A NEW APPROACH FOR INDUSTRIAL STRATEGY IN BRAZIL

25 October 2024

MINISTÉRIO DA GESTÃO E DA INOVAÇÃO EM SERVIÇOS PÚBLICOS



Deindustrialization around the world

Not a homogeneous phenomena

South x North

Table 1
Manufacturing VA in GDP (1970–2018; current prices).

	1970	1975	1980	1985	1990	1995	2000	2005	2010	2018
South	13,5 %	14,2 %	17,3 %	17,7 %	17,9 %	17,8 %	17,0 %	18,7 %	19,3 %	20,4 %
North	28,5 %	26,5 %	25,2 %	23,1 %	21,9 %	19,7 %	18,1 %	15,9 %	14,6 %	13,9 %
World	25,9 %	24,1 %	23,6 %	22,2 %	21,4 %	19,6 %	18,1 %	17,0 %	16,6 %	17,0 %
by Developing Are	a									
SS Africa	16,2 %	18,1 %	18,3 %	18,3 %	16,9 %	16,7 %	14,6 %	13,2 %	10,3 %	10,6 %
South Asia	14,1 %	16,2 %	17,1 %	17,1 %	17,9 %	18,2 %	16,7 %	16,9 %	17,7 %	16,2 %
S-East Asia	15,3 %	16,0 %	18,5 %	19,0 %	23,1 %	24,1 %	25,8 %	25,6 %	23,2 %	21,4 %
Latin America	22,7 %	23,6 %	21,8 %	22,5 %	21,8 %	18,3 %	18,0 %	17,2 %	15,5 %	14,2 %
MENA	7,7 %	7,1 %	6,7 %	7,9 %	9,8 %	10,5 %	9,1 %	8,5 %	8,5 %	9,5 %
China	na	na	31,0 %	27,1 %	24,5 %	21,6 %	20,9 %	32,1 %	31,6 %	29,1 %

SS Africa: Sub-Saharan Africa; MENA: Middle-East and North Africa. Source: Based on data from UNStats plus author's completion. "na": no reliable figure available.

Southeast Asia x Latin America

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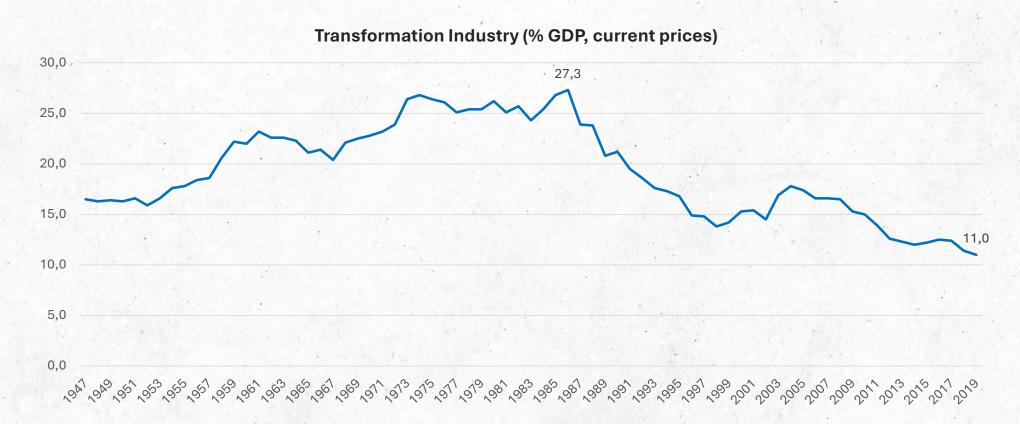
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Deindustrialization in Brazil

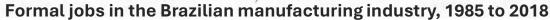
Severe and premature

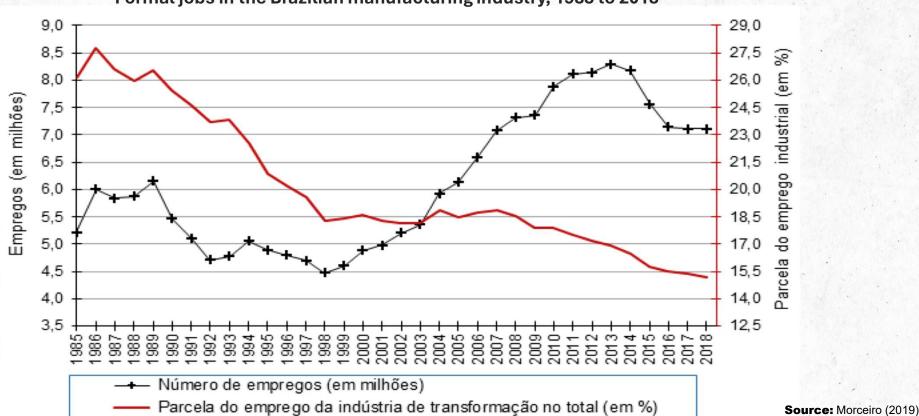
Decline in industry as share of GDP



Source: Morceiro (2024). The author harmonizes the series according to the National Accounts System 2010 and corrects for a financial dummy before 1995.

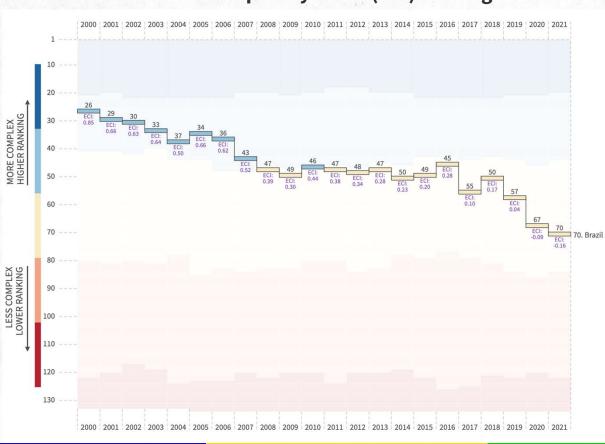
Decline in industrial jobs





Loss of industrial complexity

Economic Complexity Index (ECI) ranking



- **70th** of 133 contries
- Loss of 23 positions in 10 years
- Loss of 44 positions in 21 years

Source: Growth Lab, Harvard

Premature deindustrialization

Manufacturing peak and trough (in % of GDP) at constant 2010 prices

	Países	Pico no PIB (em %)	Ano	PIB per capita em PPC de 2017	Mínima no PIB (em %)	Ano	PIB per capita em PPC de 2017	Variação (em %)
19	Austrália	16,5	1970	23,5	5,9	2017	50,5	-64,2
2º	Reino Unido	17,4	1970	18,3	9,1	2016	43,2	-47,7
3∘	Brasil	22,3	1976	10,3	12,5	2016	15,3	-43,9
4º	Canadá	16,2	2000	40,6	10,5	2017	47,6	-35,2
5º	Alemanha	29,5	1970	23,5	19,5	2009	42,8	-33,9
69	Argentina	24,6	1973	14,9	17,1	2002	13,4	-30,5
7º	Rússia	19,9	1990	22,6	14,3	2009	24,0	-28,1
85	Filipinas	28,6	1974	3,7	20,8	2009	5,5	-27,3
99	Espanha	17,4	1978	19,0	12,9	2012	33,9	-25,9
109	França	13,3	1971	20,9	11,2	1993	32,2	-15,8

Fonte: ONU (The National Accounts Main Aggregates Database), IBGE e The Conference Board.

Source: Morceiro e Tessarin (2023)

Drivers of Brazilian premature deindustrialization

Domestic issues

- The 1980 external debt crisis
- Rapid and abrupt trade liberalization
- Unfavourable macroeconomic policies, characterized by high interest rates and an appreciated FX rate
- Commodity boom in the 2000s and relative prices
- 'Cost' disease and the difficulties in increasing productivity

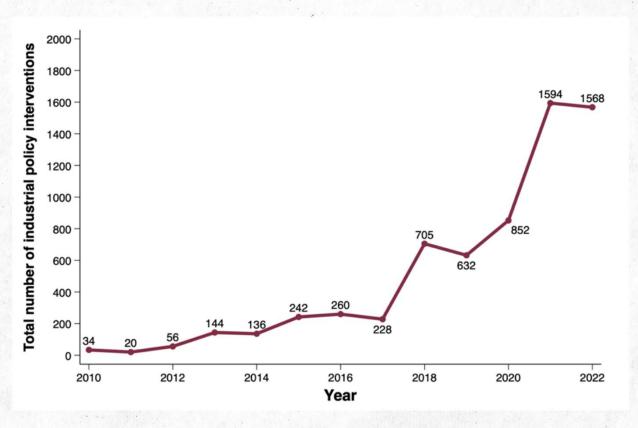
Global trends

- Multinational corporations, GVCs and offshoring of less complex industrial activities
- China and Southest Asia's industrial growth, with low labor costs and fiercer competition
- M&A, capital concentration and higher entry barriers
- Rebirth of industrial policy, specially in developed countries

The rebirth of industrial policy worldwide

Unashamed

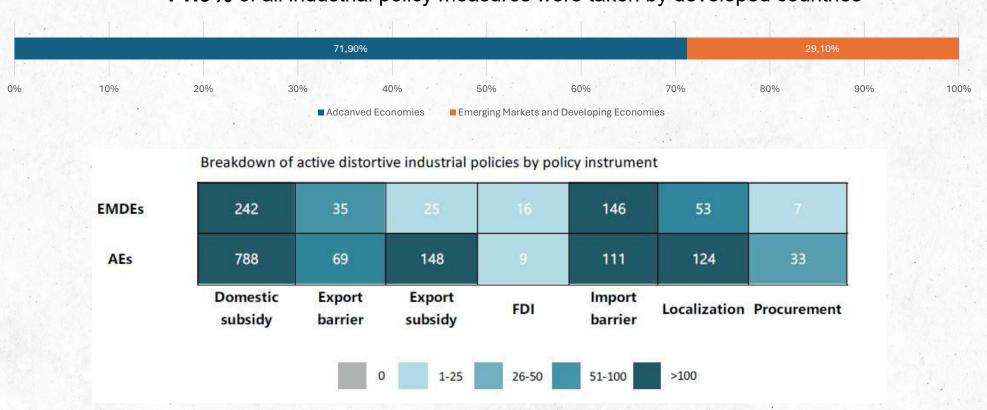
Growing use of industrial policies in the world



Source: Juhász, Lane and Rodrik (2023).

Advanced Economies leading the change

71.9% of all industrial policy measures were taken by developed countries



Source: Evenett, S., Jakubik, A., Martín, F. and Ruta, M., 2024. The return of industrial policy in data. The World Economy, 47(7), pp.2762-2788. IMF WP

The risk of lagging behind

- Difference of state capacities
 - Data, Planning and Coordination
 - Financial resources
- Power imbalances in Multilateral System
- New alliances leaving only supporting roles for EMs (except China and India)
- Unequal impacts of climate change

Difference in pocket sizes

US: USD 1.9 trillion

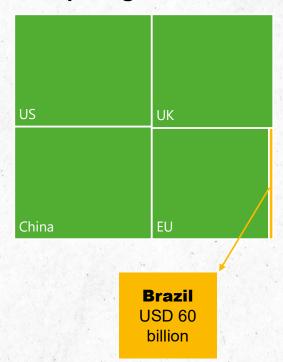
- Operation Warp Speed: USD 12.4 billion
- Infrastructure Investment and Jobs Act (IIJA): USD 547–715 billion
- Inflation Reduction Act (IRA): USD 392 billion USD 1.2 trillion
- CHIPS and Science Act: USD 280 billion

UK: USD 1.7 trillion

EU: USD 1.6 trillion

China: USD 1.9 trillion

Comparing:



Structural change in Brazil

Digital, Green and Inclusive

Return of development as an agenda

Social needs

- Sharp decline in severe food insecurity
- Reduction of extreme poverty
- Consumption boost

Reforms for longterm growth

- New fiscal regime – fiscal space for public investment
- VAT Reform



Back to global stage

- Mercosur presidency
- G20 presidency
- COP30 host
- BRICS presidency



Structural change

- Ecological Transformation
- New Industrial Policy
- State Transformation

New industrial policy - NIB

- Participatory design and governance through CNDI (National Council of Industrial Development)
- Mission-based industrial policy: Providing solution to societal needs
- Supply and Demand-based instruments

NIB's missions

- #1 Sustainable and digital **agro-industrial chain**s for food, nutritional and energy security
- **Resilient Health Economic-Industrial Complex (HEIC)** to reduce the vulnerabilities of the SUS and expand access to health
- Sustainable infrastructure, sanitation, housing and mobility for productive integration and well-being in cities
- #4 Digital transformation of the industry to increase productivity
- Bioeconomy, decarbonization, and energy transition and security to ensure resources for future generations
- #6 Technologies of interest to national sovereignty and defense

Priority sectors*

- Precision Agriculture Equipment
- Agricultural Machinery
- Biofertilizers

Main initiatives*

Credit and Grants: USD 70.2 million **Business Environment**

- Rationalize port fees, improve the guarantee system
- Regulatory convergence with the main markets for brazilian exported products
- Digital platform for production control and traceability

Public Procurement: strenghening food procurement programms (PAA and PNAE)

Priority sectors

- Medicines and biological active ingredients
- Vaccines, blood products and advanced therapies
- Medical devices

Main initiatives

Public Investment: USD 1.56 billion

- Production of viral and bacterial vaccines, including two new Butantan Institute factories
- Hemobrás plant the largest blood derivatives plant in LA

Direct Credit: USD 1.95 billion (2023-2024)

Public Procurement:

- Improvement in PDP (Parcerias para o Desenvolvimento Produtivo)
- Creation of PDIL (Parcerias para o Desenvolvimento e Inovação Local)
- Preference Margin for medical drugs in public procurement

Priority sectors*

- Electromobility
- Battery production chain
- Digital and low-carbon construction
- Metro rail industry

Main initiatives*

Public Investment: USD 3.07 billion in medium and high-capacity urban public transport systems

Business environment:

- Improve regulation for natural gas
- National Program for Sustainable Aviation Fuel (SAF) + raising the ethanol blend in gasoline to 30%.

* Preliminar

Priority sectors

- Semiconductor
- Industrial robots
- Advanced digital products and services (Cloud Computing, Digital Platforms, Audiovisual Industry, Gaming Industry)

Main initiatives

Direct Credit +Grants: USD 17.7 billion

Business environment: accelerated depreciation

(USD 300 million)

Public Procurement: Preference Margin for TICs in

public procurement

Priority sectors*

- Bioenergy
- Equipment for generating renewable energy
- Cosmetics

Main initiatives*

Directed credit and grants to bioproducts and bio-inputs, biofuels, green hydrogen, carbon capture, energy storage, renewable energies and strategic minerals

Business environment:

- Green Seal and Amazon Seal programs
- Improve regulation and harmonize legislation for reverse logistics, carbon markets, and intellectual property
- Train innovation agents from Amazon region's ecosystem

Public Procurement:

- Solar energy in the federal housing program (MCMV)
- Preference margin and local content requirements in PV panels and wind turbines.

Priority sectors*

- Nuclear energy
- Communication and sensing systems
- Propulsion systems
- Autonomous and remotely controlled vehicles

Main initiatives*

Credits and Grants for technological content projects from Strategic Defense Companies

Business environment:

- Export Support System,
- Regulation of patent applications of national defense interest

Public procurement: USD 9.26 billion in Strategic Defense Projects

Public investment in the NB4 Maximum Biological Containment Lab and Brazilian Multipurpose Nuclear Reactor

Directed Loans





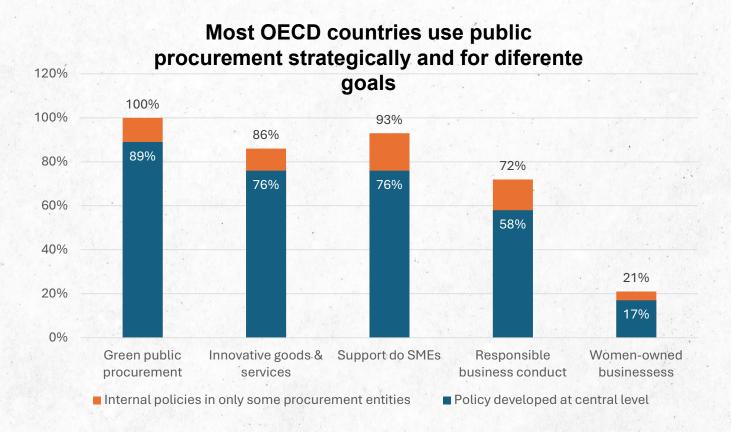
Instruments								
2	Loans w/ special conditions							
#	Equity							
(C)	Grants and non-refundable resources							

FX rate January 2024: 4.92 BRL/USD

Demand-side instruments

- Review of international agreements to ensure the right to use the state's purchasing power
 - Withdrawn offer to join the WTO's GPA (Government Procurement Agreement)
 - Changed offers in negotiations with Singapore, EFTA and the EU
- Public Procurement National Strategy
- Interministerial Commission on Public Procurement for Sustainable Development (CICS)
 - Margins of preference
 - Technological, industrial and commercial offsets
 - Pre-commercial procurement

Strategic Public Procurement in OECD Countries



And have been doing it for a long time...

Buy American Act requires preference for goods made in US since 1933

Source: Strømsnes, Presentation to DFØs Procurement Conference, Oct 2023

Brazilian experience with strategic public procurement

PAA (Food Procurement Program): acquires the production of 200,000 family farmers to provide access to food for people facing food insecurity

PNAE (National School Feeding Program): provides meals to 44 million students annually across Brazil's 5,568 municipalities

- At least 30% of the procured food comes from family farms.
- Preference margin of 30% for organic products on every procurement of the program
- At least 50% of the value procured from individual rural families must be procured from women

Productive Development Partnerships (PDPs): requires technology transfer to Brazilian public institutions in exchange of multi-annual supply contracts of strategic products

Few but noticeble pre-commercial procurement:

- Fiocruz-AstraZeneca COVID Vaccine by August 2021, 74.8% of the vaccines used were produced locally
- Embraer C-390 secured supply contracts with Portugal, Hungary, Austria, Netherlands, Czech Republic and South Korea

Experience with local content requirements

On public credit

- BNDES
- Regional development funds

On oil exploration concession contracts

 The national oil agency (ANP) requires minimun local content levels in platforms and equipments for oil exploration in Brazilian shores

Preference margins

	Produced in Brazil	Developed in Brazil
Buses	10%	
Railway equipment	10%	
PV Systems	10%	
Heavy construction machinery	10%	
Medicine	5%	10%
ICT	10%	10%

In 2023, the share of these sectors on Federal Government procurement was

48%

National Strategy of Public Procurement

Problems

Underutilization of the State possibilities and opportunities as a major buyer

Risk Aversion Culture

- Fear of the control bodies;
- Results for society of lower prices biddings are overestimated;
- Bidding contractors lack flexibility and feel unsecure to innovate;

Focus on the lowest price biddings

Lack of coordinati on among public bodies

- Public procurement policy is not used as a tool to support strategic policies;
- There is still a vision to be build on what it is expected in terms the public procurement policy;
- Examples: Industrial policy, Environmental policy, Educational policy, Health policy.

Lack of State Capacities

- Need for capacitation and motivation of procurement agents
- Need for clear methodology to define best public value
- Systems designed to prevent corruption and not to provide strategic data

Major Goal: increase strategic use of public procurement

Production

Increase the country industrialization level

Embed innovation in the procurement process as a tool for solving government problems

Strengthen MSMEs

Increase the national businesses competitiveness

Increase local and regional supply

Environmental and Social

Deliver environmental benefits in contracts, including working towards reducing GHG emissions.

Fight deforestation

Inclusion opportunities especially for women, black, indigenous, disabled, and rural communities

Create employment opportunities particularly for those in vulnerability

Create opportunities for entrepreneurs and business creation, strengthening MSMEs

Fight income inequality

Increase of socially and environmentally sustainable goods and services in government procurement

Integrate economy in public procurement

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