Macroeconomic Outlook

October 2022

10/19/2022



Macroeconomic Outlook

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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 suggests 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

October 2022

Contents

Highlights	4
Market Expectations	24
Economic Activity	
GDP and Quarterly Economic Activity	34
Monthly Economic Activity	51
Other Monthly Economic Activity Indicators	. 62
Labor Market	81
Inflation	91
Credit Market	106
Financial Markets	120
Foreign Trade	131
External Sector	149
Public Sector Accounts	160
World Economy	171

Highlights

Macroeconomic Parameters												
	Gross Domestic Product											
Year	Nominal			Real								
	BRL million	Chg. %	Chg. %	Per Capita chg. %	Chg. %							
2016	6,269,328	4.56	-3.28	-4.07	8.07							
2017	6,585,479	5.04	1.32	0.52	3.66							
2018	7,004,141	6.36	1.78	0.96	4.49							
2019	7,389,131	5.50	1.22	0.42	4.21							
2020	7,467,616	1.06	-3.88	-4.61	5.14							
2021	8,679,490	16.23	4.62	3.85	11.10							
2022	9,660,820	11.31	2.70	1.97	8.37							
2023	10,456,820	8.24	2.50	1.81	5.58							
2024	11,233,421	7.43	2.50	1.84	4.78							
2025	12,018,938	6.99	2.50	1.87	4.36							
2026	12,848,640	6.90	2.50	1.90	4.27							

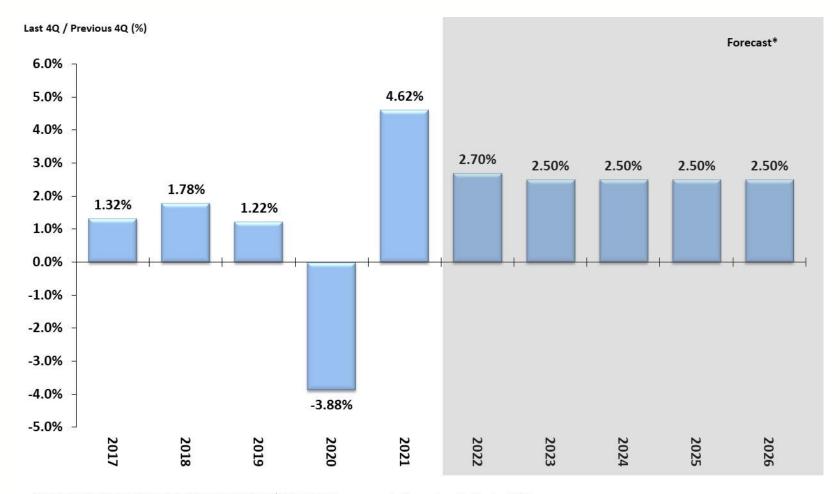
Macroeconomic Parameters										
Industrial Activity - Annual chg. %										
Year	Manuf	acturing	Beve	rages	Veh	icles				
real		Produ	iction		Domestic '	Wholesale				
	Price	Quantity	Price	Quantity	Price	Quantity				
2016	8.06	-5.98	7.60	-3.09	6.10	-17.53				
2017	1.76	2.23	4.34	0.78	4.26	12.31				
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	18.62	-0.60	9.63	4.01	12.67	-3.15				
2023	3.17	1.06	7.25	3.14	4.60	11.67				
2024	3.31	1.81	5.96	3.63	3.25	12.33				
2025	4.40	2.08	5.93	3.44	2.73	9.32				
2026	4.73	2.26	5.91	3.29	2.46	8.91				

Macroeconomic Parameters									
			Formal Jobs i	n Private Sec	tor				
Year	Labor Force	Employed Population	Earni	ings	Wage	Bill			
real		Employed Population	Nominal	Real	Nominal	Real			
		Chg. % acc	um. In 4-trimeste	rs					
2016	1.32	-4.28	7.65	-1.02	3.05	-5.26			
2017	1.70	-2.76	5.88	2.35	2.98	-0.47			
2018	1.20	-0.58	3.45	-0.20	2.86	-0.77			
2019	1.77	1.43	3.35	-0.36	4.83	1.06			
2020	-5.88	-6.91	5.82	2.53	-1.53	-4.57			
2021	4.35	2.56	2.69	-5.11	5.35	-2.76			
2022	2.85	9.53	7.89	-1.52	18.22	7.98			
2023	2.19	4.02	5.97	1.26	10.21	5.33			
2024	2.18	3.10	4.70	1.13	7.95	4.27			
2025	2.18	3.00	4.22	1.19	7.34	4.22			
2026	2.18	2.99	4.23	1.20	7.35	4.22			

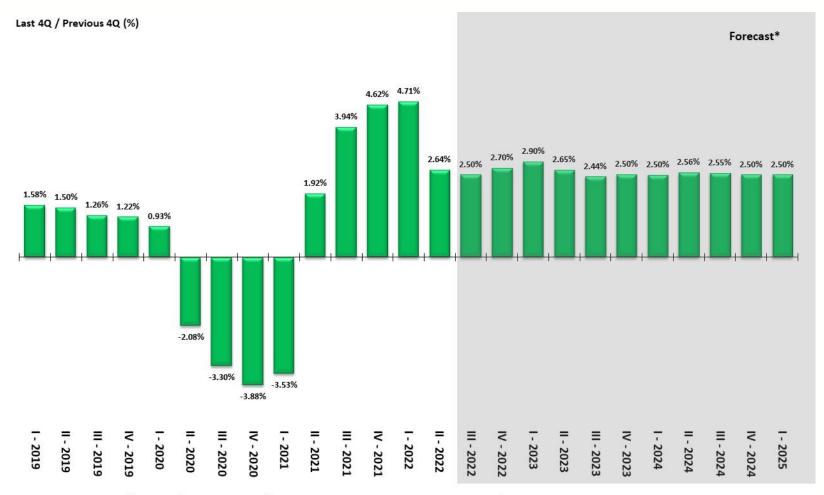
Macroeconomic Parameters											
	Inflation										
	IP	CA	IN	PC	IGP	P-DI					
Year	Annual	Annual	Annual	Annual	Annual	Annual					
	Average	Accum.	Average	Accum.	Average	Accum.					
			Chg	. %							
2016	8.74	6.29	9.32	6.58	10.19	7.18					
2017	3.45	2.95	2.97	2.07	0.96	-0.42					
2018	3.66	3.75	2.87	3.43	5.81	7.10					
2019	3.73	4.31	3.75	3.75 4.48		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	9.47	6.30	9.63	6.54	11.48	9.44					
2023	4.65	4.50	5.00	4.86	4.99	4.55					
2024	3.53	3.00	3.64	3.00	4.35	4.19					
2025	3.00	3.00	3.00	3.00	4.06	3.98					
2026	3.00	3.00	3.00	3.00	3.85	3.71					

Macroeconomic Parameters											
	Financial Indicators										
Year	Selic	market rate	9	Long term ra	ate TJLP	Referential rate TR	Financial Savi	ngs			
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	5.68	6.87	7.65	1.69	8,511,619	16.05			
2023	12.87	11.15	8.01	6.99	6.64	1.85	9,571,586	12.45			
2024	9.24	7.90	6.06	6.16	5.89	0.55	10,602,066	10.77			
2025	7.63	7.40	4.50	5.46	5.30	0.00	11,601,339	9.43			
2026	7.40	7.40	4.28	5.01	4.87	0.00	12,566,404	8.32			

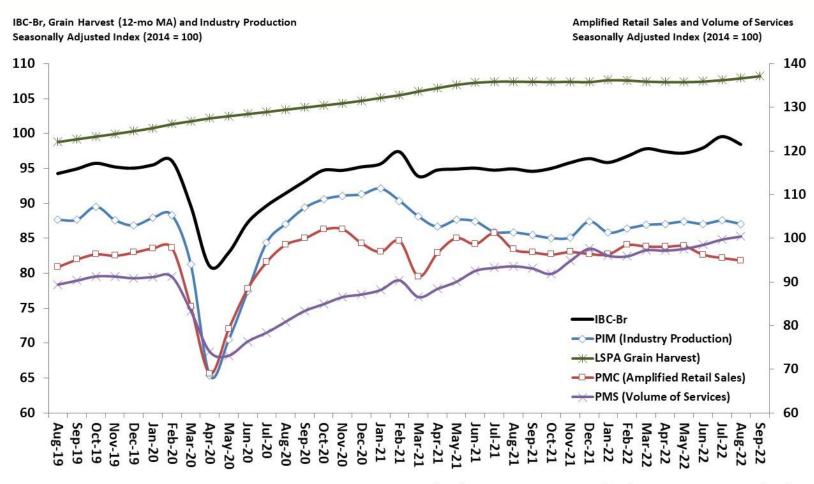
Macroeconomic Parameters											
		External S	ternal Sector								
Year	Exchange Rate										
real	Annual Average	December	- Average chg. %	Annual chg. %							
	Exchange Rate BRL,	/USD	Average crig. %	Annual City. 76							
2016	3.5	3.3	4.8	-13.4							
2017	3.2	3.3	-8.5	-1.8							
2018	3.7	3.9	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	5.15	5.20	-4.51	-7.99							
2023	5.18	5.20	0.46	-0.24							
2024	5.10	5.10	-1.51	-1.81							
2025	5.14	5.18	0.82	1.58							
2026	5.19	5.20	0.97	0.48							



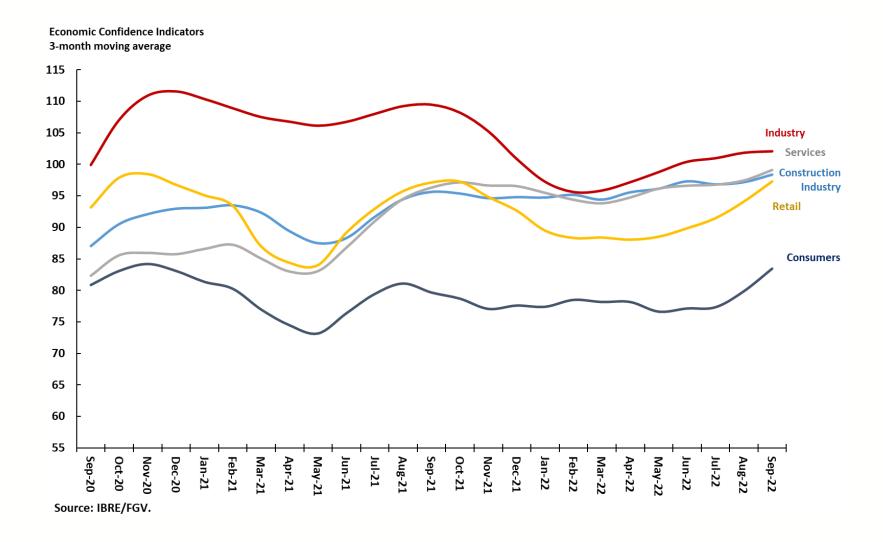
Source: IBGE, Quarterly National Accounts Series *Forecast: Macroeconomic Parameters, September-2022.

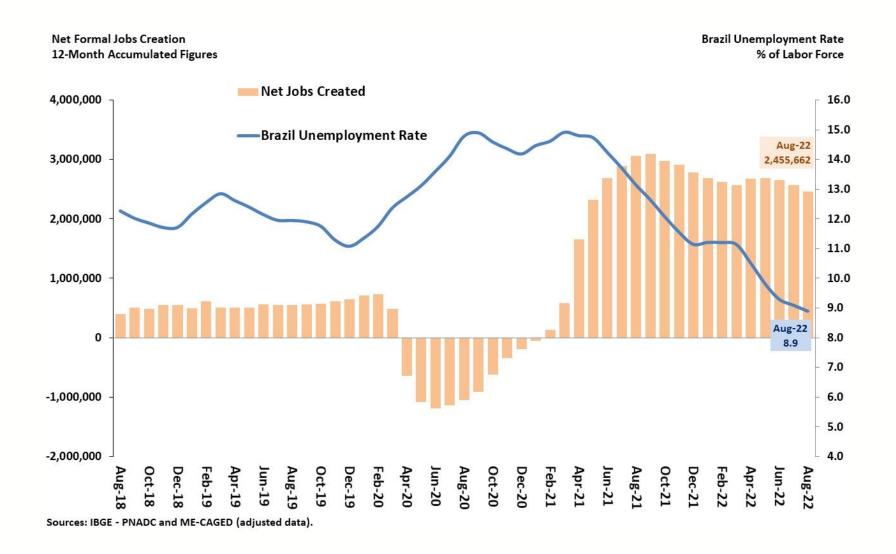


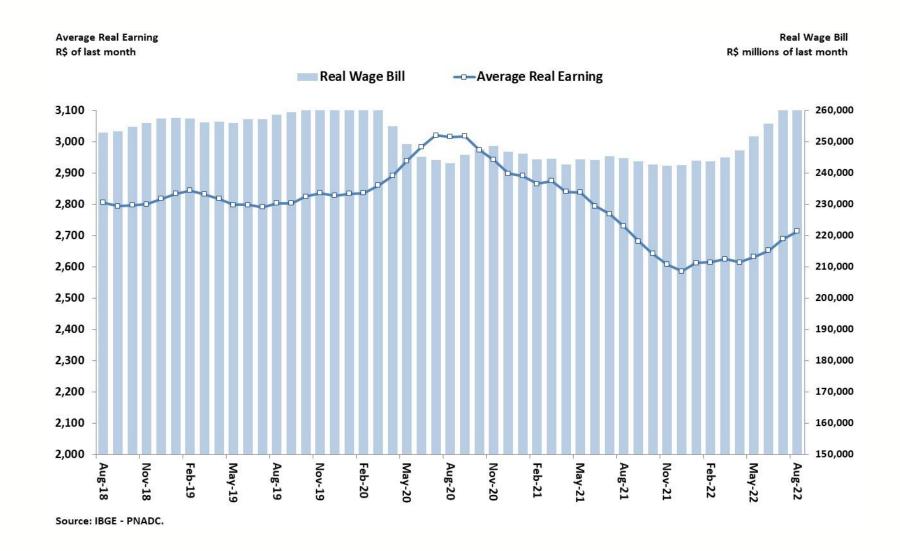
Source: IBGE, Quarterly National Accounts Series *Forecast: Macroeconomic Parameters, September-2022.

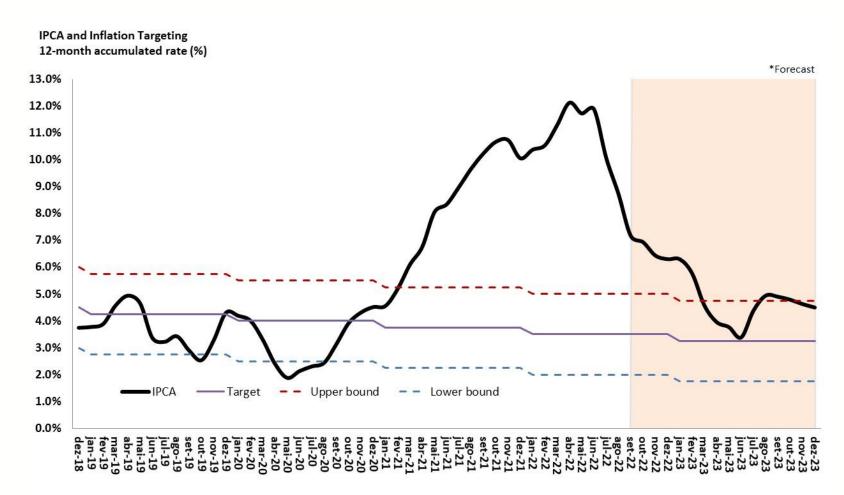


Sources: Central Bank of Brazil and IBGE: Systematic Survey of Agricultural Production (LSPA), Monthly Survey of Industry (PIM), Monthly Survey of Trade (PMC), and Monthly Survey of Services (PMS).

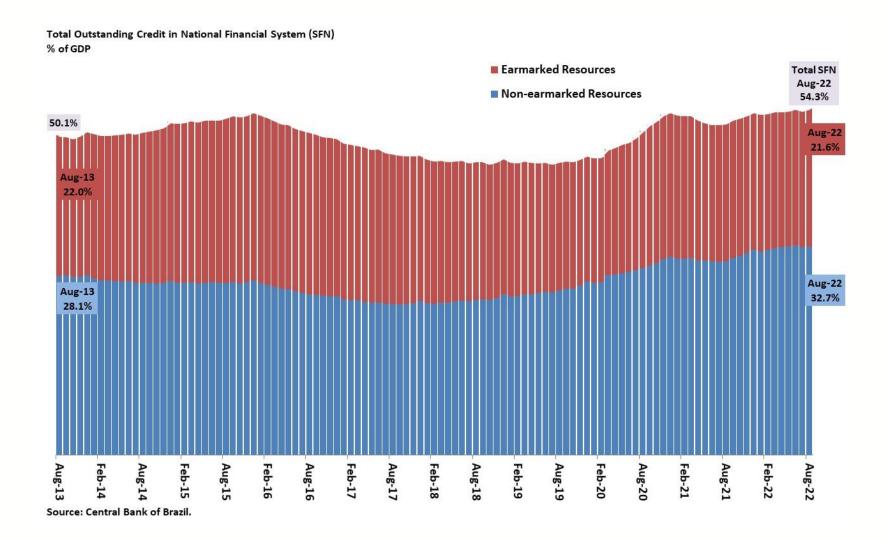


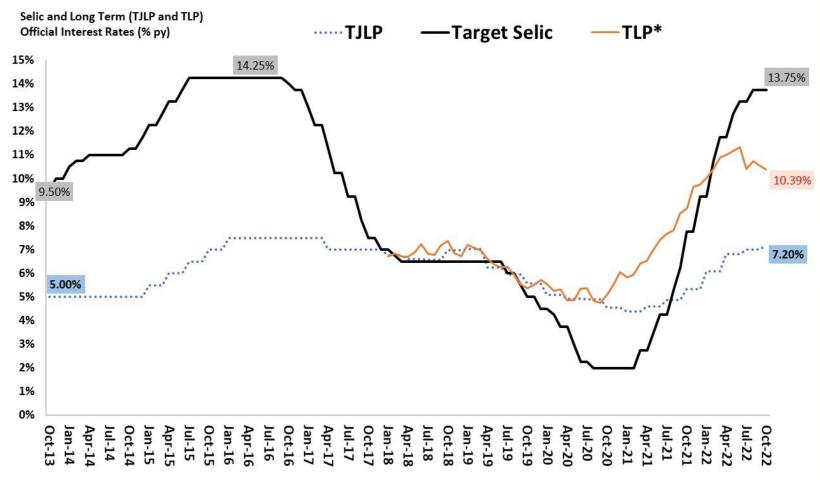




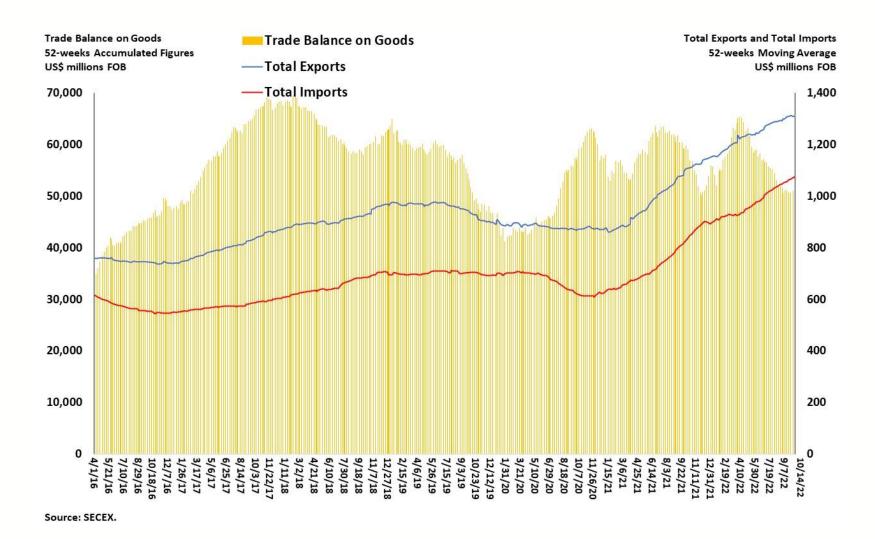


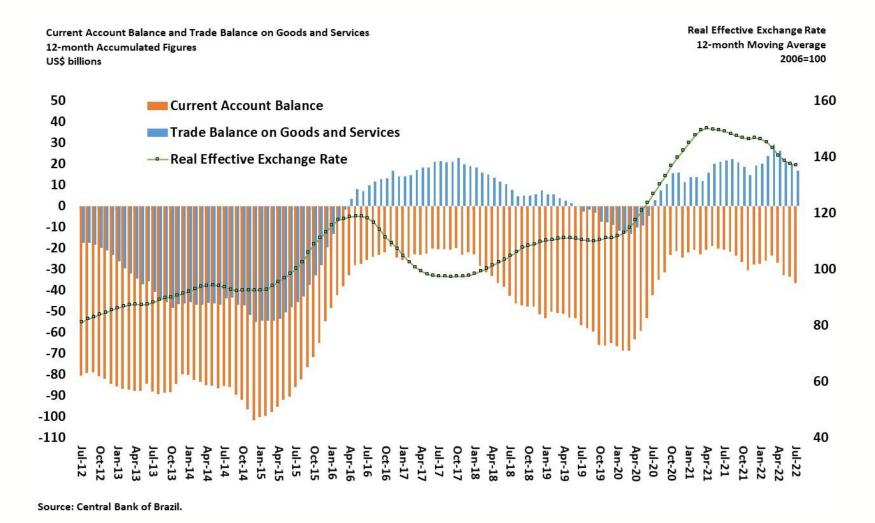
Source: IBGE and Central Bank of Brazil. *Forecast: Macroeconomic Parameters, July-2022.

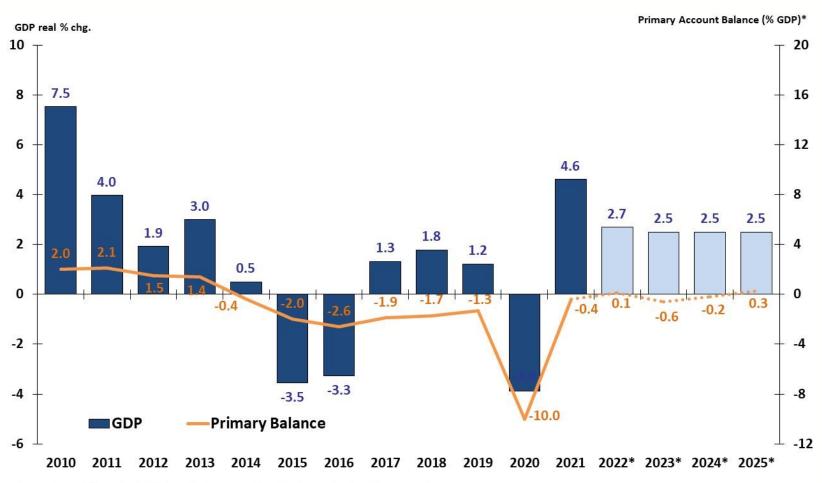




Source: Central Bank of Brazil. *TLP is 3-Month average of 5-Year NTN-B bonds plus IPCA Market Expectation (Focus Survey by BCB).

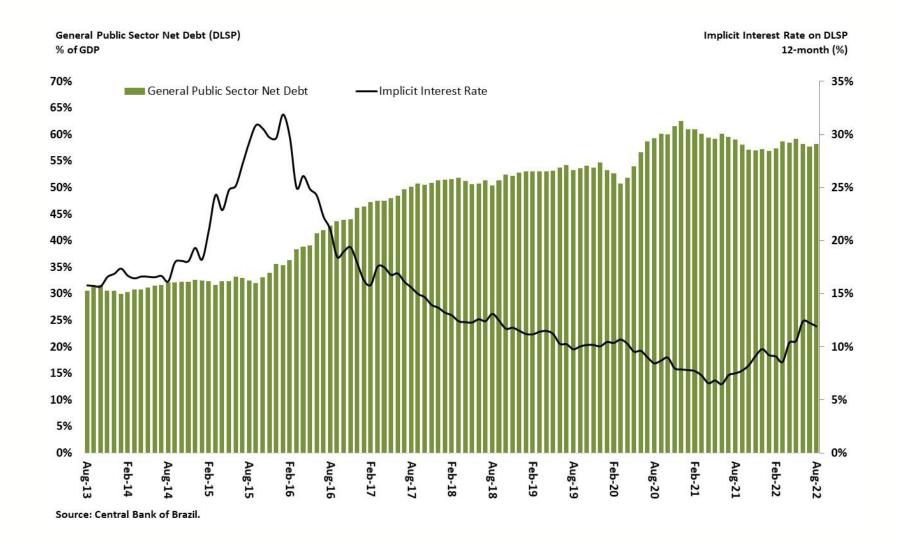




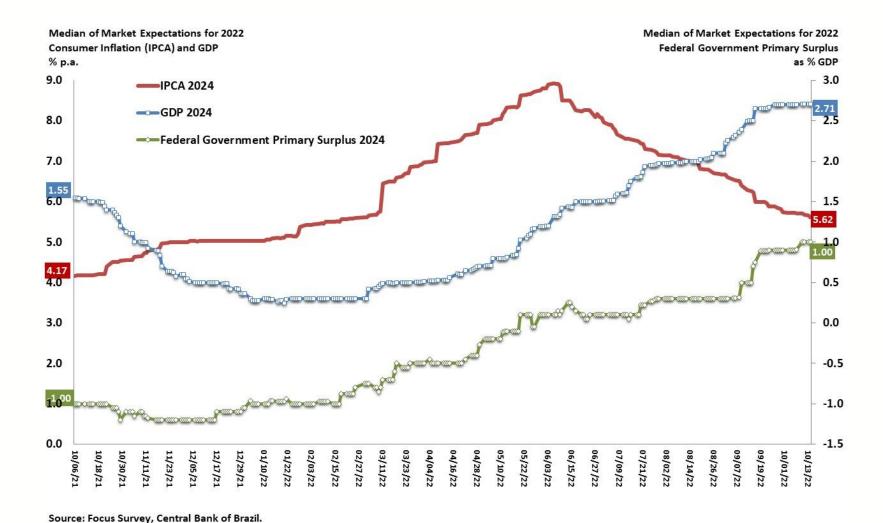


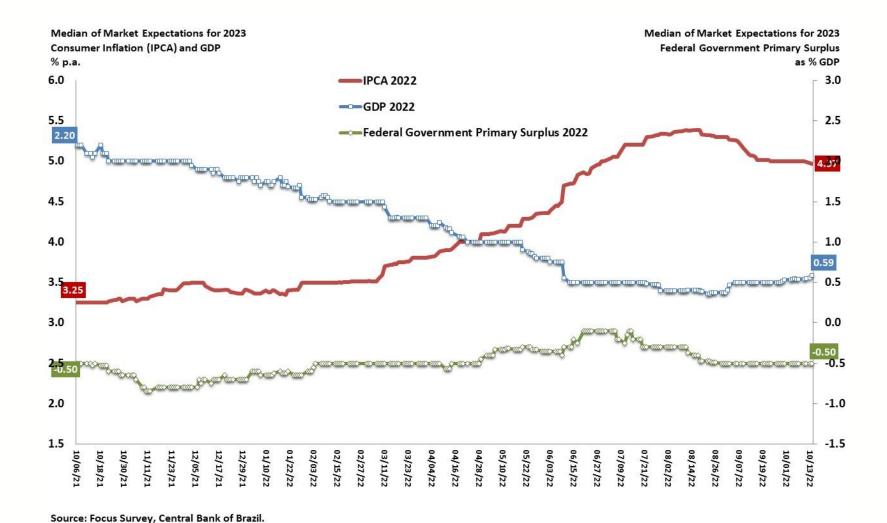
Source: IBGE, STN and Central Bank of Brazil. Primary Accout Balance of Federal Government.

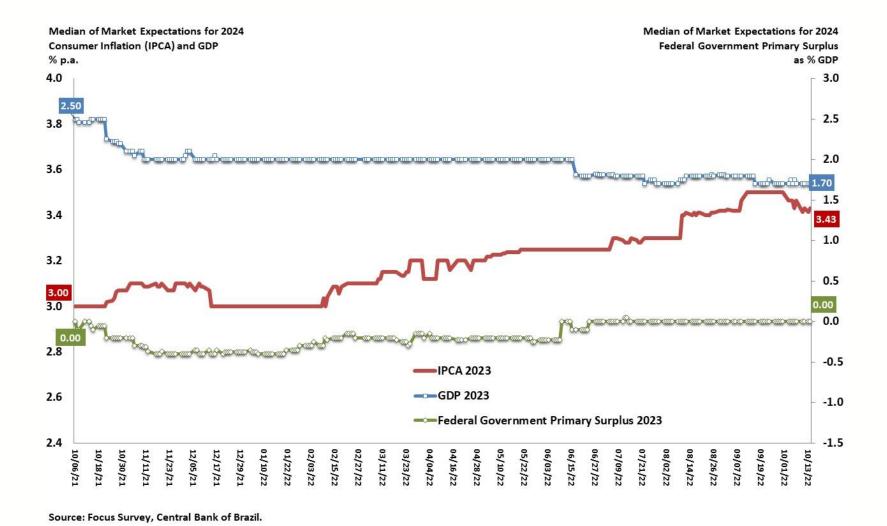
^{*} Annex-Fiscal Targets of Budgetary Guidelines Bill - PLDO 2023; and Macroeconomic Projections from SPE, September/2022.

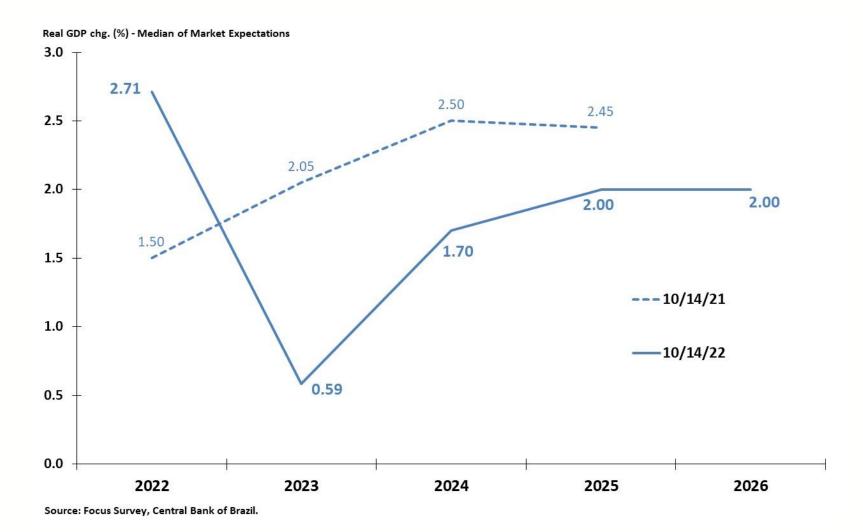


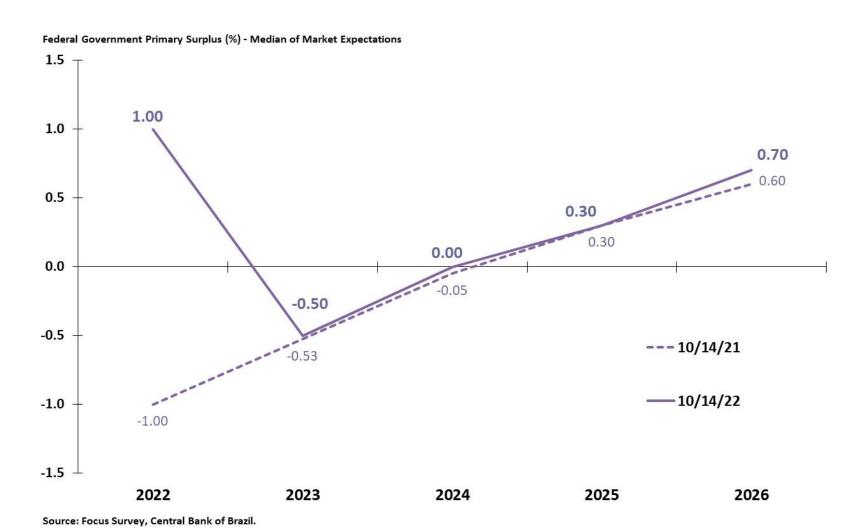
Market Expectations

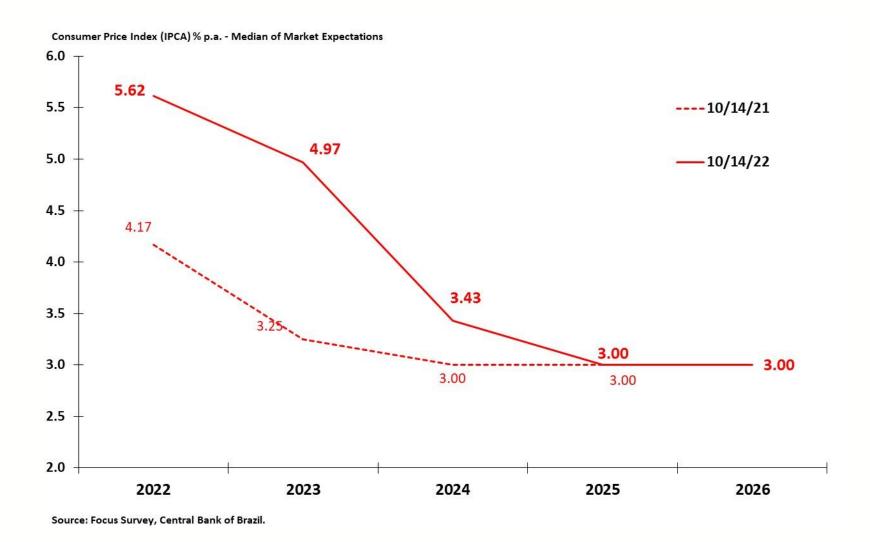


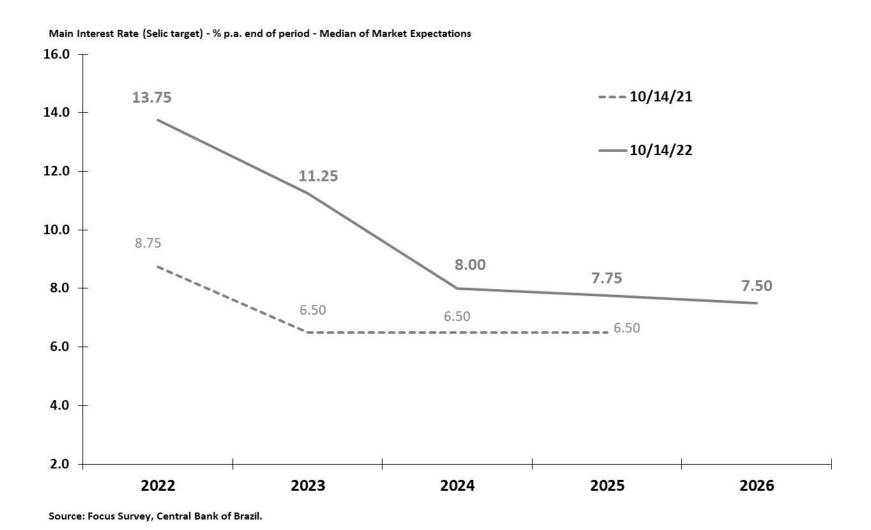


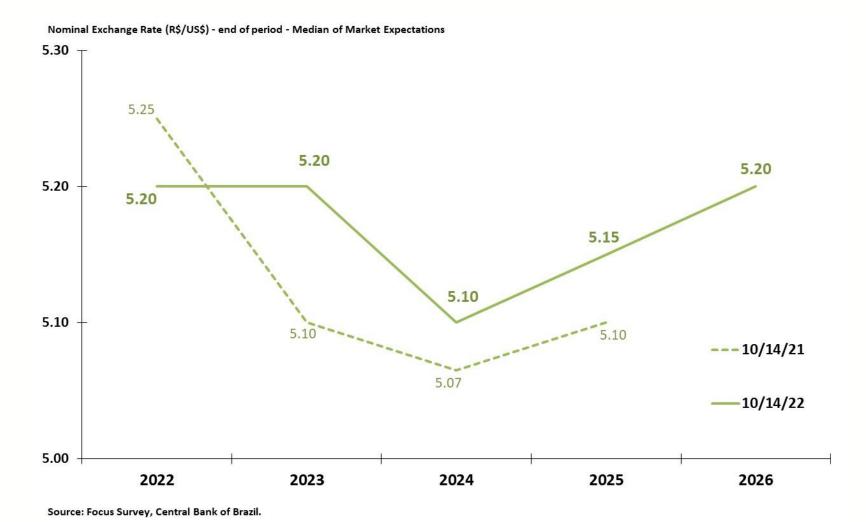












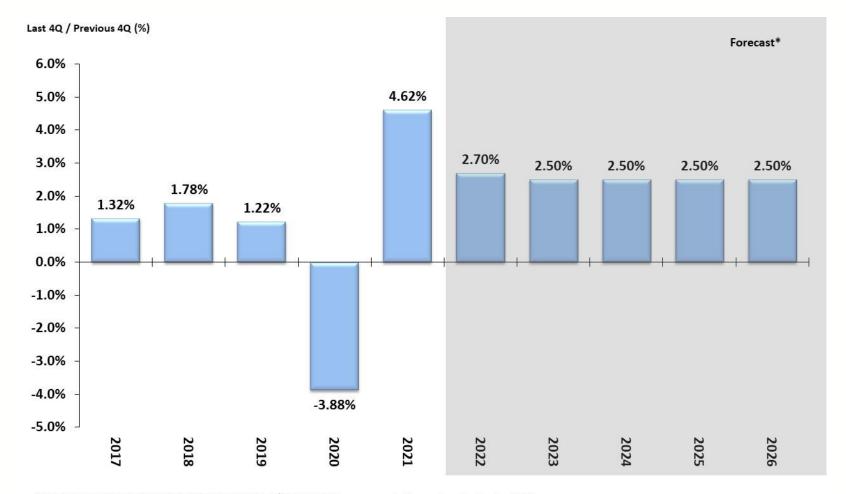
Economic activity

												BCB/Focus:	10/14/22	
Gross Domestic Product (IBGE)	Q2 2022 %change	2020	2021	Q1 2022 / Q1 2021	Q2 2022 / Q2 2021	Q1 2022 / Q4 2021 (seasonally adjusted)	Q2 2022 / Q1 2022 (seasonally adjusted)	Year-To- Date	Q1 2022 accum. in 4-quarters	Q2 2022 accum. in 4-quarters	carry-over 2022	2022	2023	2024
Agriculture		3.8%	-0.2%	-8.0%	-2.5%	-0.9%	0.5%	-5.4%	-4.8%	-5.5%	-1.7%	0.00%	2.05%	2.50%
Industry		-3.4%	4.5%	-1.5%	1.9%	0.6%	2.2%	0.2%	3.3%	0.1%	1.3%	1.35%	0.37%	1.80%
Services		-4.3%	4.7%	3.7%	4.5%	1.1%	1.3%	4.1%	5.8%	4.3%	3.4%	3.40%	0.73%	1.80%
GDP (market prices)		-3.9%	4.6%	1.7%	3.2%	1.1%	1.2%	2.5%	4.7%	2.6%	2.4%	2.71%	0.59%	1.70%
Household Expenditure		-5.4%	3.6%	2.2%	5.3%	0.5%	2.6%	3.7%	4.6%	3.4%	3.7%	0.80%	1.20%	2.00%
Government Expenditure		-4.5%	2.0%	3.3%	0.7%	-0.1%	-0.9%	2.0%	3.8%	2.5%	0.7%	1.40%	0.70%	1.30%
Gross Fixed Capital Formation		-0.5%	17.2%	-7.2%	1.5%	-3.0%	4.8%	-2.9%	10.1%	3.5%	-0.7%	-1.55%	1.00%	3.10%
Exports of Goods and Services		-1.8%	5.8%	8.1%	-4.8%	5.7%	-2.5%	0.9%	7.4%	2.3%	1.6%	2.95%	2.70%	3.00%
Imports of Goods and Services (-)		-9.8%	12.4%	-11.0%	-1.1%	-4.0%	7.6%	-6.2%	7.0%	2.0%	-1.6%	1.60%	3.30%	4.50%
Economic Activity Indicators (BCB and IBGE)	Q2 2022 %change	2020	2021	Q1 2022 / Q1 2021	Q2 2022 / Q2 2021	Q1 2022 / Q4 2021 (seasonally adjusted)	Q2 2022 / Q1 2022 (seasonally adjusted)	Year-To- Date	Q1 2022 accum. in 4-quarters	Q2 2022 accum. in 4-quarters	carry-over 2022			
IBC-Br Economic Activity Index*		-4.0%	4.5%	1.5%	2.9%	1.1%	0.7%	1.8%	4.5%	2.1%	2.2%			
LSPA: Grain Harvest		6.7%	0.3%	-0.1%	0.3%	-0.2%	4.7%	4.4%	-0.1%	0.3%	1.7%			
PIM: Industrial Production		-4.5%	3.9%	-5.8%	-4.4%	0.1%	0.6%	-3.7%	3.9%	1.8%	-0.3%			
PMC: Amplified Retail Sales		-1.4%	4.5%	-4.2%	1.4%	-2.0%	1.1%	-0.8%	4.5%	4.5%	0.2%			
PMS: Volume of Services		-7.8%	10.9%	9.5%	9.5%	1.6%	1.7%	11.3%	10.9%	13.6%	6.2%			

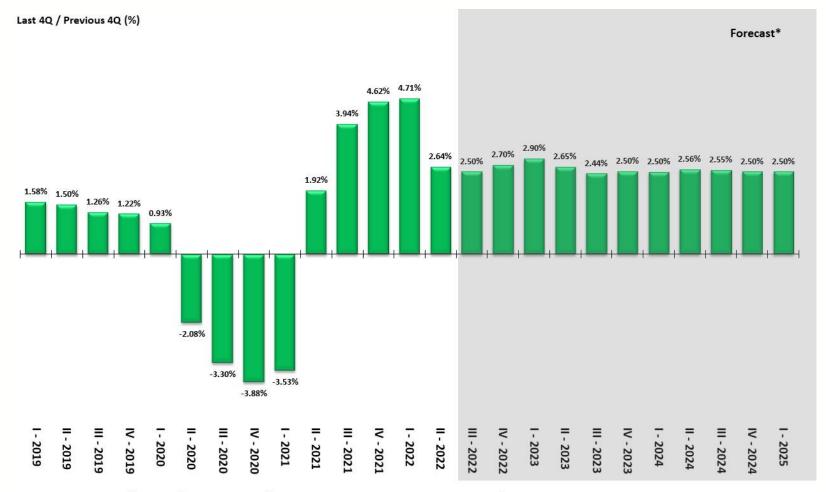
LSPA: Systematic Survey of Agricultural Production (IBGE)

PIM: Monthly Survey of Industry (IBGE)
PMC: Monthly Survey of Trade (IBGE)
PMS: Monthly Survey of Services (IBGE)

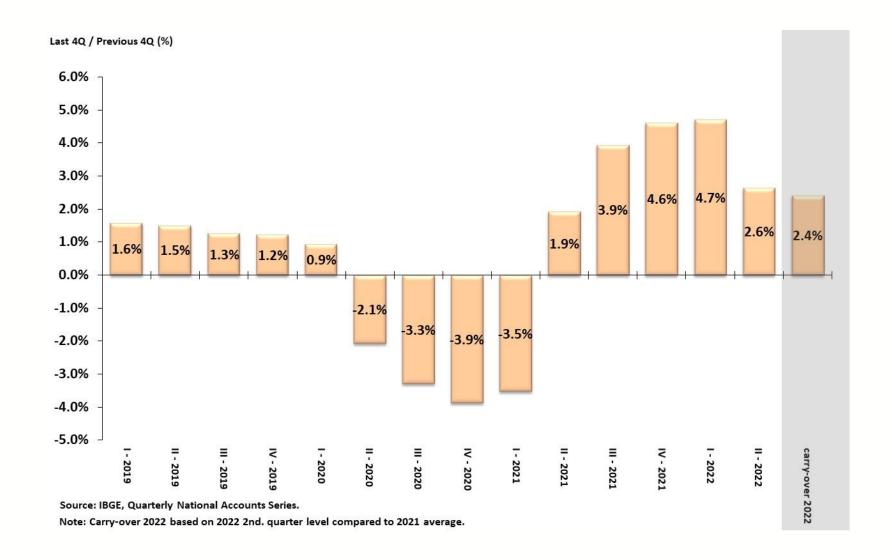
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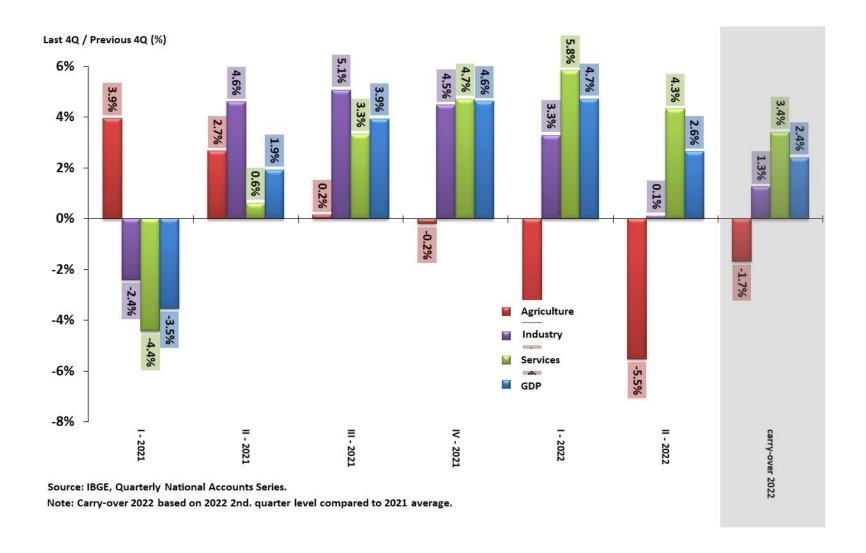


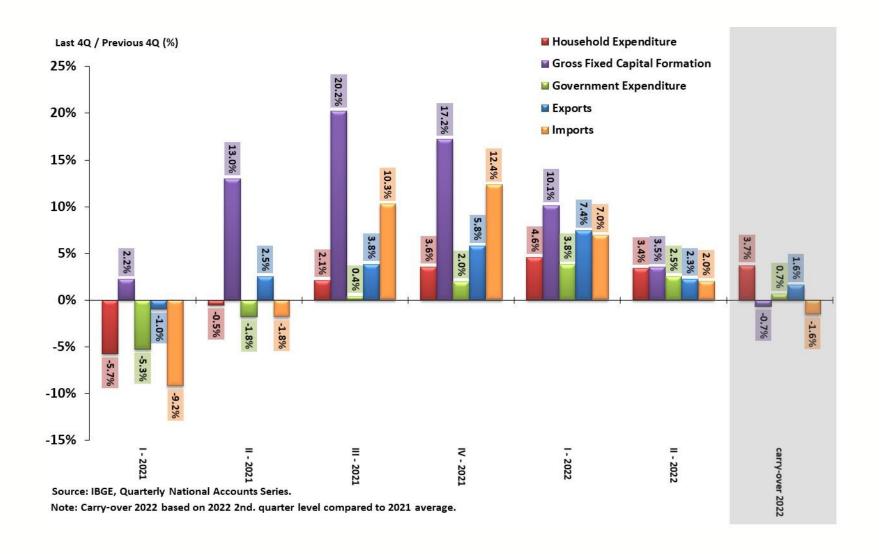
Source: IBGE, Quarterly National Accounts Series *Forecast: Macroeconomic Parameters, September-2022.



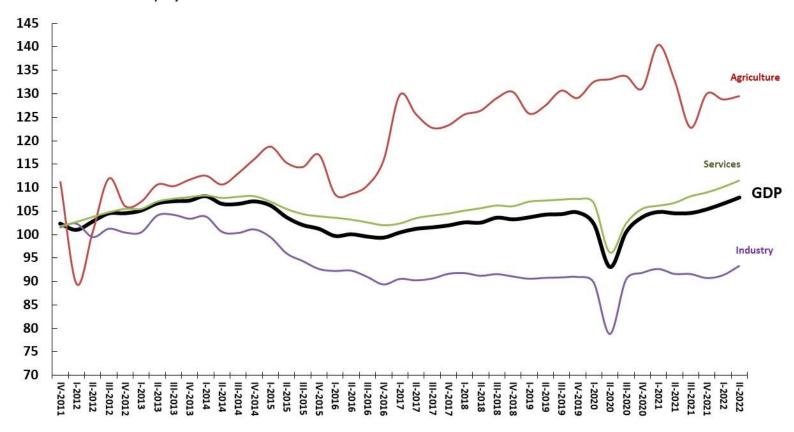
Source: IBGE, Quarterly National Accounts Series *Forecast: Macroeconomic Parameters, September-2022.

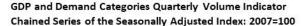


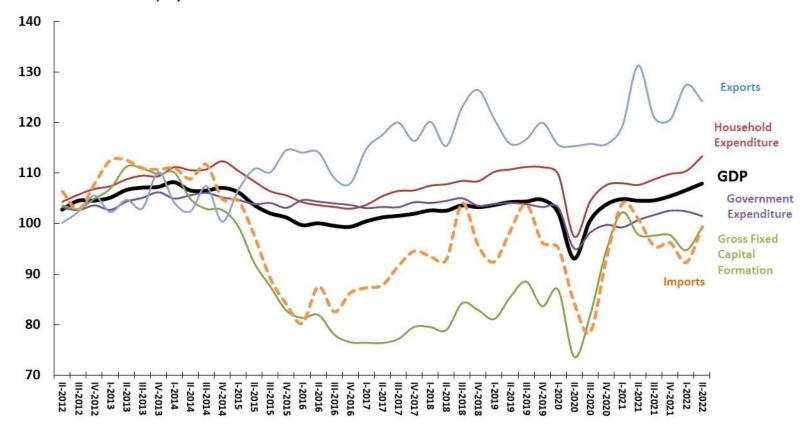


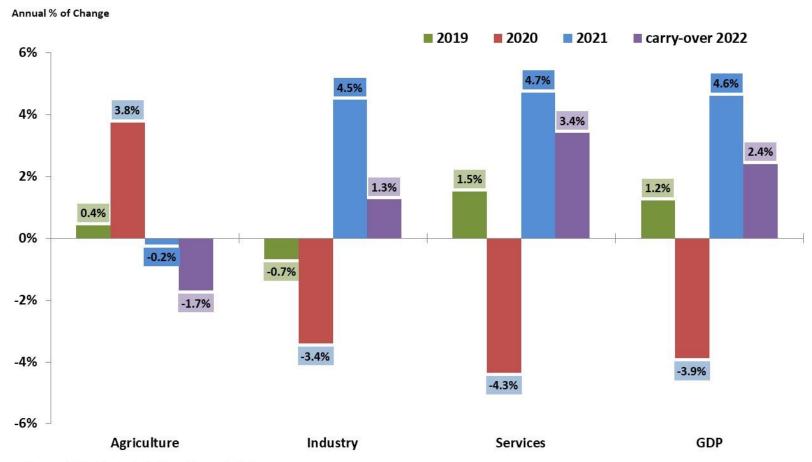


GDP and Economic Sectors Quarterly Volume Indicator Chained Series of the Seasonally Adjusted Index: 2007=100



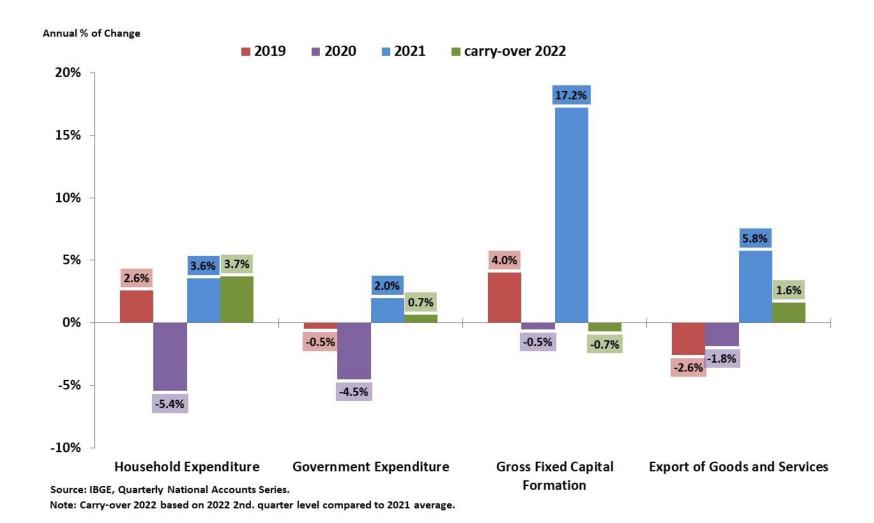


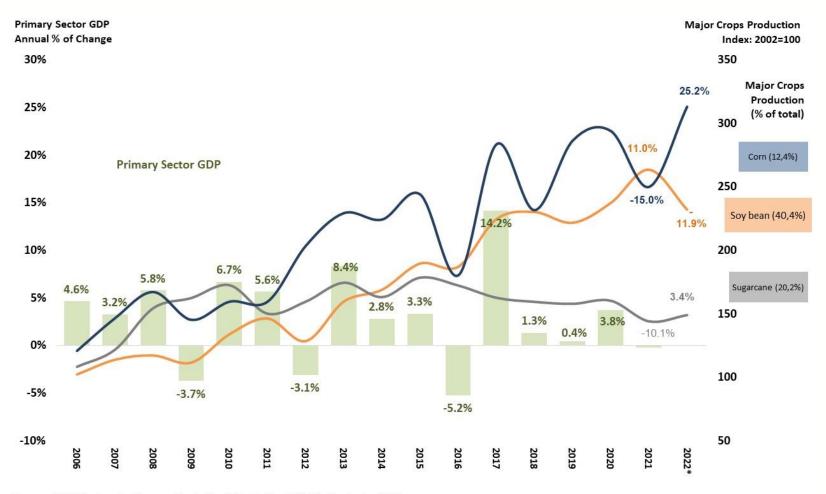




Source: IBGE, Quarterly National Accounts Series.

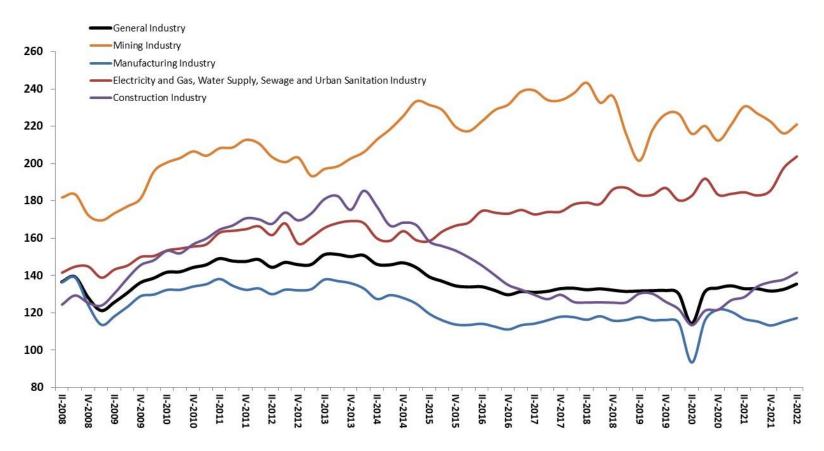
Note: Carry-over 2022 based on 2022 2nd. quarter level compared to 2021 average.





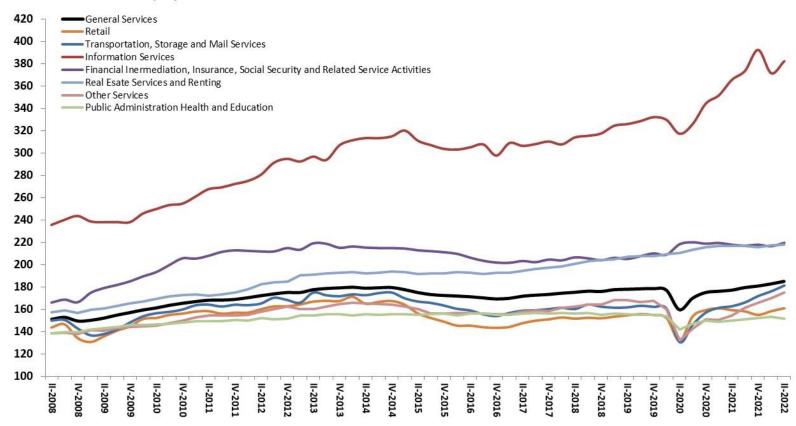
Source: IBGE, Systematic Survey of Agricultural Production (LSPA) - September/2022.

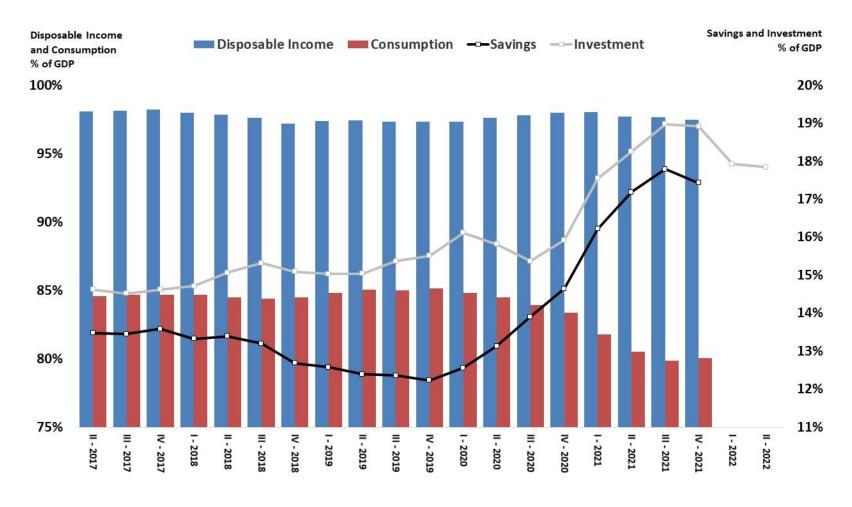
Industrial Production Indicators Chained Series of the Seasonally Adjusted Index: 1995=100



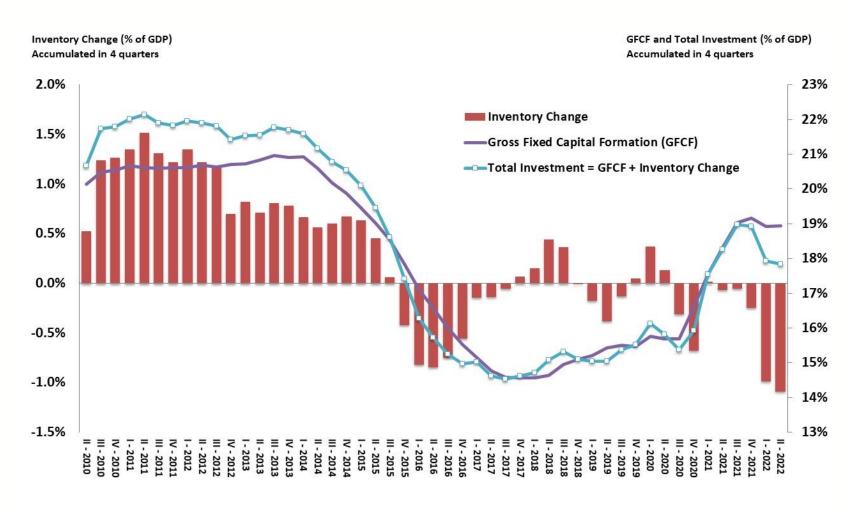
Services Provision Indicators

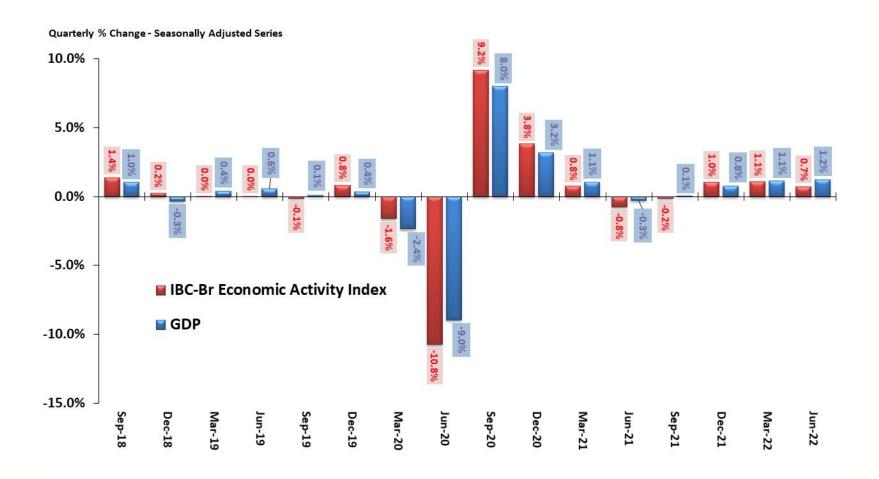
Chained Series of the Seasonally Adjusted Index: 1995=100





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



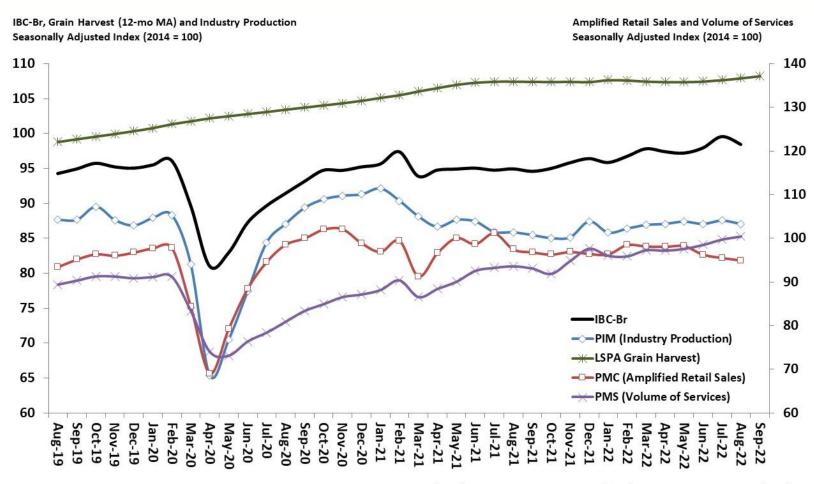


Sources: IBGE and Central Bank of Brazil.

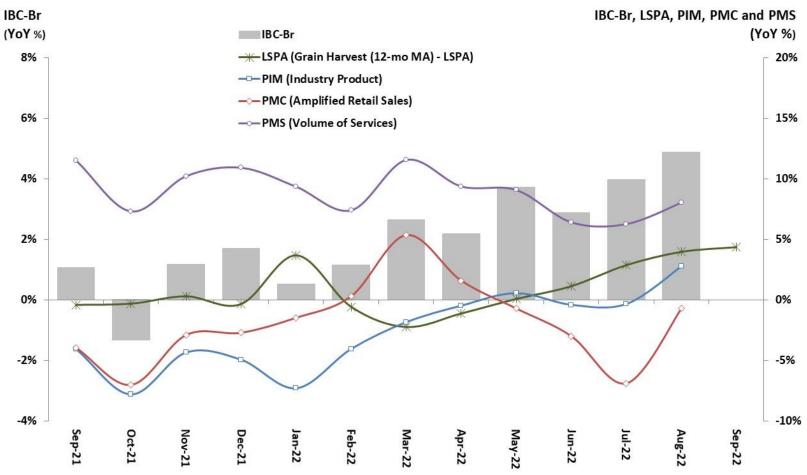
IBC-Br Economic Activity Index August-22 %change	2020	2021	Jul/22- Jul/21	Aug/22- Aug/21	Jul/22 - Jun/22 (sea sonally adjusted)	Aug/22 - Jul/22 (seasonally adjusted)	Year-To-Date	Jul/22 accum. in 12- months	12-months	carry-over 2022
IBC-Br Economic Activity Index	-4.0%	4.54%	4.0%	4.9%	1.7%	-1.1%	2.8%	2.0%	2.1%	2.8%
Systematic Survey of Agricultural Production (IBGE) September-22 %change	2020	2021	Aug/22- Aug/21	Sep/22- Sep/21	Aug/22 - Jul/22 (seasonally adjusted)	Sep/22 - Aug/22 (seasonally adjusted)	Year-To-Date	Aug/22 accum. in 12-months	Sep/22 accum. in 12-months	carry-over 2022
Grain Harvest	5.6%	3.3%	4.0%	4.4%	-0.7%	0.1%	4.4%	4.0%	4.4%	1.9%
Industry Production (IBGE) August-22 %change	2020	2021	Jul/22- Jul/21	Aug/22- Aug/21	Jul/22 - Jun/22 (seasonally adjusted)	Aug/22 - Jul/22 (seasonally adjusted)	Year-To-Date	Jul/22 accum. in 12- months	Aug/22 accum. in 12-months	carry-over 2022
General Industry	-4.5%	3.9%	-0.4%	2.8%	0.6%	-0.6%	-1.3%	-3.0%	-2.7%	-0.4%
Mining Industry (weight 11,2%)	-3.4%	1.0%	-3.5%	-7.3%	2.4%	-3.6%	-3.8%	-1.6%	-2.1%	-3.7%
Manufacturing Industry (weight 88,8%)	-4.6%	4.3%	0.1%	4.1%	0.4%	-0.2%	-1.0%	-3.2%	-2.8%	0.3%
Food (weight 13,9%)	4.2%	-8.2%	3.0%	3.2%	4.6%	-2.6%	0.8%	-4.3%	-3.2%	2.2%
Petroleum refinement and alcohol production (weight 10,3%)	4.4%	-0.7%	9.0%	5.0%	1.8%	-4.2%	9.4%	5.3%	6.2%	6.9%
Motor vehicles (weight 10,1%)	-27.9%	20.1%	1.0%	19.3%	-6.0%	10.8%	-1.6%	-6.0%	-4.8%	3.8%
Capital Goods	-9.6%	27.8%	-6.3%	4.0%	-3.5%	5.2%	-1.2%	3.5%	1.7%	0.0%
Intermediate Goods	-1.0%	3.3%	0.3%	2.1%	1.8%	-1.4%	-1.1%	-2.5%	-2.2%	-0.2%
Durable Consumer Goods	-19.8%	2.0%	0.1%	13.6%	-6.7%	6.1%	-7.2%	-15.4%	-12.9%	-2.2%
Semi and Non-Durable Consumer Goods	-6.0%	-0.4%	0.2%	1.9%	1.5%	-1.4%	-0.6%	-3.3%	-3.0%	0.0%
Typical Construction Inputs	4.6%	-14.1%	-5.8%	-4.3%	4.5%	2.8%	-7.6%	-7.4%	-7.9%	-15.0%
Retail Sales (IBGE) August-22 %change	2020	2021	Jul/22- Jul/21	Aug/22- Aug/21	Jul/22 - Jun/22 (seasonally adjusted)	Aug/22 - Jul/22 (seasonally adjusted)	Year-To-Date	Jul/22 accum. in 12- months	Aug/22 accum. in 12-months	carry-over 2022
Retail Sales	1.2%	1.4%	-5.3%	1.6%	-0.5%	-0.1%	0.5%	-1.8%	-1.4%	0.8%
Amplified Retail Sales	-1.4%	4.5%	-6.9%	-0.7%	-0.8%	-0.6%	-0.8%	-2.0%	-2.0%	-1.1%
Vehicles, Motorcycles, Parts and Accessories	-13.6%	14.9%	-8.5%	-4.1%	-2.7%	4.8%	-1.4%	0.8%	-0.9%	-1.6%
Construction Material	10.8%	4.4%	-13.7%	-7.1%	-2.0%	-0.8%	-8.2%	-8.5%	-8.6%	-8.1%
Fuel and Lubricants	-9.7%	0.3%	17.4%	30.2%	12.6%	3.6%	10.0%	1.9%	4.4%	17.2%
Hypermarkets, Supermarkets, Food, Beverage and Tobacco	4.8%	-2.6%	-0.3%	1.4%	-0.7%	0.2%	0.5%	-1.0%	-0.4%	0.7%
Textiles, Apparel and Footwear	-22.5%	13.7%	-16.2%	-5.6%	-13.0%	13.0%	8.5%	4.8%	4.2%	3.8%
Furniture and Household Appliances	10.6%	-7.0%	-14.5%	-8.5%	-3.3%	1.0%	-9.9%	-15.3%	-14.3%	-8.4%
Volume of Services (IBGE) August-22 %change	2020	2021	Jul/22- Jul/21	Aug/22- Aug/21	Jul/22 - Jun/22 (seasonally adjusted)	Aug/22 - Jul/22 (seasonally adjusted)	Year-To-Date	Jul/22 accum. in 12- months	Aug/22 accum. in 12-months	carry-over 2022
Volume of Services	-7.8%	10.9%	6.3%	8.0%	1.3%	0.7%	8.4%	9.6%	8.9%	7.6%
Services Rendered to Families	-35.6%	18.2%	22.6%	22.0%	0.6%	1.0%	32.2%	31.1%	29.5%	24.2%
Information and Communication Services	-1.6%	9.5%	2.1%	2.9%	1.1%	0.6%	2.8%	5.9%	5.1%	2.5%
Professional, Administrative and Complementary Services	-11.4%	7.4%	4.1%	7.3%	-1.1%	0.0%	7.7%	7.9%	7.5%	7.3%
Transportation, Support Activities for Transportation and Mailing Activities	-7.6%	15.2%	12.9%	13.6%	2.4%	-0.2%	13.8%	14.1%	13.6%	13.1%
Other Services	6.8%	5.0%	-12.1%	-2.4%	-5.0%	6.7%	-5.0%	-3.5%	-4.6%	-2.4%

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	18.62	-0.60	9.63	4.01	12.67	-3.15					
2023	3.17	1.06	7.25	3.14	4.60	11.67					
2024	3.31	1.81	5.96	3.63	3.25	12.33					
2025	4.40	2.08	5.93	3.44	2.73	9.32					
2026	4.73	2.26	5.91	3.29	2.46	8.91					

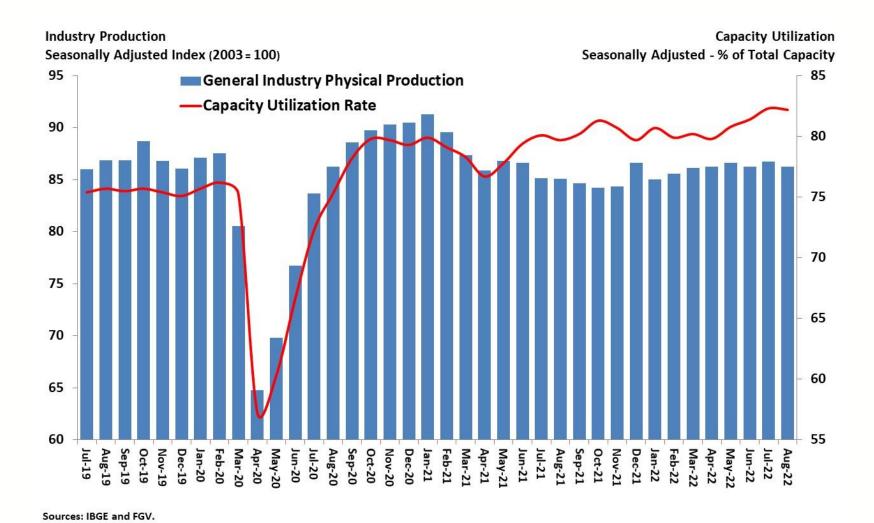
Source: SPE/ME. Macroeconomic Parameters, September-2022.

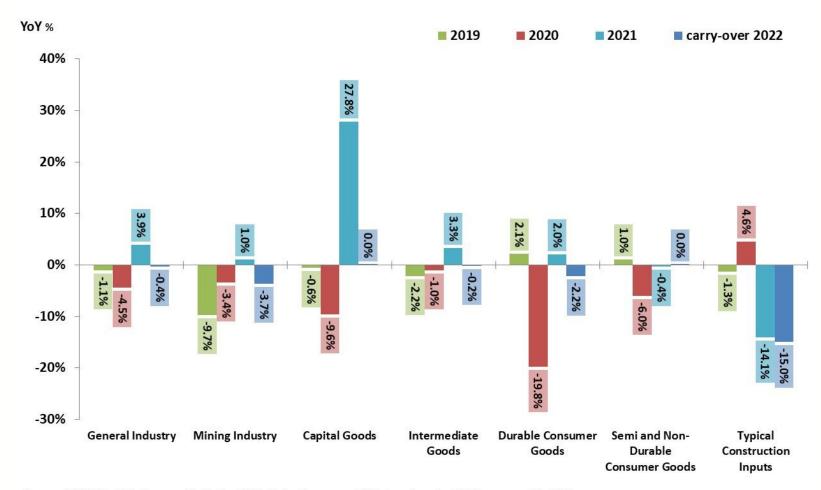


Sources: Central Bank of Brazil and IBGE: Systematic Survey of Agricultural Production (LSPA), Monthly Survey of Industry (PIM), Monthly Survey of Trade (PMC), and Monthly Survey of Services (PMS).

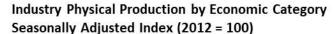


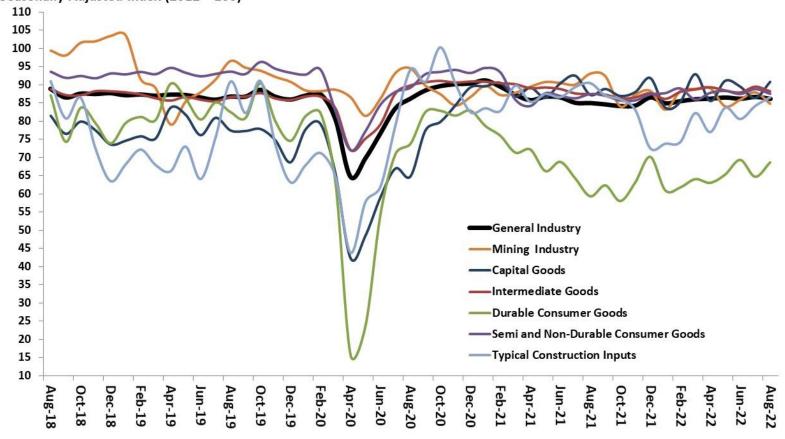
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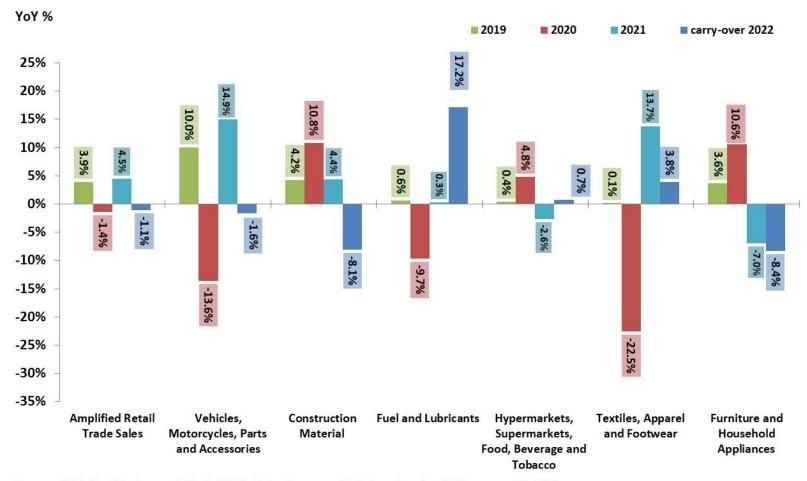


Source: IBGE, Monthly Survey of Industry (PIM). Note: Carry over 2022: based on Aug/2022 compared to 2021 average.

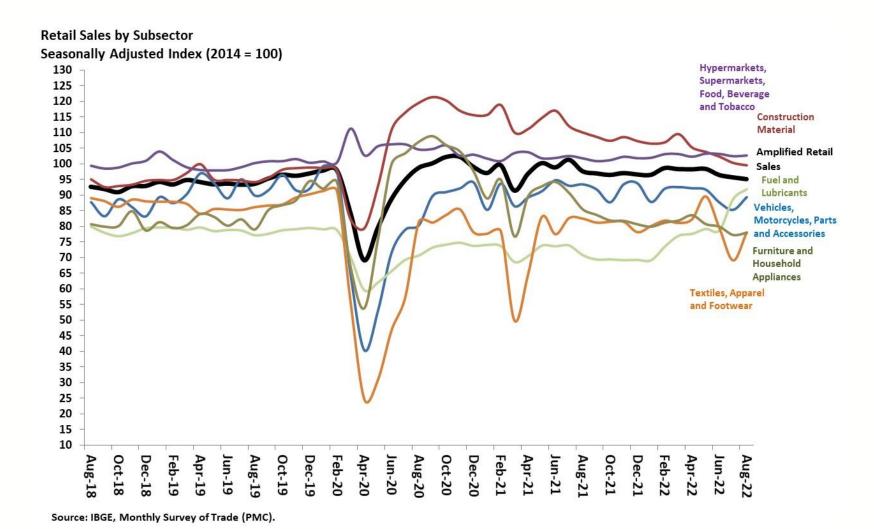


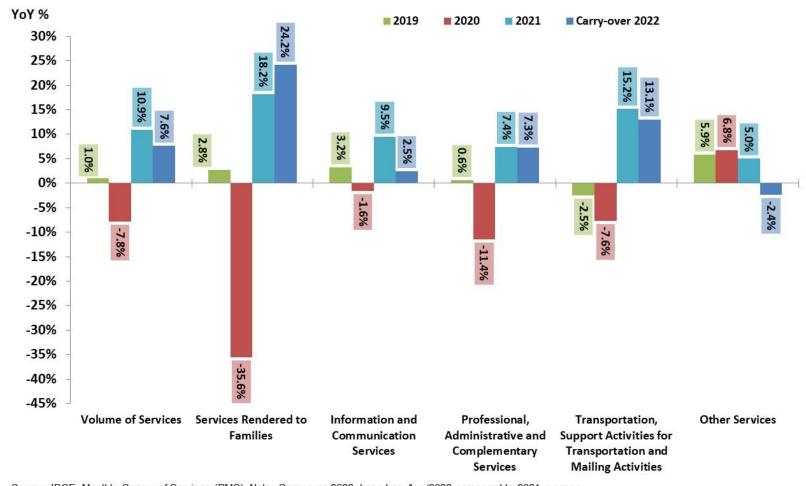


Source: IBGE

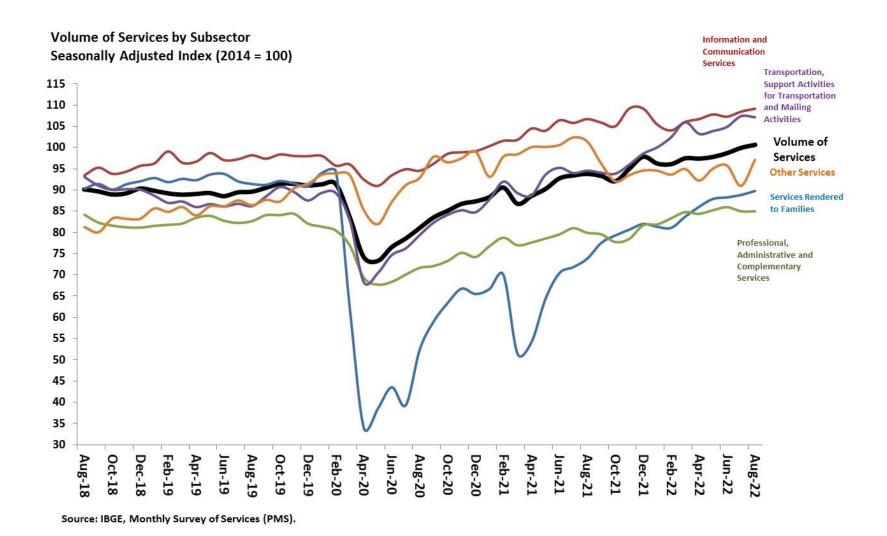


Source: IBGE, Monthly Survey of Trade (PMC). Note: Carry over 2022: based on Aug/2022 compared to 2021 average.

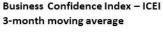


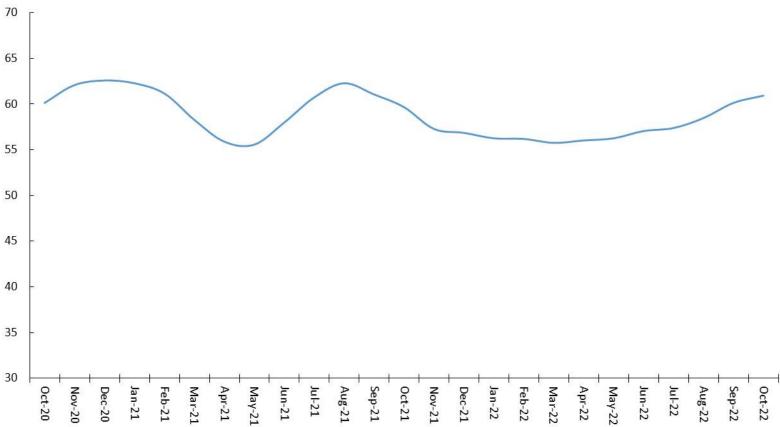


Source: IBGE, Monthly Survey of Services (PMS). Note: Carry over 2022: based on Aug/2022 compared to 2021 average.

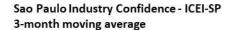


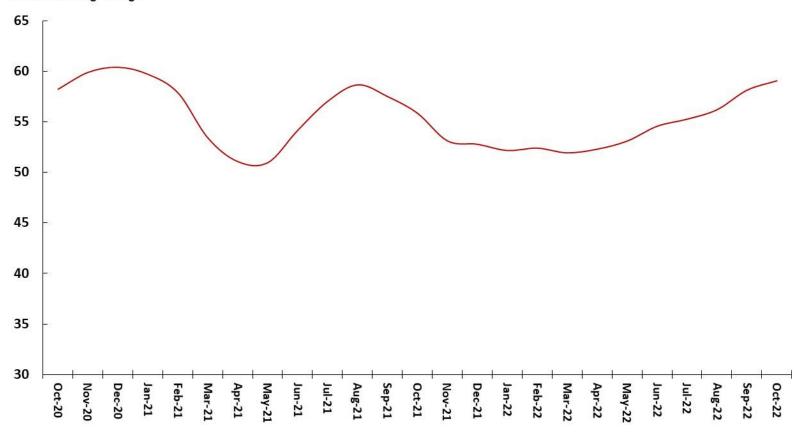
	Last update (m/y)	Annual change % (y-1)	change % (m-1 / y) / (m-1 / y-1)	change % (m / y) / (m / y-1)	change % (m- 1/y) / (m-2/y) (seasonally adjusted)	change % (m/y) / (m-1/y) (seasonally adjusted)	Year-To-Date	(m-1 / y) accum. in 12- months	(m / y) accum. in 12- months	carry-over	
Industry Indicators (CNI)											
Real Sales Revenue	Aug-22	-0.1%	0.8%	7.5%	1.1%	0.2%	-0.5%	-3.7%	-3.1%	1.8%	2022
Working Hours in Production	Aug-22	-2.1%	3.2%	9.2%	-0.1%	3.5%	3.7%	3.1%	3.3%	4.6%	2022
Capacity Utilization - UCI	Aug-22	0.4%	-2.1%	-3.2%	-0.1%	-0.4%	-0.6%	0.7%	0.0%	-0.9%	2022
Industry Inventories (CNI) - Final Goods - planned x realize	Oct-22	1.0%	2.9%	5.8%	1.0%	3.3%	4.3%	6.8%	6.7%	3.6%	2022
Business Confidence - ICEI (CNI)	Oct-22	19.5%	8.3%	4.2%	7.3%	-4.2%	-1.8%	-4.2%	-3.4%	-0.3%	2022
Sao Paulo Industry Confidence - ICEI-SP (FIESP)	Oct-22	25.9%	14.4%	7.7%	11.0%	-5.2%	0.5%	-3.6%	-2.2%	2.3%	2022
Industry Capacity Utilization - NUCI (FGV)	Sep-22	0.7%	3.1%	0.7%	-0.1%	-1.7%	2.4%	2.2%	2.1%	1.8%	2022
Industry Confidence (FGV)	Sep-22	12.5%	-5.9%	-6.2%	0.8%	-0.8%	-7.8%	-7.8%	-8.3%	-6.4%	2022
Consumer Confidence (FGV)	Sep-22	13.1%	1.7%	17.0%	5.2%	6.5%	2.5%	-2.1%	0.1%	6.7%	2022
Services Confidence (FGV)	Sep-22	14.6%	1.4%	4.6%	-0.2%	1.0%	8.0%	9.7%	9.1%	7.1%	2022
Construction Confidence (FGV)	Sep-22	8.5%	1.9%	5.5%	1.4%	3.6%	5.0%	4.2%	4.2%	5.2%	2022
Retail Confidence (FGV)	Sep-22	15.2%	-1.5%	7.7%	4.5%	2.4%	0.8%	-1.6%	-0.5%	4.2%	2022
Supermarket Sector Total Retail Sales (ABRAS)	Jul-22	1.3%	11.9%	15.0%	1.5%	3.8%	7.7%	3.6%	4.5%	10.0%	2022
Natural Gas and Oil Production (ANP)	Jul-22	4.5%	-2.5%	#VALOR!	5.7%	#VALOR!	0.6%	0.4%	0.0%	-1.2%	2022
Electric Energy Consumption - Total (EPE)	Aug-22	1.2%	2.5%	3.0%	0.5%	1.3%	1.5%	1.5%	1.4%	2.1%	2022
Industry Consumption (EPE)	Aug-22	1.3%	1.4%	2.9%	0.3%	1.3%	0.3%	1.4%	1.2%	1.2%	2022
Electric Energy System Supply (ONS)	Sep-22	1.5%	0.3%	-5.0%	2.3%	-5.6%	0.2%	0.6%	0.0%	-0.7%	2022
Corrugated Fiberboard Sales (ABPO)	Aug-22	7.9%	1.1%	6.6%	0.0%	-1.6%	-3.5%	-5.3%	-4.4%	-1.2%	2022
Heavy Vehicles Road Traffic (ABCR)	Sep-22	8.6%	1.5%	3.6%	3.1%	-0.7%	1.8%	1.8%	1.6%	6.2%	2022
Total Vehicles Production (ANFAVEA)	Sep-22	15.9%	43.9%	19.3%	0.1%	-7.3%	0.7%	-2.7%	0.7%	0.2%	2022
Car Production	Sep-22	8.8%	50.4%	15.0%	-1.6%	-12.4%	1.1%	-2.2%	1.1%	1.0%	2022
Commercial Vehicles Production	Sep-22	79.7%	15.1%	8.3%	28.8%	-8.9%	4.0%	6.3%	4.0%	3.8%	2022
Total Vehicles Exports (ANFAVEA)	Sep-22	32.4%	58.9%	20.7%	10.6%	-26.8%	17.4%	14.2%	17.4%	15.3%	2022
Total Vehicles Sales/Licensing (FENABRAVE)	Sep-22	6.0%	20.7%	25.1%	5.9%	-3.5%	-9.6%	-13.3%	-9.6%	-9.8%	2022
Domestic Vehicles Sales/Licensing	Sep-22	6.4%	23.5%	26.8%	11.4%	-3.0%	-12.2%	-16.2%	-12.2%	-13.0%	2022
Imported Vehicles Sales/Licensing	Sep-22	3.5%	3.3%	14.9%	7.5%	6.8%	12.4%	12.3%	12.4%	12.2%	2022



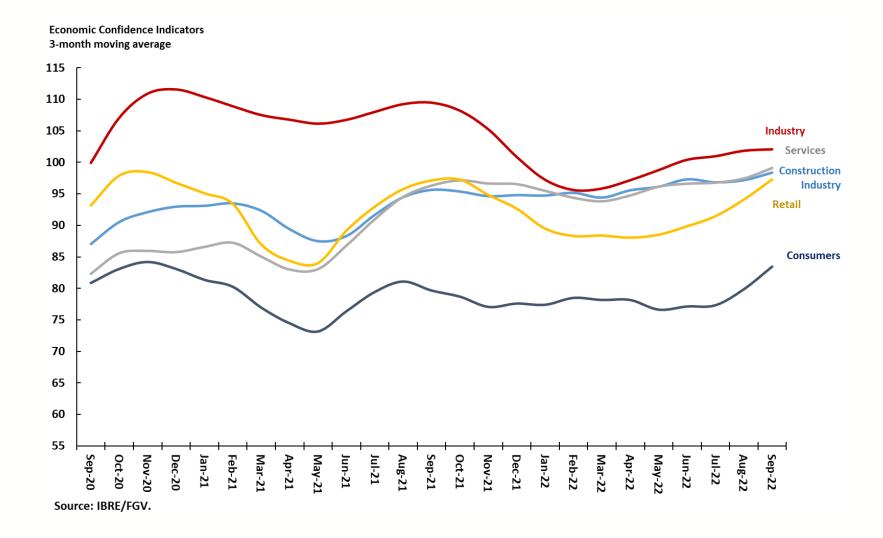


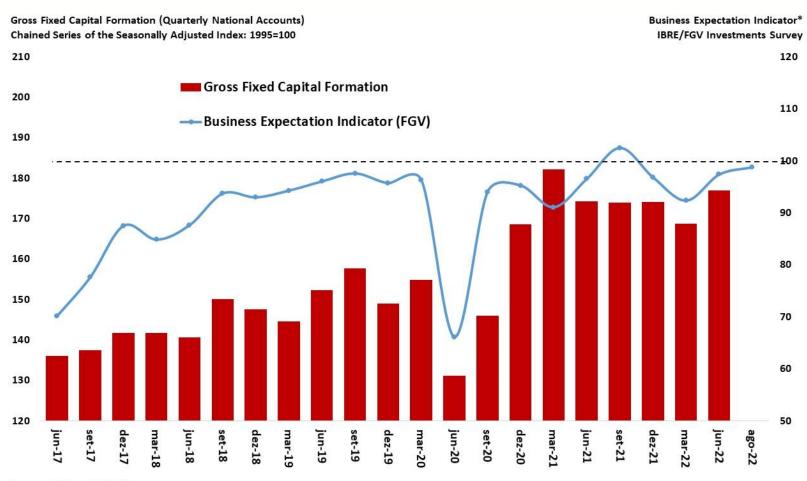
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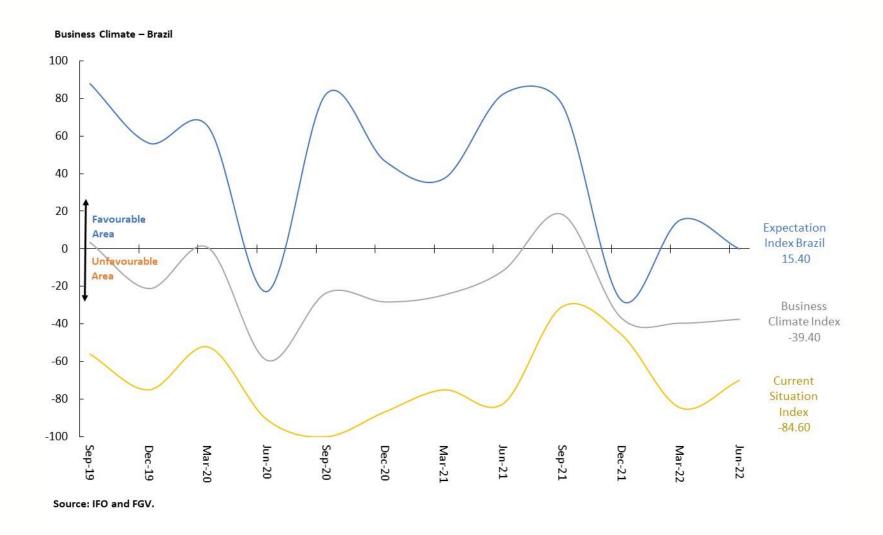
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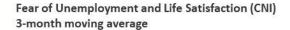


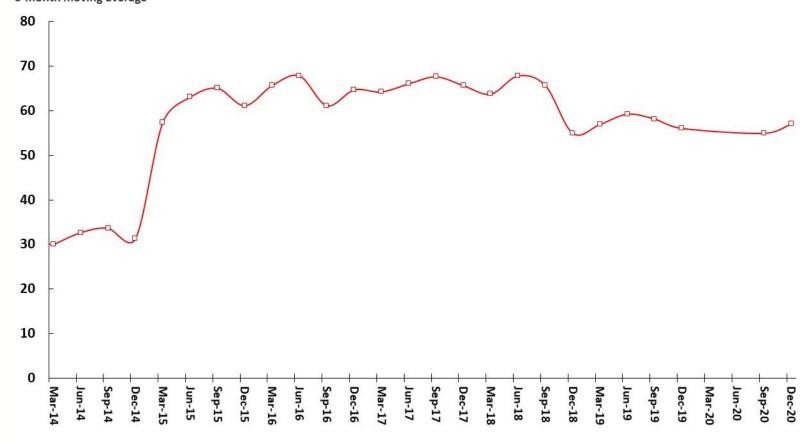


Source: IBGE e IBRE/FGV.

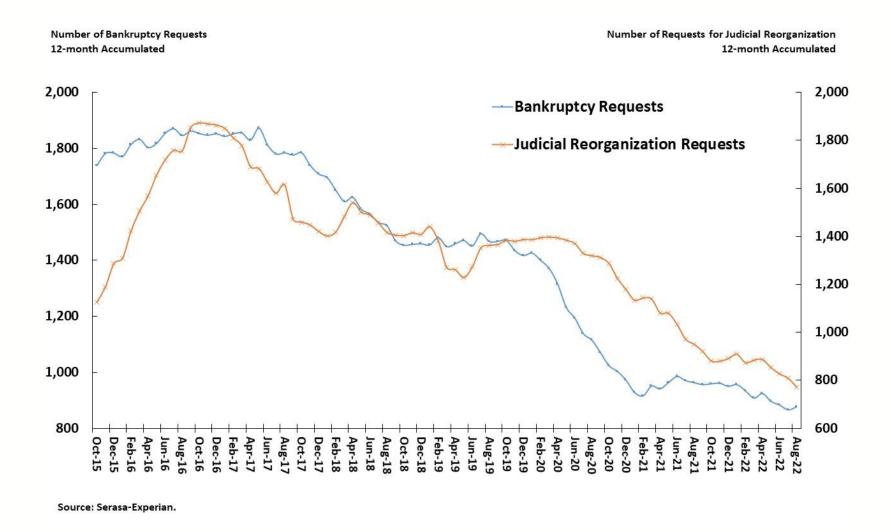
^{*}Note: Measures the difference between positive and negative answers, plus 100.

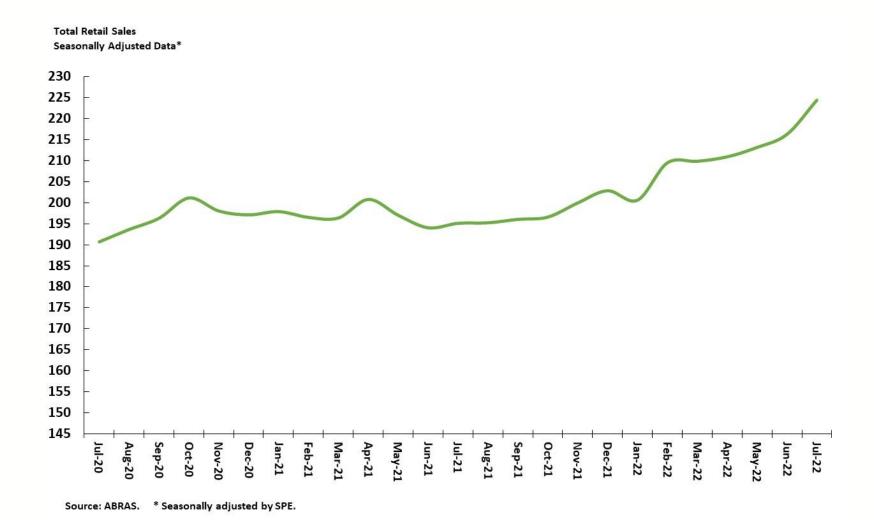


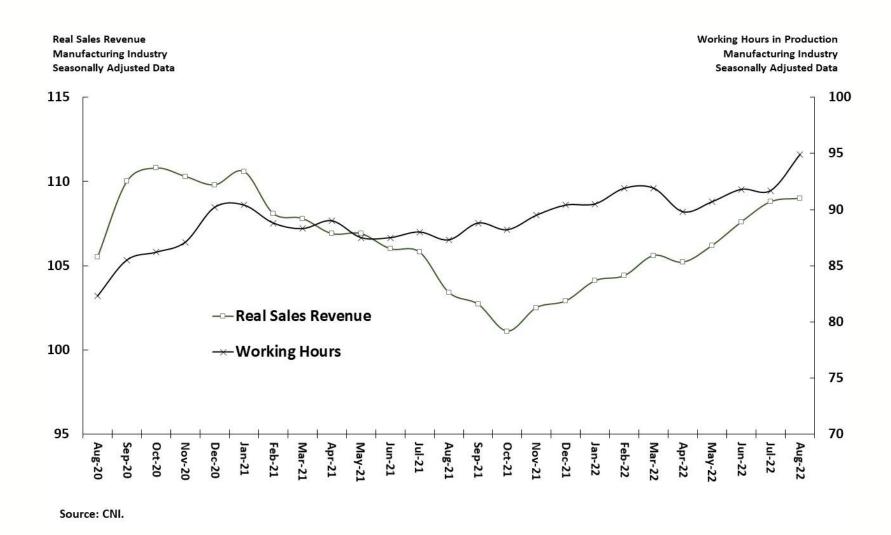


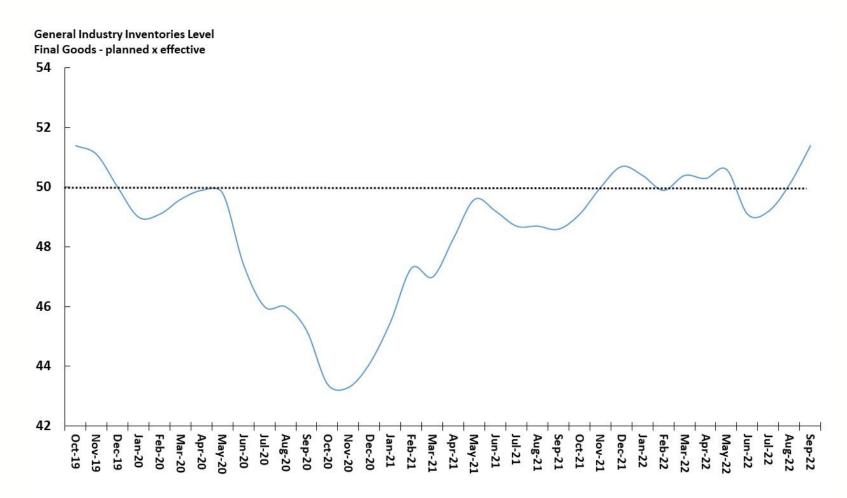


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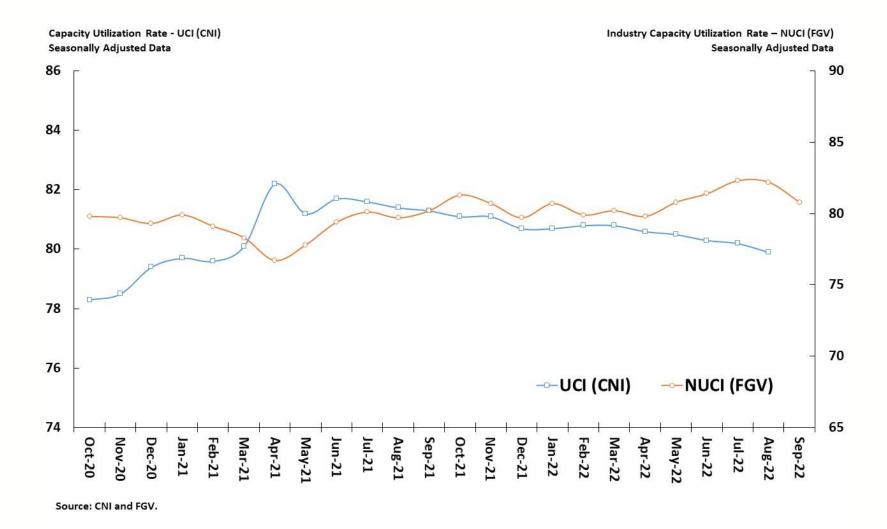


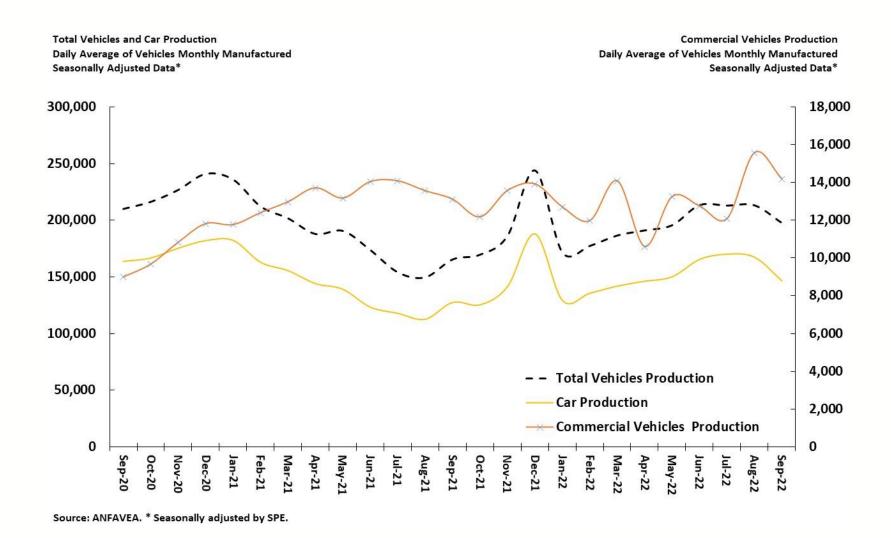


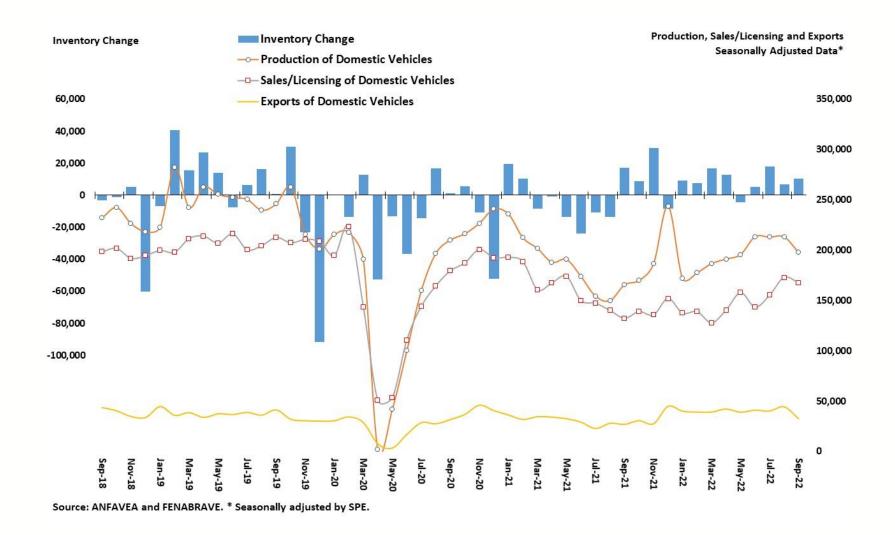


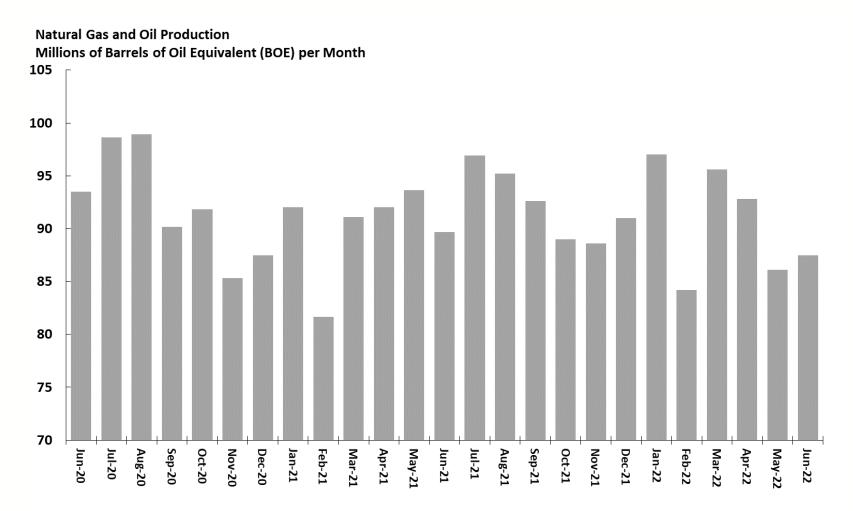


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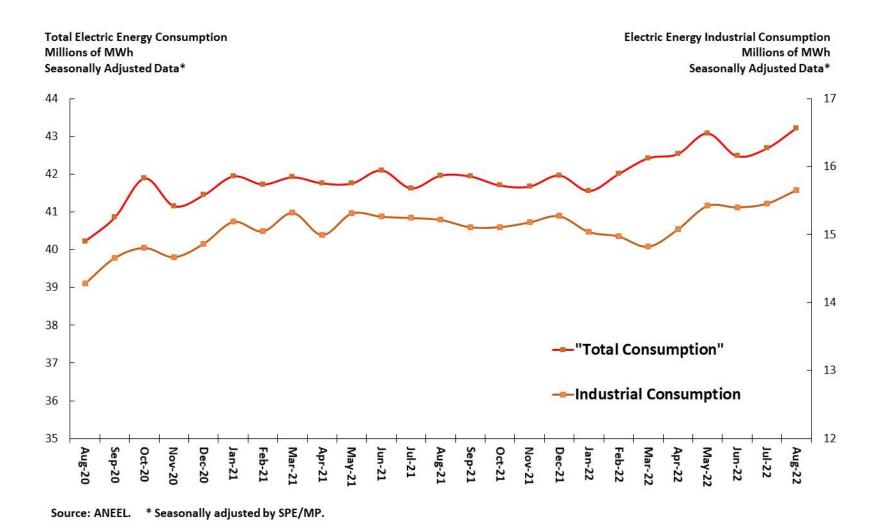


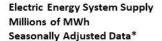


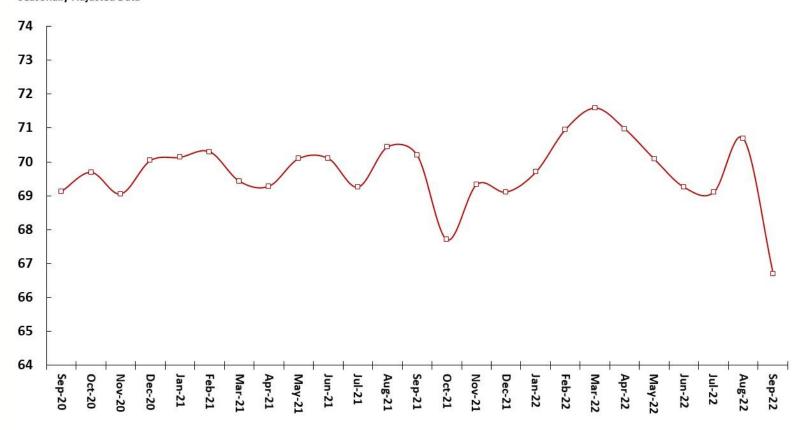




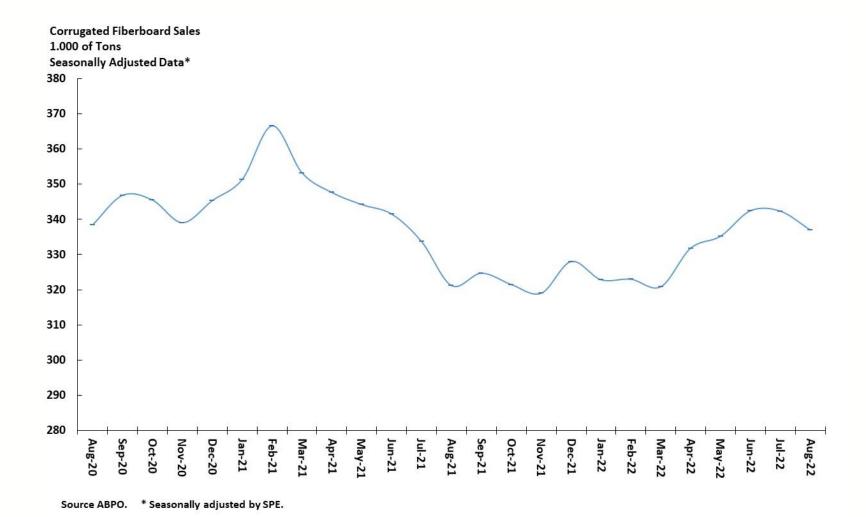
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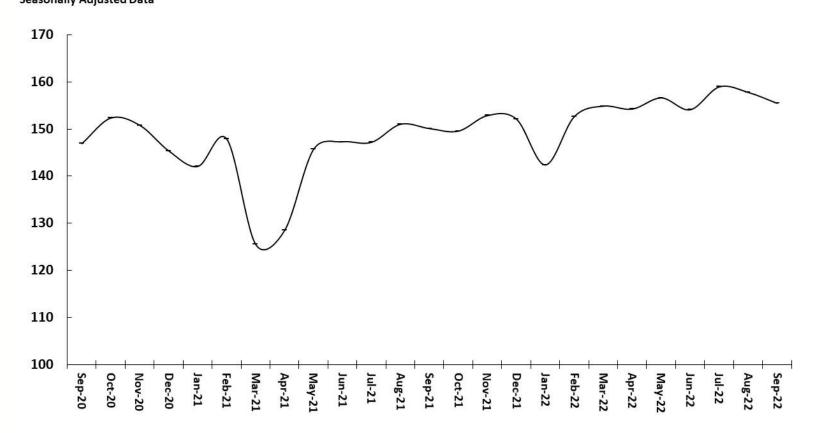




Source: ONS. * Seasonally adjusted by SPE.



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



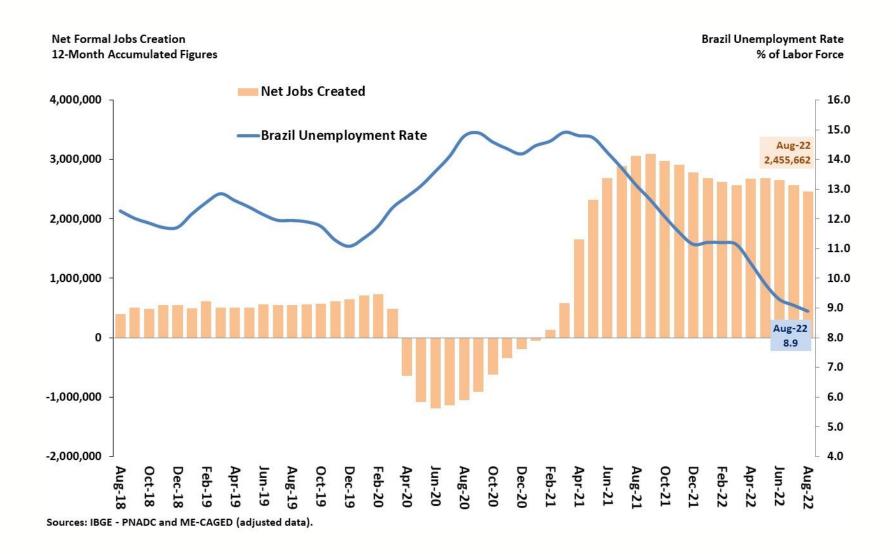
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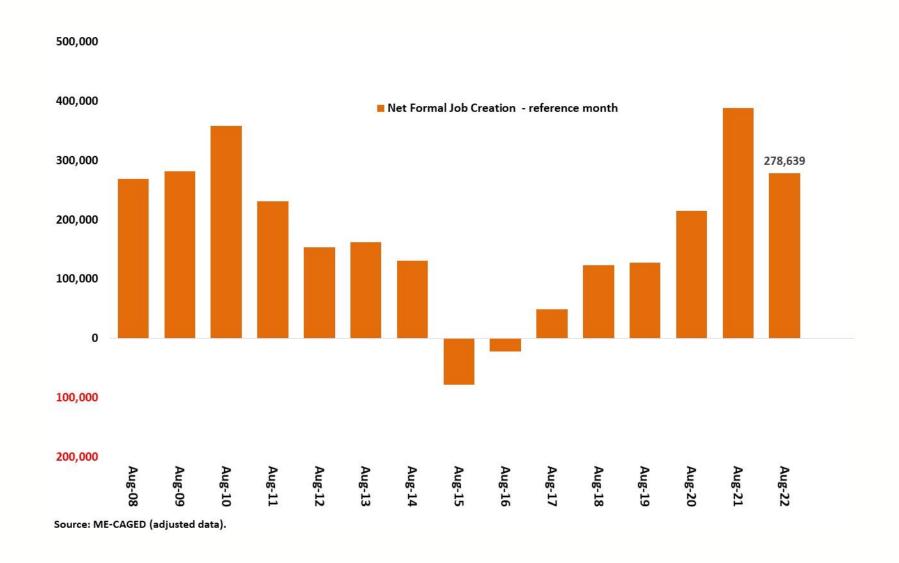
Labor market

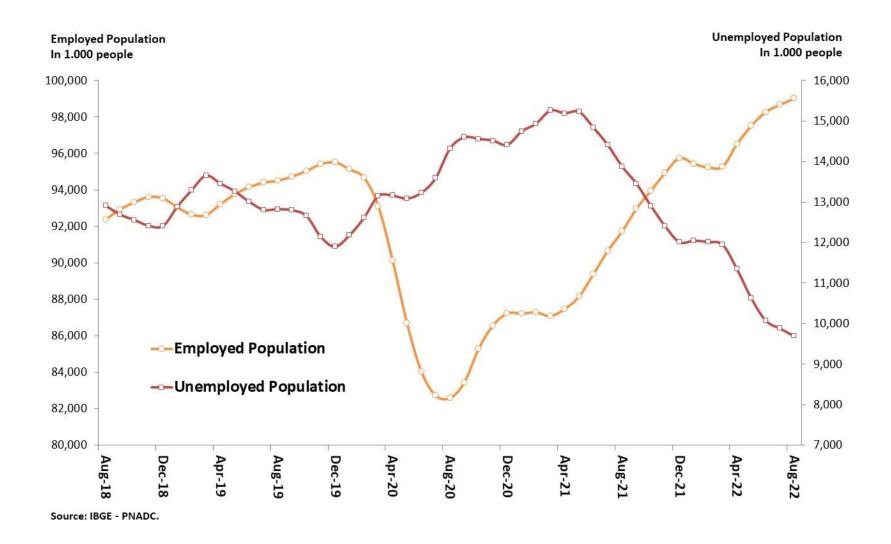
										BCB/Focus:	10/14/22	
Employment Indicators August-2: Brasil (PNADC, IBGE)	2 2020 average	2021 average	Aug/22 (12-months moving average)	Aug-22	chg.% 2021 / 2020	chg.% Jul/22- Jul/21	chg.% Aug/22- Aug/21	chg.% YTD 2020 / YTD 2019	chg.% Aug/22 - 2019 average	2022	2023	2024
Unemployment Rate % Labor Force	13.5	13.5	10.7	8.9	0.0 pp	-4.6 pp	-4.2 pp	-4.2 pp	-4.6 pp	9.95	10.2	10.0
Working Age Population (in thousands)	169,917	171,551	172,610	173,328	1.0%	0.9%	0.9%	0.9%	1.0%			
Labor Force (in thousands)	101,254	104,652	107,662	108,706	3.4%	3.3%	2.9%	4.4%	3.9%			
Employed Population (in thousands)	87,638	90,549	96,127	99,013	3.3%	8.8%	7.9%	9.4%	9.3%			
Unemployed Population (in thousands)	13,617	14,103	11,535	9,693	3.6%	-31.4%	-30.1%	-26.0%	-31.3%			
Average Real Earnings (PNADC, IBGE) August-2: real values (in R\$ of last month)	2020 average	2021 average	Aug/22 (12-months moving average)	Aug-22	chg.% 2021 / 2020	chg.% Jul/22- Jul/21	chg.% Aug/22- Aug/21	chg.% YTD 2020 / YTD 2019	chg.% Aug/22 - 2019 average			
Employed Population	2,934	2,760	2,639	2,713	-5.9%	-2.9%	-0.6%	-6.4%	-1.7%			
Formal Contract	2,730	2,608	2,532	2,578	-4.5%	-3.1%	-1.0%	-4.3%	-1.2%			
Informal Contract	1,866	1,761	1,720	1,791	-5.6%	-0.1%	1.8%	-3.4%	1.7%			
Self-employed	2,133	2,082	2,064	2,116	-2.4%	1.8%	1.9%	-1.2%	1.6%			
Public Sector	4,267	4,120	3,765	3,756	-3.4%	-9.4%	-7.7%	-12.5%	-8.8%			
Real Wage Bill (in R\$ milions of last months)	251,047	243,955	248,520	263,549	-2.8%	6.1%	7.7%	2.8%	8.0%			
Formal Jobs (CAGED, MTE) August-2:			Jul/22	Aug/22	Year-To-		chg.% 2021	chg.% Aug/22				
Million people	2020	2021	accum. in 12- months	accum. in 12-months	Date	Aug-22	/ 2020	accum.12-m / 2019	2020 / YTD 2019			
Net Formal Jobs Creation	-193	2,776	2,565	2,456	1,853	279	-1541.8%	-11.5%	85.2%			
Job Oppenings	15,626	20,943	22,589	22,722	15,654	2,052	34.0%	8.5%	112.8%			
Job Separations	15,818	18,166	20,024	20,266	13,801	1,773	14.8%	11.6%	117.9%			

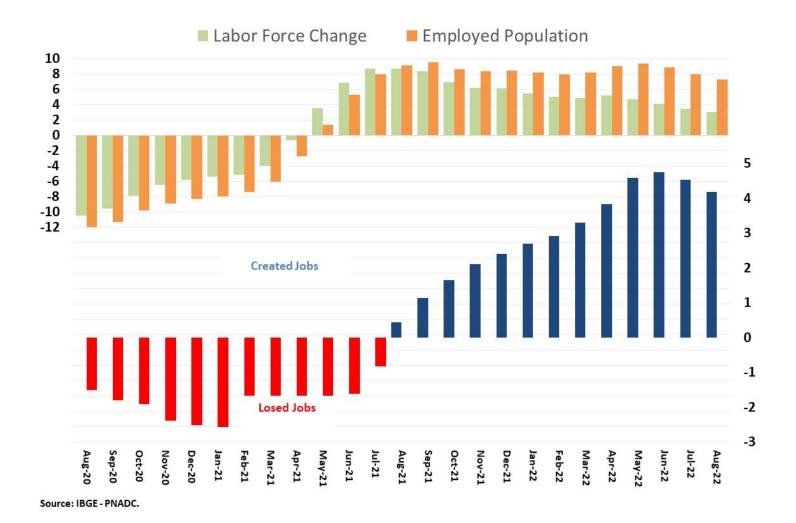
Macroeconomic Parameters									
			Formal Jobs	in Private Sec	tor				
Year	Labor Force	Employed Population	Earn	ings	Wage	Bill			
i cai		Lilipioyeu ropulation	Nominal	Real	Nominal	Real			
		Chg. % acc	um. In 4-trimeste	ers					
2016	1.32	-4.28	7.65	-1.02	3.05	-5.26			
2017	1.70	-2.76	5.88	2.35	2.98	-0.47			
2018	1.20	-0.58	3.45	-0.20	2.86	-0.77			
2019	1.77	1.43	3.35	-0.36	4.83	1.06			
2020	-5.88	-6.91	5.82	2.53	-1.53	-4.57			
2021	4.35	2.56	2.69	-5.11	5.35	-2.76			
2022	2.85	9.53	7.89	-1.52	18.22	7.98			
2023	2.19	4.02	5.97	1.26	10.21	5.33			
2024	2.18	3.10	4.70	1.13	7.95	4.27			
2025	2.18	3.00	4.22	1.19	7.34	4.22			
2026	2.18	2.99	4.23	1.20	7.35	4.22			

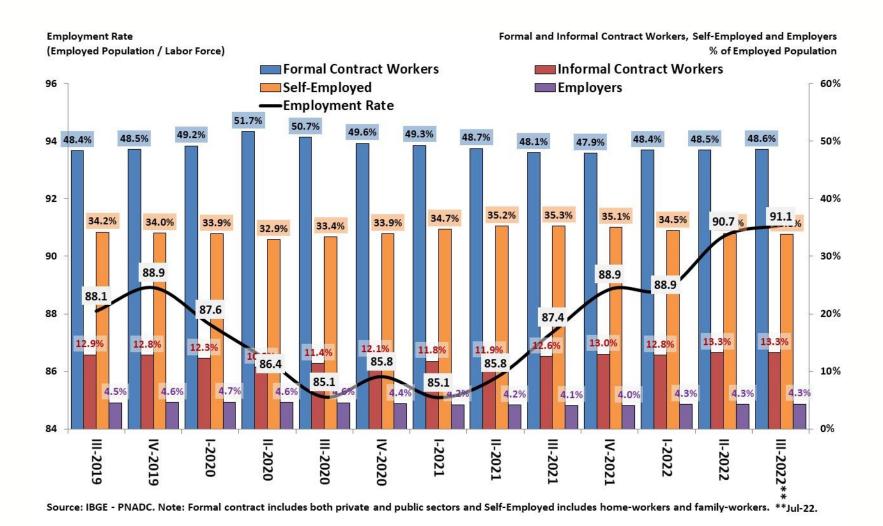
Source: SPE/ME. Macroeconomic Parameters, September-2022.



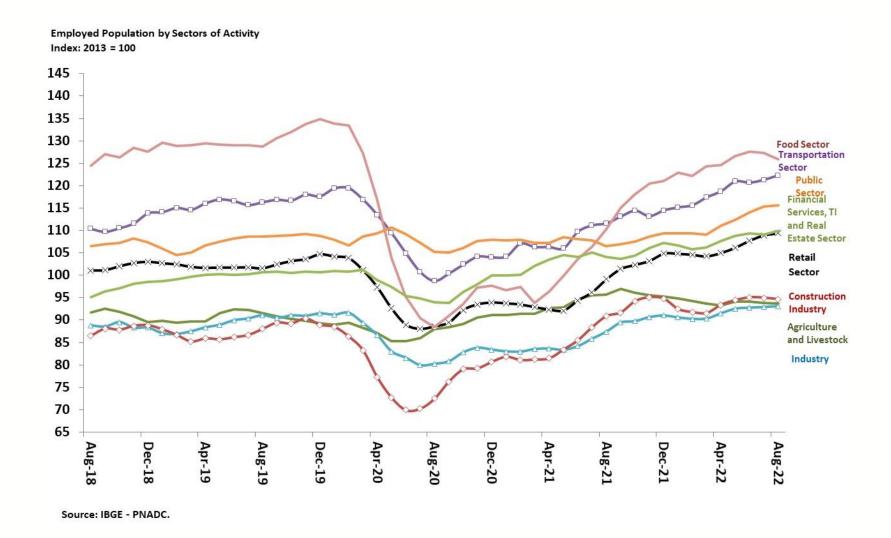


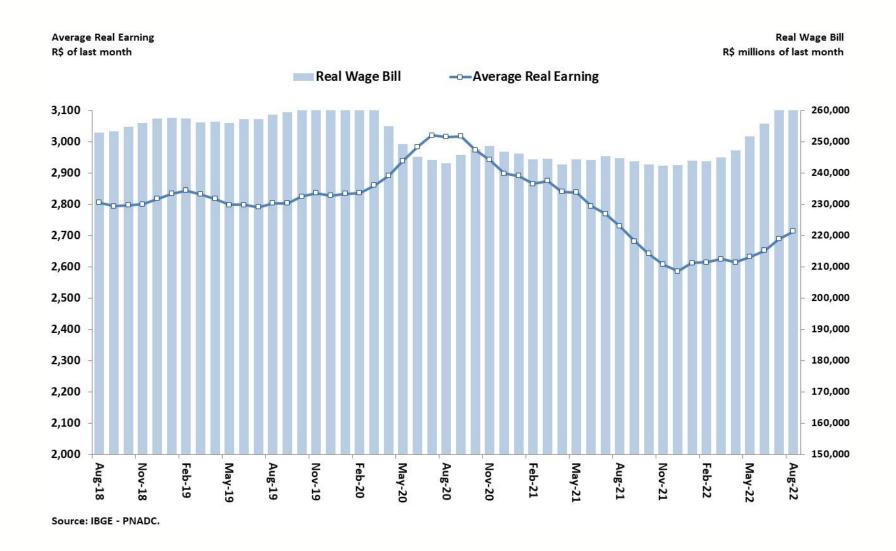






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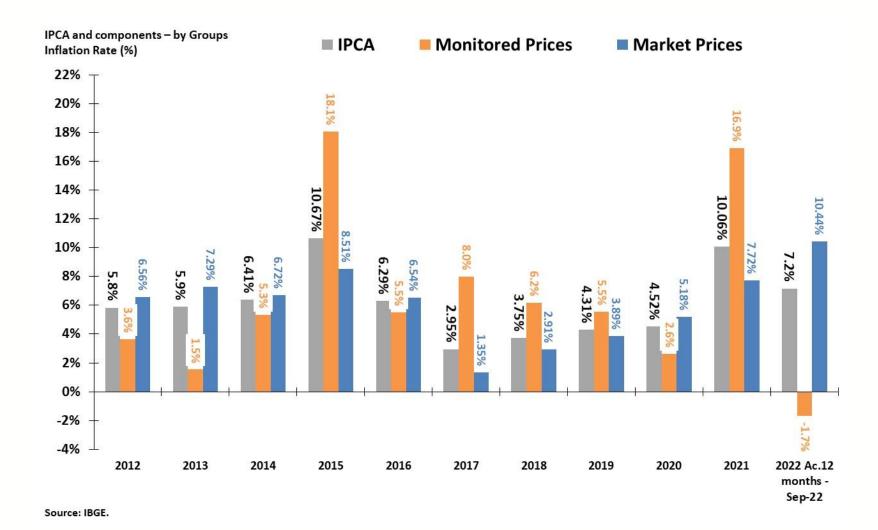


Inflation

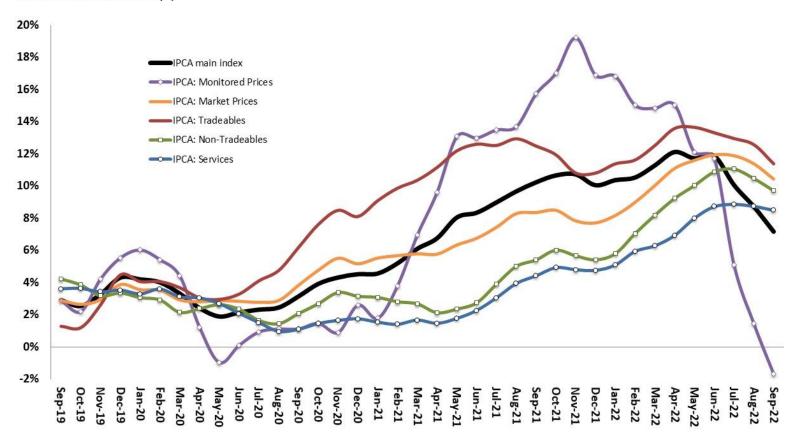
													BCB/Focus:	10/14/22	
Inflation Index	Last update (m / y)	2020	2021	Accum. In 12- months	YTD Wednesd ay	YTD Thursday	(m-2/y-1)	(m-1/y-1)	(m/y-1)	(m-2/y)	(m-1/y)	(m / y)	2022	2023	2024
IPCA Inflation Target (CMN)		4.0%	3.8%	3.5%									3.50%	3.25%	3.00%
Consumer Price Index IPCA (IBGE)	Sep-22	4.52%	10.06%	7.17%	6.90%	4.09%	0.96%	0.87%	1.16%	-0.68%	-0.36%	-0.29%	5.62%	4.97%	3.43%
IPCA core (By exclusion food and energy - Ex2)	Sep-22	2.8%	7.3%	8.4%	4.8%	5.8%	0.9%	0.5%	1.0%	0.4%	0.5%	0.3%			
Food and Beverages	Sep-22	14.1%	7.9%	11.7%	5.8%	9.5%	0.6%	1.4%	1.0%	1.3%	0.2%	-0.5%			
Housing	Sep-22	5.3%	13.0%	1.8%	9.9%	-1.0%	3.1%	0.7%	2.6%	-1.1%	0.1%	0.6%			
Household Articles	Sep-22	6.0%	12.1%	11.5%	8.1%	7.5%	0.8%	1.0%	0.9%	0.1%	0.4%	-0.1%			
Apparel	Sep-22	-1.1%	10.3%	19.1%	5.2%	13.6%	0.5%	1.0%	0.3%	0.6%	1.7%	1.8%			
Transportation	Sep-22	1.0%	21.0%	3.6%	13.5%	-2.9%	1.5%	1.5%	1.8%	-4.5%	-3.4%	-2.0%			
Health and Personal Care	Sep-22	1.5%	3.7%	9.0%	3.1%	8.4%	-0.7%	0.0%	0.4%	0.5%	1.3%	0.6%			
Personal Expenses	Sep-22	1.0%	4.7%	8.3%	2.8%	6.3%	0.5%	0.6%	0.6%	1.1%	0.5%	1.0%			
Education	Sep-22	1.1%	2.8%	7.2%	2.7%	7.1%	0.2%	0.3%	0.0%	0.1%	0.6%	0.1%			
Communication	Sep-22	3.4%	1.4%	0.1%	0.4%	-0.9%	0.1%	0.2%	0.1%	0.1%	-1.1%	-2.1%			
Consumer Price Index INPC (IBGE)	Sep-22	2.07%	3.43%	7.19%	7.21%	4.32%	1.02%	0.88%	1.20%	-0.60%	-0.31%	-0.32%			
Consumer Price Index IPCA - 15 (IBGE)	Sep-22	4.23%	10.42%	7.96%	7.02%	4.63%	0.72%	0.89%	1.14%	0.13%	-0.73%	-0.37%			
General Price Index IGP-10 (FGV)	Oct-22	-0.42%	7.92%	7.46%	16.09%	16.61%	1.18%	-0.37%	-0.31%	-0.69%	-0.90%	-1.04%			
General Price Index IGP-M (FGV)	Sep-22	-0.53%	7.55%	8.25%	16.01%	6.61%	0.78%	0.66%	-0.64%	0.21%	-0.70%	-0.95%	7.55%	4.58%	4.00%
General Price Index IGP-DI (FGV)	Sep-22	-0.42%	7.10%	7.92%	2.91%	5.52%	1.45%	-0.14%	-0.55%	-0.38%	-0.55%	-1.22%			
Consumer Price Subindex IPC/Br-DI	Sep-22	3.22%	4.34%	5.14%	0.27%	2.64%	0.92%	0.71%	1.43%	-1.19%	-0.57%	0.02%			
Construction Cost Subindex INCC-DI	Sep-22	4.25%	3.83%	10.71%	0.89%	8.65%	0.85%	0.46%	0.51%	0.86%	0.09%	0.09%			
Wholesale Price Subindex IPA-DI	Sep-22	-2.52%	8.73%	8.32%	3.92%	5.92%	1.65%	-0.42%	-1.17%	-0.32%	-0.63%	-1.68%			
IPA-DI Industry	Sep-22	1.22%	9.16%	6.34%	3.25%	6.62%	2.69%	3.93%	-0.04%	0.17%	0.67%	-1.20%			
IPA-DI Agriculture	Sep-22	-12.34%	7.52%	9.15%	4.20%	5.63%	1.25%	-2.11%	-1.64%	-0.52%	-1.14%	-1.88%			
São Paulo Consumer Price Index IPC RMSP (FIPE)	Sep-22	2.28%	2.99%	8.20%	7.26%	5.76%	1.02%	1.44%	1.13%	0.16%	0.12%	0.12%			

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	9.47	6.30	9.63	6.54	11.48	9.44					
2023	4.65	4.50	5.00	4.86	4.99	4.55					
2024	3.53	3.00	3.64	3.00	4.35	4.19					
2025	3.00	3.00	3.00	3.00	4.06	3.98					
2026	3.00	3.00	3.00	3.00	3.85	3.71					

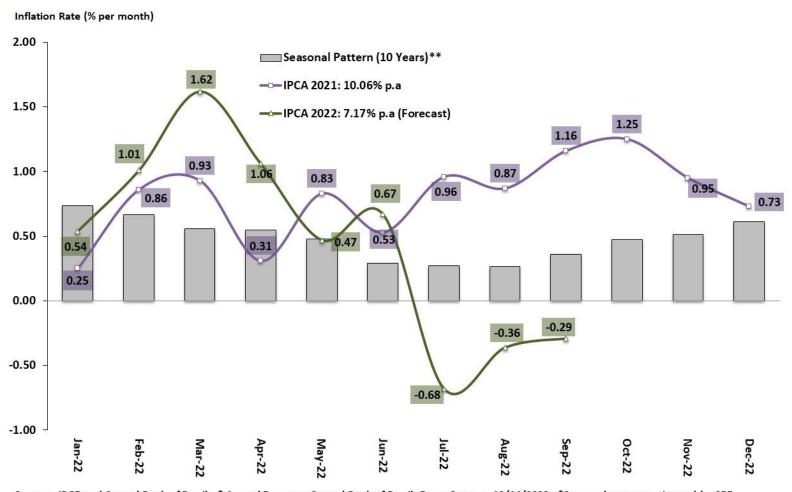
Source: SPE/ME. Macroeconomic Parameters, September-2022.



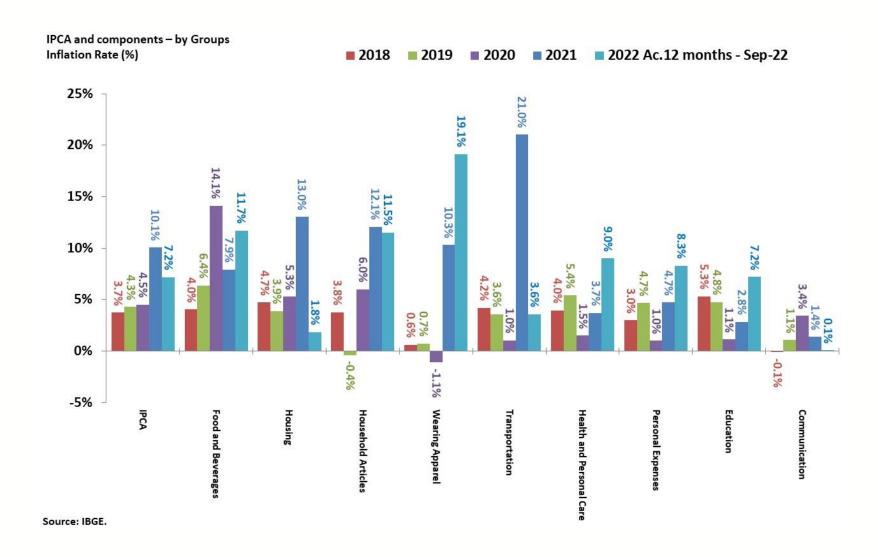


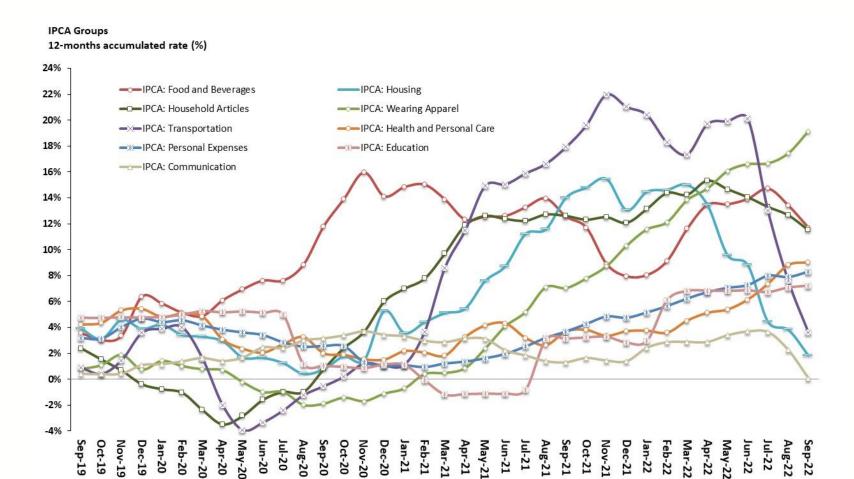


Source: IBGE

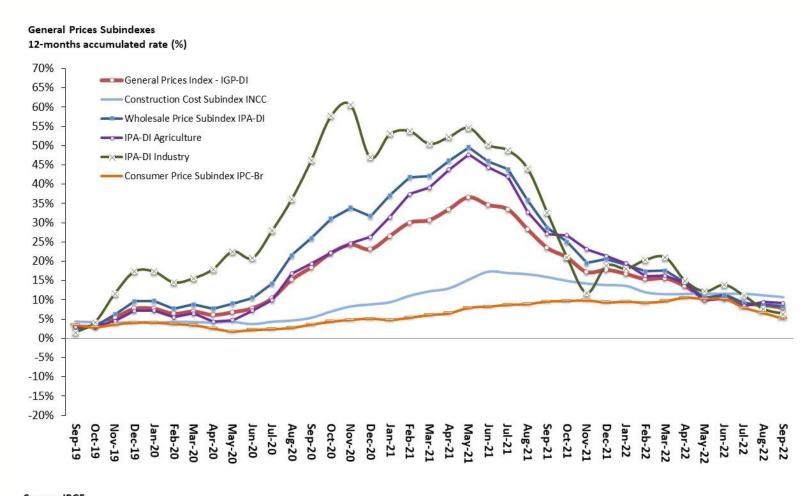


Sources: IBGE and Central Bank of Brazil. * Annual Forecast: Central Bank of Brazil, Focus Survey, 10/14/2022 *Seasonal pattern estimated by SPE.

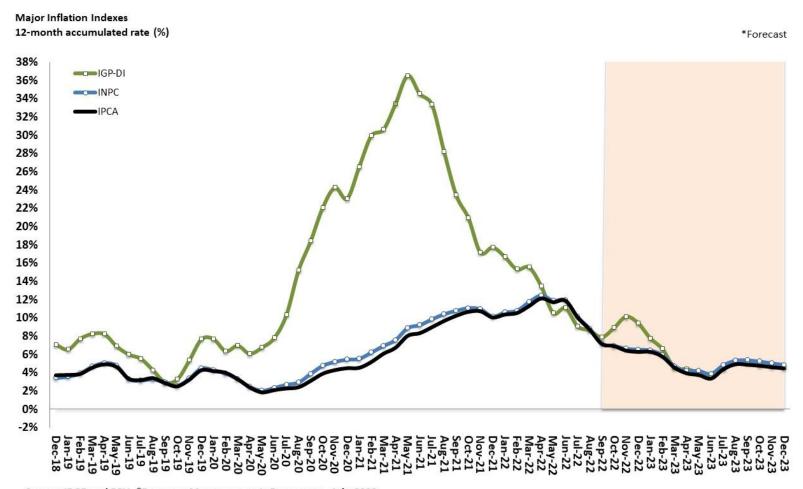




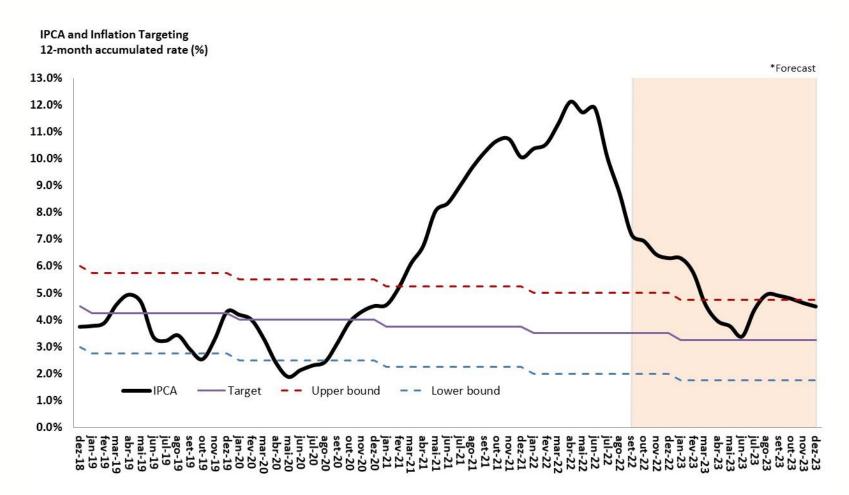
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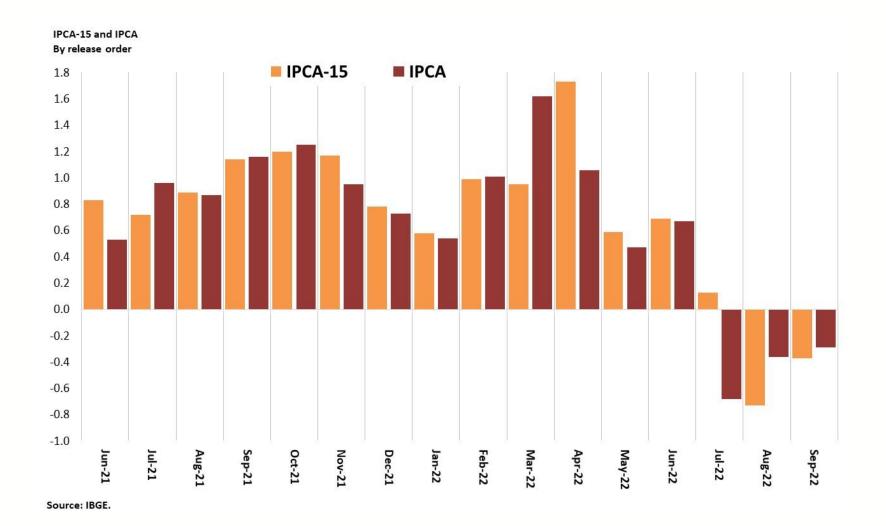
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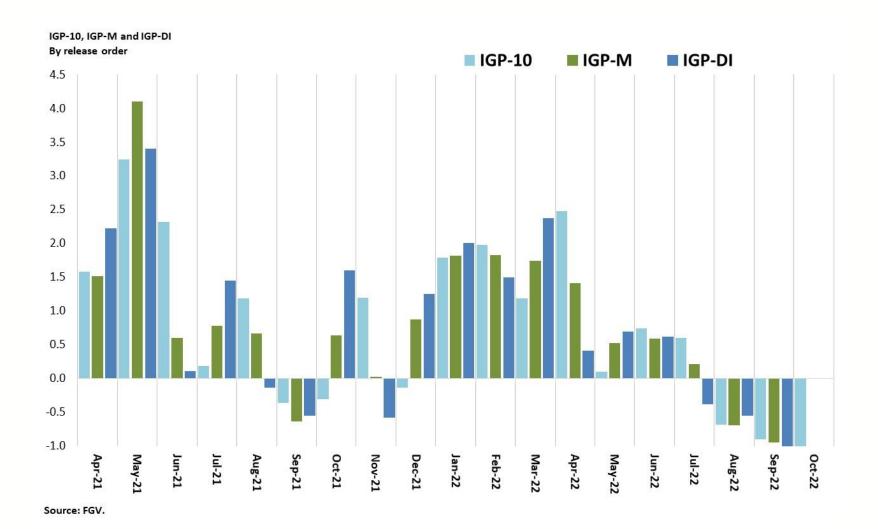
Source: IBGE and FGV. *Forecast: Macroeconomic Parameters, July-2022.

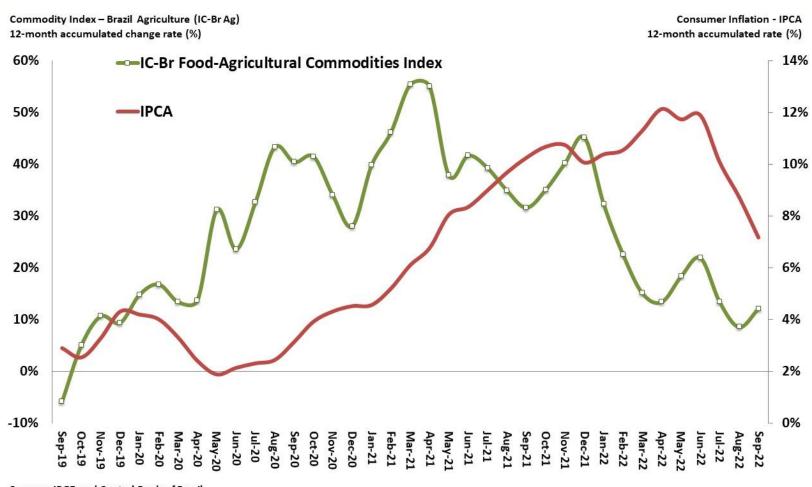


Source: IBGE and Central Bank of Brazil. *Forecast: Macroeconomic Parameters, July-2022.

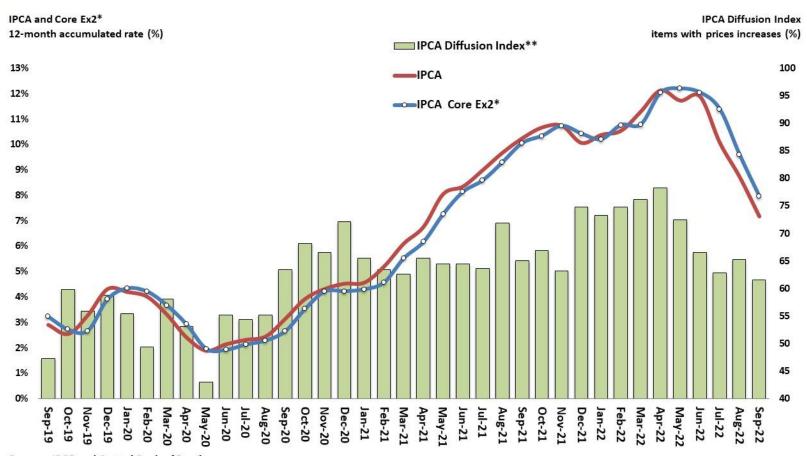


MINISTRY OF ECONOMY





Sources: IBGE and Central Bank of Brazil.



Sources: IBGE and Central Bank of Brazil.

^{*} 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.

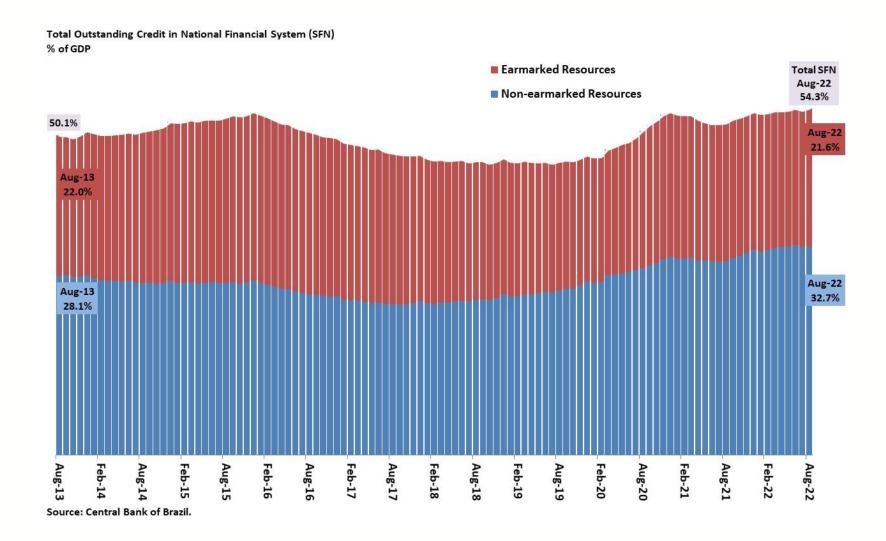
^{**} Diffusion Index = % of items from IPCA with price increase.

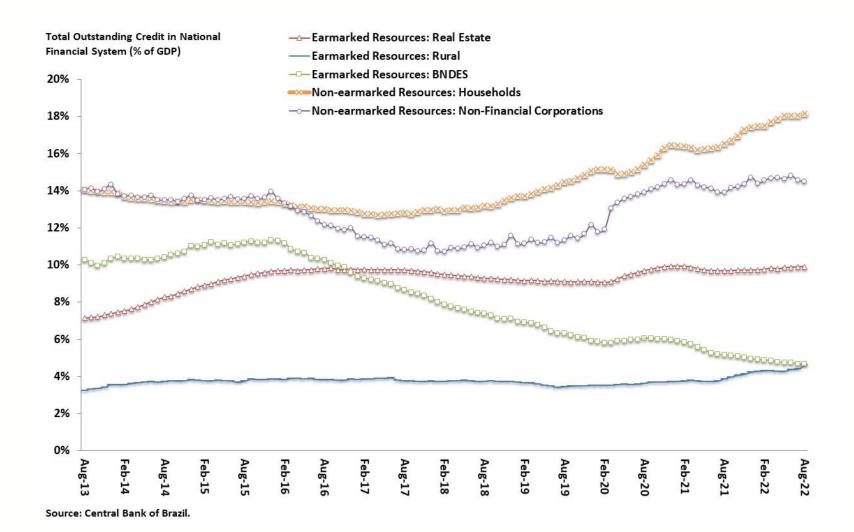
Credit Market

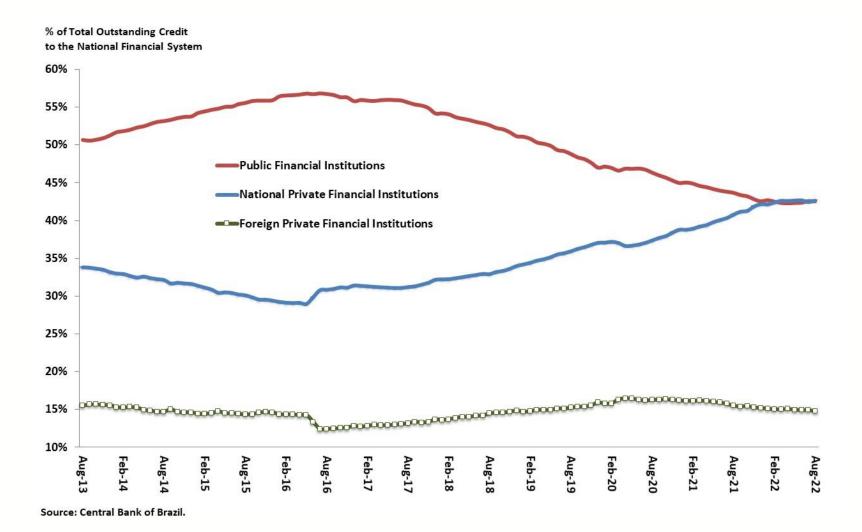
Credit Market (BCB) August-22				% of Total	% of Total		chg.%	chg.%			
	Dec-20	Dec-21	Aug-22	Credit	Credit	% of Total Credit Aug/22	Dec/21-	Aug/22-	% of GDP Dec/20	% of GDP Dec/21	% of GDP Aug/22
End-of-Period Outstanding Credit (in R\$ billions)				Dec/20	Dec/21	J. J. M. J.	Dec/20	Dec/21	200,20	500/21	g/ ==
Total Credit to the National Financial System (NFS)	4,016.9	4,673.5	5,067.4	100.0%	100.0%	100.0%	16.3%	8.4%	53.8%	53.8%	54.3%
by type of borrower											
Public Sector (incl. State-Owned Enterprises)	223.5	202.3	209.3	5.6%	4.3%	4.1%	-9.5%	3.4%	3.0%	2.3%	2.2%
Private Sector	3,793.4	4,470.0	4,858.1	94.4%	95.6%	95.9%	17.8%	8.7%	50.8%	51.5%	52.1%
Non-Financial Corporations	1,775.9	1,962.7	2,052.7	44.2%	42.0%	40.5%	10.5%	4.6%	23.8%	22.6%	22.0%
Households	2,241.1	2,710.8	3,014.7	55.8%	58.0%	59.5%	21.0%	11.2%	30.0%	31.2%	32.3%
by type of lender											
Public Financial Institutions	1,807.8	1,990.2	2,158.4	45.0%	42.6%	42.6%	10.1%	8.4%	24.2%	22.9%	23.1%
National Private Financial Institutions	1,558.3	1,971.7	2,161.0	38.8%	42.2%	42.6%	26.5%	9.6%	20.9%	22.7%	23.2%
Foreign Private Financial Institutions	650.8	710.8	748.1	16.2%	15.2%	14.8%	9.2%	5.3%	8.7%	8.2%	8.0%
by type of credit											
Earmarked Resources	1,697.7	1,882.2	2,019.0	42.3%	40.3%	39.8%	10.9%	7.3%	22.7%	21.7%	21.6%
Housing	277.5	366.8	429.3	6.9%	7.8%	8.5%	32.2%	17.1%	3.7%	4.2%	4.6%
Rural	741.5	843.7	923.8	18.5%	18.1%	18.2%	13.8%	9.5%	9.9%	9.7%	9.9%
BNDES Development Bank	445.7	431.3	437.6	11.1%	9.2%	8.6%	-3.2%	1.5%	6.0%	5.0%	4.7%
Others	233.0	240.4	228.3	5.8%	5.1%	4.5%	3.2%	-5.1%	3.1%	2.8%	2.4%
Non-Financial Corporations	687.5	685.3	699.5	17.1%	14.7%	13.8%	-0.3%	2.1%	9.2%	7.9%	7.5%
Households	1,010.1	1,196.9	1,319.5	25.1%	25.6%	26.0%	18.5%	10.2%	13.5%	13.8%	14.1%
Non-earmarked Resources	2,319.2	2,791.3	3,048.4	57.7%	59.7%	60.2%	20.4%	9.2%	31.1%	32.2%	32.7%
Non-Financial Corporations	1,088.3	1,277.4	1,353.1	27.1%	27.3%	26.7%	17.4%	5.9%	14.6%	14.7%	14.5%
Households	1,230.9	1,513.9	1,695.3	30.6%	32.4%	33.5%	23.0%	12.0%	16.5%	17.4%	18.2%
Non-earmarked Resources (BCB) August-22				% of Total	% of Total	% of Total	chg.%	chg.%	% of GDP	% of GDP	% of GDP
	Dec-20	Dec-21	Aug-22	Credit	Credit	Credit Aug/22	Dec/21-	Aug/22-	Dec/20	Dec/21	Aug/22
New Loans, Spread and Delinquency Rates				Dec/20	Dec/21	J	Dec/20	Dec/21			J
New Loans (12-months accum. in R\$ billions)	3,606.4	4,369.0	5,061.5	100.0%	100.0%	100.0%	21.1%	15.9%	48.3%	50.3%	54.2%
Non-Financial Corporations	1,748.7	2,086.3	2,432.2	48.5%	47.8%	48.1%	19.3%	16.6%	23.4%	24.0%	26.1%
Households	1,857.7	2,282.6	2,629.3	51.5%	52.2%	51.9%	22.9%	15.2%	24.9%	26.3%	28.2%
Spread (in pp per year)	20.8	23.6	28.2				2.9 pp	4.6 pp			
Non-Financial Corporations	7.7	9.7	10.7				2.0 pp	1.1 pp			
Households	31.7	34.7	41.5				3.0 pp	6.7 pp			
Delinquency (% non-performing loans by 90 days or more)	2.9	3.1	3.9				0.2 pp	0.9 pp			
Non-Financial Corporations	1.5	1.5	1.8				0.1 pp	0.3 pp			
Households	4.2	4.4	5.6				0.2 pp	1.3 pp			

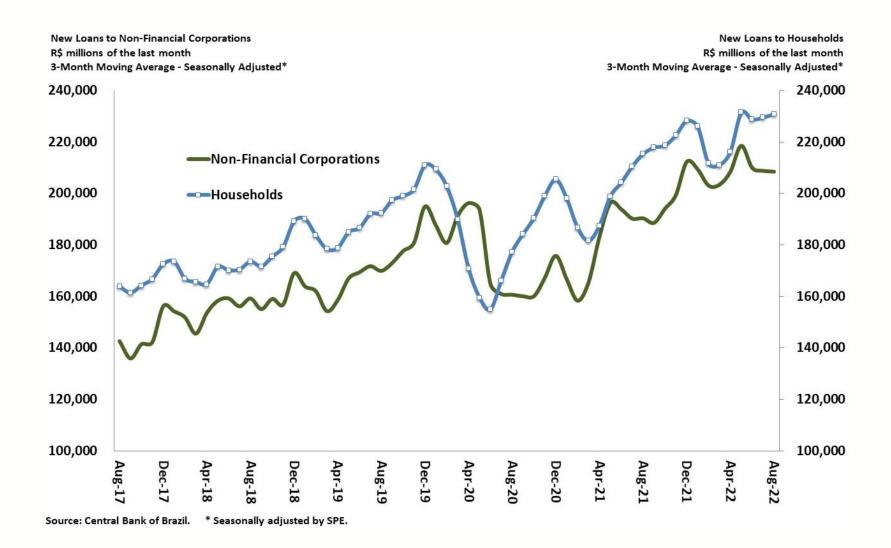
Macroeconomic Parameters										
	Credit Market									
Year	Total Credit									
	Annual Ave	rage								
	BRL million	Annual chg. %								
2016	3,144,353	0.84								
2017	3,079,705	-2.06								
2018	3,145,561	2.14								
2019	3,324,502	5.69								
2020	3,699,682	11.29								
2021	4,288,795	15.92								
2022	4,909,020	14.46								
2023	5,219,452	6.32								
2024	5,538,072	6.10								
2025	5,968,403 7.77									
2026	6,461,764	8.27								

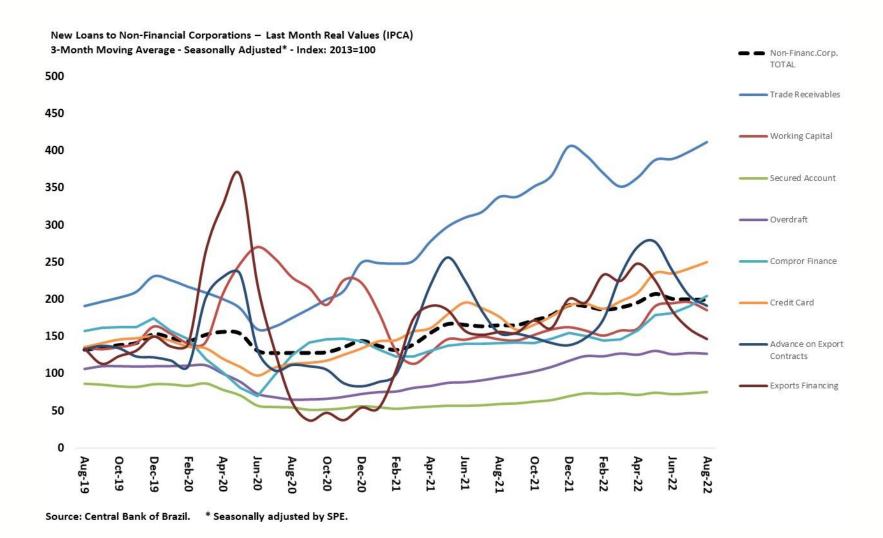
Source: SPE/ME. Macroeconomic Parameters, September-2022.



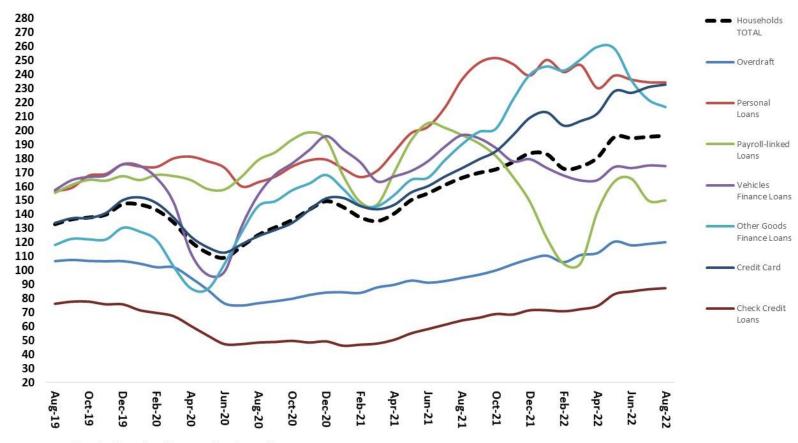




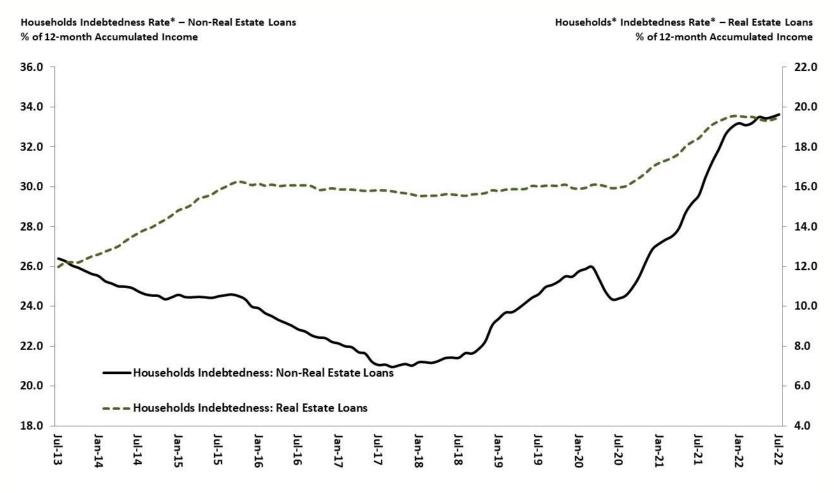




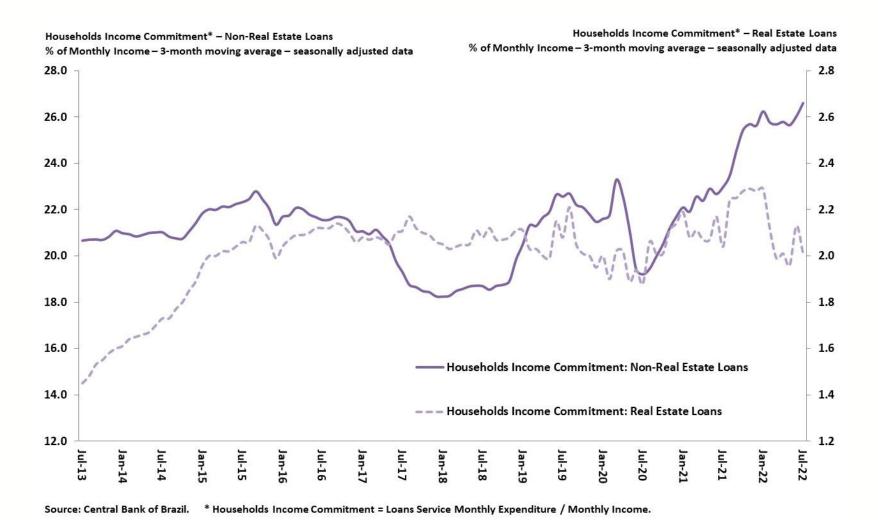
New Loans to Households – Real Last Month Values (IPCA)
3-Months Moving Average - Seasonally Adjusted* - Index: 2013=100

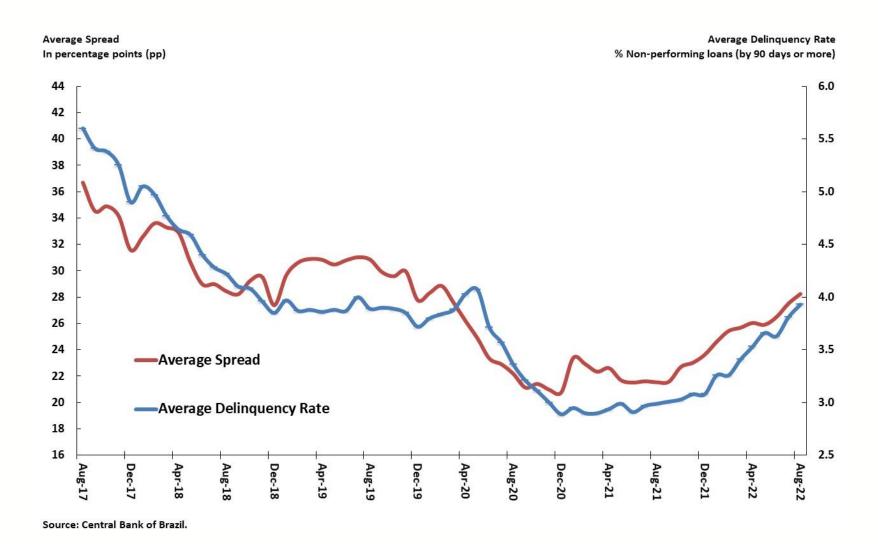


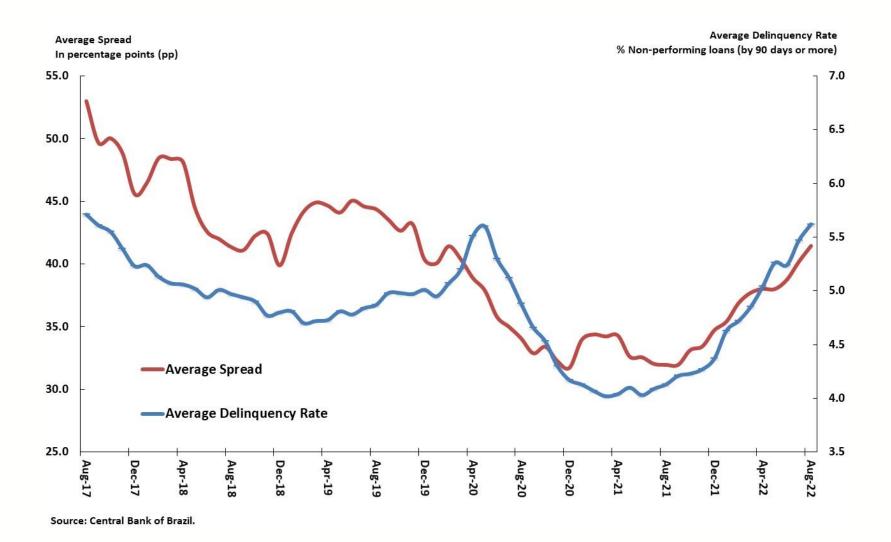
Source: Central Bank of Brazil. * Seasonally adjusted by SPE.

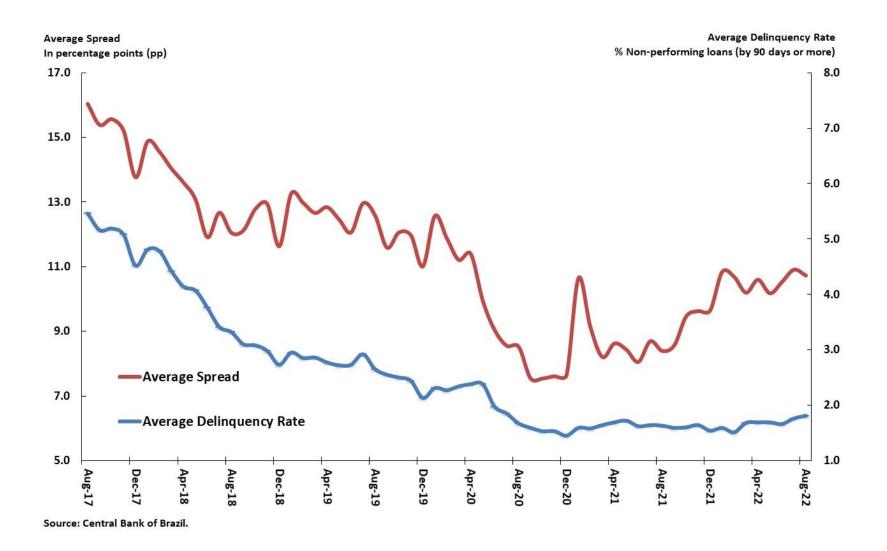


Source: Central Bank of Brazil. * Indebtedness rate = total outstanding debt / 12-months accumulated income.









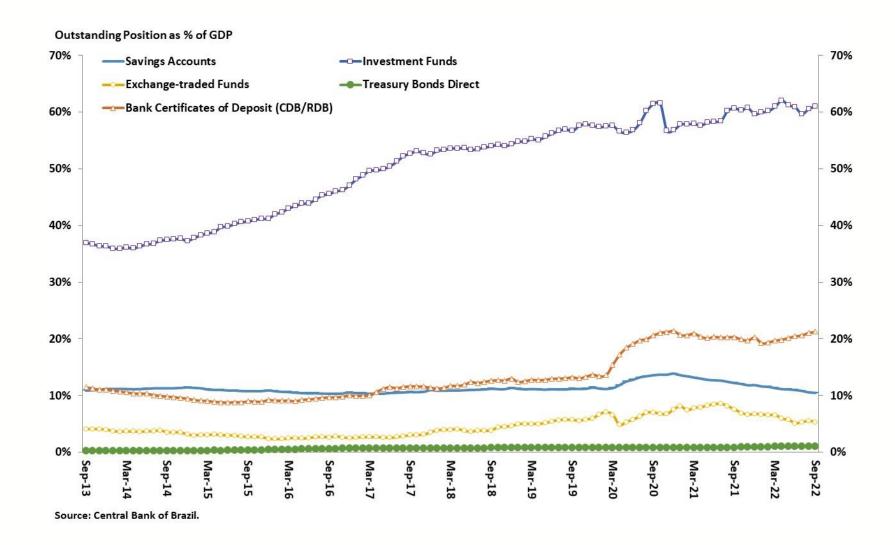
Financial Markets

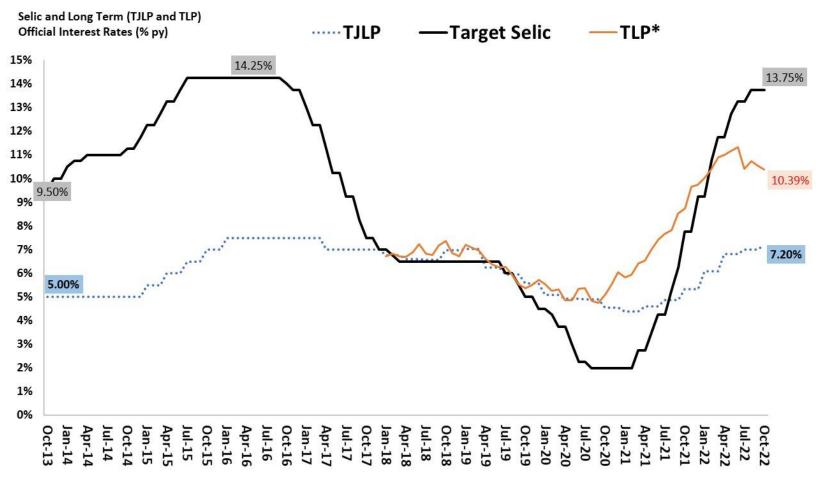
									BCB/Focus:	10/14/22	
Financial Savings (BCB) September-2 Outstanding Positions - R\$ billions	2 Dec-20	Dec-21	Sep-21	Sep-22	chg. % Dec/17 / Dec/16	chg. % Dec/18 / Dec/17	chg. % Sep/22- Dec/18	chg. % Sep/22- Sep/21			
Bank Certificates of Deposit (CDB/RDB)	1,598.0	1.758.4	1.714.8	1.982.8	58.1%	10.0%	12.8%	15.6%			
Savings Accounts (Caderneta de Poupanca)	1,035.6	1,756.4	1,714.6	983.3	22.5%	-0.5%	-4.6%	-4.7%			
Investment Funds	4,245.9	5,179.3	5,119.2	5,698.9	-0.3%	22.0%	10.0%	11.3%			
Exchange-traded Funds	565.3	584.7	638.7	499.5	28.0%	3.4%	-14.6%	-21.8%			
Treasury Bonds Direct (Tesouro Direto)	62.7	79.2	71.8	98.2	5.1%	26.3%	24.0%	36.9%			
BM&F-Bovespa - listed companies value as % of GDP	69.5%	53.3%	69.5%	53.3%	0.54 pp	0.47 pp	4.43 pp	-16.28 pp			
Capital Market (CVM) September-2	2				chg. %	chg. %	chg. %	chg. %			
	Dec-20	Dec-21	Sep-21	Sep-22	Dec/17 /	Dec/18 /	Sep/22-	Sep/22-			
New Public Offering - R\$ billions					Dec/16	Dec/17	Dec/18	Sep/21			
Stocks	26.1	36.0	36.0	30.8	517.8%	37.6%	-100.0%	-			
Debentures	3.3	10.1	6.9	12.0	-77.7%	209.7%	-100.0%	-100.0%			
Housing Credit-backed Securities (CRI)	3.5	15.8	8.8	18.7	-83.8%	355.0%	-7.1%	189.4%			
Investment Funds - new shares	24.6	24.4	17.7	15.3	162.1%	-1.2%	27.2%	-2.2%			
Monet Market (BCB) September-2	2				chg. %	chg. %	chg. %	chg. %			
	Dec-20	Dec-21	Sep-21	Sep-22	Dec/17 /	Dec/18 /	Sep/22-	Sep/22-			
					Dec/16	Dec/17	Dec/18	Sep/21			
Interest Rates											
Selic market rate (% py)	1.90	8.76	6.30	13.65	-2.7 pp	6.9 pp	4.9 pp	7.4 pp			
CDI (% py)	1.90	8.76	6.30	13.65	-2.7 pp	6.9 pp	4.9 pp	7.4 pp			
Swap DI-Pre 180 days (% py)	2.10	11.20	8.04	13.68	-2.2 pp	9.1 pp	2.5 pp	5.6 pp			
Swap DI-Pre 360 days (% py)	2.83	11.79	8.98	13.21	-1.7 pp	9.0 pp	1.4 pp	4.2 pp			
Monet Market (BCB) October-2	2				chg. %	chg. %	chg. %	chg. %			
	Dec-20	Dec-21	Oct-21	Oct-22	Dec/17 /	Dec/18 /	Oct/22-	Oct/22-	2022	2023	2024
					Dec/16	Dec/17	Dec/18	Oct/21			
Selic target rate (% py)	2.00	9.25	7.75	13.75	-2.5 pp	7.25 pp	4.5 pp	6.0 pp	13.75%	11.25%	8.00%
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) September-2	2				chg. pp	chg. pp	chg. %	chg. %			
	Dec-20	Dec-21	Sep-21	Sep-22	Dec/17 /	Dec/18 /	Sep/22-	Sep/22-			
Monthly Average (in basis points)					Dec/16	Dec/17	Dec/18	Sep/21			
EMBI+ (JPMorgan)	260	326	327	288	46 pp	66 pp	-38 pp	-39 pp			
5 years CDS	143	205	206	313	43 pp	62 pp	107 pp	107 pp			
10 years CDS	215	292	297	403	35 pp	77 pp	111 pp	105 pp			

FINANCIAL MARKETS

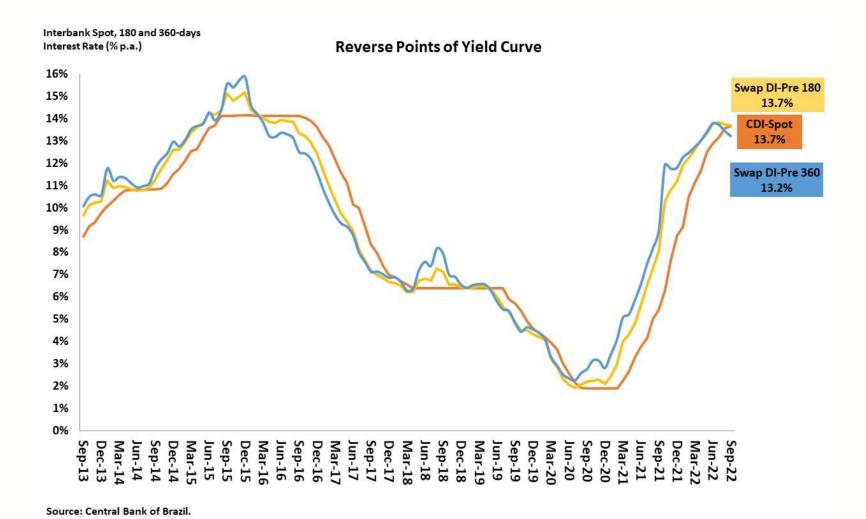
	Macroeconomic Parameters										
	Financial Indicators										
Year	Selic	market rate	2	Long term ra	ate TJLP	Referential rate TR	Financial Savings				
Teal	Annual Average	December	Real chg.	Annual Average	December	Annual Average	Annual Aver	age			
				Annual chg. %			BRL million	Annual chg. %			
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	5.68	6.87	7.65	1.69	8,511,619	16.05			
2023	12.87	11.15	8.01	6.99	6.64	1.85	9,571,586	12.45			
2024	9.24	7.90	6.06	6.16	5.89	0.55	10,602,066	10.77			
2025	7.63	7.40	4.50	5.46	5.30	0.00	11,601,339	9.43			
2026	7.40	7.40	4.28	5.01	4.87	0.00	12,566,404	8.32			

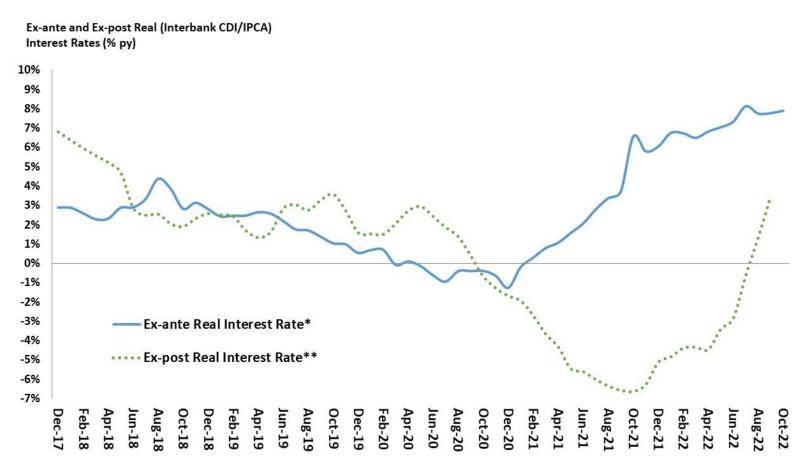
Source: SPE/ME. Macroeconomic Parameters, September-2022.





Source: Central Bank of Brazil. *TLP is 3-Month average of 5-Year NTN-B bonds plus IPCA Market Expectation (Focus Survey by BCB).

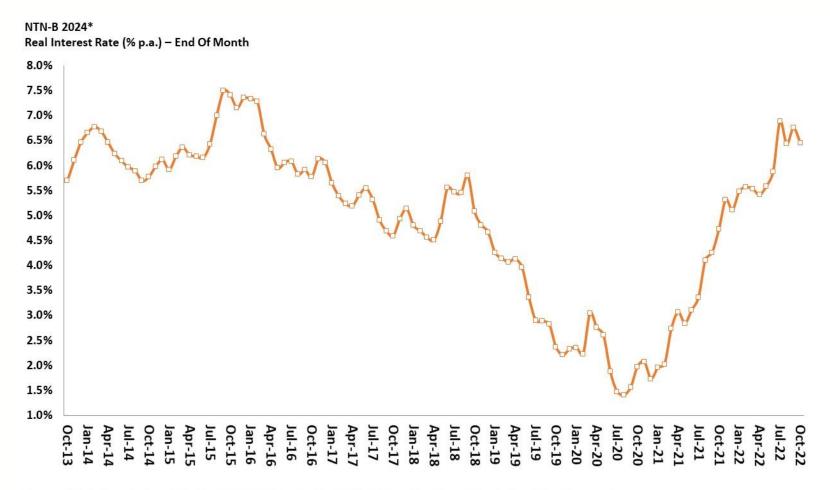




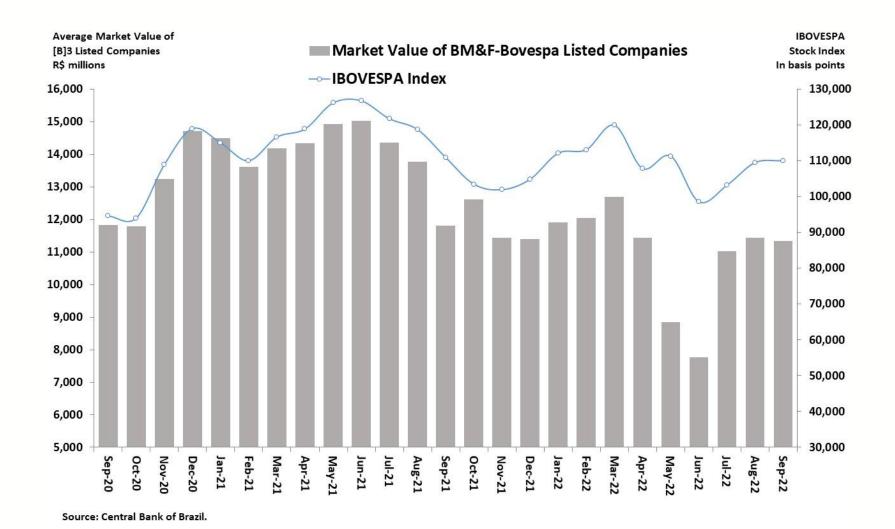
Source: Central Bank of Brazil. Data valid up to the date of the report.

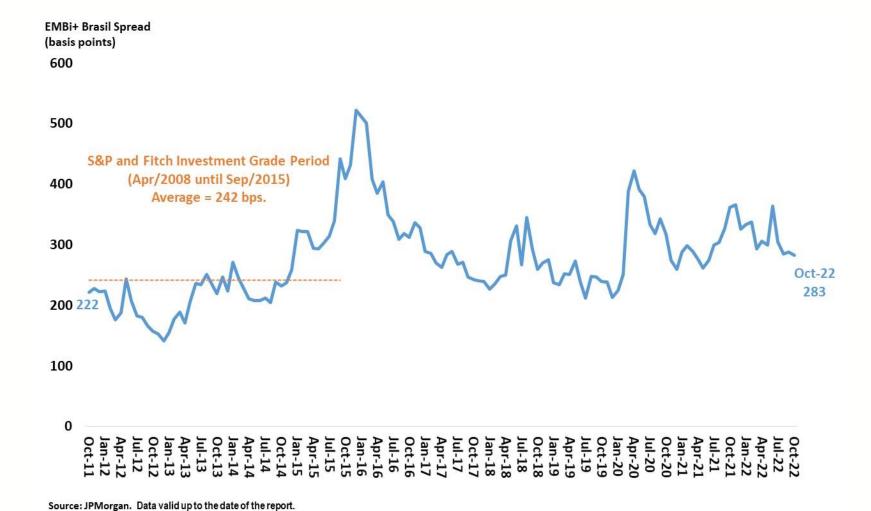
^{*} Ex-ante Real Interest Rate = Expected Interbank CDI/IPCA ratio, considering 360-days Swap DI-Pre rate and IPCA median of BCB-Focus Survey.

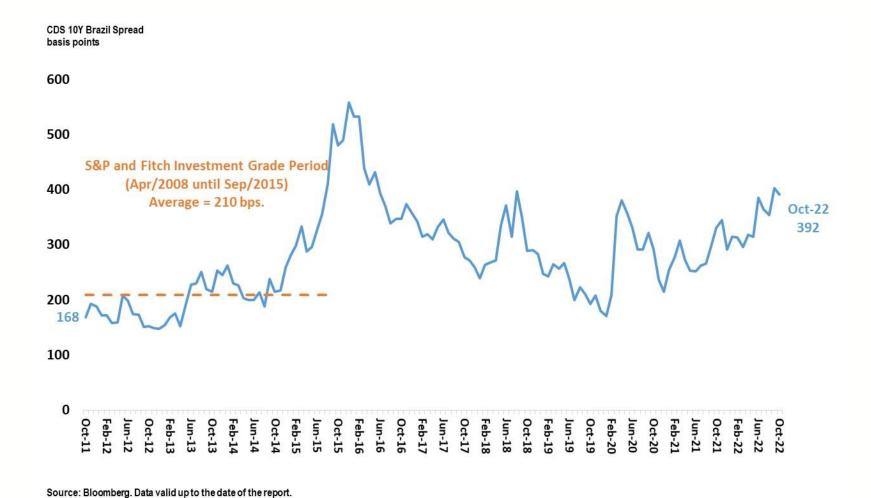
^{**} Ex-post Real Interest Rate = Observed 12-months accumulated CDI/IPCA ratio.



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

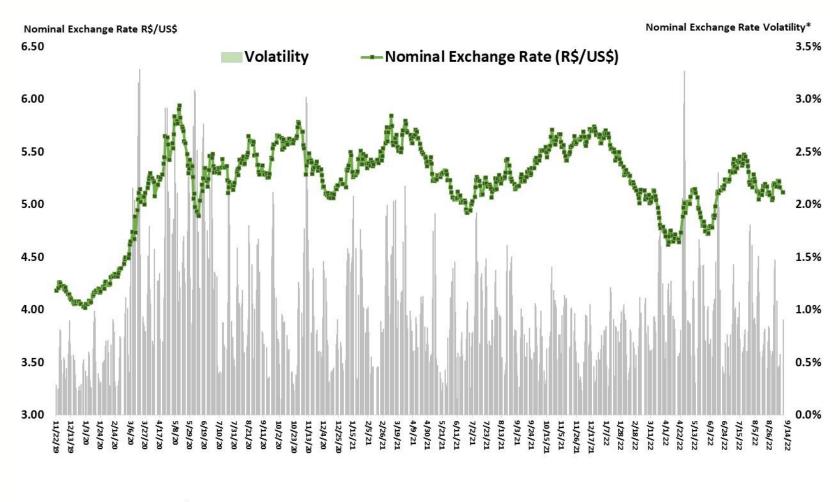
										1	BCB/Focus:	10/14/22	
Exchange Rate Indicators (BCB) FX % change rate: appreciation (-) or depreciation (+) of the Real		2020	2021	chg.% Jul/22- Jul/21	chg.% Aug/22- Aug/21	chg.% Sep/22- Sep/21	YTD 2022		Aug/22 accum. in 12-months	Sep/22 accum. in 12-months	Average FX Rate 2021	Average FX Rate 2022	Average FX Rate 2023
Nominal Exchange Rate (R\$/US\$) - sale - end of period; month value: 5.406	6 :	32.9%	3.1%	1.3%	0.7%	-0.6%	-4.5%	-3.3%	-2.8%	-2.5%	5.20	5.20	5.10
Exchange Rate Indicators (BCB) FX % change rate: appreciation (-) or depreciation (+) of the Real		2020	2021	chg.% Jul/22- Jul/21	chg.% Aug/22- Aug/21	chg.% Sep/22- Sep/21	YTD 2022	Jul/22 accum. in 12-months	Aug/22 accum. in 12-months	Sep/22 accum. in 12-months			
Real Effective Exchange Rate (IPCA)	2	27.9%	3.2%	-9.2%	-4.7%	-9.1%	-11.2%	-8.1%	-8.2%	-8.4%			
Exchange Rate / Wage Ratio adjusted by Labor Productivity		12.6%	-22.3%	2.7%	7.6%	-7.3%	-7.1%	-16.0%	-12.3%	-10.0%			
Unitary Labor Cost in US\$		20.2%	-0.8%	12.9%	8.6%	16.7%	20.0%	18.8%	18.0%	18.1%			
	ust-22	2020	2021	chg.% Jun/22- Jun/21	chg.% Jul/22- Jul/21	chg.% Aug/22- Aug/21	YTD 2022	Jun/22 accum. in	Jul/22 accum. in 12-months	Aug/22 accum. in			
			Q	UANTUM									
Exports (X) Basic Goods Semi-Manufactured Manufactured		1.4% 5.8% 10.0% -9.1%	3.6% -0.3% 2.0% 12.8%	-0.7% -8.4% 7.2% 13.1%	3.6% -0.3% 7.7% 8.8%	7.8% 2.1% 7.6% 19.3%	2.2% -2.5% 3.2% 11.2%	0.6% -3.9% 0.6% 9.8%	1.8% -2.2% 1.7% 9.9%	1.7% -2.7% 2.5% 10.3%			
Imports (M) Intermediate Goods Capital Goods Durable Consumer Goods Semi and Non-Durable Consumer Goods Fuel and Lubricants	-	-7.9% -7.4% -4.4% -30.1% -2.6% -15.7%	22.1% 26.6% 1.8% 44.6% 5.1% 34.6%	-2.2% -3.4% 0.8% 2.9% -6.5% 0.1%	6.6% 9.8% 5.0% -1.7% 3.7% -8.6%	14.7% 17.2% 32.5% 29.6% 21.3% -15.7%	1.5% 1.6% 3.5% -0.4% 2.1% -3.8%	9.3% 9.5% 2.0% 14.2% -0.7% 21.6%	7.4% 7.7% 0.6% 10.4% -1.3% 16.2%	5.9% 6.5% 0.9% 9.7% -0.8% 9.5%			
Exports Profitability Index		6.9%	3.2%	2.0%	4.7%	0.5%	-3.1%	-0.4%	-0.4%	-0.8%			
Quantum Ratio = average quantum X / average quantum M		12.5%	-17.5%	1.7%	-2.2%	-6.0%	1.2%	-9.1%	-5.6%	-3.7%			
				PRICE									
Exports (X) Basic Goods Semi-Manufactured Manufactured		-6.7% -4.8% -6.4% -10.3%	29.5% 38.0% 27.8% 14.4%	16.4% 13.0% 19.6% 24.9%	12.6% 8.4% 13.9% 22.1%	4.4% -0.6% 4.1% 17.7%	16.4% 14.3% 15.4% 22.0%	25.8% 27.6% 25.5% 22.4%	23.1% 23.4% 23.4% 22.5%	19.8% 18.8% 20.3% 22.1%			
Imports (M) Intermediate Goods Capital Goods Durable Consumer Goods Semi and Non-Durable Consumer Goods Fuel and Lubricants		-7.3% -5.1% -1.4% -6.8% -6.6% -25.4%	13.2% 15.1% -1.1% 4.6% 0.8% 39.1%	36.5% 31.9% 12.4% 7.7% 21.2% 115.2%	26.6% 24.2% 5.3% 5.8% 4.8% 88.5%	18.8% 13.2% 1.3% 1.3% 8.2% 87.8%	30.1% 27.0% 7.9% 9.3% 13.0% 100.4%	27.9% 27.1% 6.2% 10.4% 11.5% 91.9%	29.0% 27.7% 6.6% 10.1% 12.3% 95.7%	28.8% 26.9% 6.6% 9.3% 12.5% 96.4%			
Terms of Trade = average price X / average price M		0.6%	14.7%	-14.7%	-11.1%	-12.1%	-10.5%	-1.2%	-4.2%	-6.6%			

	Macroeconomic Parameters									
		Impoi	rts of Goods	Fuels						
Year	Brent (Oil	Imports of Goods	Imports of Goods less Fuels			Diesel			
rear	Average price	Chq. %	USD million	LICE william Change	Annual average sales					
	USD	Crig. 76	וווווווווווווווווווווווווווווווווווווו	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	100.48	42.64	237513.68	22.86	2.54	6.11	5.32	2.72		
2023	84.62	-15.79	267126.70	12.47	2.64	3.96	5.51	3.55		
2024	78.36	-7.40	302656.53	13.30	2.76	4.55	5.69	3.39		
2025	73.89	-5.71	341612.44	12.87	2.88	4.41	5.88	3.26		
2026	70.90	-4.04	385598.29	12.88	3.01	4.53	6.07	3.32		

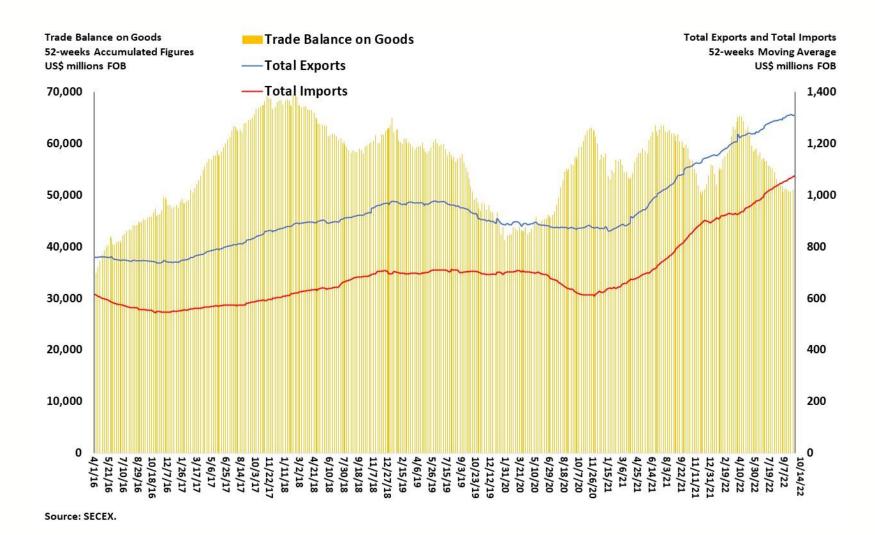
Source: SPE/ME. Macroeconomic Parameters, September-2022.

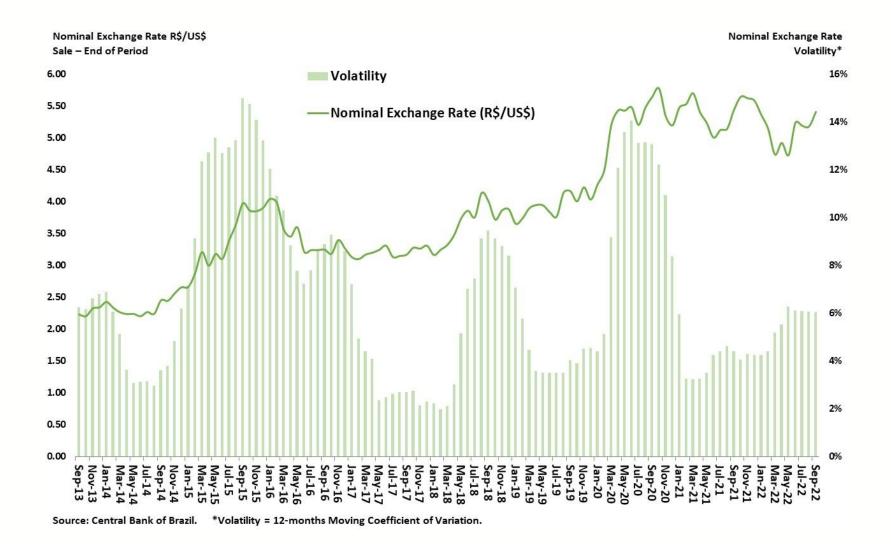
Macroeconomic Parameters										
	External Sector									
Year	Exchange Rate									
real	Annual Average	December	- Average chg. %	Annual chg. %						
	Exchange Rate BRL,	/USD	Average crig. %	Annual City. 76						
2016	3.5	3.3	4.8	-13.4						
2017	3.2	3.3	-8.5	-1.8						
2018	3.7	3.9	14.5	18.0						
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	5.15	5.20	-4.51	-7.99						
2023	5.18	5.20	0.46	-0.24						
2024	5.10	5.10	-1.51	-1.81						
2025	5.14	5.18	0.82	1.58						
2026	5.19	5.20	0.97	0.48						

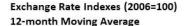
Source: SPE/ME. Macroeconomic Parameters, September-2022.

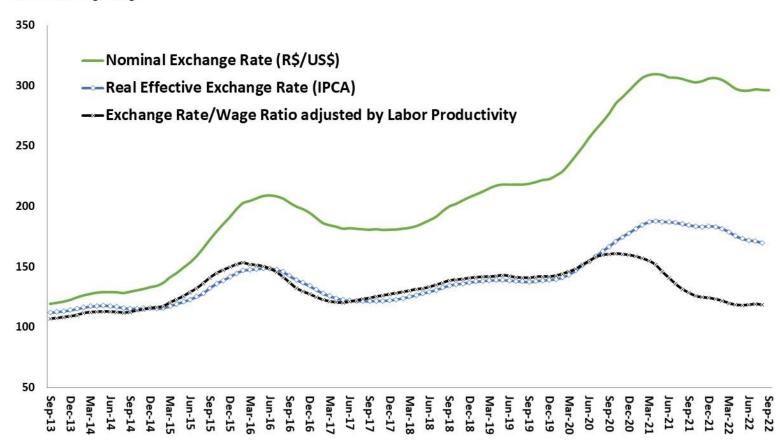


Source: Central Bank of Brazil. *Volatility = 5-days Moving Coefficient of Variation.

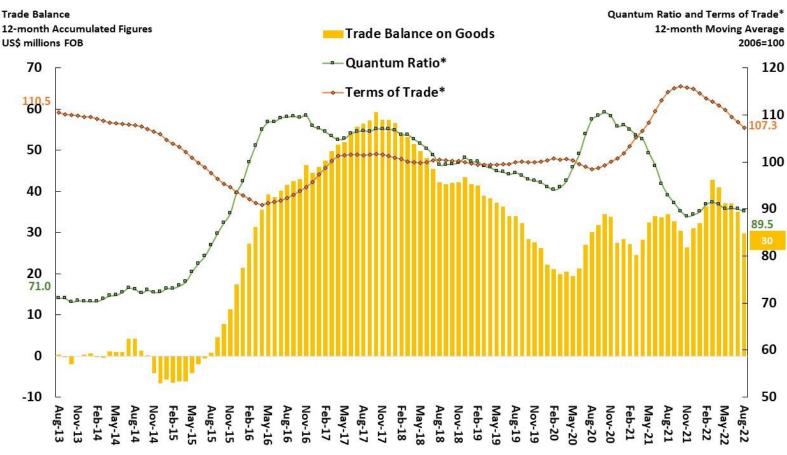








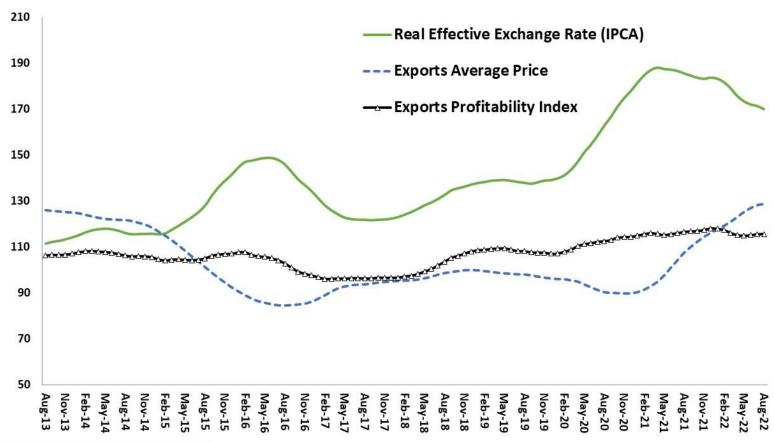
Source: Central Bank of Brazil.



Sources: Central Bank of Brazil, SECEX and FUNCEX.

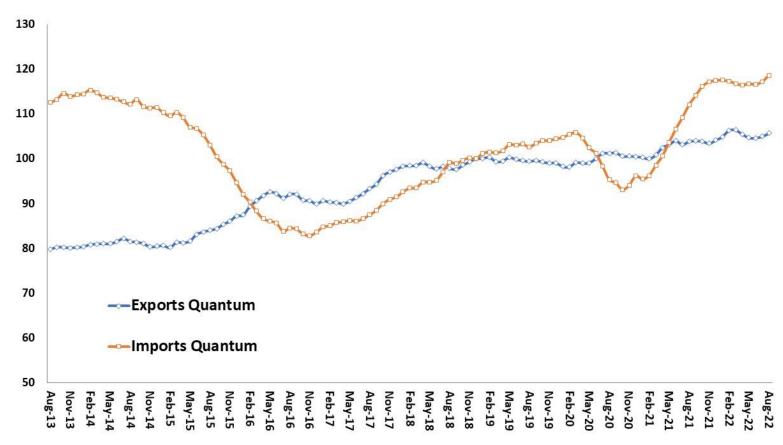
^{*} Quantum Ratio = (average quantum Exports / average quantum Imports)
Terms of Trade = (average price Exports / average price Imports)

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

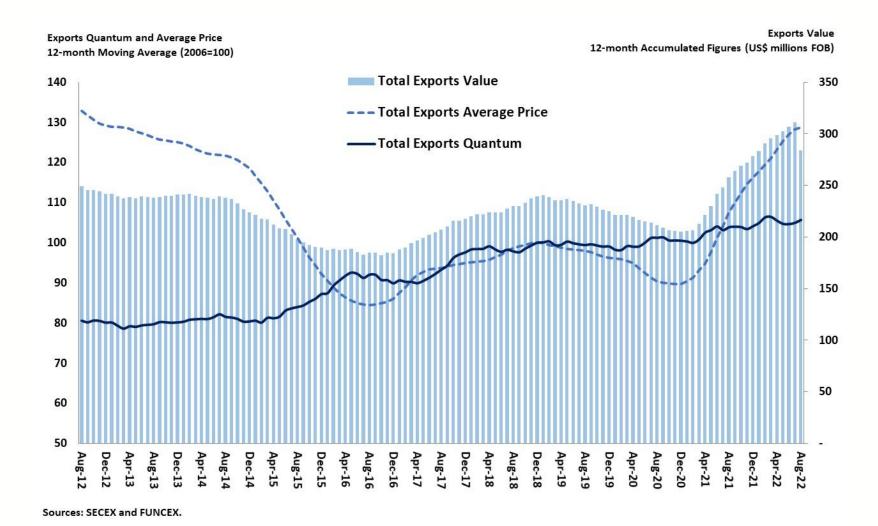


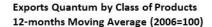
Sources: Central Bank of Brazil and FUNCEX.

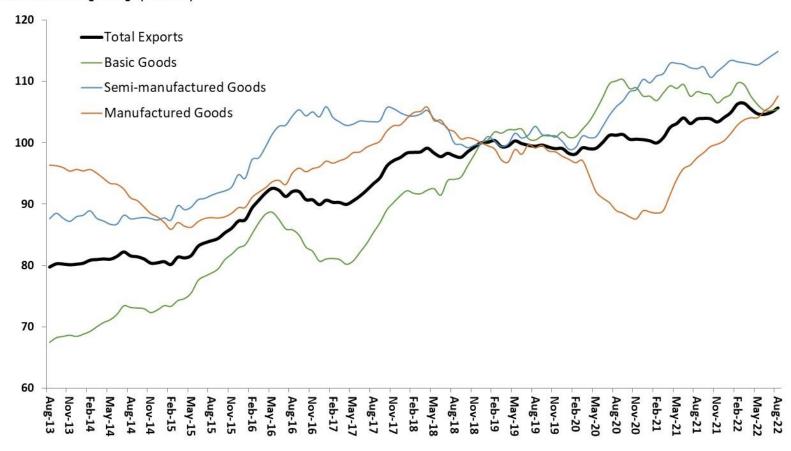




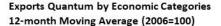
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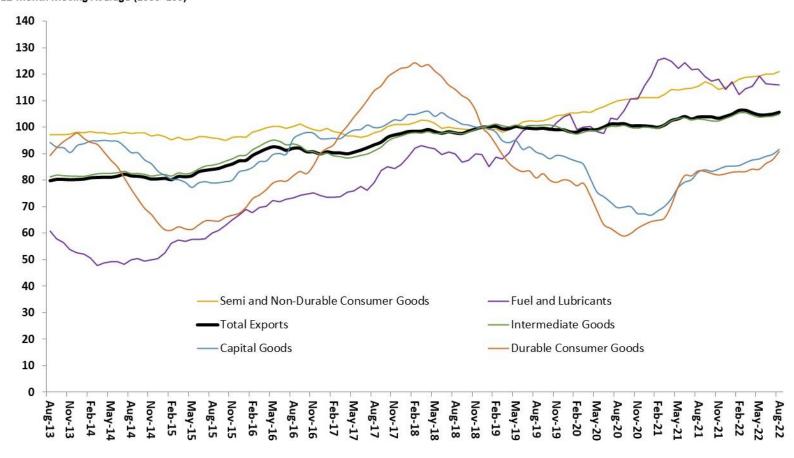




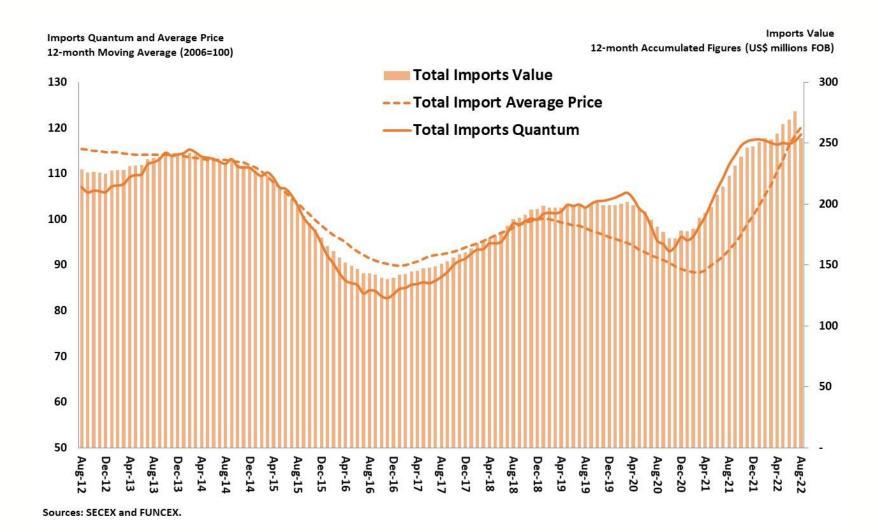


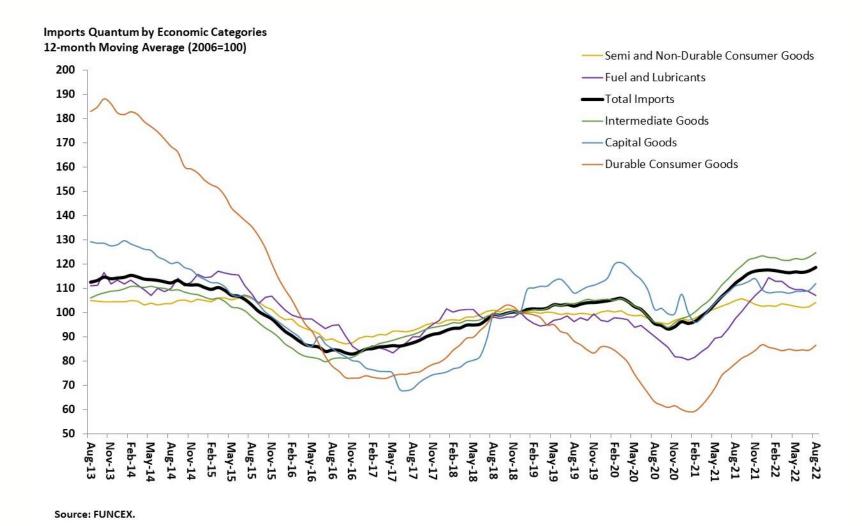
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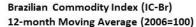


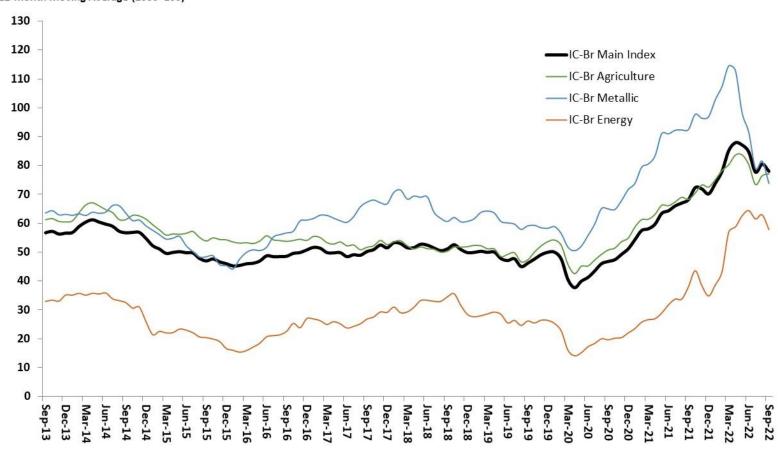


Source: FUNCEX.

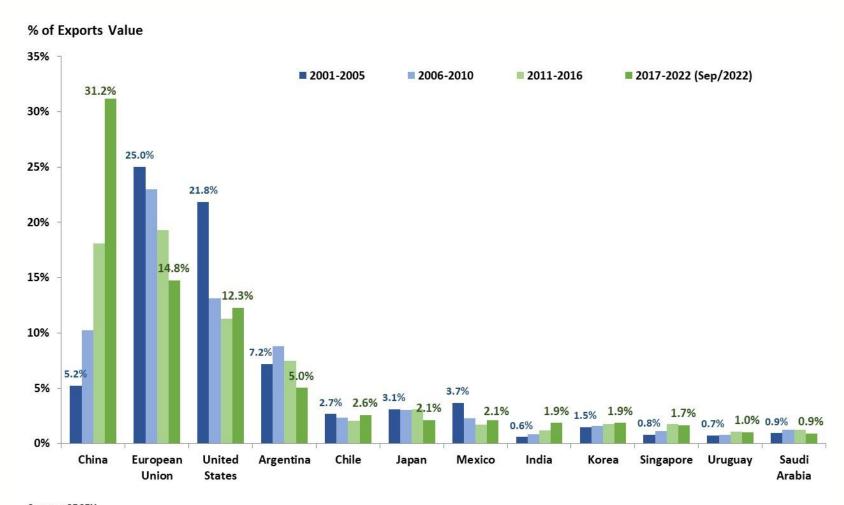








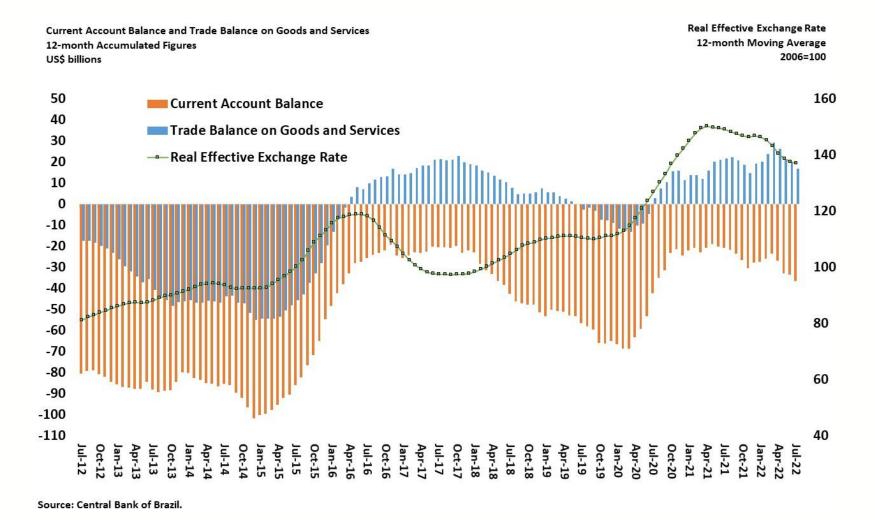
Source: Central Bank of Brazil.

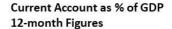


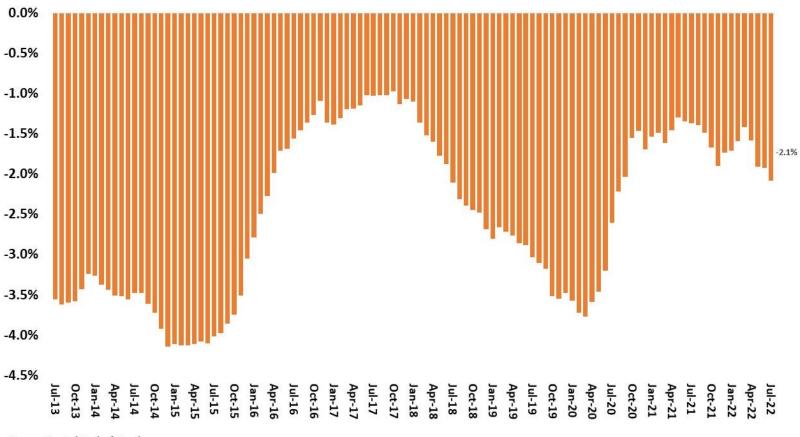
Source: SECEX.

External Sector

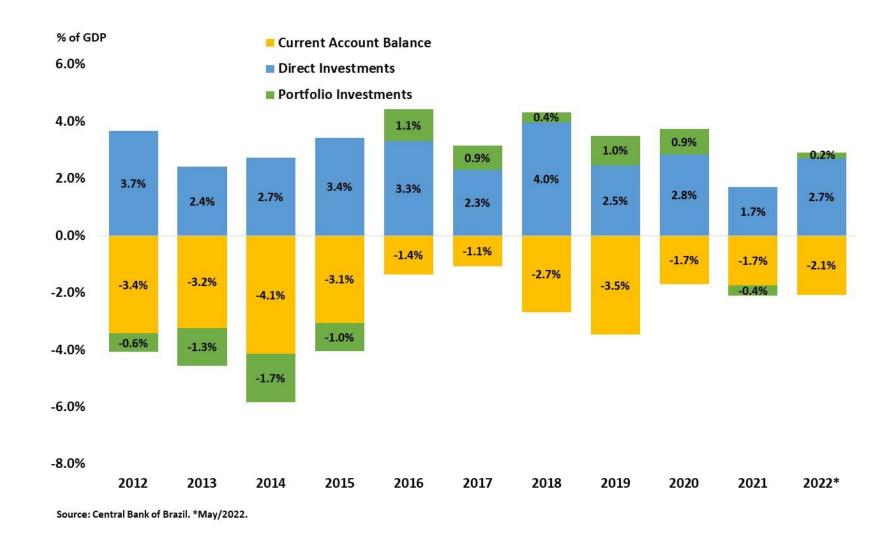
										BCB/Focus:	10/14/22	
Balance of Payments (BCB) July-22 In US\$ millions	2020	2021	Jul/22 accum. in 12-months	chg.% 2021 / 2020	chg.% Jul/22 accum. 12-m / 2021	chg.% Jun/22 - Jun/21	chg.% Jul/22 - Jul/21		chg.% - Jan- Jul/22 - Jan- Jul/21	2022	2023	2024
Balance of Payments	7,878	-6,006	-3,094	-176.2%	-48.5%	71.1%	-113.6%	-215.0%	-80.2%			
Current Account Balance (CAB)	-24,492	-27,925	-36,585	14.0%	31.0%	-34.5%	252.1%	-27.0%	88.8%	-30.0	-34.0	-37.8
CAB as % of GDP	-1.7%	-1.7%	-2.1%	0.0 pp	-0.3 pp	-0.6 pp	-0.7 pp	0.0 pp	0.0 pp			
Balance on Goods	32,369	36,363	40,112	12.3%	10.3%	-0.8%	-33.7%	34.3%	14.2%	331.9	325.0	338.5
Exports	210,707	284,012	316,360	34.8%	11.4%	13.4%	17.4%	35.4%	19.8%	275.0	267.9	286.0
Imports	178,337	247,648	276,249	38.9%	11.5%	18.3%	33.8%	35.6%	20.8%	60.0	60.0	50.1
Balance on Services	-20,941	-17,112	-23,238	-18.3%	35.8%	96.6%	59.2%	-26.6%	66.4%			
Primary Income	-38,264	-50,471	-56,999	31.9%	12.9%	-16.5%	2.8%	32.7%	22.6%			
Secondary Income	2,344	3,294	3,541	40.54%	7.5%	104.1%	45.8%	49.2%	12.2%			
Capital Account	4,141	226	230	-94.6%	2.0%	5.0%	7.6%	-50.1%	4.1%			
Financial Account	-12,472	-33,706	-39,449	170.2%	17.0%	-83.1%	54.4%	33.0%	43.3%			
Direct Investments	-41,254	-27,284	-47,794	-33.9%	75.2%	-240.1%	78.3%	-57.9%	131.4%			
Foreign Direct Investments (FDI)	37,786	46,441	65,603	22.9%	41.3%	649.9%	16.2%	27.2%	57.3%	66.0	67.3	70.0
Portfolio Investments	12,882	-5,694	3,659	-144.2%	-164.3%	-46.2%	-1765.1%	-110.7%	-100.0%			
Stock Market	7,701	-901	-3,423	-111.7%	280.1%	-50.4%	-45.7%	-118.0%	73.4%			
Bonds	-3,822	-15,114	11,858	295.5%	-178.5%	-104.3%	-34.0%	-207.6%	-251.9%			
Others Investments and Capital Flows	15,899	-728	4,685	-104.6%	-743.7%	254.6%	428.9%	-188.1%	90.6%			
International Reserves - liquidity concept	356,070	357,740	346,403	0.5%	-3.2%	-8.3%	-11.2%					
Gross External Debt (BCB) July-22	2020	2021	Jul-22	2020 % of total	Jul/22 % of total	chg. pp	2020 % of GDP	Jul/22 % of GDP	chg. pp			
In US\$ millions				% OI LOLAI	% OI total		% OI GDP	% 01 GDP				
Total External Debt	619,416	670,286	663,260	100.0%	100.0%	-	37.1%	37.7%	0.6 pp			
Gross External Debt	307,056	325,440	323,339	49.6%	48.7%	-0.8 pp	18.4%	18.4%	0.0 pp			
Public Sector	82,349	98,455	92,743	26.8%	28.7%	1.9 pp	4.9%	5.3%	0.3 pp			
Private Sector and Public Financial Sector	224,707	226,985	230,597	73.2%	71.3%	-1.9 pp	13.5%	13.1%	-0.4 pp			
Short Term	71,517	78,753	75,596	23.3%	23.4%	0.1 pp	4.3%	4.3%	0.0 pp			
Medium and Long Term	235,539	246,687	247,743	76.7%	76.6%	-0.1 pp	14.1%	14.1%	0.0 pp			
Intercompany Loans	245,953	242,107	243,877	39.7%	36.8%	-2.9 pp	14.7%	13.9%	-0.9 pp	<u></u>		
Domestic Bonds with Foreign Investors	66,407	102,739	96,044	10.7%	14.5%	3.8 pp	4.0%	5.5%	1.5 pp			

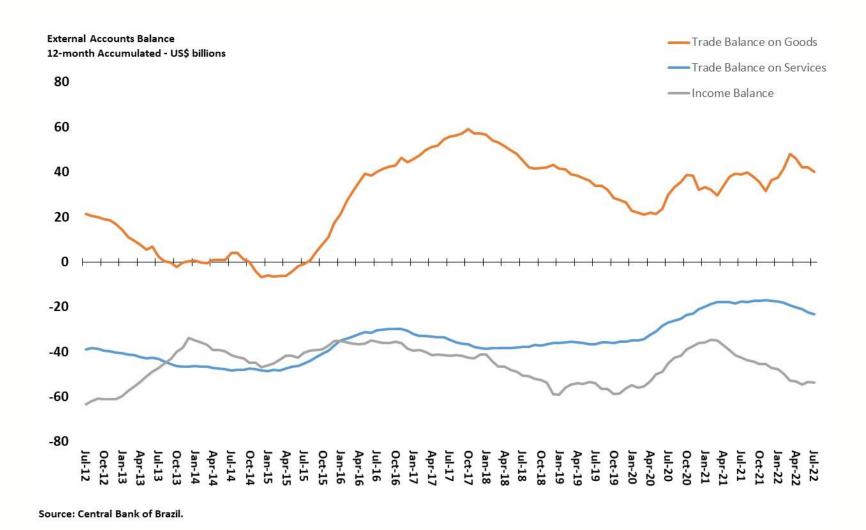


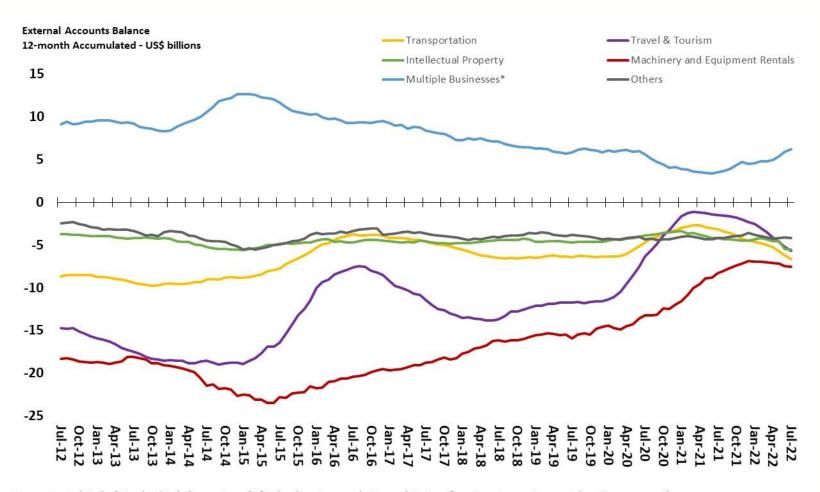




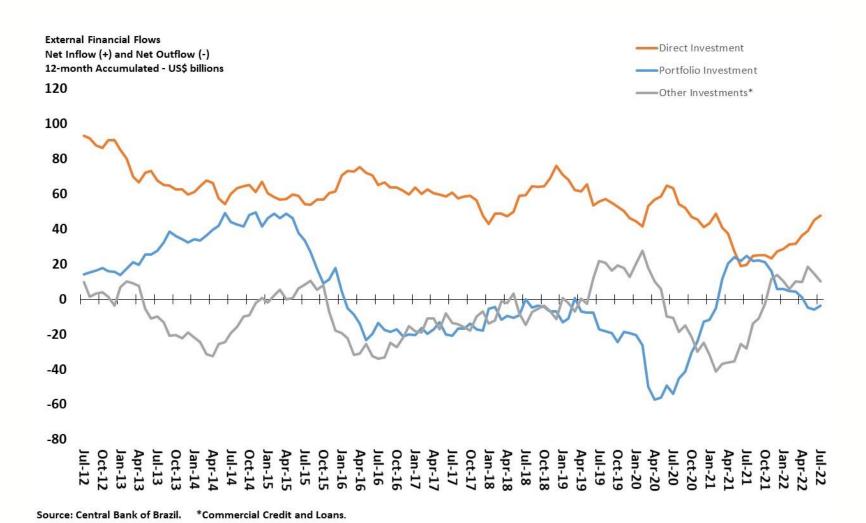
Source: Central Bank of Brazil.

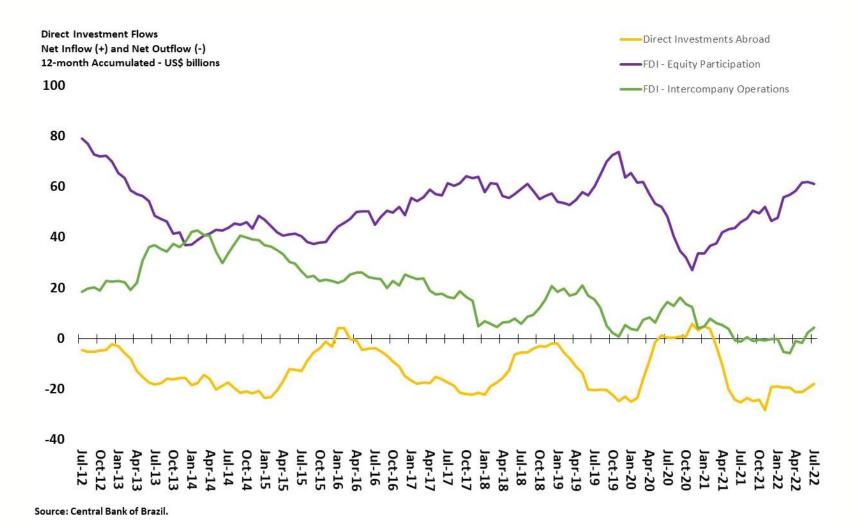


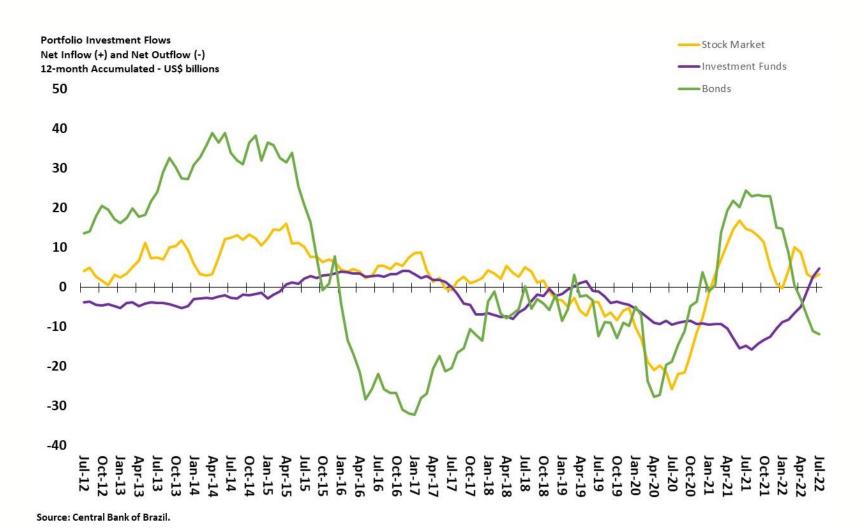


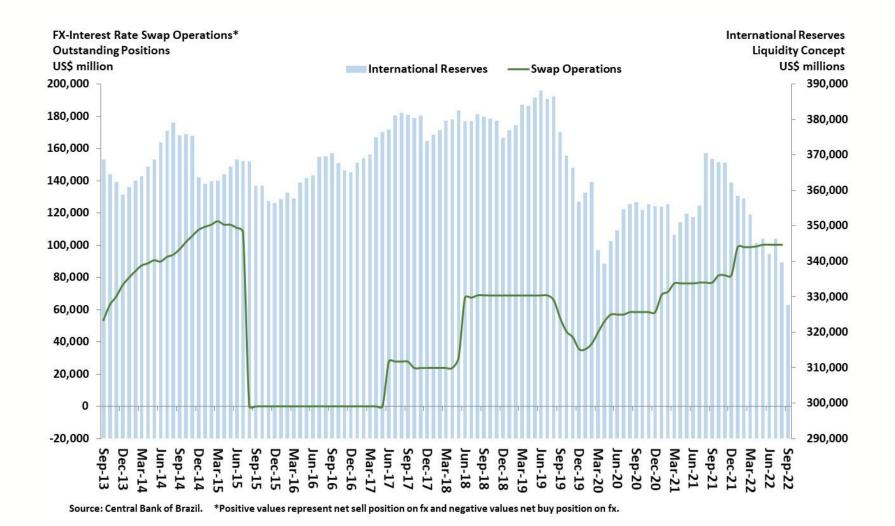


Source: Central Bank of Brazil. *Includes services of P&D, legal services, marketing, architecture & engineering, environmental services, among others.





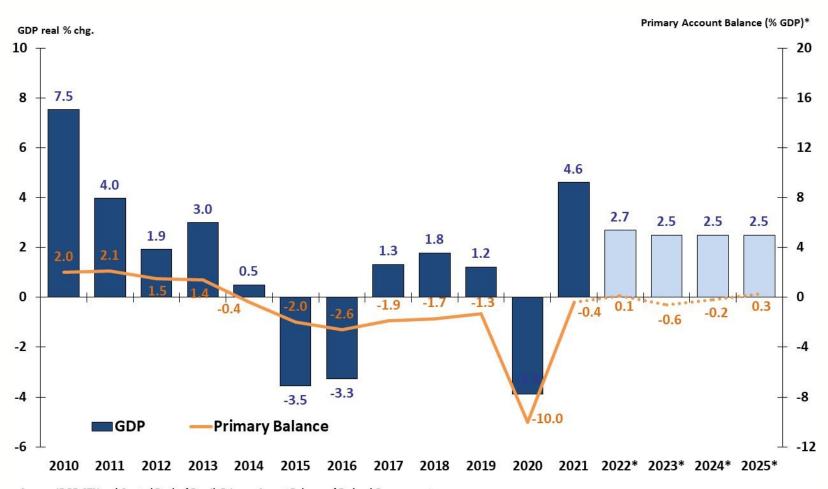




MINISTRY OF ECONOMY

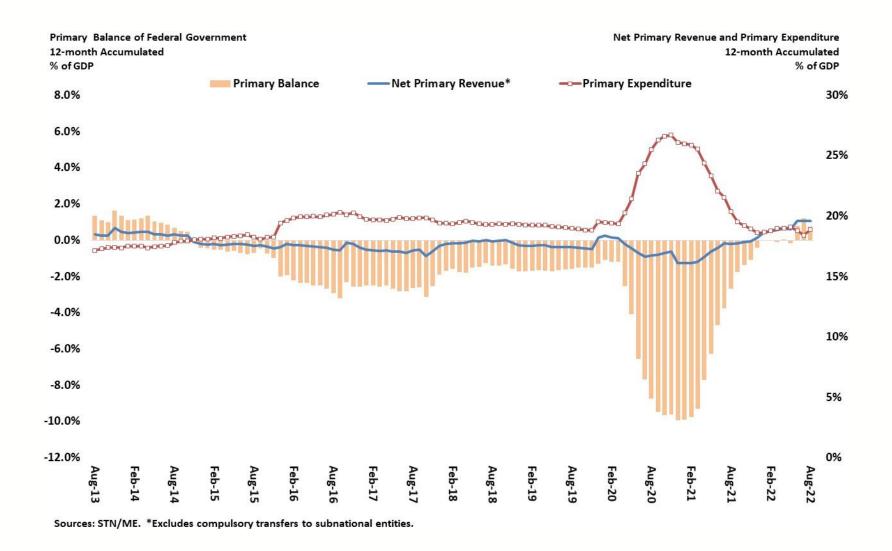
Public Sector Accounts

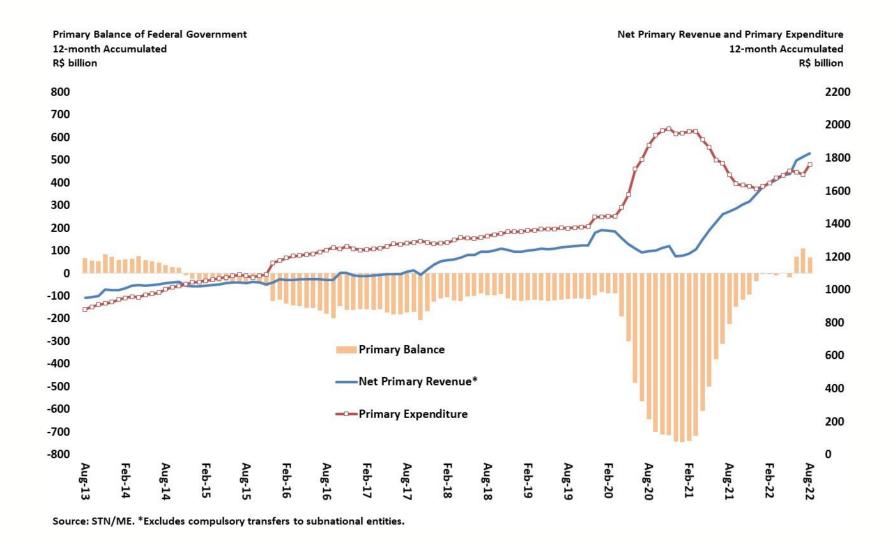
Total Primary Revenue (a) 1,883,653 1,488,999 1,635,668 1,468,096 1,932,650 2,259,446 31.6% 16.9% 25.8% National Treasury 1,008,868 1,097,817 1,222,277 1,104,334 1,477,0406 1,212,253 33.3% -17.6% 29.9% 37.4785 391,182 413,331 404,773 462,244 31.6% 12.2% 33.173 42.2% 4.												BCB/Focus:	10/14/22	
Total Primary Revenue (a) 1,883,653 1,488,999 1,635,668 1,468,096 1,932,650 2,259,446 31.6% 16.9% 25.8% National Treasury 1,008,868 1,097,817 1,222,277 1,104,334 1,477,0406 1,212,253 33.3% -17.6% 29.9% 37.4785 391,182 413,331 404,773 462,244 31.6% 12.2% 33.173 42.2% 4.	Federal Government Accounts Au	gust-22		12-month	Acummulated	Figures (in R\$	millions)			chg. %				
National Treasury 1,008,968 1,097,817 1,222,277 1,063,324 1,470,406 1,212,253 38.3% -17.6% 29.9% 29.9% 374,765 391,162 413,331 404,773 462,244 333,173 404,773 462,244 333,173 44.2% 27.79% 33.8% 32.8	Federal Budget (National Treasury/Ministry of Finance)		2017	2018	2019	2020	2021	accum. in 12-	2021 / 2020	accum. 12-		2022	2023	2024
Social Security General System 374,785 391,182 413,331 404,773 462,244 333,173 14.2% -27.9% 13.3% 14.2% 1.55,318 1.232,276 1.347,277 1.204,298 1.579,103 1.240,739 31.1% -21.4% 24.4% 24.4% 1.55,318 1.232,276 1.347,277 1.204,298 1.579,103 1.240,739 31.1% -21.4% 24.4% 24.4% 1.279,579 1.324,497 1.424,342 1.947,553 1.614,171 1.283,649 904,588 669,627 -20.5% -2.6.0% 5.8	Total Primary Revenue (a)		1,383,653	1,488,999	1,635,608	1,468,096	1,932,650	2,259,446	31.6%	16.9%	25.8%			
States and Municipalities Mandatory Transfers (b) 228,335 256,724 288,331 263,786 335,547 304,687 340,0% -13.8% 32.8% Net Primary Revenue (a-b) 1,155,318 1,227,797 1,382,497 1,442,342 1,947,553 1,614,171 1,218,588 -17.1% -24.5% 24.5% 7.7% National Treasury 722,344 766,118 15,631 1,283,649 904,588 669,627 -29.5% -26.0% 5.8% -22.6% 10.4% -24.5%	•													
Net Primary Revenue (a-b)														
Total Primary Expenditure 1,279,579 1,352,497 772,344 7766,118 1,283,649 904,558 669,627 -29,5% -22,6% 10,4% -24,5% 5.8%	· · · · · · · · · · · · · · · · · · ·		,		,		,							
National Treasury Social Security General System 557.235 586.379 626.510 6	, ,							, -,						
Social Security General System 557,235 586,379 626,510 663,904 709,583 548,961 6.9% -22.6% 10.4%	1 '					, ,								
Federal Budget (National Treasury/Ministry of Finance) 2017 2018 2019 2020 2021 2020 2020 2021 2020 2020 2021 2020 2021 2020 2020 2021 2020 2021 2020 2020 2021 2020 2020 2021 2020 2021 2020 2021 2020 2021 2020 2021 2020 2021 2020			, -	,				,-						
Primary Account Balance of Federal Government (STN/MF) -124,261 -120,221 -95,065 -743,255 -35,068 22,151 -10.0% -0.4% 0.2%	Federal Government Accounts Au	gust-22		12-month	Acummulated	Figures (in R\$	millions)			% of GDP				
National Treasury Social Security General System -182,450 -195,197 -213,179 -259,132 -247,338 -215,788 -3.5% -2.8% -2.3% Consolidate Public Sector Accounts August-22 Public Sector Financial Need (Central Bank of Brazil - BCB) Primary Account Balance Target in Law - LDO (% GDP) Primary Account Balance Primary Account Balance Federal Government -110,583 -118,442 -116,167 -88,899 -745,266 -182,470 -237,939 -6.5% -2.4% -2.5% -2.4% -2.5% -2.8% -2.3% -2.8% -2.3% -2.8% -2.8% -2.3% -2.8% -2.	Federal Budget (National Treasury/Ministry of Finance)		2017	2018	2019	2020	2021	accum. in 12-	2020	2021	accum. in			
Social Security General System -182,450 -195,197 -213,179 -259,132 -247,338 -215,788 -3.5% -2.8% -2.3% Consolidate Public Sector Accounts August-22 Public Sector Financial Need (Central Bank of Brazil - BCB) Primary Account Balance Target in Law - LDO (% GDP) Primary Account Balance Federal Government -182,450 -195,197 -213,179 -259,132 -247,338 -215,788 -3.5% -2.8% -2.8% -2.8% -2.3% Aug/22 accum. in 12-months -2020 -2021 -2021 -2022 -2023 -2023 -2024 -2023 -2024 -2023 -2023 -2024 -2023 -2024 -2025 -2023 -2025 -2026 -2021 -2027 -2028 -2029 -2021 -2029 -2021 -2020 -2021 -2021 -2020 -2021 -2020 -2021 -2021 -2020 -2020 -2021 -2020 -2021 -2020 -2020 -2021 -2020 -20	Primary Account Balance of Federal Government (STN/MF)		-124,261	-120,221	-95,065	-743,255	-35,068	22,151	-10.0%	-0.4%	0.2%			
Consolidate Public Sector Accounts August-22 Public Sector Financial Need (Central Bank of Brazil - BCB) 2017 2018 2019 2020 2021 Aug/22 accum. in 12- months Primary Account Balance Target in Law - LDO (% GDP) Primary Account Balance -110,583 -108,258 -118,442 -116,167 -88,899 -745,266 2,660 23,955 -10.0% -0.4% 0.3% 9 of GDP Aug/22 2022 2023 2024 2022 2022 2023 202 202	National Treasury		58,189	74,976	118,114	-484,123	212,270	237,939			2.5%			
Public Sector Financial Need (Central Bank of Brazil - BCB) 2017 2018 2019 2020 2021 Aug/22 accum. in 12- months Primary Account Balance Target in Law - LDO (% GDP) Primary Account Balance Primary Account Balance Federal Government -110,583 -108,258 -118,442 -116,167 -88,899 -745,266 2,660 2021 Aug/22 2020 2021 Aug/22 accum. in 12- months -0.1% -0.6% -0.2 -0.5% -0.09 -0.	Social Security General System		-182,450	-195,197	-213,179	-259,132	-247,338	-215,788	-3.5%	-2.8%	-2.3%			
Public Sector Financial Need (Central Bank of Brazil - BCB) 2017 2018 2019 2020 2021 accum. in 12-months Primary Account Balance Target in Law - LDO (% GDP) Primary Account Balance -110,583 -108,258 -61,872 -702,950 Federal Government -118,442 -116,167 -88,899 -745,266	Consolidate Public Sector Accounts Au	gust-22	12-month Acummulated Figures (in R\$ millions) % of GDP											
Primary Account Balance -110,583 -108,258 -61,872 -702,950 64,727 120,056 -9.4% 0.7% 1.3% 1.0% -0.5% 0.09 Federal Government -118,442 -116,167 -88,899 -745,266 2,660 23,955 -10.0% -0.4% 0.3%	Public Sector Financial Need (Central Bank of Brazil - BCB)		2017	2018	2019	2020	2021	accum. in 12-	2020	2021	accum. in	2022	2023	2024
Federal Government -118,442 -116,167 -88,899 -745,266 2,660 23,955 -10.0% -0.4% 0.3%	Primary Account Balance Target in Law - LDO (% GDP)											0.1%	-0.6%	-0.2%
	Primary Account Balance		-110,583	-108,258	-61,872	-702,950	64,727	120,056	-9.4%	0.7%	1.3%	1.0%	-0.5%	0.0%
	Federal Government				-88,899									
	States and Municipalities		7,498	3,492	15,196	38,748	97,694	90,783	0.5%	1.1%	1.0%			
State Owned Companies (except Petrobrás and Eletrobrás) 362 4,417 11,831 3,567 2,906 5,318 0.0% 0.0% 0.1% Net Financial Public Expenditure (Debt Interest Payments) -400,826 -379,184 -367,282 -312,427 -448,391 -364,205 -4.2% -5.2% -3.9%				,		-,	,	- ,						
												-6.4%	-7.7%	-6.1%
General Public Sector Debt (BCB) August-22 Debt Outstanding (in R\$ millions) chg. %		gust-22								0.170	,	51170		
End of Period Debt Outstanding (in R\$ millions) Dec-17 Dec-18 Dec-19 Dec-20 Dec-21 Aug-22 Dec/20 - Dec/21 - Dec/21 Dec/21 - Dec/21 Dec/21 - Dec/21	End of Period Debt Outstanding (in R\$ millions)		Dec-17	Dec-18	Dec-19	Dec-20	Dec-21	Aug-22				2022	2023	2024
Consolidated Public Sector 3,382,942 3,695,837 4,041,769 4,670,004 4,966,921 5,435,609 15.54% 6.36% 9.44%														
Federal Government 2,534,119 2,763,702 3,078,019 3,651,460 4,029,713 4,568,660 18.6% 10.4% 13.4%		T	, ,											
States and Municipalities 789,403 871,134 907,931 954,485 880,490 813,387 5.1% -7.8% -7.6% State Owned Companies (except Petrobrás and Eletrobrás) 59,420 61,001 55,819 64,060 56,718 53,563 14.8% -11.5% -5.6%	·			,										
State Owned Companies (except Petrobras and Eletrobras) 59,420 61,001 55,819 64,060 56,718 53,563 14.8% -11.5% -5.6% Net Domestic Debt 4,001,077 1,187,580 4,750,944 5,654,808 5,898,308 6,234,866 19.0% 4.3% 5.7%		+	,	- ,	,	- ,		,						
Net External Debt 5,000,000 5,000,000 5,000,000 5,000,000			, ,											
	General Public Sector Net Debt (% GDP)			52.8%		62.5%			7.8 pp	-5.3 pp	1.0 pp	58.4%	63.4%	65.5%
	General Public Sector Gross Debt (% GDP)		73.7%	75.3%	74.4%	88.6%	80.3%	77.5%		-8.3 pp	-2.8 pp	77.7%	81.9%	83.4%
General Public Sector Gross Debt (in R\$ millions) 5,449,151 5,937,904 6,437,299 7,305,734 8,014,883 8,217,814 13.49% 9.71% 2.53%	General Public Sector Gross Debt (in R\$ millions)		5,449,151	5,937,904	6,437,299	7,305,734	8,014,883	8,217,814	13.49%	9.71%	2.53%			

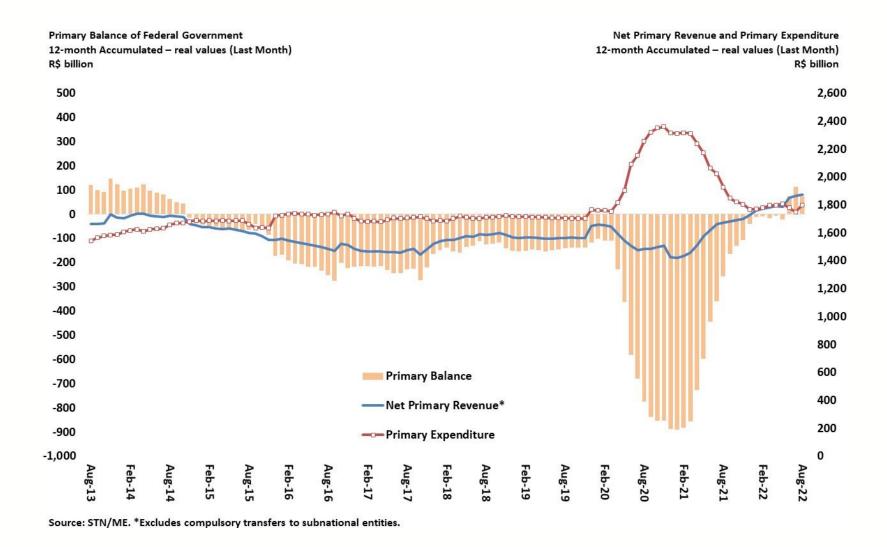


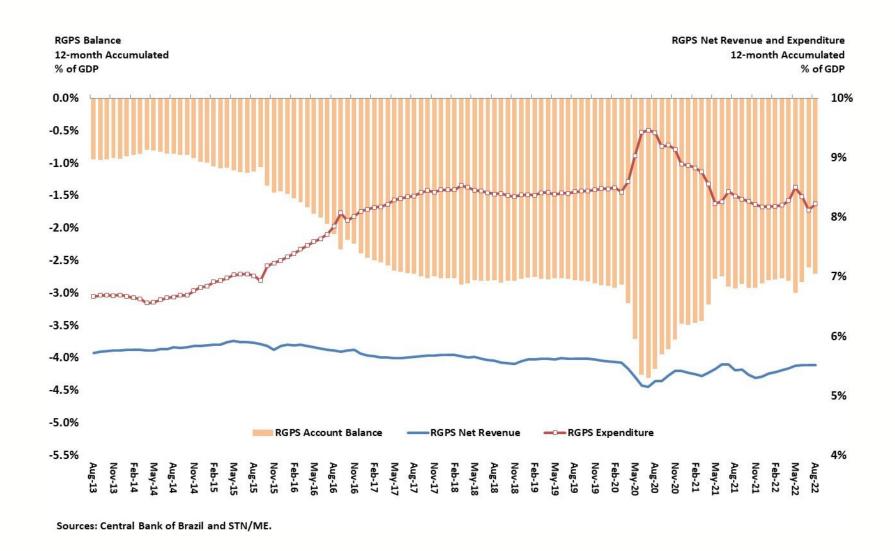
Source: IBGE, STN and Central Bank of Brazil. Primary Accout Balance of Federal Government.

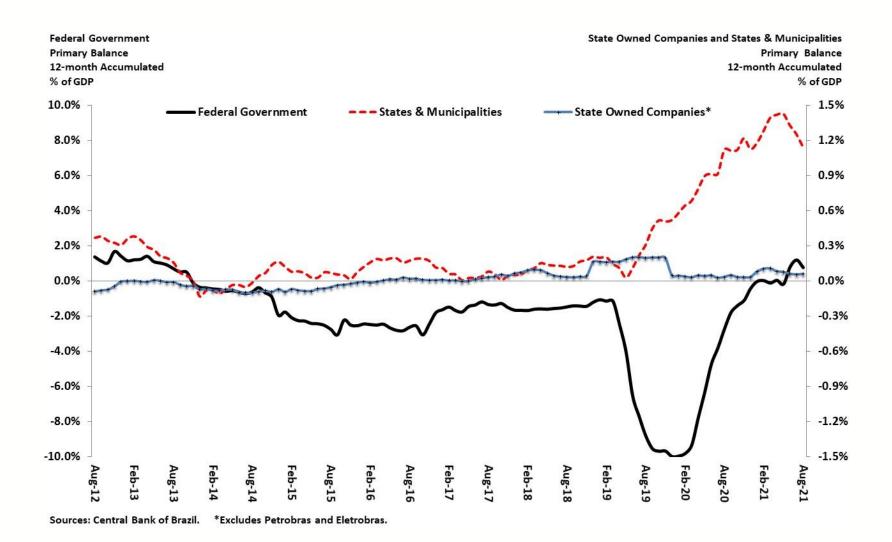
^{*} Annex-Fiscal Targets of Budgetary Guidelines Bill - PLDO 2023; and Macroeconomic Projections from SPE, September/2022.

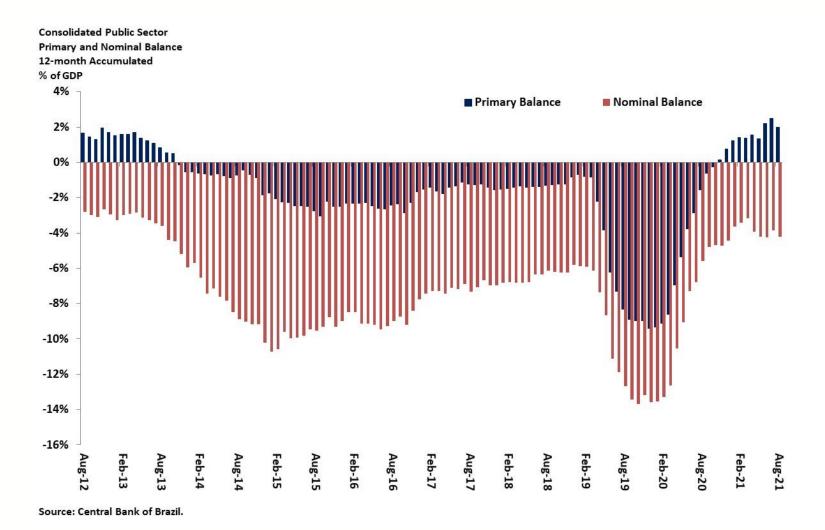


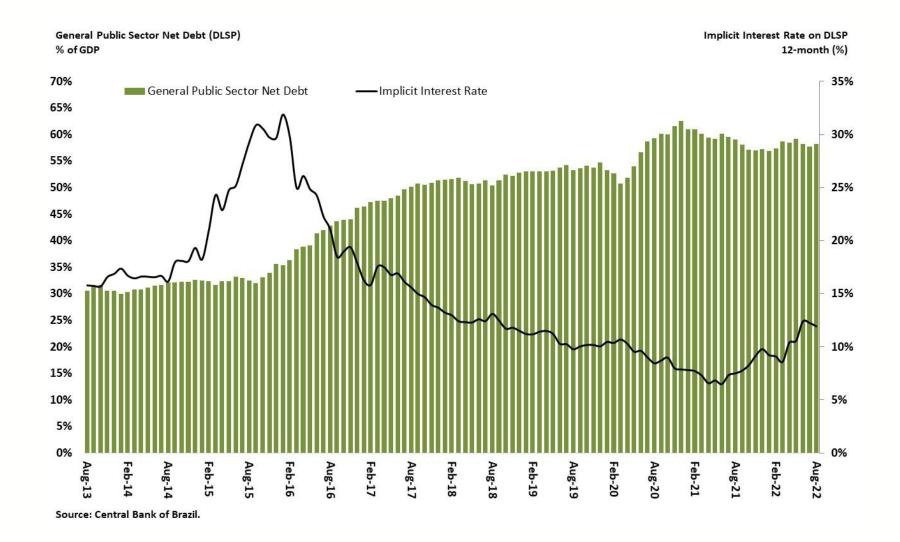


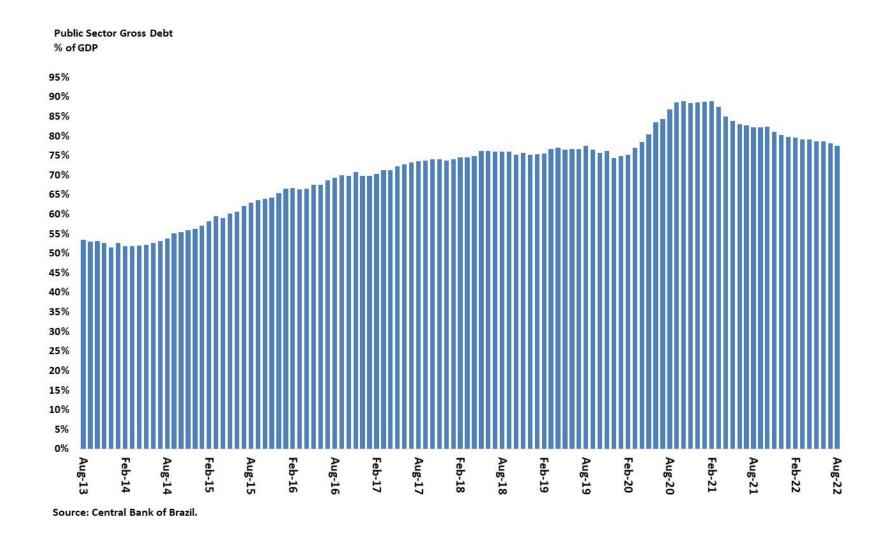






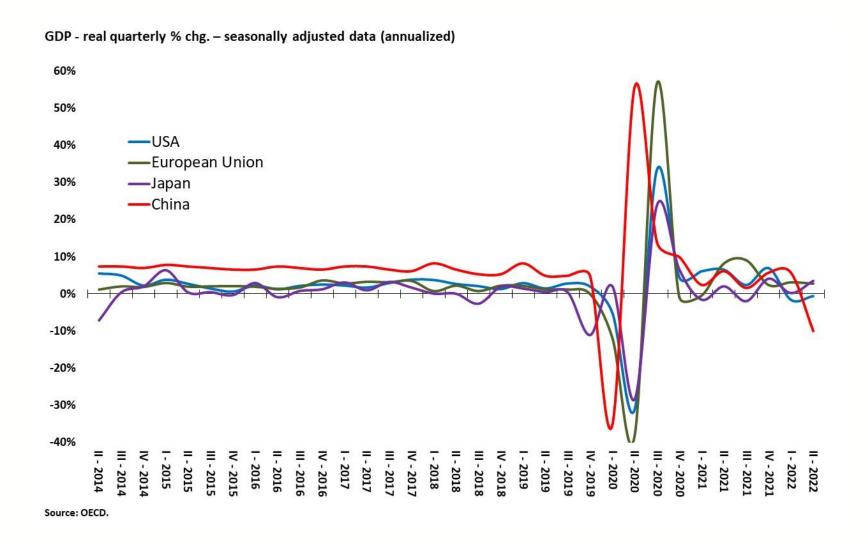




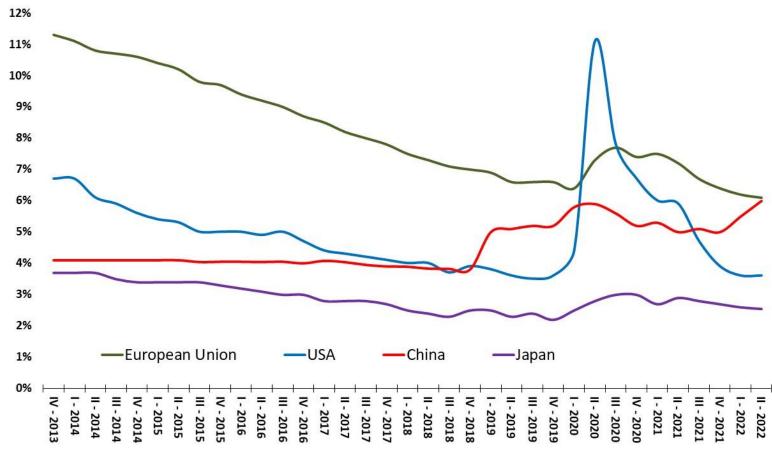


World Economy

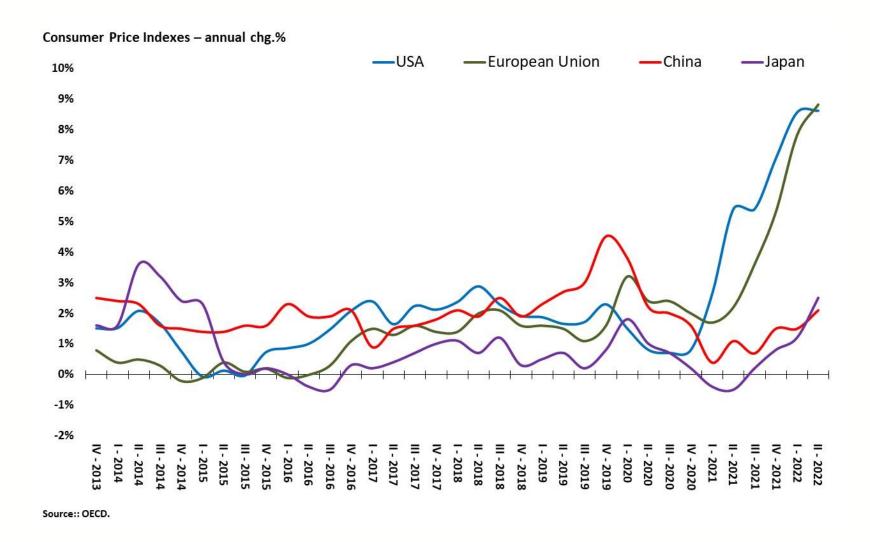
											IMF - WEO,	, Oct. 2022.
World Q4 2020 data from IMF and WTO	2017	2018	2019	2020	2021	Q4-2016 / Q4-2015	Q4-2017 / Q4-2016	Q4-2018 / Q4-2017	Q4-2019 / Q4-2018	Q4-2020 / Q4-2019	2022	2023
World Output - GDP	3.8%	3.6%	2.8%	-3.0%	6.0%	2.8%	3.6%	2.7%	-1.4%	4.4%	3.2%	2.7%
Advanced Economies	2.5%	2.3%	1.7%	-4.4%	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 Q2 2022	2017	2018	2019	2020	2021		· Q2-2022 / Q2-	Q4-2021 accum. in 4-	Q1-2022 accum. in 4-	Q2-2022 accum. in 4-	2022	2023
data from IMF, OECD, Eurostat, NBSC and METI	2017	2010	2013	2020	2021	2021	2021	quarters	quarters	quarters	2022	2020
USA - GDP	2.3%	2.9%	2.3%	-3.4%	5.7%	3.5%	1.7%	5.7%	6.5%	3.9%	1.6%	1.0%
Household Expenditure	2.4%	2.9%	2.2%	-3.8%	7.9%	4.5%	1.9%	7.9%	8.7%	5.1%		
Government Expenditure	0.5%	1.4%	2.2%	2.5%	0.5%	-1.7%	-1.6%	0.5%	-0.3%	-0.7%		
Gross Fixed Capital Formation	4.1%	4.8%	3.2%	-2.7%	7.7%	11.6%	8.8%	7.7%	12.3%	9.3%		
Exports of Goods and Services	4.1%	2.8%	-0.1%	-13.6%	4.6%	4.4%	6.7%	4.6%	8.2%	5.2%		
Imports of Goods and Services (-)	4.4%	4.1%	1.2%	-8.9%	14.0%	12.0%	10.8%	14.0%	16.2%	11.3%		
Industrial Production	1.3%	3.2%	-0.8%	-7.2%	5.5%			5.5%				
Unemployment (% of Labor Force)	4.4%	3.9%	3.7%	8.1%	5.4%			5.4%				
Consumer Price Index	2.1%	2.4%	1.8%	1.2%	4.7%			7.2%			6.4%	2.3%
European Union - GDP	3.0%	2.2%	2.0%	-5.6%	5.4%	5.5%	4.2%	5.2%	7.1%	4.6%	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%			9.4%				
Unemployment (% of Labor Force)	9.1%	8.2%	7.6%	7.2%	6.6%			6.6%				
Consumer Price Index	1.6%	1.8%	1.4%	0.7%	2.9%			3.2%			10.0%	5.0%
Japan - GDP	1.7%	0.6%	-0.4%	-4.6%	1.7%	0.9%	1.4%	1.9%	2.5%	1.0%	1.7%	1.6%
Industrial Production	2.8%	1.1%	-2.8%	-9.8%	6.4%			6.4%				
Unemployment (% of Labor Force)	2.8%	2.4%	2.4%	2.7%	2.8%			2.8%				
Consumer Price Index	0.5%	1.0%	0.5%	0.0%	-0.2%			0.0%			2.4%	1.2%
China - GDP	6.9%	6.8%	6.0%	2.2%	8.1%	4.8%	0.4%	8.1%	5.4%	3.5%	3.2%	4.4%
Industrial Production	6.1%	6.1%	6.2%	2.1%	9.6%			9.6%				
Unemployment (% of Labor Force)	3.9%	3.8%	3.6%	5.6%	5.1%			5.1%				
Consumer Price Index	1.6%	2.1%	2.9%	2.4%	0.9%			0.9%			2.7%	1.8%



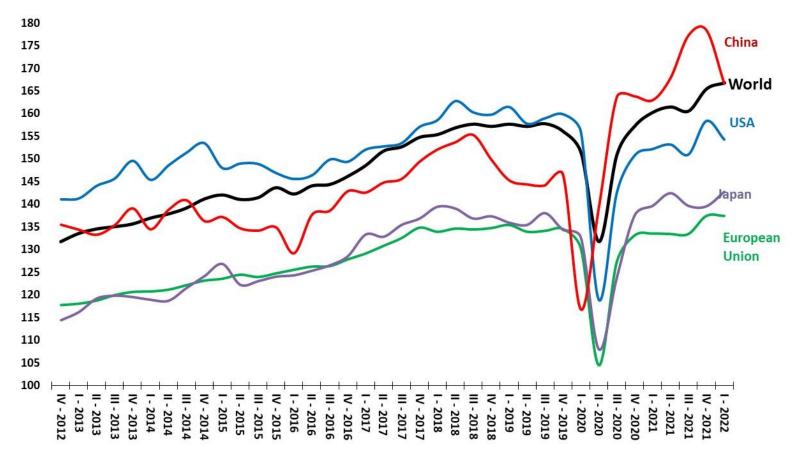




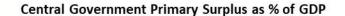
Source: OECD.

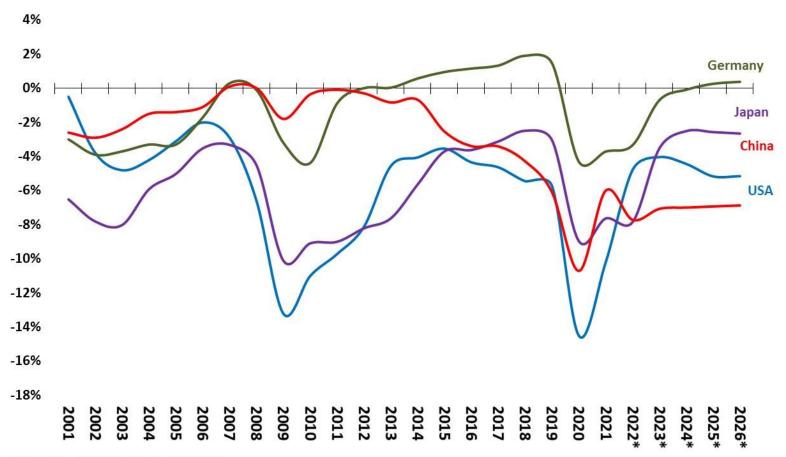




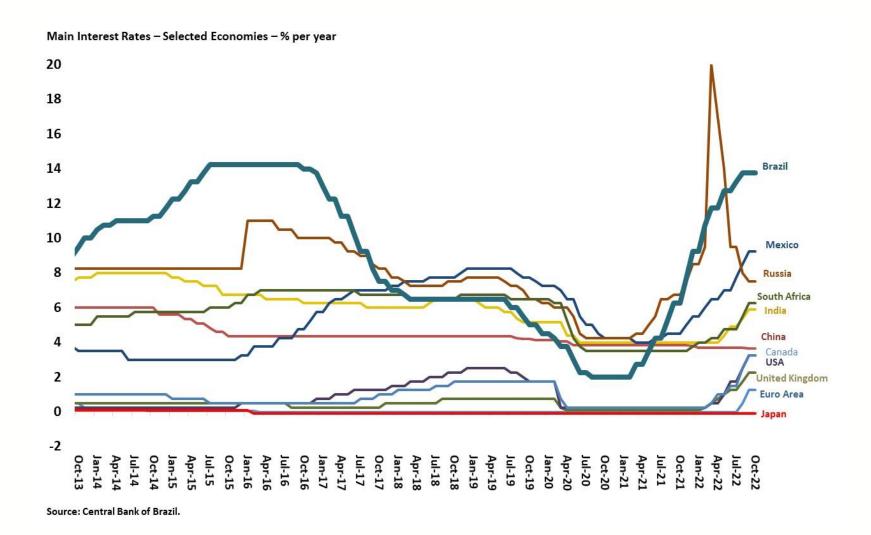


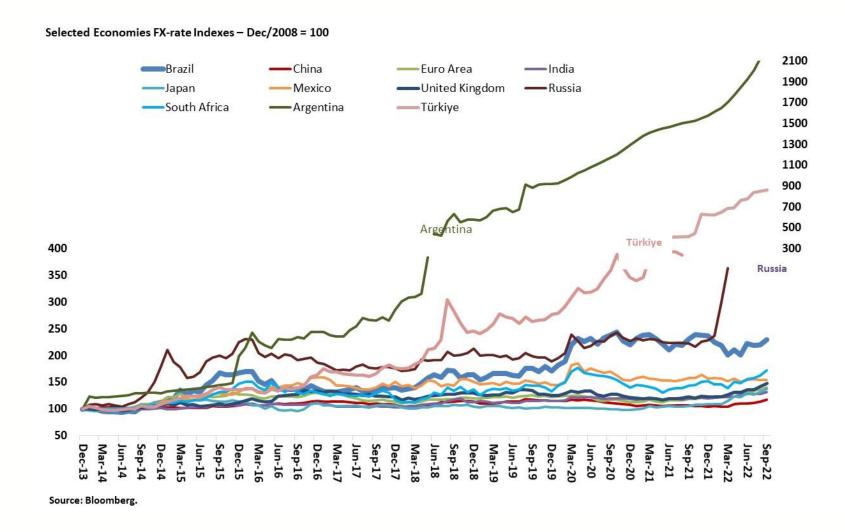
Source: WTO.

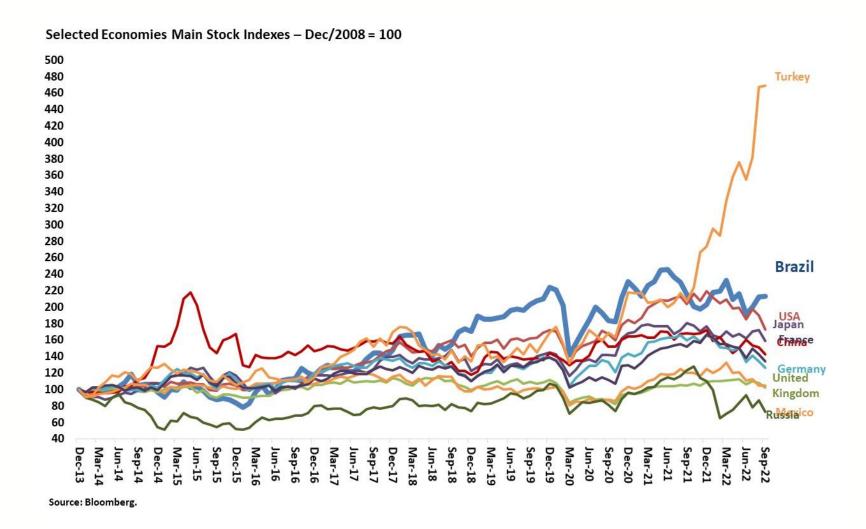




Source: IMF. * Estimated values - WEO Apr-21.







Macroeconomic Outlook

October 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:

Carlos Henrique Coêlho de Andrade

Elder Linton Alves de Araújo

Gustavo Miglio de Melo

Hébrida Verardo Moreira Fam

Lilian Cavalvante Souto

Rodrigo Mendes Pereira

Rogério Mazali

Silas Franco de Toledo

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

More information:

https://www.gov.br/fazenda/pt-br/orgaos/spe

