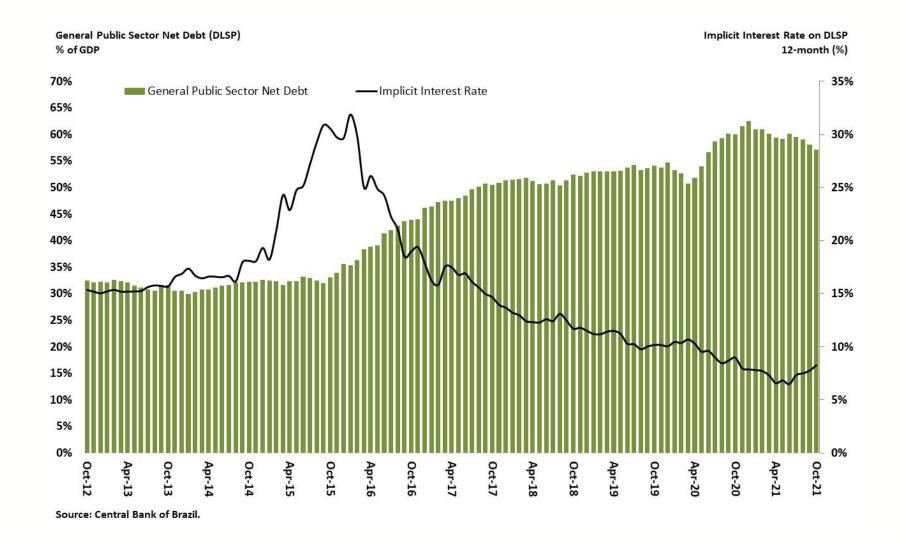


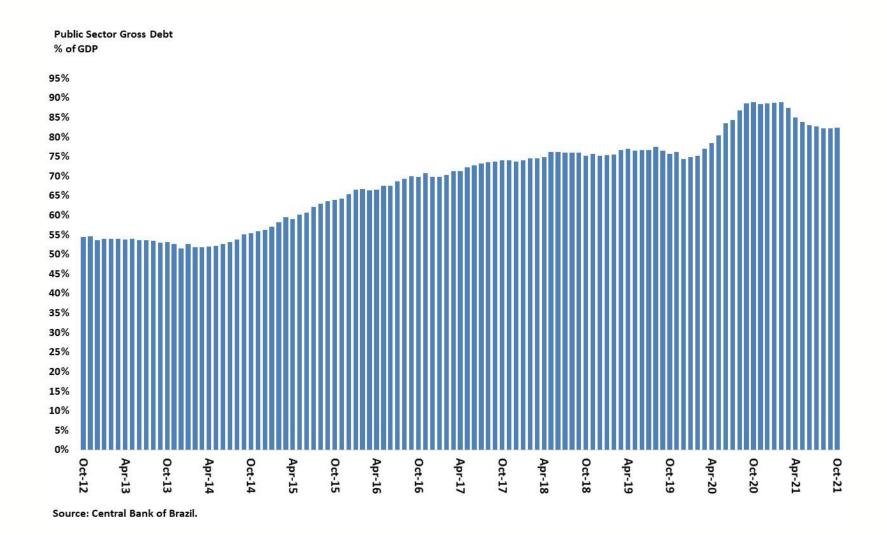










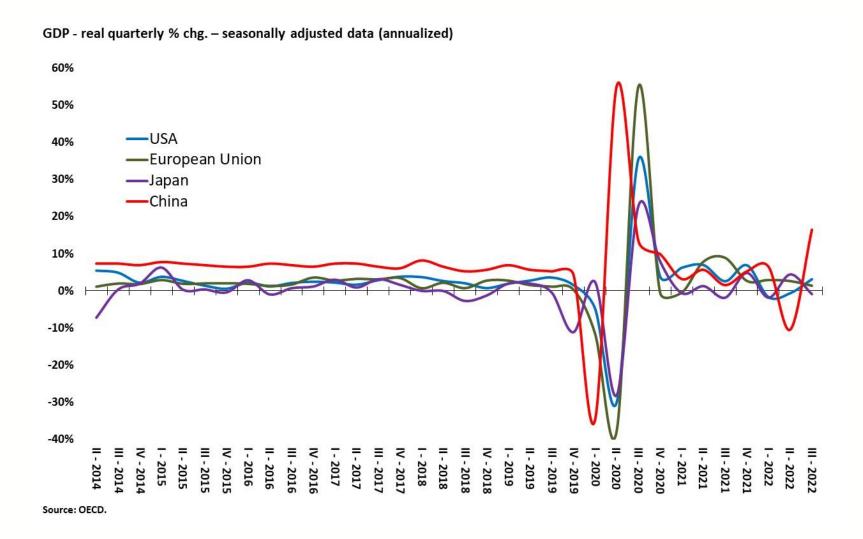


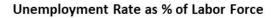


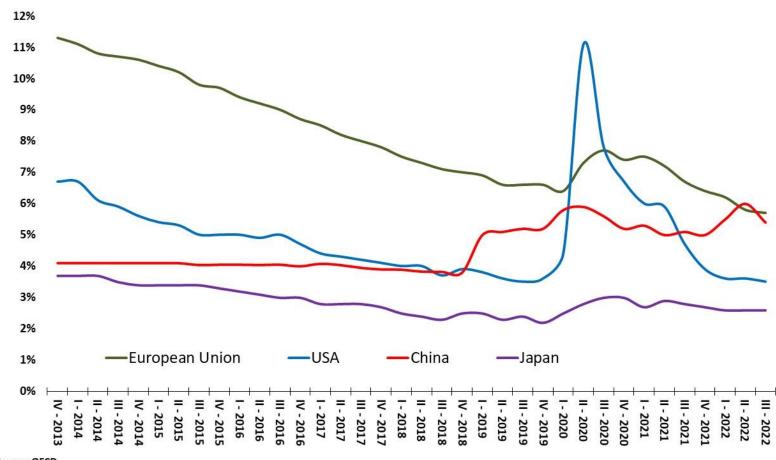
# World Economy

## World Economy

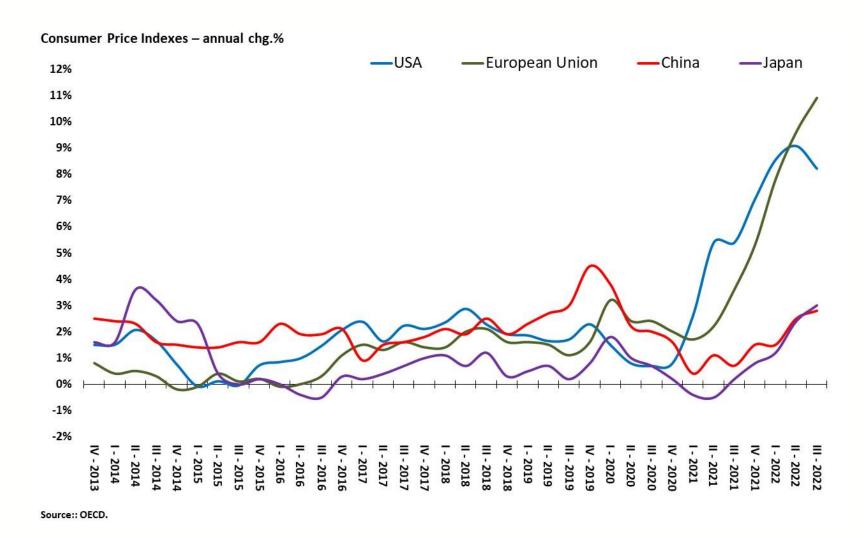
										IMF - WEO, Oct. 2022.		
World Q4 202	1 2017	2018	2019	2020	2021	Q4-2017 /	Q4-2018 /	Q4-2019 /	Q4-2020 /	Q4-2021 /	2022	2023
data from IMF and WTO	2017	2010	2013	2020	2021	Q4-2016	Q4-2017	Q4-2018	Q4-2019	Q4-2020		2020
World Output - GDP	3.8%	3.6%	2.8%	-3.0%	6.0%	2.8%	3.6%	2.7%	-1.4%	4.4%	3.2%	2.7%
Advanced Economies	2.5%	2.3%	1.7%	-4.4%	5.2%	2.3%	2.0%	1.5%	-3.9%	4.7%	2.4%	1.1%
Emerging Market and Developing Economies	4.8%	4.6%	3.6%	-1.9%	6.6%	4.8%	4.6%	3.7%	0.9%	4.2%	3.7%	3.7%
Latin America and the Caribbean	1.4%	1.2%	0.2%	-7.0%	6.9%	1.3%	1.1%	0.0%	-4.8%	3.9%	3.5%	1.7%
World Trade of Goods and Services	5.6%	4.0%	0.9%	-7.8%	10.1%						4.3%	2.5%
National Accounts Q3 202	2017	2018	2019	2020	2021	Q2-2022 / Q2	Q3-2022 / Q3-	Q1-2022 accum. in 4-	Q2-2022 accum. in 4-	Q3-2022 accum. in 4-	2022	2023
data from IMF, OECD, Eurostat, NBSC and METI	2017	2010	2019	2020	2021	2021	2021	quarters	quarters	quarters	2022	2023
USA - GDP	2.2%	2.9%	2.3%	-2.8%	5.9%	1.8%	1.8%	6.5%	4.1%	3.3%	1.6%	1.0%
Household Expenditure	2.4%	2.9%	2.2%	-3.8%	7.9%	2.4%	2.0%	8.7%	5.5%	4.1%		
Government Expenditure	0.5%	1.4%	2.2%	2.5%	0.5%	-1.3%	-0.6%	-0.3%	-0.4%	-0.8%		
Gross Fixed Capital Formation	4.1%	4.8%	3.2%	-2.7%	7.7%	7.2%	2.3%	12.3%	8.3%	7.4%		
Exports of Goods and Services	4.1%	2.8%	-0.1%	-13.6%	4.6%	7.3%	11.3%	8.2%	6.4%	7.6%		
Imports of Goods and Services (-)	4.4%	4.1%	1.2%	-8.9%	14.0%	11.2%	7.5%	16.2%	11.8%	10.4%		
Industrial Production	1.3%	3.2%	-0.8%	-7.2%	5.5%							
Unemployment (% of Labor Force)	4.4%	3.9%	3.7%	8.1%	5.4%							
Consumer Price Index	2.1%	2.4%	1.8%	1.2%	4.7%						6.4%	2.3%
European Union - GDP	3.0%	2.2%	2.0%	-5.6%	5.4%	4.3%	2.4%	7.1%	4.8%	4.3%	3.2%	0.7%
Household Expenditure	1.8%	1.5%										
Government Expenditure	1.1%	1.1%										
Gross Fixed Capital Formation	3.1%	3.3%										
Exports of Goods and Services	5.3%	3.0%										
Imports of Goods and Services (-)	4.3%	3.3%										
Industrial Production	3.5%	1.6%	-3.3%	-8.0%	9.4%							
Unemployment (% of Labor Force)	9.1%	8.2%	7.6%	7.2%	6.6%							
Consumer Price Index	1.6%	1.8%	1.4%	0.7%	2.9%						10.0%	5.0%
Japan - GDP	1.7%	0.6%	-0.4%	-4.6%	1.7%	1.6%		2.5%	1.0%		1.7%	1.6%
Industrial Production	2.8%	1.1%	-2.8%	-9.8%	6.4%							
Unemployment (% of Labor Force)	2.8%	2.4%	2.4%	2.7%	2.8%							
Consumer Price Index	0.5%	1.0%	0.5%	0.0%	-0.2%						2.4%	1.2%
China - GDP	6.9%	6.8%	6.0%	2.2%	8.1%	0.4%	3.9%	5.4%	3.5%	3.3%	3.2%	4.4%
Industrial Production	6.1%	6.1%	6.2%	2.1%	9.6%							
Unemployment (% of Labor Force)	3.9%	3.8%	3.6%	5.6%	5.1%							
Consumer Price Index	1.6%	2.1%	2.9%	2.4%	0.9%						2.7%	1.8%



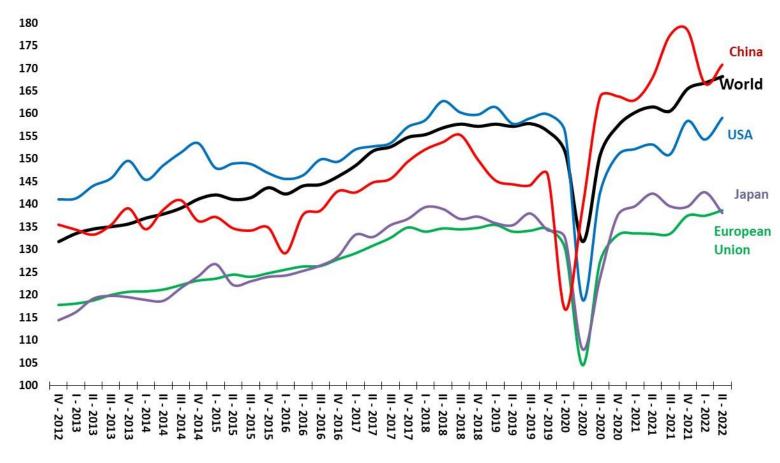




Source: OECD.

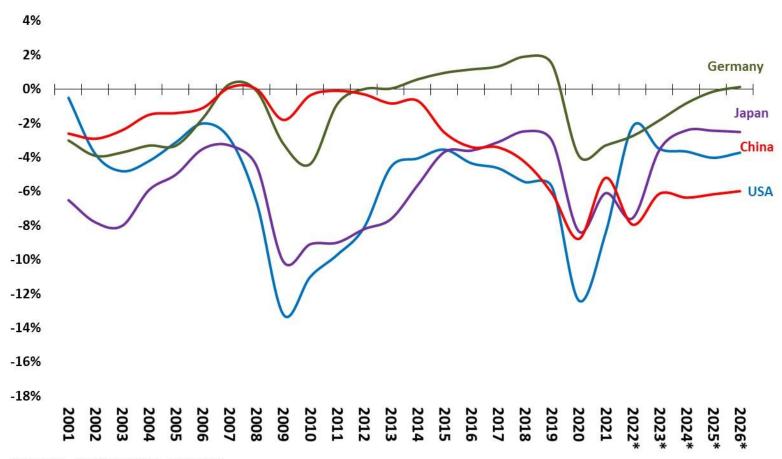




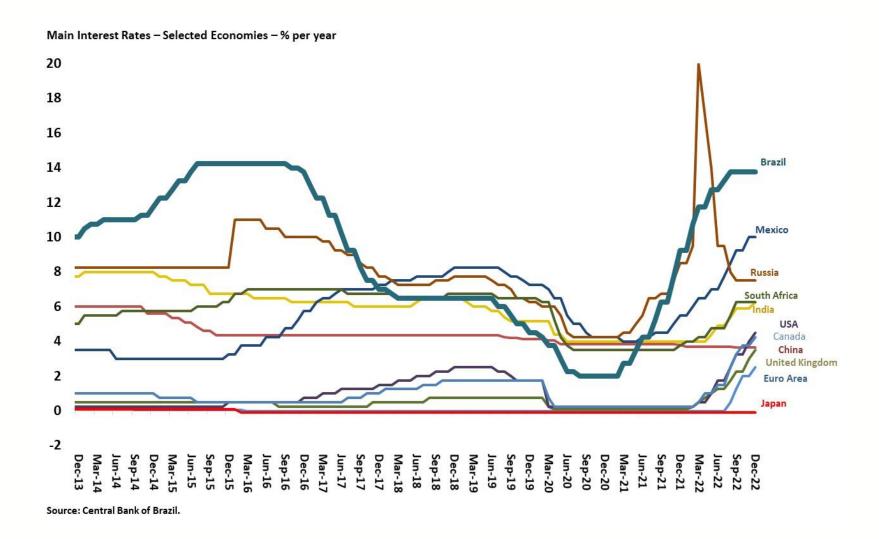


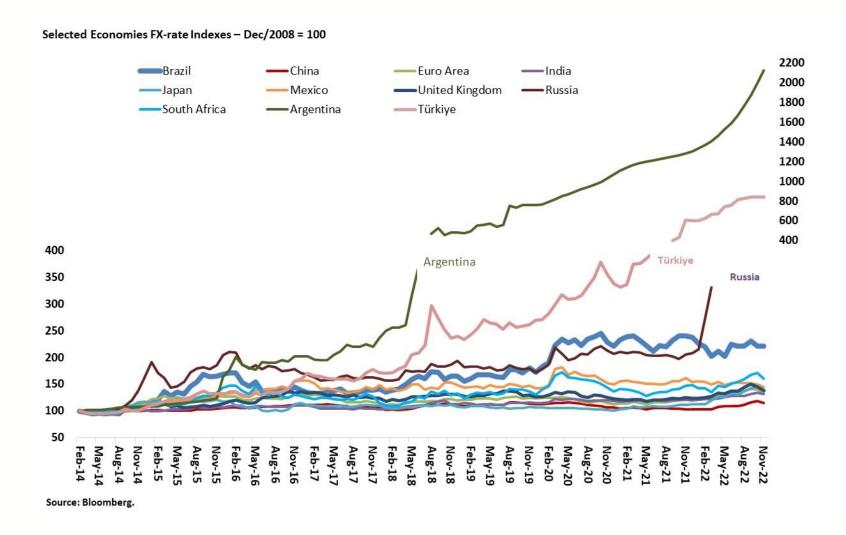
Source: WTO.



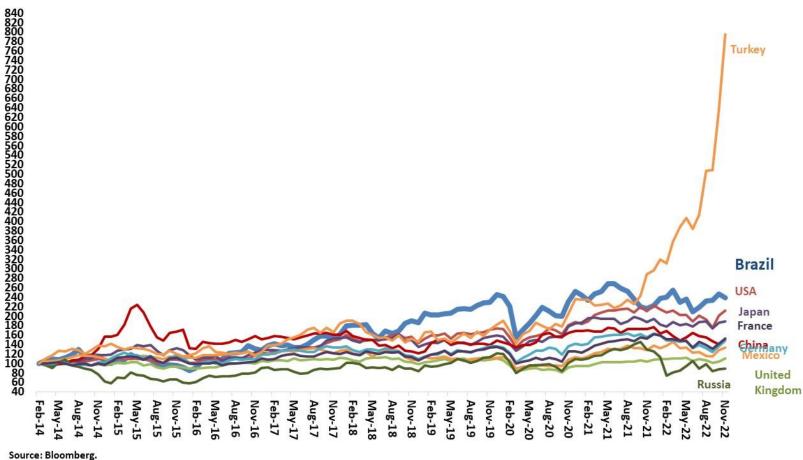


Source: IMF. \* Estimated values - WEO Oct22.









## Macroeconomic Outlook

December 2022

#### MINISTER OF ECONOMY - PAULO ROBERTO NUNES GUEDES

### **EXECUTIVE SECRETARY - MARCELO PACHECO DOS GUARANYS**

CHIEF OF SPECIAL ADVISORY ON STRATEGIC AFFAIRS – **ROGÉRIO BOUERI**ASSISTANT SECRETARY FOR ECONOMIC POLICY – **PEDRO CALHMAN DE MIRANDA**HEAD OF MACROECONOMIC POLICY – **FAUSTO JOSÉ ARAUJO VIEIRA** 

#### MACROECONOMIC OUTLOOK STAFF:

Arthur Rocha Xavier

Carlos Henrique Coêlho de Andrade

Elder Linton Alves de Araújo

Gustavo Miglio de Melo

Hébrida Verardo Moreira Fam

Lilian Cavalvante Souto

Pedro Corbelino Melges Barreto Sales

Rodrigo Mendes Pereira

Rogério Mazali

Silas Franco de Toledo

CONTACT: conjuntura.df. spe@economia.gov.br



### More information:

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Ministry of Economy