FLAR XIX Annual Economic Studies Conference: Cartagena – August 9th 2024



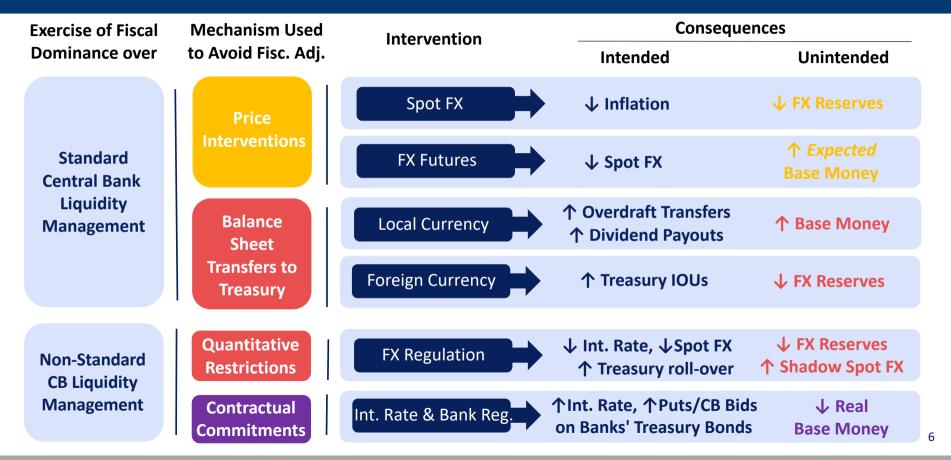
- I. OVERVIEW: The Stages of Monetary Submission to Fiscal Policy
- II. ARGENTINA IN THE 20th CENTURY: Stylized Fiscal, Monetary and Inflation Facts
- III. ARGENTINA 2009-19: Transition from Structural (Stage 2) to Systemic (Stage 3) Fiscal Dominance
- IV. ARGENTINA 2020-23: Descent into Terminal (Stage 4) Fiscal Dominance
- V. ARGENTINA'S 2024 STABILIZATION PROGRAM: A Swift Reversal of Terminal Stage Fiscal Dominance

- I. OVERVIEW: The Stages of Monetary Submission to Fiscal Policy
 - Key Research on Fiscal Dominance in Closed & Open Economies
 - Progression of Fiscal Dominance in Closed & Open Economies (Stage 1, 2, & 3)
 - Mechanics of Fiscal Dominance in Open Economies (Stage 2, 3 & 4)
- II. ARGENTINA IN THE 20th CENTURY: Stylized Fiscal, Monetary and Inflation Facts
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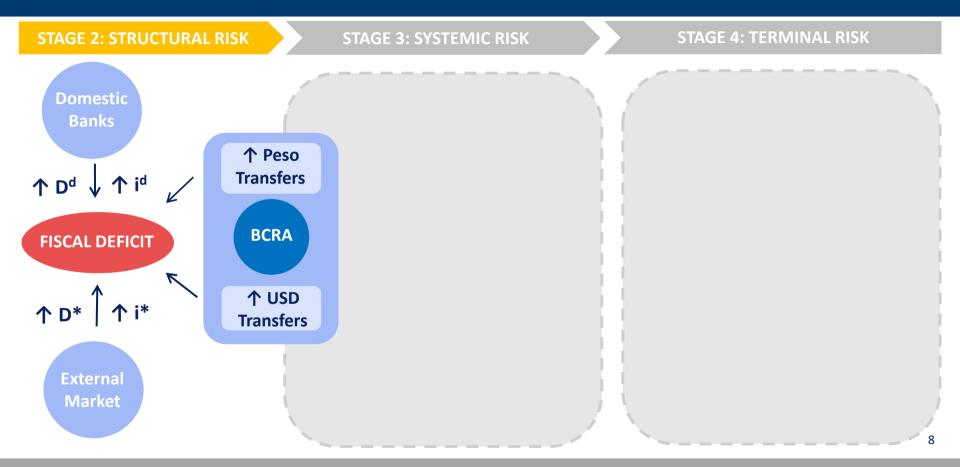
Progression	Economy	References					
Stage 1	Closed	 Sargent & Wallace (1981): Some Unpleasant monetarist arithmetic Aiyagari & Gertler (1985): The Backing of Government Bonds and Monetarism 					
	Open	 Rodriguez, C. (1978): A Stylized Model of the Devaluation-Inflation Spiral Krugman (1979): A model of Balance of Payment Crises Savastano (1992): Collapse of a Crawling Peg Regime in the Presence of a Government Budget Constraint 					
Stage 2	Closed	• BIS (2023): Monetary and Fiscal Policy: Safeguarding Stability and Trust, Chapter 2, Annual Economic Report.					
	Open	 Vegh, C. et al. (2017). Between a Rock and a Hard Place: The Monetary Policy Dilemma in Latin America and the Caribbean. LAC Semiannual Report. Washington, D.C.: World Bank. BIS (2019): Monetary Policy Frameworks in EMEs: Inflation Targeting, the Exchange Rate and Financial Stability, Chapter II, Annual Economic Report. 					
Stage 3	Closed	 Canzoneri et al (2010): The Interaction Between Monetary and Fiscal Policy, Handbook of Monetary Economics, Vol. 3, pp. 935-999 					
	Open	 Heymann & Leijonhufvud. High Inflation Chapter 3 & 4. Clarendon Press. Oxford. Calvo and Guidotti (1990): Indexation and the Maturity of Government Bonds: An Exploratory Model Werning, I. (2024): Optimal Taxation under Financial Repression Rodriguez, C. (1986): "Un análisis estilizado de la reforma financiera de Julio 1982" 					

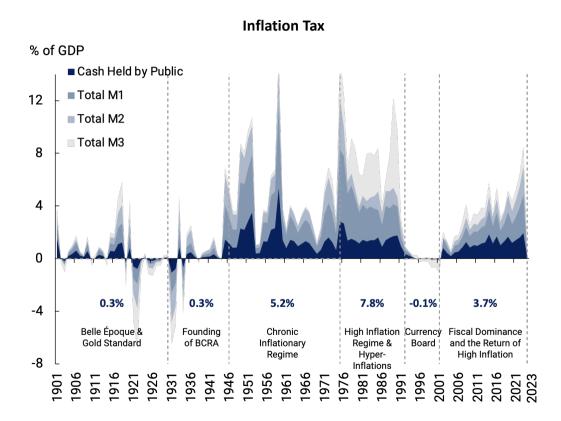
Progression	Severity	Trigger	Type of Economy	Pathway* (Fiscal Dominance)	Short Term Symptoms	Diagnosis (Monetary Policy)	
Stage 1	Cyclical Risk	Goals: Conflict over policy goals between Treasury & Central Bank	Closed	↑fd and ↑y => ↑icb	$\uparrow \pi$	Risk for Price Stability: Lack of coordination	
			Open	个fd and 个y => 个i ^{cb}	↓e ↑CAD	leads to potential deviations from CB policy goals	
Stage 2	Structural Risk	Instruments: Loss of Central Bank operational independence to Treasury	Closed	↑fd and ψ i ^{cb} => ↑y, π e	↑ π ↑ i ^T	Monetary Management:	
			Open	\uparrow fd and \downarrow i ^{cb} => \uparrow y, π e \uparrow fd and \downarrow e => \uparrow y, \uparrow e	↑e ↑CAD ↓R ↑CAD ↑i ^T	Treasury's Interference redefines CB policy goals	
Stage 3	Systemic Risk	Balance Sheet: Loss of Treasury's access to markets compromises Central Bank's balance sheet	Open	\uparrow fd, \uparrow i ^T and \uparrow M => \uparrow π ^e	↑i ^{cb} ↓ R ↑ π ↑e	Rising Monetary Liabilities: Transfer of resources deteriorates the CB Balance Sheet	
				↑fd, ↑i ^T and ↓R => ↑e ^e	↑i ^{cb} ↑R ↑π ↑e	Declining Reserve Assets: Transfer of resources deteriorates the CB Balance Sheet	

^{*}fd = Fiscal Deficit; y = Domestic Demand; M = Monetary Liabilities; R = Reserve Assets; π = Inflation; e = Exchange Rate, i = interest rate; CAD = Current Account Deficit



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 - High Fiscal Deficits & High Inflation Have Prevailed in the Post-Bretton Woods Era
 - Fiscal Imbalances Have Promoted External Imbalances (and Vice-Versa)
 - Monetary Policy Has Adopted a "Back Seat Approach", Undermining Savings and Credit
- III. ARGENTINA 2009-19: Transition from Structural (Stage 2) to Systemic (Stage 3) Fiscal Dominance
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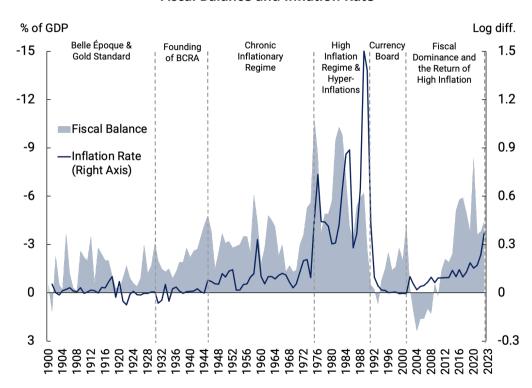




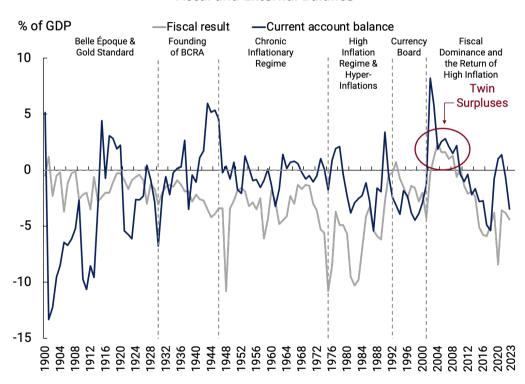
Note | The Periods Show the Average Inflation Tax Collection in % of GDP.

Source | BCRA.

Fiscal Balance and Inflation Rate

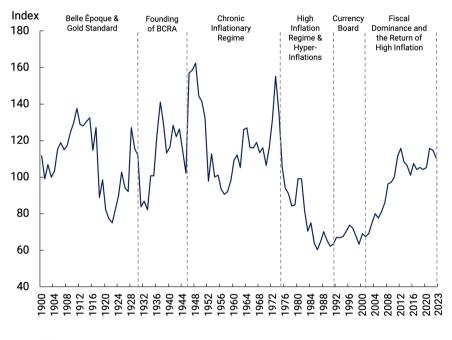


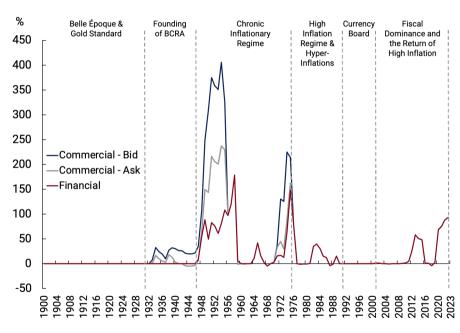
Fiscal and External Balance



Terms of Trade

FX Gap (Shadow FX Rate vs Official FX Rate)

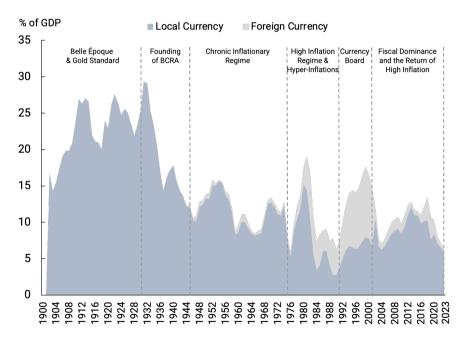




Ex-Post Real Bank CD Interest Rate

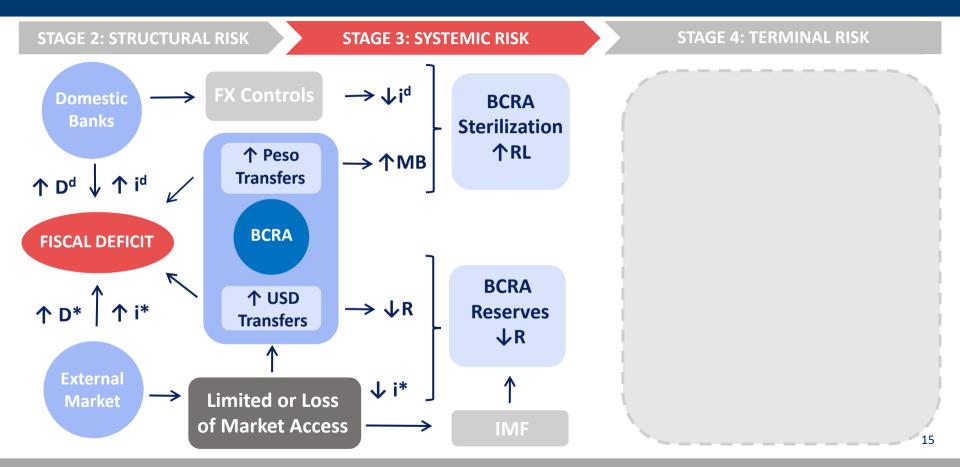
% Belle Époque & Founding Chronic Hiah Currency Fiscal Gold Standard of BCRA 40 Inflationary Inflation Dominance and Regime Regime & the Return of Hyper-High Inflation Inflations 20 -20 -40 -60 -80 -100 1992 1996 2000 924 928 932 936 940 948 952 950 2004 968 980 984 988

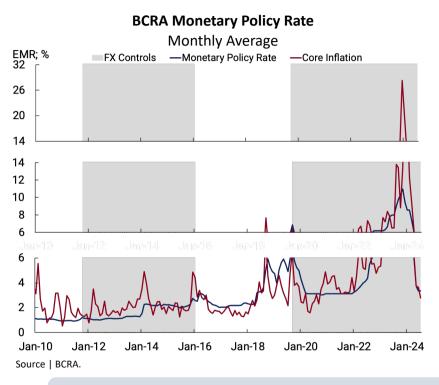
Loans to the Private Sector

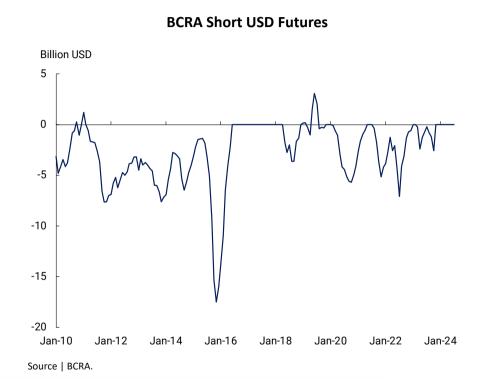


Source | BCRA. Source | BCRA.

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 - BCRA Tools (FX Controls, Int Rates & Futures Book) Served to Accommodate Fiscal Deficits
 - BCRA Balance Sheet (Monetary & Reserve Financing) Served to Fund Fiscal Deficits
- IV. ARGENTINA 2020-23: Descent into Terminal (Stage 4) Fiscal Dominance
- V. ARGENTINA'S 2024 STABILIZATION PROGRAM: A Swift Reversal of Terminal Stage Fiscal Dominance

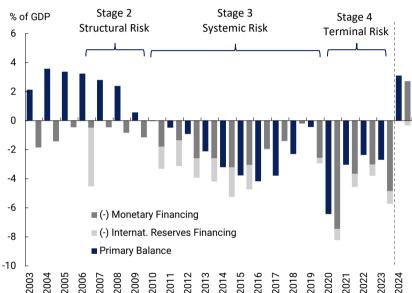






Prior to 2016 BCRA Interest Rates were Negative in Real Terms and FX Controls and FX Futures Were Imposed to Postpone Adjustments while Fiscal Deficits were Allowed to Accumulate

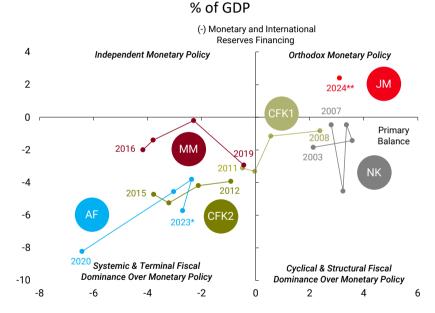
Monetization and International Reserve Financing of Fiscal Deficits



Note | For 2021 SDR Allocation of \$427.4 Billion is not Considered. For 2022 Excess Primary Income from Primary Debt Placement is not Included. 2024: Jan-Jun Seasonally Adjusted Annualized Fiscal Balance. Monetary (Temporary Loans + Dividend Payouts + PUTs and BIDs on Banks net of LECAPs backup at BCRA) and International Reserves Financing (IOUs Placement) since 10th Dec-23 to Jul-24.

Source | BCRA from Ministry of Economy data and INDEC data.

Primary Balance and BCRA Financing of Treasury Across Presidential Terms

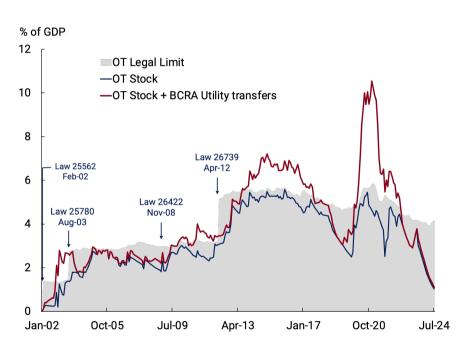


^{*}Monetary and International Reserves Financing up to 9th Dec-23.

^{**}Jan-Jun Seasonally Adjusted Annualized Fiscal Balance. Monetary and International Reserves Financing since 10th Dec-23 up to Jul-24.

Source | BCRA.

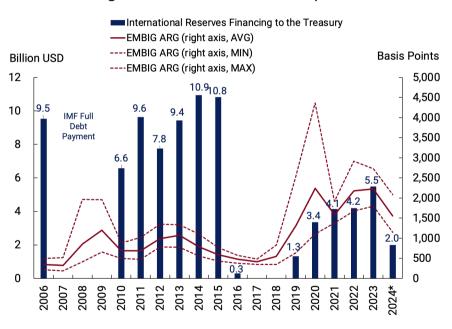
BCRA's Peso Transfers to the National Treasury



Source | BCRA from Ministry of Economy Data and INDEC Data.

BCRA's USD Transfers to the National Treasury

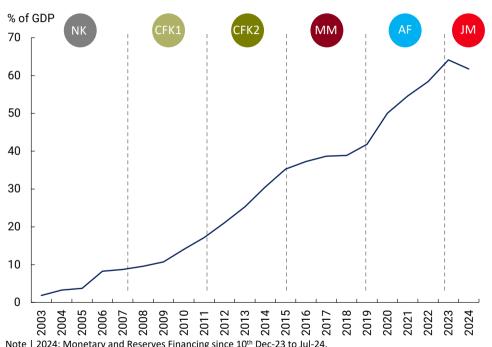
Against Non-Transferable Treasury Bills



^{*}Data up to 31st Jul-2024 Source | BCRA and Bloomberg Data.

5. The Milking of BCRA's Balance Sheet by the Treasury Under Different Administrations

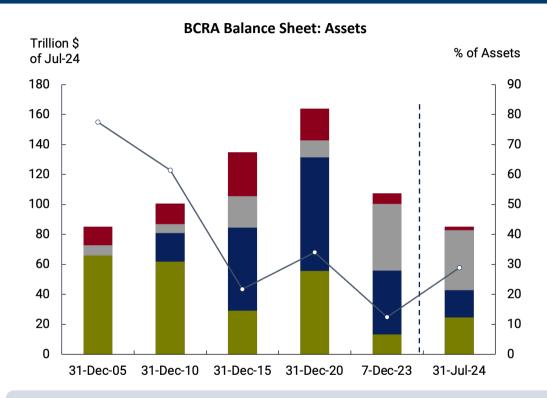
Sum of BCRA Financing (Monetary and Reserves)



Note 2024: Monetary and Reserves Financing since 10 th Dec-23 to Jul-24.	
Source BCRA and INDEC data.	

Presidential Term									
	NK	CFK1	CFK2	ММ	AF				
Fiscal Performance & Effort									
4-Year Sum of Primary Balance (p.p. of GDP)	+13.0	+2.4	-10.0	-10.7	-14.5				
Primary Balance, Final vs Inherited (Change in p.p.)	+0.7	-3.3	-3.3	+3.3	-2.3				
BCRA Financing of Treasury (Peso + USD)									
Peso: Sum of Monetization (p.p. of GDP)	2.8	5.2	11.5	6.1	19.0				
USD: Sum of Int. Reserve Financing (p.p. of GDP)	4.0	3.3	6.6	0.4	3.3				
Total Financing	6.9	8.4	18.1	6.6	22.3				
Fiscal Dominance Ratios									
Monetization/Primary Deficit (%)			114	57	131				
Sum of Int. Reserves Financing / Initial NIR (%)	74	38	100	43	141				

Source | BCRA, Ministry of Economy and INDEC data.



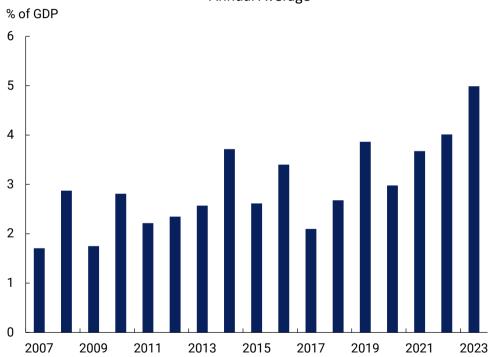


Note | Treasury Bond Holdings Includes Bonds Denominated in Pesos and Foreign Currency. In 2005, 2010, 2023 and 2024 Bonds Were Mostly in Pesos. Source | BCRA.

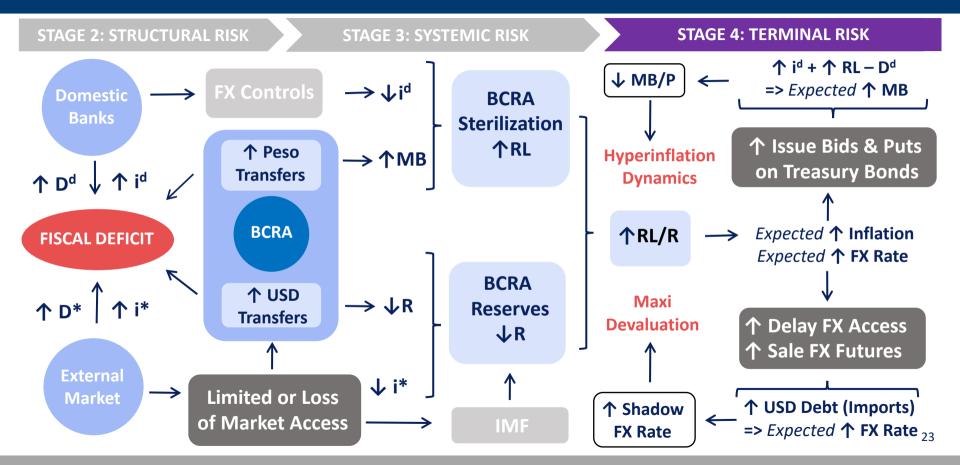
BCRA's Gross Reserves Collapsed from 80% of Total Assets to 25% During the Period of Systemic Fiscal Dominance, and Eventually Bottomed to 10% by the End of the Terminal Stage







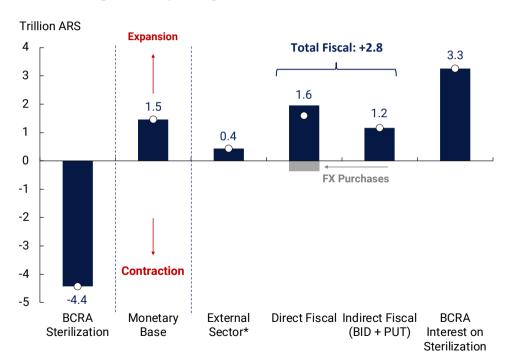
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 - Fiscal Deficits Persisted Even After the Debt was Restructured (2020) and After the IMF' Program (2022)
 - Divergence Between BCRA Remunerated Liabilities and Net Reserves Reaches Extreme
 - Interest on BCRA Sterilization Becomes Major Source of Endogenous Money Growth
 - Contractual Commitments (CB Bids & Puts) Shifts Dominance from Fiscal to Banking System
- V. ARGENTINA'S 2024 STABILIZATION PROGRAM: A Swift Reversal of Terminal Stage Fiscal Dominance



2. Terminal Stage Fiscal Dominance Pushes BCRA's Sterilization Capacity to its Limits

Drivers of Monetary Base 2020-2023

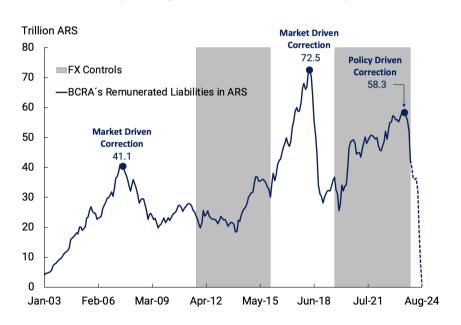
Average Monthly Change at Constant Prices of June 30, 2024



^{*}Excludes Fiscal Foreign Exchange Purchases. Source | BCRA.

BCRA's Remunerated Liabilities in ARS

Monthly Average, at Constant Prices of July 2024



Source | BCRA.

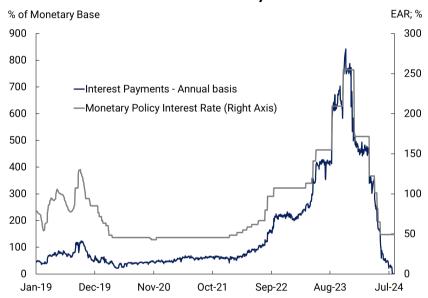
BCRA Remunerated Liabilities in ARS

As Percentage of the Monetary Base



Source | BCRA.

Interest Payments on BCRA's Remunerated **Liabilities and Policy Rate**



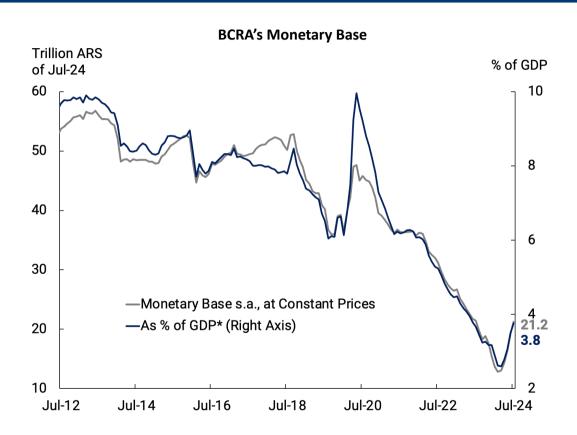
Note | Data as of August 2nd, 2024. Source | BCRA.

Banks Exercise (vs BCRA) of Bid and Put's on Treasury Holdings



Source | BCRA.

BCRA Sterilization Defeated its Own Purpose as Policy Rate Hikes Only Served to Create New Money Supply at a Fast Pace and Raise Inflation Expectations. The Exercise of Bids and Puts Created "Banking System Dominance"



^{*}Calculated on GDP s.a.; 3 Months Moving Average. Source | BCRA.

BCRA Net International Reserves and Remunerated Peso Liabilities

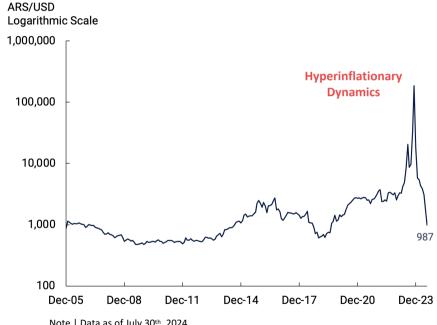


Note | Net International Reserves are Gross Reserves minus BIS and France Bank debt, FX Bank Reserves, SEDESA, USD repos, LEBAC in USD and Swap with China.

Source | BCRA.

Ratio of BCRA Remunerated Liabilities to Net Reserves

Excluding Liabilities with Foreign Residents



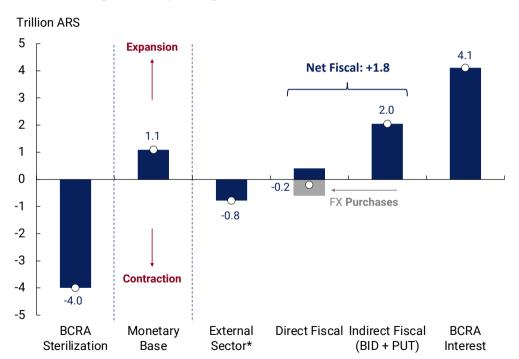
Note | Data as of July 30th, 2024. Source | BCRA.

The Extreme Divergence Between Liabilities and Reserves Left the Economy on the Brink of Hyperinflation

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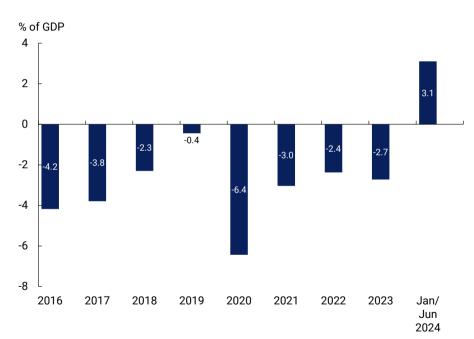
Drivers of Monetary Base 2023 (Up to December 10th)

Average Monthly Change at Constant Prices of June 30th, 2024



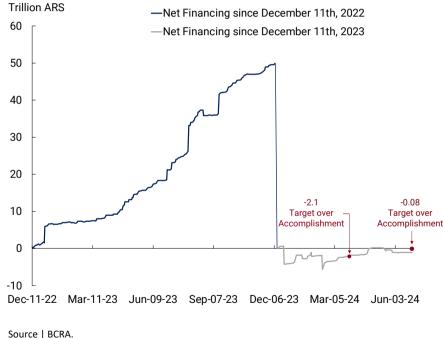
^{*}Excludes Fiscal Foreign Exchange Purchases. Source | BCRA.

Primary Balance of the Non-Financial Public Sector

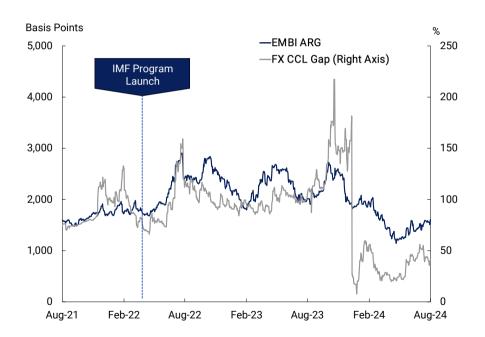


Note | Jan/Jun 2024: Seasonally Adjusted Annualized Primary Balance Source | BCRA and Ministry of Economy.

Sum of Net Financing At Constant Prices of June 30th, 2024

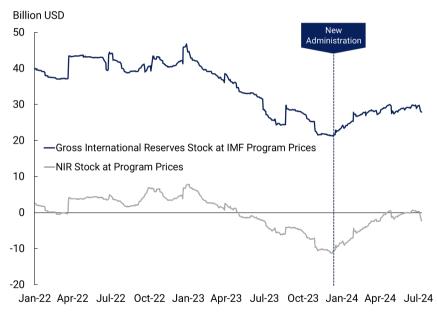


Argentine Government Debt Spreads and FX GAP



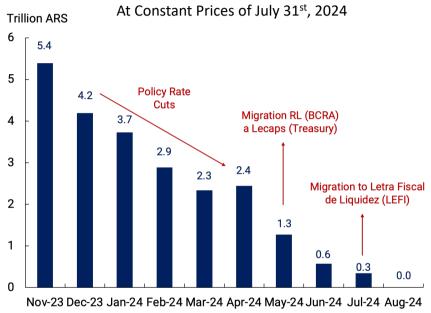
Source | Bloomberg.

BCRA Reserves Stocks

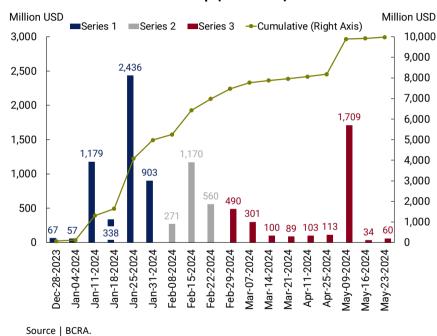


Note | Data as of July 11th, 2024. Source | BCRA.

BCRA Interest Payments on Remunerated Liabilities



FX Swap (BOPREAL)

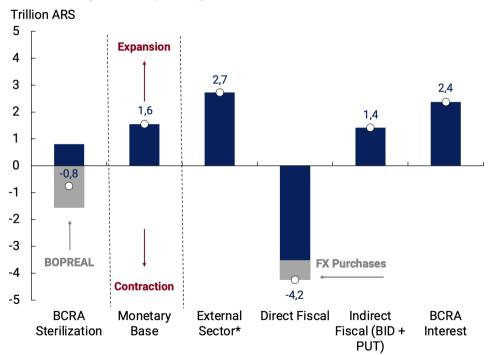


Monetary Flexibility (Rate Cuts) was Instrumental to Reduce Endogenous Money Supply and Inflation Expectations while Policy Creativity (FX Swaps) were able to Transform a Large Stock of FX Demand into Flows

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Drivers of Monetary Base Expansion

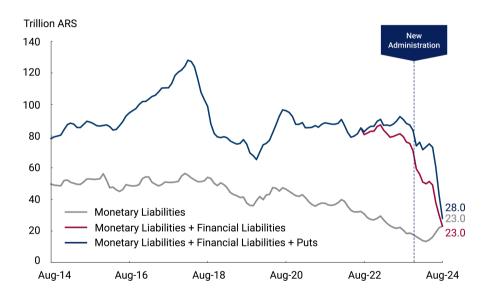
Average Monthly Change at Constant Prices of June 30th, 2024



^{*}Excludes Fiscal Foreign Exchange Purchases. Source | BCRA.

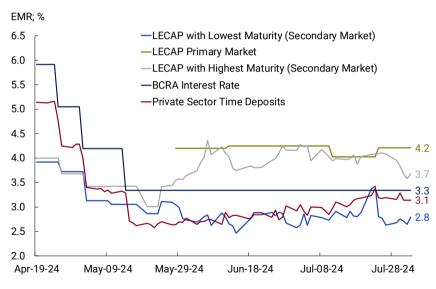
BCRA's Liabilities and Contingencies (Bids+Puts)

At Constant Prices of August 2024

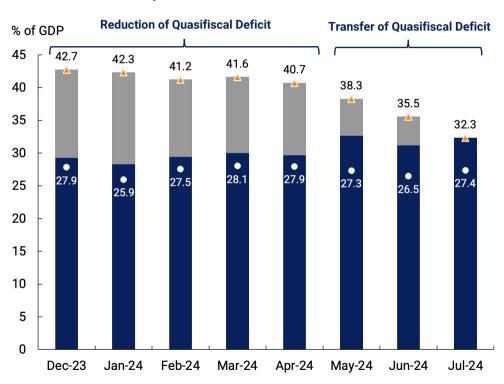


Note | BCRA's Remunerated Liabilities in Foreign Currencies are Excluded. Data as of July 10th, 2024. Note | Through Communication 'A' 7546 Issued on July 12th, 2022, the BCRA Enabled the Auctioning of Put Options on Sovereign Bonds. Source | BCRA.

Interest Rates Monthly Average



Treasury and BCRA. Net Consolidated ARS Debt



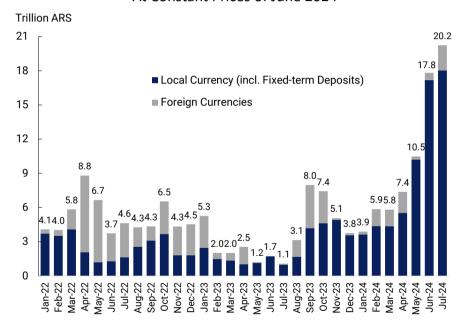
- BCRA Remunerated Liabilities in ARS (A)
- Treasury Public Debt in ARS (Excluding BCRA Securities Holdings) (B)
- ▲ Consolidated ARS Debt (A+B)
- OB Net of National Treasury ARS Deposits

Note | ARS Deposits Considers Treasury Deposits in BNA (Including Fixed-term Deposits) and in BCRA Accounts.

July estimated | National Treasury Public Debt Includes ARS 9.6 bn. of LEFI Holdings of Banks (in Exchange for Passive Repos from the BCRA).

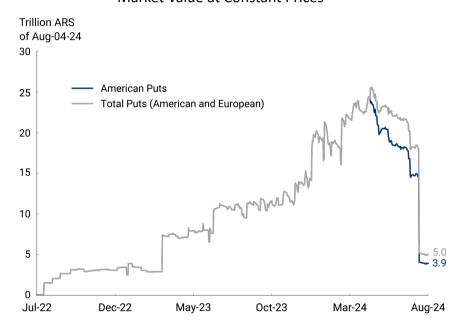
Source | BCRA, INDEC and Secretary of Finance.

Treasury's Liquid Peso Deposits At Constant Prices of June 2024



Note | Data as of July 31st. Source | BCRA.

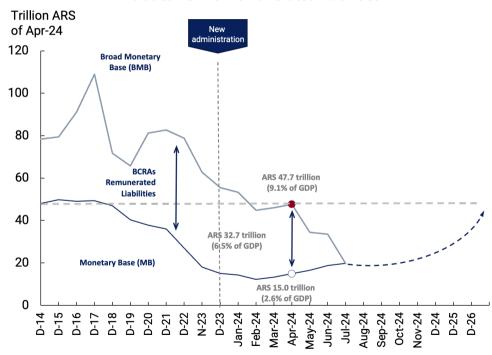
Stock of Puts Held Against BCRA by Banks on Treasury Holdings Market Value at Constant Prices



Source | BCRA.

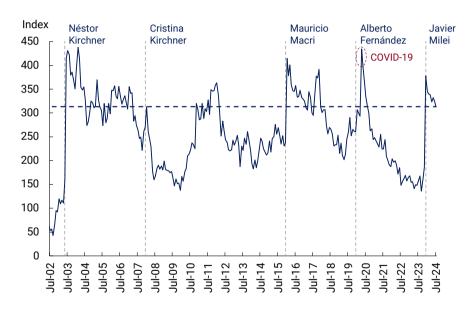
Monetary Base and Broad Monetary Base

Includes BCRA's Remunerated Liabilities



Source | BCRA.

Confidence in Government Index



Cyclically Adjusted Confidence: Ratio of Standardized Confidence in Government Index to Consumer Confidence Index

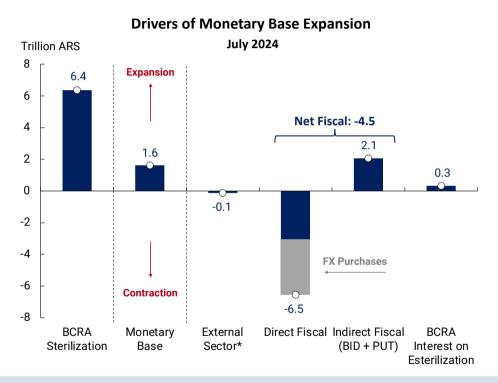


Source | BCRA from Universidad Torcuato Di Tella data.

Source | BCRA from Universidad Torcuato Di Tella data.

Argentina Stabilization Program: Reversing Terminal Stage Fiscal Dominance over Monetary Policy

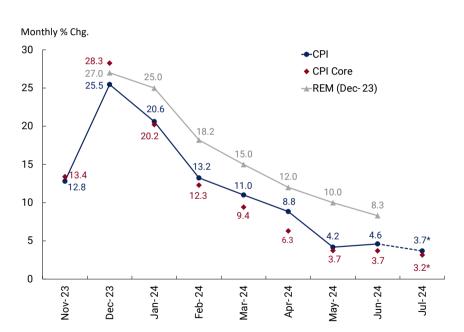
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Bank Liquidity will Serve as a Source of Growth for the Monetary Base and Money Multiplier but Only When Driven by Growth in Money Demand and Demand for Credit. Repatriation will also Fuel Remonetization in USD

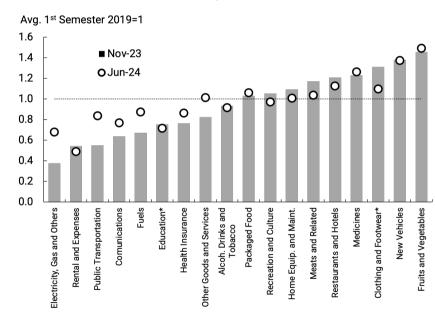
^{*}Excludes Fiscal Foreign Exchange Purchases. Source | BCRA.

Headline CPI: Consensus Forecasts (REM) vs. Actual Data



^{*} Forecast Included in <u>Argentina Stage II: Establishing an Orthodox Monetary Framework</u>, July 2024 Source | BCRA.

Relative Prices CPI Groups/Headline

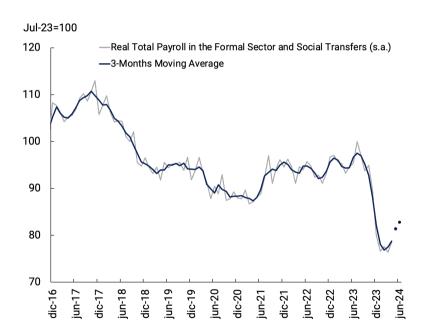


^{*}Data as of Jun-24 in Relation to Jun-19 Compared to Data as of Nov-23 in Relation to Nov-18, to Address Seasonal Considerations.

Source | BCRA from INDEC.

Argentina 2024: Remonetizing a Bi-Monetary Economy 3. Consumption Drivers & Money Demand Turning the Corner

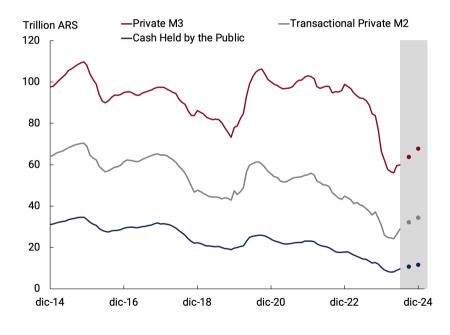
Household Payroll (Salaries + Social Transfers)



Source | BCRA from INDEC, Labor Employment and Social Security Secretariat, and Ministry of Economy

Monetary Aggregates

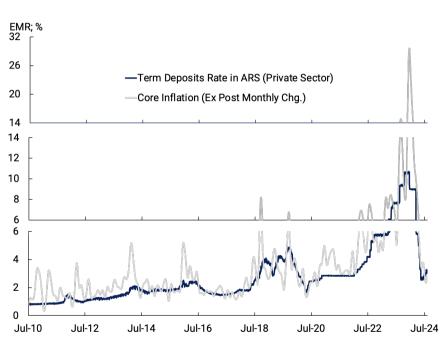
Seasonally Adjusted at Constant Prices of June, 2024



Source | BCRA.

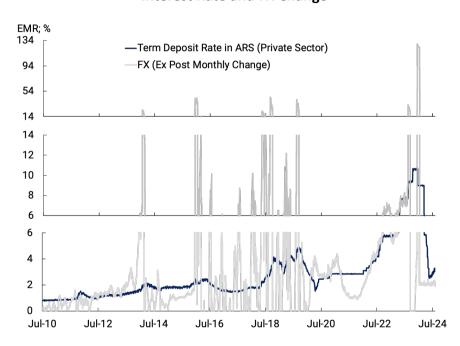
4. Currency Competition/Bimonetarism: Peso Demand is Being Reinforced with Rates That Excede the Pace of USD

Interest Rate and Inflation



Source | BCRA

Interest Rate and FX Change



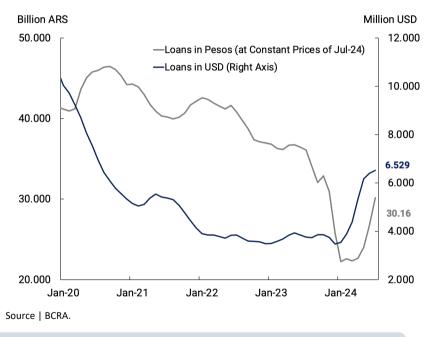
Source | BCRA.

Credit to the Private Sector

As % of Total Assets of the Financial System



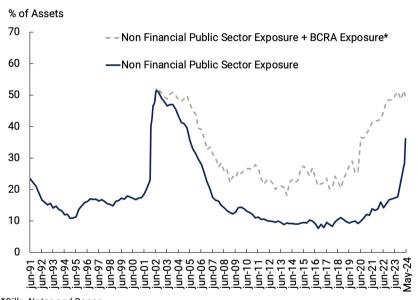
Loans in Pesos and Foreign Currency



Policy Flexibility (Rate Cuts) was Instrumental to Reduce Endogenous Money Supply and Inflation Expectations while Policy Creativity (FX Swaps) were able to Transform FX Demand from Stocks into Flows

Banking Systems' Public Sector Exposure

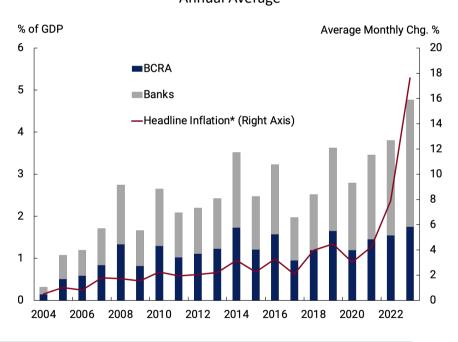
As % of Total Assets – Financial System



^{*}Bills, Notes and Repos. Source | BCRA.

Transparency: Banks' True Exposure to Public Sector Revealed by Price Rise on Bond Holdings and Transfer of BCRA's Quasi-Fiscal Balance Back to Treasury. Banks Will Need to Pursue Loan Growth as Their Take of the Inflation Tax Dwindles

Inflation Tax (Transactional Private M2) Annual Average



47

Argentina 2024: Remonetizing a Bi-Monetary Economy 7. Very Low Corporate Leverage & Recovering Capital Market

Leverage Ratios of Publicly Traded Argentine Corporates

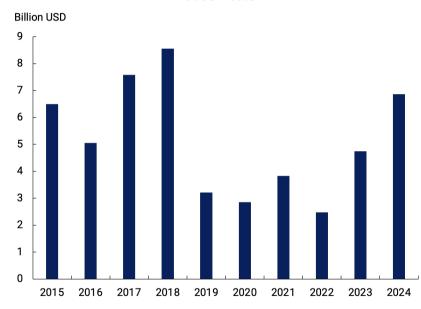
Net Debt Ratio = (Gross Debt – Cash) / EBITDA

				•				•			
Net Leverage	2Q19	4Q19	2Q20	4Q20	2Q21	4Q21	2Q22	4Q22	2Q23	4Q23	1Q24
YPF	2.0x	2.2x	3.0x	5.0x	2.7x	1.6x	1.3x	1.2x	1.4x	1.7x	1.7x
Vista	1.6x	1.1x	2.4x	3.5x	1.7x	0.8x	0.6x	0.4x	0.5x	0.5x	0.6x
TGS	0.7x	0.8x	0.8x	0.9x	0.6x	0.3x	0.2x	0.2x	-0.1x	0.1x	0.1x
TGN	0.4x	0.3x	0.1x	0.2x	0.5x	-0.9x	-1.1x	0.4x	-0.8x	-0.8x	-3.5x
Transener	0.2x	0.1x	0.1x	-0.1x	0.0x	-0.6x	-0.2x	-0.6x	-0.3x	-0.3x	-0.6x
Pampa Energía	1.8x	1.8x	2.2x	2.1x	1.6x	1.3x	1.3x	1.2x	1.1x	0.9x	1.1x
Central Puerto	1.1x	1.5x	1.4x	2.4x	2.1x	1.5x	1.2x	0.8x	0.3x	0.8x	1.1x
GEMSA	2.5x	3.3x	3.5x	3.8x	4.8x	5.1x	4.4x	4.9x	5.8x	6.3x	6.6x
MSU Energy	8.3x	8.1x	7.9x	6.3x	5.0x	4.7x	4.8x	4.9x	4.9x	4.8x	4.7x
Genneia		4.4x	3.5x	3.3x	3.4x	3.0x	2.8x	2.8x	2.8x	3.2x	3.3x
YPF Luz		3.5x	3.9x	3.9x	3.1x	2.3x	2.1x	2.1x	2.0x	2.1x	2.2x
Telecom Arg	1.3x	1.6x	1.5x	1.8x	1.8x	2.0x	2.1x	2.2x	2.3x	3.2x	2.4x
Loma Negra	0.8x	0.8x	1.2x	0.1x	0.1x	-0.1x	0.0x	0.4x	0.8x	0.9x	1.3x
Ternium Arg	0.8x	0.1x	-0.4x	-0.9x	-0.6x	-0.8x	-1.0x	-1.2x	-1.0x	-1.1x	-1.4x
IRSA	2.6x	3.6x	4.5x	2.6x	4.6x	5.6x	1.7x	1.4x	1.8x	1.3x	1.5x

Note | Leverage = Net Debt / EBITDA Net Debt = Gross Debt – Cash and Equivalents Source | Latin Securities.

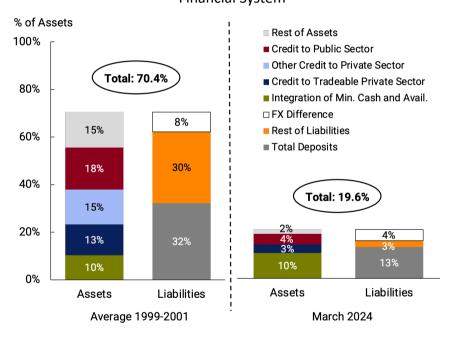
Total Finance in Capital Markets

1st Semester



Note | Valued at MEP Exchange Rate. Source | CNV.

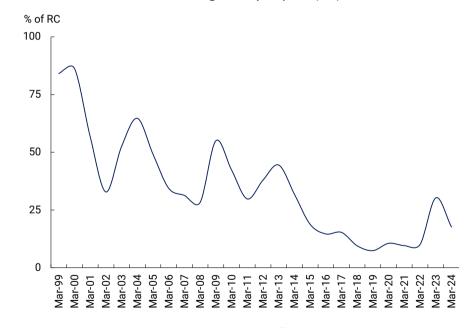
Banking Sector Balance Sheet in Foreign Currency Financial System



Source | BCRA.

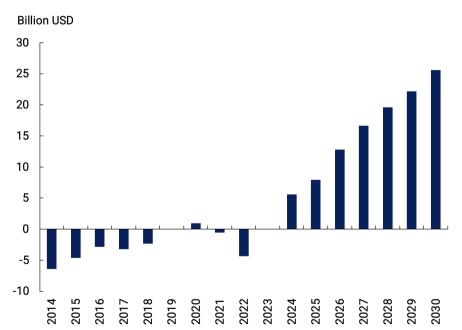
Banking System Foreign Currency Mismatch*

As % of Regulatory Capital (RC)



^{*}Assets - Liabilities + Net Undelivered Term Purchases (Off-balance Accounts). Source | BCRA.

Projected Energy Trade Balance



Source | BCRA

Investment Opportunities in the Energy Sector

Sector	Projects	Deadline Until	Billion USD
	 Upstream Investments: Andes Project (Auction 		
Oil Production & Infrastructure	of Oil Areas) and Development of Vaca Muerta	2027	7,4
	 Petrochemicals and Biofuels: New Fertilizer 		
	Flant, Agrochemicals Flant, Polyduct and		
	Maritime Terminal and Port Expansion and		
	Refinery Reconversion)	2030	3,8
Gas Production & Infrastructure	∘ Shale Gas Wells	2026	4,8
	 Gas Pipelines for the Internal Market 	2026	6,8
	 Export Gas Pipelines 	2027	9,1
	 LNG (Plant, Ship and Gas pipeline) 	2027	14,5
Generation and	 Transportation System Expansion 		
Transportation		n.d.	4,6
Renewable	 Wind projects (Green Hydrogen) 	2032	2,0*
	 Sustainable Aviation Fuels (SAF) 	2027	0,4
	∘ Bioethanol	2026	0,3
	· Cogeneration	2026	0,6
Total			54,3

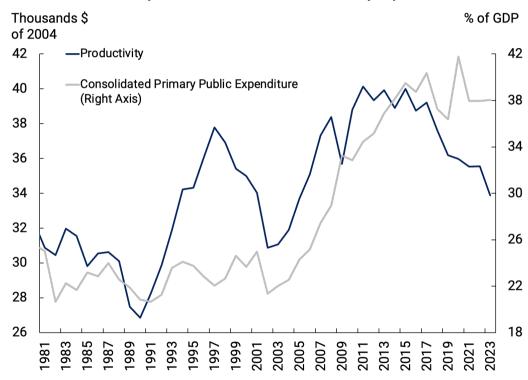
^{*}Million USD for Each GW of Installed Wind Power. Source | BCRA From Ministry of Economy

Declaration of May 2024: Commitments Signed by Federal & 18 Provincial Governments

- 1. Protection of **Private Property.**
- 2. Non-negotiable Commitment to **Fiscal Balance.**
- 3. Reduction of General **Government Spending** to 25% of GDP.
- 4. High Quality **Education:** Initial, Primary and High School; 100% Literacy, 0% Dropout Rate.
- 5. **Tax Reform** to Reduce Tax Burden, Simplify the System and Promote Trade.
- 6. Proposal for a **Federal Tax Sharing System** with Provinces, Fostering Responsibility and Progress.
- 7. Prioritize Exploitation of **Natural Resources** Endowment.
- 8. Modern **Labor Reform**, Oriented to Promote Labor Formality.
- 9. **Pension Reform** Aimed at a Sustainable System that Prioritizes Pensioners Compliant with Deductions.
- 10. **Openness to International Trade.**

Note | The Pact Was Signed on July 9th by the President of the Nation and by 18/24 Governors of Subnational Districts. Only 6 Governors of Provinces did Not Sign it: Buenos Aires, La Pampa, Formosa, Tierra del Fuego, La Rioja y Santa Cruz (whose governor would later sign it).

Productivity and Consolidated Public Primary Expenditure



Note | Productivity = GDP/Total Employment. Consolidated Primary Public Expenditure of 2023 is Estimated. Source | BCRA From Ministry of Economy and INDEC **Argentina Stabilization Program: Reversing Terminal Stage Fiscal Dominance over Monetary Policy**

Thank you