

Strategic Map

OF INDUSTRY

2013-2022

SHORT VERSION

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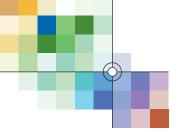
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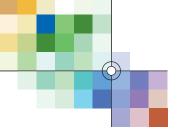
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Introduction

Brazilian industry presents its vision for the country. The Strategic Map of Industry 2013-2022 resulted from the effort of more than 500 business representatives to identify necessary actions for Brazil to grow more and better and reflect on problems hindering its growth.

Our landmark is 2022. The year Brazil will celebrate 200 years of independence. It is an inspiration for us to step up our ambition and plan a strategy for what we want to be and what we need to do.

The world has changed, so have Brazil and its industry. We have new challenges and opportunities before us. The agenda we are presenting to Brazilian society is a prospective exercise on these changes.

It is an agenda based on the perception that industry has a future in Brazil. This future, however, is conditional upon our ability to act on our problems, to develop new competencies in education and innovation, and to adapt to the conditions of the global economy.

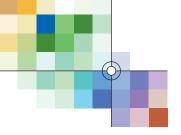
We are part of the world. Brazil should learn from the examples of other nations. Our benchmark should not be ourselves. The Strategic Map emphasizes the need to compare ourselves with other countries. The speed and reach of our reforms and advances should be assessed in the light of international comparisons.

This comparison should guide our ambition and sense of urgency. The National Confederation of Industry – Brazil invites entrepreneurs, society, and the branches of government to join forces and build a more competitive and fairer economy.

The year 2022 is approaching. We cannot afford to miss the opportunity to use it as a catalyst of the visionary desire of industry for Brazil.

Robson Braga de Andrade

President of the National Confederation of Industry – CNI



1 Global and prospective vision

Changes in the world economy require new responses from Brazil. A new geography of growth, production, and innovation has emerged, with clear effects on Brazil's insertion in the world.

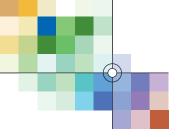
Brazilian industry competitiveness is sensitive to these changes and to other external and internal changes. Future changes are largely permeated by a high level of uncertainty. However, it is possible to foresee certain phenomena whose future effects will have a strong impact on economic and industrial activity with a fair degree of certainty. These major future trends with an impact on industrial competitiveness in 2022 are summarized in the figure below.

FIGURE 1. SUMMARY TABLE OF GLOBAL AND DOMESTIC TRENDS WITH AN IMPACT ON INDUSTRY

Globa	l trends with a strong impact on industry
Growth	of emerging countries
Knowle	dge and innovation as engines of the economy
New ge	ography of global production
Emerge	nce and dissemination of new technologies
Climate	change and low-carbon economy
Dome	stic trends with a strong impact on industry
Strengtl	hening of the domestic market
Demog	raphic transitions
Spatial	reconfiguration of economic activity

From 2013 to 2022

These trends point to both threats and opportunities for Brazilian industry. Brazil can and should aspire for a strong and internationally competitive industry, but for that purpose it needs to face the challenge of raising productivity and efficiency levels by addressing key competitiveness factors. The Strategic Map of Industry 2013-2022 identifies these key factors and suggests ways for Brazil to take advantage of opportunities and to overcome obstacles.



2 Key factors to enhance the competitiveness of Industry

The main objective of the **Strategic Map of Industry 2013-2022** is that of **promoting competitiveness** with **sustainability**. The essence of this vision is that, by 2022, Brazilian industry will have gained a high **competitive edge** on the international market while duly observing **sustainability** criteria.

Competitiveness has a multidimensional character whose determinants must be addressed if it is to be promoted. **Productivity** is the main determinant of competitiveness. Actions to increase productivity must come from two sources: from the enterprises themselves, as a result of their strategies and operational actions; and from the external environment, beyond their operation, which can be influenced by entrepreneurs, but not decided by them. The key factors of the Strategic Map of Industry capture these two dimensions.

Sustainability has a direct relationship with productivity and innovation. Productivity gains reduce the use of natural resources and eliminate waste. **Innovation**, in turn, leads to new products, processes, and business models that generate less environmental and social impacts.

The quest for **competitiveness with sustainability** should guide the decisions, strategies, and actions of the Industry System (CNI, SESI, SENAI, IEL), as well as influence the actions and positions of Brazilian industrial enterprises and other institutions representing industry, government, and other organizations that deal with industrial matters directly or indirectly.

Taking these aspects into consideration, the **Strategic Map of Industry 2013-2022** is structured around **key factors** that can ensure the competitiveness of Brazilian industry over the next decade.

These key factors were selected in the light of two main criteria: (i) their relevant and direct impact on industry's competitiveness; and (ii) scope and durability of the impact of the key factor in terms of productivity gains. The proposal and selection of the key factors and their focus take into account opportunities and threats arising from changes under way in Brazil and around the world with the greatest impact on industrial activity, as discussed in the previous chapter.

The key factors can be classified in four groups:

- **l. education** is the basis of everything. An educated society is essential for building institutions and an environment conducive to business. Education is also the main input for innovation;
- II. then there is the group of key factors related to the environment in which industry operates, which create favorable conditions for the other factors to be present and influential. These are the macroeconomic environment, government efficiency, legal certainty and red tape, and market development;
- **III.** the third group has a direct bearing on production and investment **costs**, influencing supply conditions. It consists of bottlenecks to be directly tackled by public policies and entrepreneurial actions, namely, **taxation**, **financing**, **labor relations**, and **infrastructure**;
- **IV.** finally, there is the key factor of **innovation and productivity**, which is linked to the competencies of industrial enterprises.

The education key factor was stressed in the Map as the basis for the other factors, as without quality education a country will hardly be able to develop sustainably. The innovation and productivity key factor is in turn at the top because it largely results from creating a competitive environment and from the protagonism and action of the enterprises themselves.

For each key factor, a **macro goal** was established as a target summarizing the main result to be achieved, defining the challenge around which the best efforts of the actors involved should be deployed. The key factors are divided into **priority topics** and **objectives** that translate responses to the main bottlenecks identified in each factor. One or more indicators were defined to monitor each objective with a goal to be achieved by 2022. **Transformative actions** represent the most important steps to be taken to achieve each of the objectives. As a set, they are intended to achieve the defined objectives and can be carried out by the Industry System. The transformative actions provide strategic guidance for the action plans of the Industry System, where necessary projects for achieving the ultimate goal will be defined.

The framework of the Strategic Map of Industry 2013-2022 is shown in the figure below.

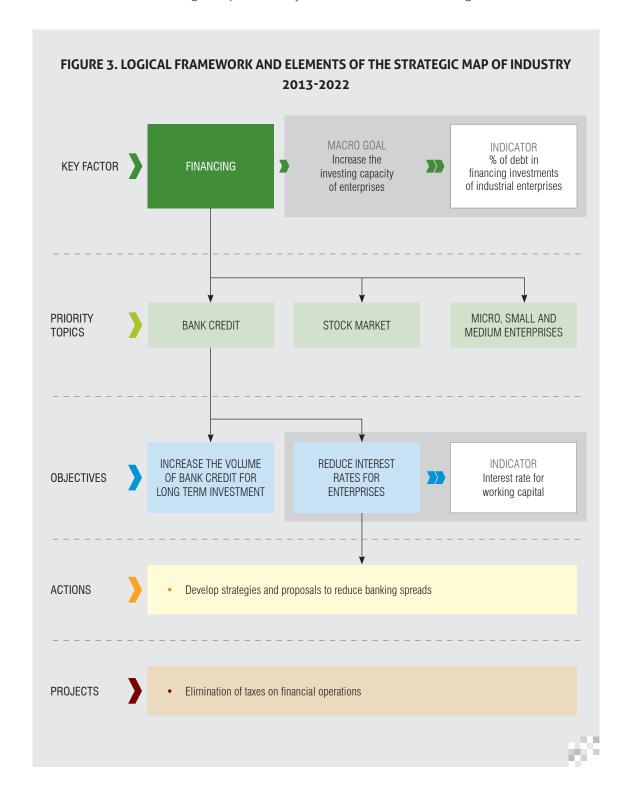
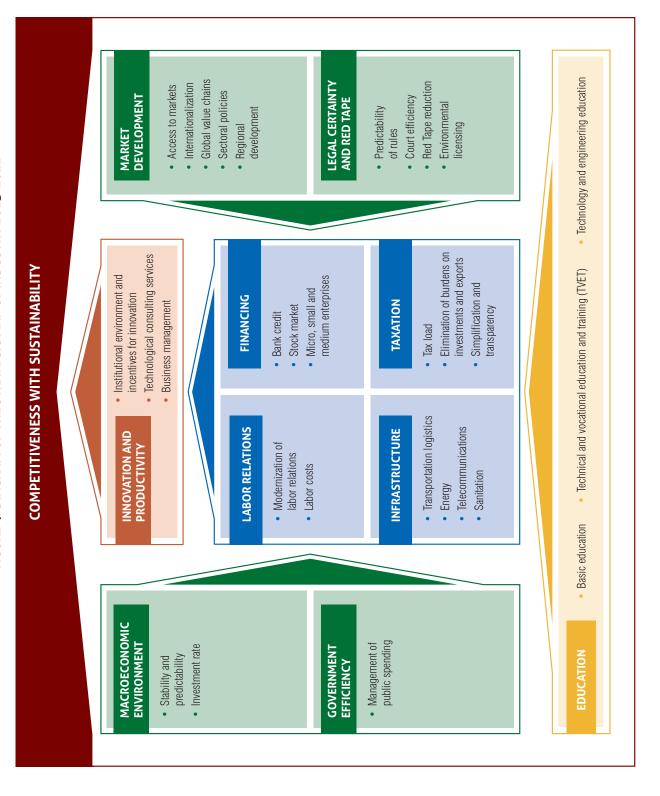
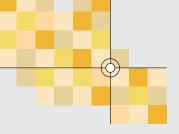


FIGURE 4. DIAGRAM OF THE STRATEGIC MAP OF INDUSTRY 2013-2022





2.1 Education

Why Education?



Labor productivity is a major determinant of industry's competitiveness. Educated teams and well-trained engineers make better use the equipment, create solutions for day-to-day problems, adapt processes and products, and develop and implement innovations. In Brazil, the poor quality of basic education, the low supply of vocational training, and shortcomings in higher education hinder the innovative capacity of enterprises and productivity at large, with significant impacts on the competitiveness of enterprises.

International Comparison

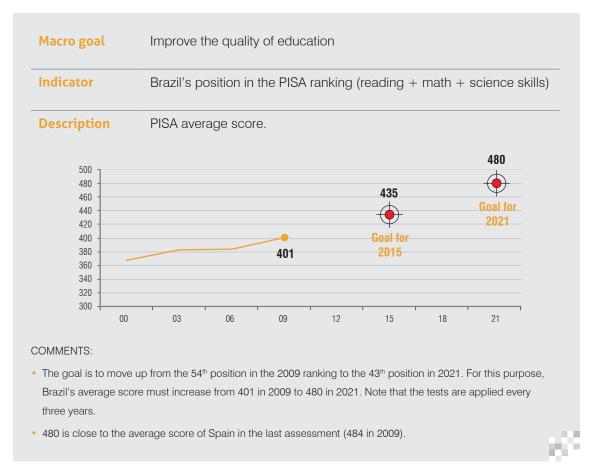


In the Global Competitiveness Report 2012-2013, Brazil was ranked 126th in terms of quality of primary education, behind countries such as Mexico, Chile, Russia and Spain, and 57th in higher education and training. In terms of availability of engineers and scientists, the same report ranked Brazil 113th among 144 countries.

Vision for 2022



In 2022, Brazilian industry will have more skilled workers, at a level close to that registered in more developed countries. The quality of basic education will rise. A greater supply of engineers and technologists and an increased availability of vocational training, combined with investments of enterprises in training workers, will create an environment conducive to innovation and enable Brazilian industry to face an increasing international competition.

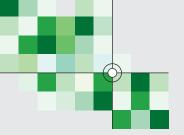


Source: OECD. Goals set by CNI.

Priority Topics	Priority objectives
Basic education	Improve the quality of basic education
Technical and vocational education and training (TVET)	Expand the supply of technical and vocational education and training and improve its quality
Technology and engineering education	Expand the supply of engineers and graduates from industrial technology programs offered by universities

H JDF E

L. EDUCATION	Z	Improve the quality of education
FIGURE 5. SUMMARY T	FIGURE 5. SUMMARY TABLE OF THE EDUCATION KEY FACTOR	» Brazil's position in the PISA ranking (reading + math + science skills)
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
NOTE VOTE OF THE PROPERTY OF T	Improve the quality of basic education	 Promote the qualification of elementary school teachers and public school principals Develop and deliver innovative pedagogical practices that are appropriate to public schools Encourage the adoption of extended school hours and actual student attendance.
	» Percentage of young people aged 19 with complete high-school education	Promote the adoption of curriculum guidelines focused on the world of work Stimulate closer links between technical content and basic education content Stimulate and implement actions to bring families closer to the reality of schools
TECHNICAL AND VOCATIONAL	Expand the supply of technical and vocational education and training (TVET)and improve its quality	 Boost the supply of TVET programs in line with industry needs Expand the number of places in TVET courses
EDUCATION AND TRAINING (TVET)	» Enrollments in high-school level technical courses	Implement a TVET Evaluation System Promote technical training in the workplace
TECHNOLOGY	Expand the supply of engineers and graduates from industrial technology programs offered by universities	 Enhance the supply of and reduce drop-out rates in higher education engineering-related courses and in industrial technology courses
AND ENGINEERING EDUCATION	 Share of enrollments in technology courses in total enrollments in higher education Percentage of students graduating from engineering, production, and construction courses in relation to the total number of graduates 	 Develop proposals to facilitate the immigration of highly skilled technical professionals Disseminate the importance of professional technologists and raise awareness of it within enterprises



2.2 Macroeconomic Environment

Why Macroeconomic Environment?



Solid macroeconomic foundations reduce uncertainties about the future and enhance the confidence of investors. Price stability is an important condition for sustainable growth processes and it should be accompanied by actions to eliminate institutional obstacles preventing public and private investment from growing. For Brazil to become more competitive, investment rates need to increase significantly, as they are still lower than in other emerging countries, including in Latin American countries.

International Comparison



According to the Global Competitiveness Report 2012-2013, the macroeconomic environment is one of the twelve pillars of a country's competitiveness. In this regard, Brazil was ranked 62th among 144 countries, below its position in the general index (48th). The index combines five indicators, in three of which Brazil ranked low: savings (78th), inflation (97th), and gross debt (109th).

COMPONENTS OF THE MACROECONOMIC ENVIRONMENT

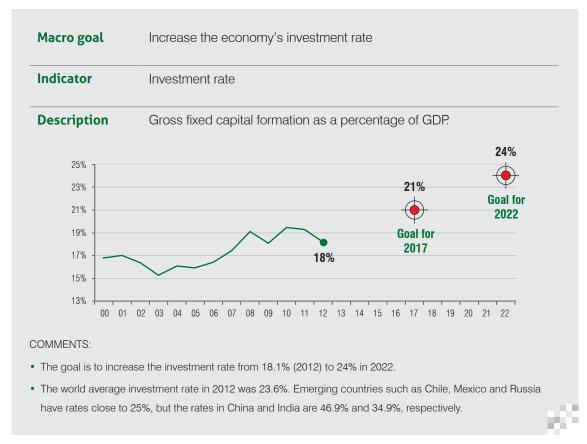
	Brazil's Position
Balance of the government budget	64
Gross domestic savings	78
Inflation	97
Government gross debt	109
Credit Rating	34

Source: WEF, 2012.

Vision for 2022



Brazil's growth in coming years will be supported by consistently rising investment rates funded by higher public and private savings. Lower inflation and competitive interest and exchange rates will stimulate productive activity. A solid fiscal situation, with lower public spending, which will gradually become more efficient, will reduce the tax burden and thus create an environment that is more conducive to business.

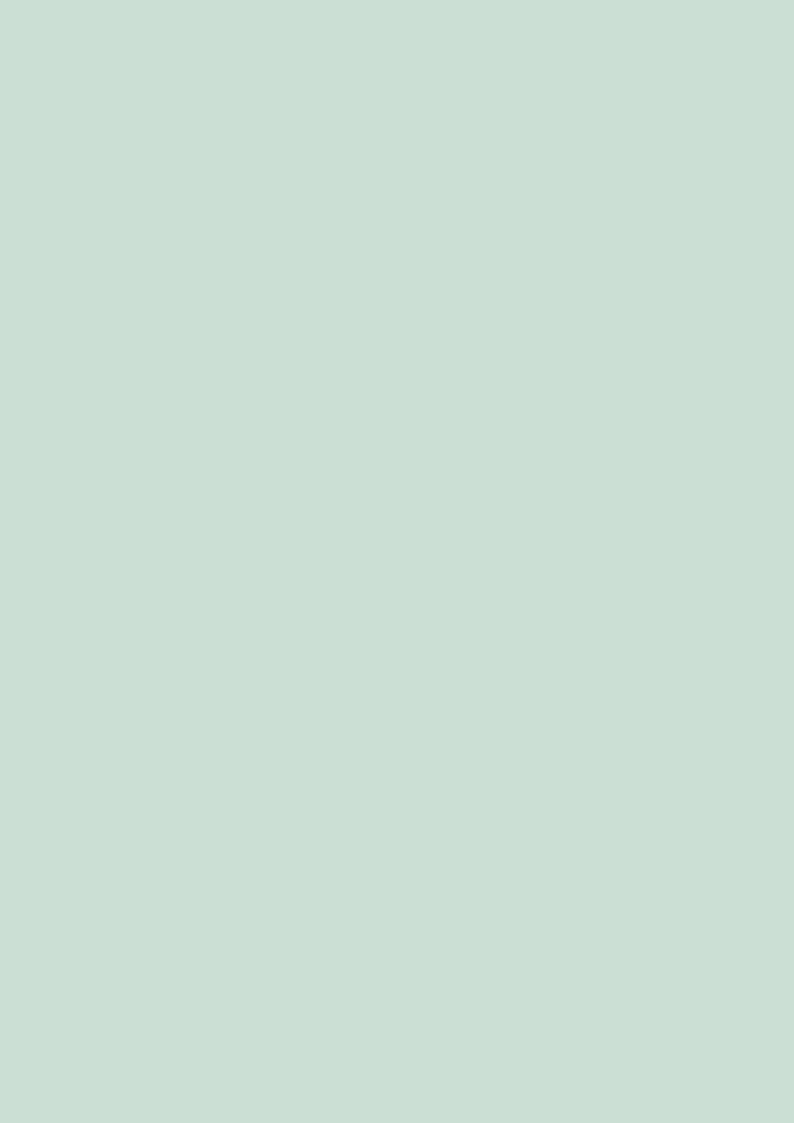


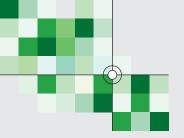
 $\textbf{Source:} \ \ \mathsf{Brazilian} \ \ \mathsf{Institute} \ \ \mathsf{for} \ \ \mathsf{Geography} \ \ \mathsf{and} \ \ \mathsf{Statistics} - \mathsf{IBGE.} \ \ \mathsf{Goals} \ \ \mathsf{set} \ \mathsf{by} \ \mathsf{CNI}.$

Priority Topics	Priority objectives
Stability and predictability	Consolidate macroeconomic stability
Investment rate	Increase investment rate

M PH A

Z MACROFC	MACROFCONOMIC FIVIRONMENT	
IGURE 6. SUMMARY TABLE OF THE	TABLE OF THE	Increase the economy's investment rate » Investment rate
MACKUECUINOIMIC EI	IACKOECONOIMIC ENVIRONMENT NET FACTOR	
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
STABILITY AND	Consolidate macroeconomic stability	Stimulate long-term public planning Carry out actions to stimulate convergence between inflation and interest rates toward OECD standards
PREDICTABILITY	» Inflation » Gross debt divided by GDP	 Develop strategies to review the social security system with a view to lending greater sustainability to it Contribute to the improvement of the exchange rate policy, so as to reduce transaction costs, the volatility of the exchange rate, and negative effects on competitiveness
	Increase investment rate	 Propose a cap on current spending to increase the saving capacity of the public sector Propose new models and practices to improve the capacity to plan, prepare, and implement public and private investment projects
	» Investment rate	 Develop proposals to reduce investment costs Stimulate private investment in public infrastructure and services based on public-private partnerships, concessions, and delegations





2.3 Government Efficiency

Why Government Efficiency?



The inefficiency of the State has two main effects on competitiveness: it extracts more resources from enterprises than necessary, reducing their efficiency, and provides public goods that generate positive externalities, such as education, infrastructure, and public safety, that are inadequate both in terms of quantity and quality. The Brazilian State spends too much on current spending. Increasing the efficiency of the State means more funds for investment. The composition of public spending needs to be improved by ensuring a higher share of investment. For this purpose, it is necessary to improve the capacity of the State to plan and implement its policies and investments.

International Comparison

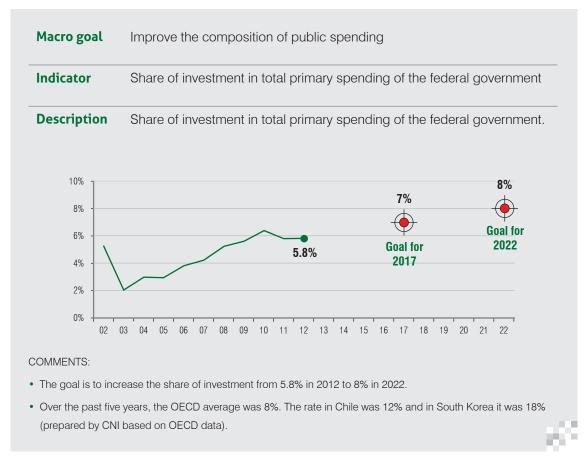


The Global Competitiveness Report 2012-2013 ranked Brazil 111th in terms of government efficiency, behind countries such as Egypt (106th) and Peru (100th), and 135th in terms of the quality of its public spending, with only Argentina (136th) and Venezuela (143rd) behind it in South America.

Vision for 2022



By 2022, the Brazilian State will have improved its management efficiency significantly. There will be continuous improvements in the process of preparing and implementing the federal budget. Its capacity and speed of implementation of investments will have improved significantly. The effects of these improvements will be clearly felt in the quality of infrastructure and services and in the fiscal balance.

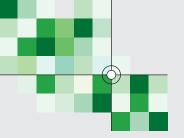


 $\textbf{Source:} \ \mathsf{CNI}, \ \mathsf{using} \ \mathsf{data} \ \mathsf{provided} \ \mathsf{by} \ \mathsf{the} \ \mathsf{National} \ \mathsf{Treasury}. \ \mathsf{Goals} \ \mathsf{set} \ \mathsf{by} \ \mathsf{CNI}.$

Priority topic	Priority objective
Management of public spending	Improve the efficiency of public investment

FIGUR GOVE

 GOVEKNME 	 GOVEKNIMENI EFFICIENCY 	Improve the composition of public spending
URE 7. SUMMARY TABLE OF THE VERNMENT FFEICIENCY KFY FACTOR	IABLE OF THE NCY KFY FACTOR	» Share of investment in total primary spending of the federal government
IORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
	Improve the efficiency of public investment	
ANAGEMENT OF		 Develop proposals to improve the budgeting process of the federal government Develop strategies to influence the process of defining and implementing the federal budget to make it possible for high-impact
BLIC SPENDING		 actions to be taken to promote the competitiveness of industry Develop actions and propose measures to promote the institutional strengthening of government agencies and bodies involved in regulating markets
	» Percentage of executed versus budgeted investments	



2.4 Legal Certainty and Red Tape

Why Legal Certainty and Red Tape?



The lack of clarity about rights and duties and increasing amendments to laws and regulatory frameworks are detrimental to competitiveness. The lack of confidence that institutions will uphold existing laws raises doubts about the stability of legal relations and uncertainties about the consequences of acts based on legal rules in force, i.e. creates legal uncertainty. Such an environment is not conducive to enhanced economic activity, hindering the competitiveness of enterprises. The additional burden of the state bureaucracy and its relationship with private entities, marked by excessive and complex procedures, result in a hostile environment to business that hinders investment and increases transaction costs for goods and services.

International Comparison

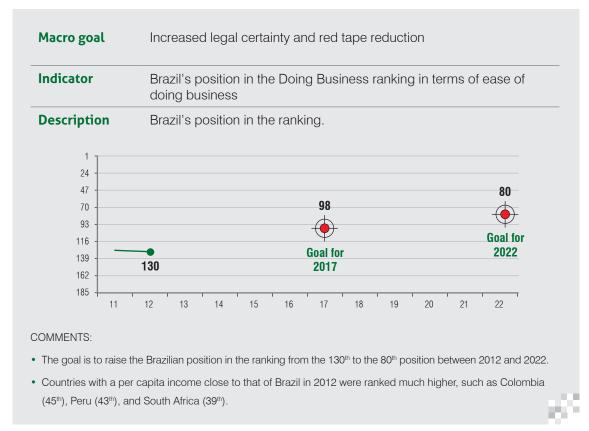


The World Bank Doing Business report 2013 ranked Brazil 130th among 185 countries in terms of ease of doing business, behind the average registered in Caribbean and Latin American countries (97th), due to the poor performance of the country in indicators such as ease of opening a business (121th), of settling disputes (116th), of resolving insolvency cases (143th), and of protecting investors (82th). The Global Competitiveness Report 2012-2013 ranked the country 84th in terms of the efficiency of its legal framework to settle disputes and placed it in the last position (144th) in terms of the burden of state regulation.

Vision for 2022



In 2022, laws and regulations will be more stable and applied in a more predictable fashion. State regulation will be transparent, objective, and only applied as strictly necessary, without excesses and always taking costs and benefits into account. A significant reduction in the time required for judging court cases, simplification of bureaucratic requirements related to business activity, and streamlining of processes for obtaining and keeping licenses will make the overall environment more conducive to business.

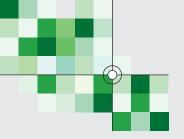


Source: World Bank. Goals set by CNI.

Priority topics	Priority objectives
Predictability of rules	Lend clarity to rules and predictability to their application
Court efficiency	Court cases being judged in less time
Red Tape reduction	Reduce bureaucratic requirements
Environmental licensing	Improve the environmental licensing system

ANNA

4. LEGAL CER	LEGAL CERTAINTY AND RED TAPE	Increased legal certainty and red tape reduction
IGURE 8. SUMMARY IND RED TAPE KEY FA	IGURE 8. SUMMARY TABLE OF THE LEGAL CERTAINTY IND RED TAPE KEY FACTOR	» Brazil's position in the Doing Business ranking in terms of ease of doing business
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
PREDICTABILITY OF	Lend clarity to rules and predictability to their application	 Take action to improve legislation that interferes in the business environment Propose consultation procedures in the process of drafting and issuing legal and statutory acts Improve the monitoring system and operating strategy in cases of greater relevance to industry in Superior and Administrative Courts
RULES	» Quantity of rules issued in a year	Develop strategies and proposals for improving the laws with the aim of strengthening legal personality provisions Promote strategies and actions focused on stimulating the guiding character of inspection actions Propose measures to ensure compliance with due process in administrative actions against enterprises
VOLIDITETETETETE	Court cases being judged in less time	Work on the issuance and updating of binding abridgements
	» Rate of congestion of first-instance lawsuits	Encourage the use of mediation and arbitration mechanisms
RED TAPE	Reduce bureaucratic requirements	Develop strategies and proposals to reduce red tape
REDUCTION	 Brazil's position in the Doing Business in terms of ease of doing business 	 Encourage self-regulation of productive sectors Propose measures to simplify and streamline the process of getting licenses and permits
ENVIRONMENTAL	Improve the environmental licensing system	 Consolidate diagnoses and define strategies for actions of industry in connection with environmental licensing Propose a national standard to discipline and harmonize the environmental licensing process Study the cost of delays in infrastructure projects and industrial undertakings caused by licensing procedures, identifying
LICENSING	» Average time required to get environmental licenses	causes and proposing recommendations • Work on the definition of activities to be licensed by the Brazilian Institute for the Environment and Renewable Natural Resources (IBAMA) and by state or local environmental agencies, as well as on the setting of clear rules to prevent overlapping of competencies in the inspection of licensed activities to regulate provisions already contained in laws



2.5 Market Development

Why Market Development?



Markets have a bearing on the competitiveness of enterprises. The size of the domestic market generates scale, allows for the existence of a diversified industrial base, and creates options for the country. This asset needs to be reinforced by Brazil's insertion in the global economy. Participation in international trade and in global value chains induces increased productivity and greater innovation capacity on the part of industry through economies of scale, exchange of knowledge, and access to more sophisticated consumer markets. Brazil faces the challenge of increasingly integrating itself into higher-value stages of global chains and of taking advantage of development opportunities available in sectors in which it has significant comparative advantages based on its natural, human, and technological resources and on its economic framework.

International Comparison

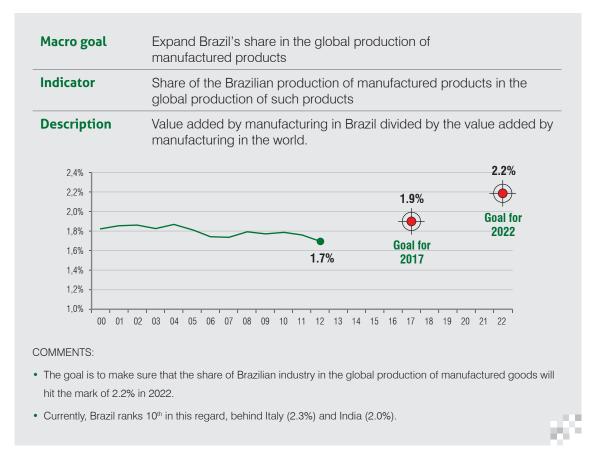


The Global Competitiveness Report 2012-2013 sees the size of a market as one of the 12 pillars of a country's competitiveness. Brazil was well ranked in the size of its domestic market (7th position in a ranking of 144 nations), but not that well in terms of the size of its external market (24th position). In terms of exports as a percentage of GDP, Brazil was ranked 140th among 144 countries in that report.

Vision for 2022



In 2022, Brazil will be more integrated into the international economy and will be taking part in some major global value chains, which will contribute to more innovation, exchange of knowledge, and a more value-added domestic industry. The internationalization of enterprises and intra-industry trade will increase. Specific sectoral policies will contribute to developing the country's industrial framework. As a result, the Brazilian share in the international trade of manufactured products will increase.



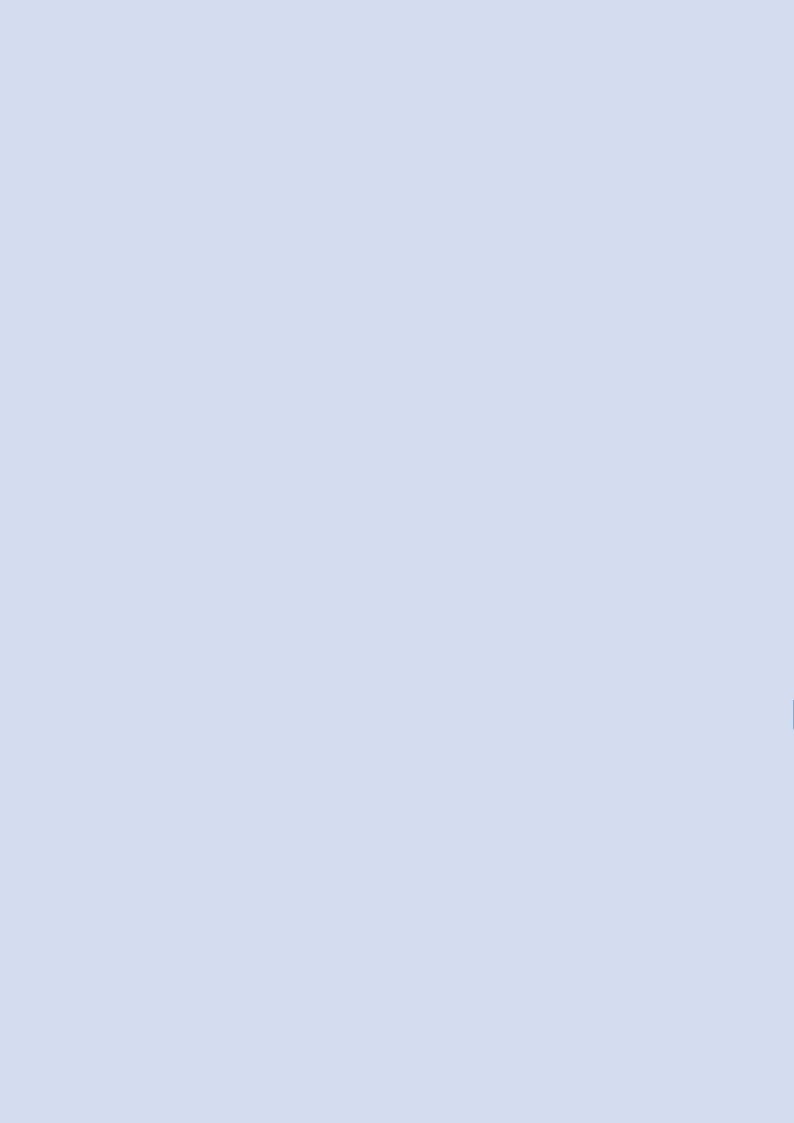
Source: UNIDO. Goals set by CNI.

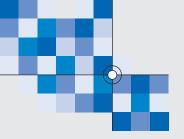
Priority topics	Priority objectives
Access to markets	Improve foreign market access conditions
Internationalization	Increase the international presence of Brazilian enterprises
Global value chains	Increase the participation of Brazilian industry in global value chains
Sectoral policies	Promote sectoral development
Regional development	Develop competitive factors in less industrialized regions

S MARKET DEVELOPMENT FIGURE 9. SUMMARY TABLE OF THE MARKET

Expand Brazil's share in the global production of manufactured products

FIGURE 9. SUMMARY TABLE DEVELOPMENT KEY FACTOR	FIGURE 9. SUMMARY TABLE OF THE MARKET DEVELOPMENT KEY FACTOR	 » Share of Brazilian production of manufactured products in the global production of such products
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
ACCESS TO MADKETS	Improve foreign market access conditions	 Propose measures for restructuring Mercosur with the aim of ensuring greater flexibility in signing trade agreements Develop a strategy to promote greater integration with South America with a focus on trade, investment, logistics, and energy Actively participate in multilateral negotiations on trade, investments, and technical and environmental standards Develop strategies and specific proposals for trade and investment with Africa, the US, the EU, China and India
	 Share of markets in which Brazil has trade agreements in the world market 	 Identify bottlenecks and propose measures to improve export credit guarantee instruments Propose measures to improve foreign trade laws Propose measures to ensure the feasibility of establishing export consortia Prepare trade facilitation proposals (customs procedures, payments, insurance, international rules and standards)
CITY OF THE PARTY	Increase the international presence of Brazilian enterprises	Develop studies and proposals to adjust Brazilian tax practices to internationalization needs Identify obstadles and propose measures to support foreign direct investment
INTERNATIONALIZATION	» Brazilian direct investment abroad	 Defend the interests of Brazilian industry abroad and in international organizations more strongly Encourage coordinated and integrated actions in support of the internationalization of enterprises on the part of different public and private organizations
ONIVIDEDITIVA IVACIO	Increase the participation of Brazilian industry in global value chains	 Improve and expand training programs for small and medium enterprises as suppliers in the production chain Develop studies and proposals to improve Brazil's insertion in global value chains
	» Exports + imports of intermediate manufactured goods/exports + imports of manufactured goods	 Encourage trade partnerships between specific sectors to foster productive integration, address regulatory issues, and promote training and innovation
SECTOBAL DOLIVIES	Promote sectoral development	 Develop and propose industrial policy strategies to take advantage of development opportunities Implement a process to consolidate sectoral demands in relation to industrial policy with a view to promote joint actions Improve local content policies with the aim of ensuring greater added value and enhanced competitiveness Develop studies and proposals with the aim of reducing institutional incentives to verticalization of industrial activity
	 Share of Brazilian production of manufactured products in the global production of such products 	 Propose policies designed to provide incentives to technology- and design-intensive sectors Carry out studies and evaluate technological scenarios with the aim of identifying opportunities and actions to increase the participation of technology-intensive sectors Develop studies and proposals on green economy Develop studies and strategies to take advantage of opportunities and reduce mitigation costs related to climate change
REGIONAL	Develop competitive factors in less industrialized regions	 Step up capacity-building initiatives for workers to meet the industry's demand in regions experiencing growth Strengthen services in support of Local Productive Arrangements (APLs) and smaller companies with the aim of promoting local development
DEVELOPMENT	» Share of less industrialized regions in industrial jobs in Brazil	 Take action to design a new model of incentives to regional development considering the reform of the Tax on Circulation of Goods and Services (ICMS) Define strategies to implement logistics hubs to promote regional competitiveness





2.6 Labor Relations

Why Labor Relations?



In Brazil, the legal and institutional system governing the labor market is outdated, inflexible, and legally uncertain, undermining the competitiveness of enterprises and jeopardizing the country's economic growth. Modern, clear, and safe rules are required to promote economic efficiency and the well-being of workers.

International Comparison



According to the Global Competitiveness Report 2012-2013, there are difficulties to hire and dismiss workers in Brazil. In the eight components of the "efficiency of the labor market" pillar, Brazil is among the worst ranked countries in relation to the "flexibility in wage determination" and "hiring and firing practices" indicators, as it was ranked 118th and 114th, respectively, in a list of 144 economies.

Vision for 2022



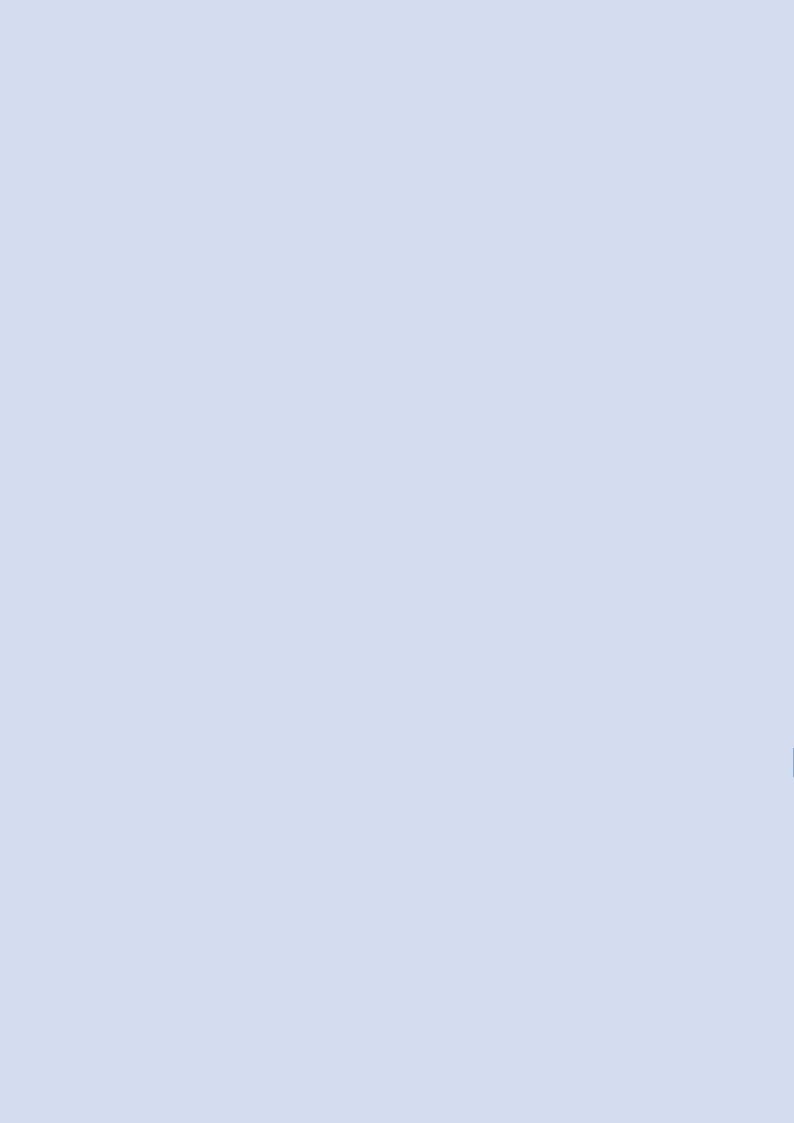
In 2022, labor relations will be more suited to the needs of the economy. There will be greater recognition of agreements between workers and employers, with positive impacts on investment in human capital and productivity.

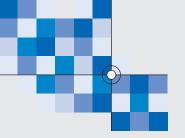
ndicator	Brazil's position in the Global cooperation in employer-empl		ort ranking for
Description	Average score weighted by th "How would you characterize country?" (1 = generally confi	labor-employer relation	ns in your
6 - 5 -		4.50	4.70
3 - 2 -	4.26	Goal for 2017	Goal for 2022
4	7 08 09 10 11 12 13 14	15 16 17 18 19	20 21 22
1			
06 07	rank 72 th , with an average score of 4.26.		

Source: WEF. Goals set by CNI.

Priority topics	Priority objectives
	Modernize labor regulations
Modernization of labor relations	Expand collective bargaining between workers and employers
Labor costs	Reduce labor costs

7		
O. LABOR RELATIONS	ATIONS	Modernization of labor relations
FIGURE 10. SUMMARY TARELATIONS KEY FACTOR	FIGURE 10. SUMMARY TABLE OF THE LABOR RELATIONS KEY FACTOR	» Brazil's position in the Global Competitiveness Report ranking for cooperation in employer-employee relations
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
	Modernize labor regulations	 Develop strategies and influence outsourcing regulation Develop strategies and proposals for eliminating red tape from labor relations
MODERNIZATION OF	 Brazil's score in the Global Competitiveness Report in hiring and dismissal practices 	Propose the creation and/or implementation of alternative dispute settlement mechanisms Develop strategies and actions to modernize labor relations
LABOR RELATIONS	Expand collective bargaining between workers and employers	Develop strategies to enhance the importance of collective bargaining and of recognizing collective labor instruments agreed upon
	» Collective agreements of industry on total industrial establishments	Train corporate leaders of the industrial sector in collective bargaining
STSC GCGV	Reduce labor costs	Develop strategies to reduce the burden on the payroll
	» Unit labor costs in industry	 Develop strategies to extend differential treatment to micro and small enterprises in labor laws





2.7 Financing

Why Financing?



The growth pace of an economy and the competitiveness of its industry depend on the availability of funds for investment and on the ability of the financial system to mediate them at a low cost and broadly. Insufficient finance at high costs or with short repayment schedules frustrates investment projects. Notwithstanding advances in this area, Brazilian enterprises are still struggling to finance their productive activities both in terms of access to finance and costs and repayment schedules.

International Comparison

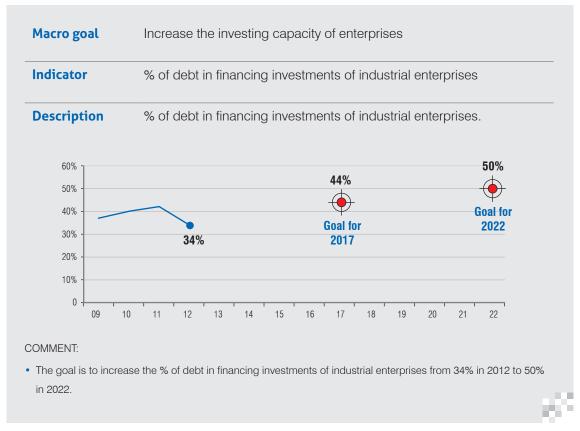


The World Bank Doing Business report 2013 ranks Brazil 104th in "getting credit," behind the average registered in Latin America and Caribbean countries (87th) and seven positions behind that recorded for the country the year before. The Global Competitiveness Report 2012-2013 ranks Brazil 46th in the financial market development pillar and, with regard to access to financial services, it was ranked 62nd.

Vision for 2022



By 2022, greater ease of credit access, combined with lower costs made possible by enhanced bank competition and lower banking spreads, will have increased the share of debt in financing investments of industrial enterprises of all sizes. With a well-developed capital market, in which many and diverse institutions interact, long-term financing will become more available in Brazil, reducing dependence on public banks.

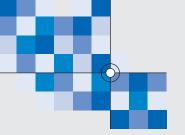


Source: CNI. Goals set by CNI.

Priority topics	Priority objectives		
Bank credit	Increase the volume of bank financing for long-term investment		
Bailt Groun	Reduce interest rates for legal entities		
Charle made at	Expand the corporate fixed-income market		
Stock market	Develop the stock market		
Micro, small and medium enterprises	Make more financing available for micro, small and medium enterprises		



FINANCING		Increase the investing constitute of autorasiese
FIGURE 11. SUMMARY	IGURE 11. SUMMARY TABLE OF THE FINANCING KEY FACTOR	% of debt in financing investments of industrial enterprises
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
	Increase the volume of bank credit for long-term investment	Propose the creation of incentives for long-term private financing
FIGURE	* Total long-term financing divided by GDP	Endourage the establishment of long-term investment tunds Develop proposals for BNDES (Brazilian Development Bank) funding programs
BANN CHEDI	Reduce interest rates for enterprises	Develop strategies and proposals to reduce banking spreads
	» Interest rates for working capital	Develop strategies and proposals to reduce the cost of working capital
	Expand the corporate fixed-income market	Develop proposals to stimulate liquidity in secondary markets for bonds and other private papers
	* Total value of debentures (without leasing) divided by GDP	 Propose measures to encourage the placement of tixed-income securities by industrial enterprises Develop studies and proposals for the role of public and development banks as levers of long-term corporate credit
SI OCK MARKEI	Develop the stock market	Prepare proposals to facilitate access to and reduce the cost of IPOs and of maintaining publicly-traded companies
	» Number of listed companies (BM&F/ Bovespa)	 Develop proposals to stimulate the establishment of private equity and venture capital funds
MICRO, SMALL	Make more financing available for micro, small and medium enterprises	Develop proposals for establishing new credit assurance mechanisms for MSMEs and improve the existing ones
AND MEDIUM ENTERPRISES	» BNDES (Brazilian Development Bank) disbursements for micro, small and medium enterprises	Imperhent a credit guidance program Prepare proposals to reduce the red tape involved in accessing public finance



2.8 Infrastructure

Why Infrastructure?



The availability of an effective intermodal transportation network is essential to ensure industry's competitiveness. Efficient logistics allows for production inputs to be delivered and industrial products to be distributed to the market safely and at appropriate times, increasing the competitiveness of enterprises. Besides a logistical infrastructure, the availability of electricity and of an appropriate framework for high-speed (broadband) data transmission without fluctuations and interruptions and at competitive costs is a key input for the organization and production of industrial enterprises.

International Comparison



Brazil was ranked 70th in terms of infrastructure in the Global Competitiveness Report 2012-2013, below the average registered in countries at a similar development stage. In this regard, Brazil ranked poorly in areas with a strong impact on industry's competitiveness, such as in terms of quality of ports (135th), airports (134th), highways (123th), and railways (100th).

INFRASTRUCTURE INDICATORS (BRAZIL'S POSITION IN A RANKING OF 144 COUNTRIES)

Ports	135
Airports	134
Highways	123
Railways	100
Electricity supply	68

Source: WEF. 2012.

The same report ranks Brazil 68th in terms of quality of electricity supply. Besides the low quality of electricity supply in the country, its costs are high. The average electricity rate for industry in Brazil is almost 50% higher than the average in a set of 27 countries worldwide for which data is available with the International Energy Agency. The difference can be as high as 134% when Brazil is compared to other BRIC countries (Russia, India, and China).

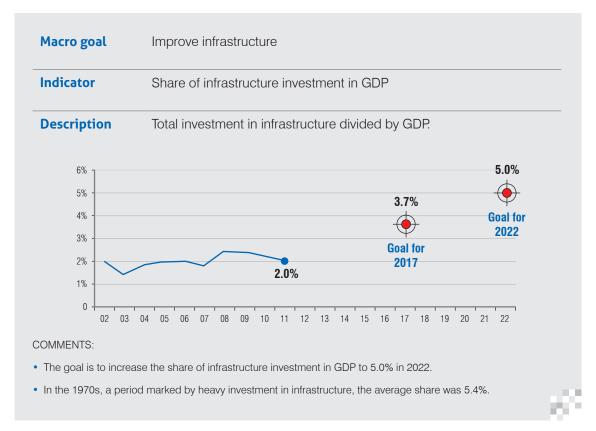
In relation to telecommunications, Brazil rose from the 54th position in 2002 to the 60th one in 2011, according to the ICT Development Index (IDI) prepared by the United Nations International Telecommunication Union (ITU). The result indicates that Brazil lags behind in taking full advantage of the benefits afforded by Information and Communication Technologies (ICT).

In the area of sanitation, Brazil still needs to make a lot of progress: only 46.2% of its population has access to sewage systems and 81.1% have access to drinking water.

Vision for 2022



Public and private investments in infrastructure will have increased significantly by 2022. The Brazilian logistics system will be more efficient and integrated, with a better distribution among different modes. Railroad systems and coastal shipping will be used to handle cargo, while the quality of roads will be improved and the capacity and efficiency of ports will be expanded. The supply of energy at competitive prices in relation to other countries and the quality of broadband services will contribute to enhance industry's competitiveness.



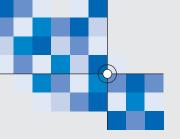
Source: INTER. B, 2012. Goals set by CNI.

Priority topics	Priority objectives			
Transportation logistics	Expand the supply and improve the efficiency of modal transportation			
Coorne	Ensure the supply, improve the quality, and reduce the cost of electricity			
Energy	Increase the supply of natural gas and reduce costs to international competitive levels			
Telecommunications	Reduce the cost and increase the speed of broadband services			
Sanitation	Ensure universal access to water supply and sewage services			

8 INFRASTRUCTURE

Improve infrastructure

FIGURE 12. SUMMARY TABLE OF THE INFRASTRUCTURE KEY FACTOR	′ TABLE URE KEY FACTOR	» Share of infrastructure investment in GDP
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
TRANSPORTATION	Expand the supply and improve the efficiency of modal transportation	 Identify and compare the logistic costs of major domestic production chains with the logistic costs of production chains in other countries Identify bottlenecks and propose measures to enhance the efficiency and reduce the costs of major domestic logistics hubs Identify legal bottlenecks that hinders the growth of public and private investment in the Brazilian railway infrastructure and propose solutions or disperse contracts.
LOGISTICS	 Volume of cargo transported by rail Quality of highways and roads Share of coastal shipping in port operations 	 Identify regulatory and propose actions to surfusive competition and private investments in the Brazilian port infrastructure and Identify legal bottlenecks that hinders the growth of public and private investments in the Brazilian port infrastructure and operations and proposing solutions Stimulate the expansion and upgrade the road system through concessions and Public-Private Partnerships (PPPs) Identify legal bottlenecks that hinders the growth of public and private investment in coastal shipping and propose solutions Identify regulatory and infrastructure bottlenecks in the airport system and propose solutions
	Ensure the supply, improve the quality, and reduce the cost of electricity	 Identify and propose actions to ensure electricity supply at competitive prices and with quality Identify regulatory and management changes to encourage public and private investment in the Brazilian electricity industry
) Q	» Cost of electricity for industry	 Propose legal amendments to stimulate the expansion of energy efficiency practices Carry out studies to identify potential opportunities to modernize and diversify the domestic energy matrix
	Increase the supply of natural gas and reduce costs to international competitive levels	 Define and propose amendments to the existing legal framework with a view to expand the supply of gas (increase in production and in pipeline systems) at competitive prices Propose policies to stimulate the use of natural gas in industry as a competitive factor
	» Relative cost of natural gas in Brazil	Stimulate the production and distribution of unconventional gas when competitive
ONCITACINI MAMOCITACIONE	Reduce the cost of and increase the speed of broadband services	 Identify regulatory and management bottlenecks in the Brazilian telecommunications industry and propose solutions to government
	» Average annual download speed	 Propose measures to increase public and private investment in telecommunications Stimulate the holding of new frequency auctions with a view to modernizing and expanding telecommunications services
NOITATINA	Ensure universal access to water supply and sewage services	• Propose measures to etimilate sunnly improvements in and modernization of the management of sanitation services
	» Percentage of households served by a sewage system	Topose Treasures to surrigine earppy, improversions in, and modernization is no transgerior to surriging services



2.9 Taxation

Why Taxation?



A costly and complex tax system reduces competitiveness and discourages investment. Brazil has one of the highest tax loads among countries at similar development stages. Apart from having a strong bearing on the production of goods and services, the tax structure is complex, often resulting in cumulative taxes. The challenge in this field is to strike a balance between the need of the State to collect taxes and that of ensuring a sound business environment, avoiding excessive costs for enterprises.

International Comparison



Among all the criteria checked in the World Bank's annual Doing Business report 2013, Brazil ranks worst in "paying taxes," in connection with which the country was ranked 156th. The criterion that was used combines indicators that measure tax load and the bureaucratic cost generated by the tax structure.

INDICATORS OF DOING BUSINESS 2013 FOR PAYING TAXES - BRAZIL, LATIN AMERICA AND OECD

Indicators*	Brazil	Latin America and the Caribbean	OECD	
Payments (n. per year)	9	30	12	/
Time spent (hours per year)	2,600	367	176	
Profit tax (% of profits)	24.6	21.5	15.2	
Labor taxes (% of profits)	40.8	14.4	23.8	
Other taxes (% of profits)	3.8	11.3	3.7	
Total tax rate (% of profit)	69.3	47.2	42.7	/

The lower amount of payments is not reflected in less time spent paying taxes, as is usually seen in other countries.

The total tax rate amounts, in average, to almost 70% of the profit of enterprises.

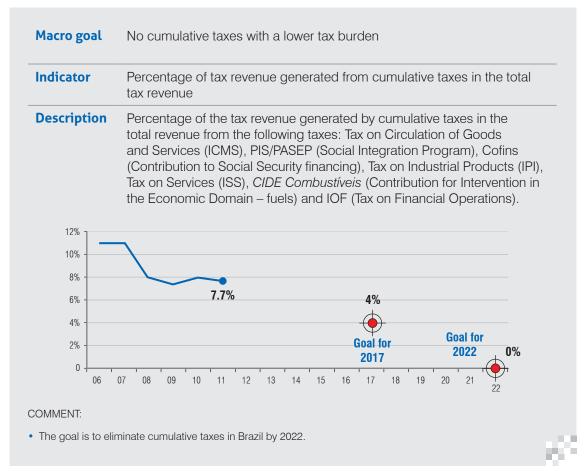
Source: World Bank, 2013.

^{*}The indicators were calculated according to standard tax conditions in the second year of operation of an enterprise.

Vision for 2022



By 2022, the Brazilian tax structure will be simpler and more transparent. The number of taxes on the same tax base will decrease significantly. A homogeneous taxation standard will be applied, putting an end to tax wars. Entrepreneurs will actually get credits from taxes that will be levied in the earlier stages of the production chain. Governments will enhance their spending productivity, allowing for a reduction in the tax burden.

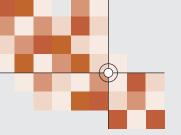


Source: CNI, using data provided by Brazil's Internal Revenue Service (Receita Federal) and Brazilian Institute for Geography and Statistics IBGE. Goals set by CNI.

Priority topics	Priority objectives		
Tax load	Reduce the tax load		
iax ioau	Eliminate cumulative taxes		
Elimination of hurdons on investments and evacate	Relieve the tax burden on investments		
Elimination of burdens on investments and exports	Relieve the tax burden on exports		
Simplification and transparency	Simplify the tax structure		



TAXATION		No cumulative taxes with a lower tax burden
FIGURE 13. SUMMARY	FIGURE 13. SUMMARY TABLE OF THE TAXATION KEY FACTOR	» Percentage of tax revenue generated from cumulative taxes in the total tax revenue
PRIORITY TOPICS	OBJECTIVES AND INDICATORS	TRANSFORMATIVE ACTIONS
	Reduce the tax load	 Propose a cap on current spending growth to increase the saving capacity of the public sector Propose a cap on the tax burden
	» Tax load	 Prepare proposals to adjust deadlines for tax payments Study and propose improvements to modernize the Brazilian tax framework Propose improvements in the structure of import tariffs in Brazil, with a focus on competitiveness
ТАХ LOAD	Eliminate cumulative taxes	Propose the incorporation of the ISS tax into the ICMS tax Propose the elimination of assessments within taxes Propose the principlision of a tax in the assessment base of another tax
	» Percentage of the revenue generated by cumulative taxes in the total tax revenue	Prepare a proposal for merging the IPI, PIS and COFINS taxes and contributions into a federal value-added tax with offset credits • Develop proposals for appropriation of credit on use and consumer goods in the ICMS tax • Prepare proposals for compensating debit balances of federal taxes in social security debts
	Relieve the tax burden on investments	Define actions for immediate recovery of tax credits of investment projects (ICMS, PIS/COFINS)
ELIMINATION OF BURDENS	» Tax cost in the value of an investment project	 Propose a reduction to zero of the IPI fax on capital goods and other goods for use as fixed assets Develop actions to adopt the accelerated depreciation mechanism on a permanent basis
ON INVESTMENTS AND EXPORTS	Relieve the tax burden on exports	Propose actions to speed up operational mechanisms for recovering tax credits related to exports (ICMS and PIS/COFINS)
	» Percentage of non-recoverable taxes in revenues	 Keep mechanisms for compensation of non-recoverable taxes in exports while a cumulative tax system persists
SIMPLIFICATION	Simplify the tax structure	 Prepare proposals to simplify and rationalize federal taxation Develop strategies to improve and unify the national ICMS tax law with transfer of the tax to the state of destination and incorporation of the ISS tax assessment base
AND TRANSPARENCY	» Number of hours spent paying taxes	 Identify opportunities to simplify tax assessment regimes Develop a proposal to discipline the use of the tax replacement mechanism in connection with the ICMS tax and define an influence strategy to implement it



2.10 Innovation and Productivity

Why Innovation and Productivity?



Productivity is the key determinant of competitiveness that is most dependent on the actions of industry itself. Enterprises can increase their productivity based on "learning by doing," by taking advantage of economies of scale or through improvements in management. However, to achieve continuous productivity gains, they need innovation, which is defined as the introduction of a new good or service, process, method, or business model.

International Comparison

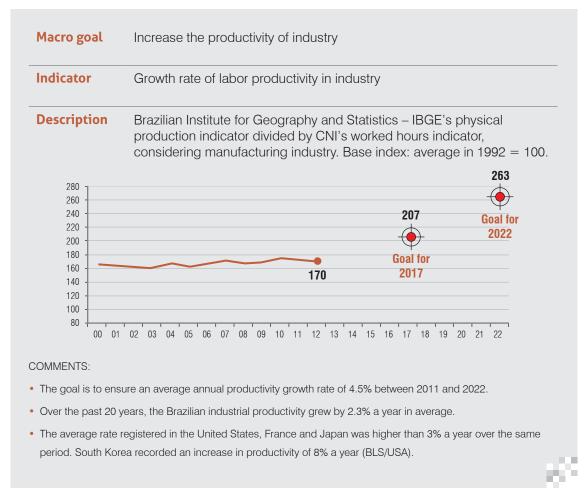


Between 2000 and 2010, labor productivity in manufacturing in Brazil grew by only 0.6% a year in average. This rate is much lower than that recorded by industry in countries such as South Korea (5.6%), the United States (5.2%), Singapore (3.4%), the UK (3.1%), and Australia (2.0%). Although corporate spending on research and development is on the rise, the comparison with other countries is unfavorable to Brazil. The Global Competitiveness Report 2012-2013 ranks Brazil 113th with regard to the availability of scientists and engineers. In the remaining factors related to innovation, Brazil was ranked 33rd in terms of private spending on research and development and 34th in terms of ability to innovate in a list of 144 countries.

Vision for 2022



By 2022, the institutional environment and the structure of finance and incentives will stimulate innovation in enterprises of all sizes. The provision of technological services to Brazilian industry will increase substantially. The capacity of Brazilian industry to invest in new technologies and processes will increase and it will adopt management methods that will contribute to stepping up its productivity on an ongoing basis.



Source: CNI, based on its data and IBGE's data. Goals set by CNI.

Priority topics	Priority objectives
Institutional environment and incentives	Improve the institutional environment
for innovation	Facilitate access to financing and incentives
Technological consulting services	Increase the provision of technological consulting services to companies
Business management	Improve the quality of business management

Increase the productivity of industry » Growth rate of labor productivity in industry		TRANSFORMATIVE ACTIONS	 Identify hurdles and propose measures to improve the law in favor of innovation Develop joint sectoral innovation plans involving the private sector and government Carry out studies and prepare proposals for access to and development of activities based on Brazilian biodiversity 	 Propose measures to modernize the law on intellectual property and fight piracy Prepare proposals and carry out actions to facilitate exchanges between industrial companies, universities, and research institutions Propose measures to stimulate innovation relying on the purchasing power of the State 	 Propose measures to improve funding and incentives for innovation with the aim of ensuring greater access of private companies to them 	 Consolidate Brazilian Industrial Research and Innovation Association (EMBRAPII) as a means of supporting pre-competitive R&D Propose measures that allow enterprises to use the sectoral funds directly 	Act to expand and modernize technological institutes in Brazil	 Promote an alignment between the supply of technical and technological services according to the demand from enterprises. 	Stimulate training for entrepreneurs in different management approaches Stimulate training for entrepreneurs in different management approaches	Create a specific program to increase the productivity of industrial MSMEs
PRO	DDUCTIVITY KEY FACTOR	OBJECTIVES AND INDICATORS	Improve the institutional environment	» Quality of the institutional environment for innovation	Facilitate access to financing and incentives	» Percentage of companies that innovated and used public incentives for this purpose among all enterprises that innovated	Increase the provision of technological consulting services to companies	» Quality of scientific research institutions	Improve the quality of business management	» Level of business sophistication
10 INNOVATION AND FIGURE 14. SUMMARY TABLE OF THE	INNOVATION AND PRODUCTIVITY KEY FACT	PRIORITY TOPICS		INSTITUTIONAL ENVIRONMENT AND	INCENTIVES FOR INNOVATION		TECHNOLOGICAL	CONSULTING SERVICES	BUSINESS	MANAGEMENT

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