RS SEMICONDUCTOR PROGRAM

Program launched in 2023 to further leverage this sector, a future-oriented sector and so essential in the 21st century. Our goal **is to improve and connect all links in the semiconductor production chain, attract new companies**, expand existing incentives and create new ones.

Public commitment: approximately BRL 70 million for investment in the sector until 2026.

PROGRAM OBJECTIVES

- **Strengthen the semiconductor sector** in the State of Rio Grande do Sul, promoting the competitiveness of companies already established and the development of local industry.
- **Establish a permanent forum** between the State and the semiconductor sector for policy discussions and analysis of technological trends.
- **Attract new investments in the semiconductor sector** through clear communication of competitive advantages and new commitments to stimulate the sector.
- **Promote the training of specialized semiconductor workers** through partnerships with educational and technical training institutions.
- **Promote research and development of new technologies and solutions in semiconductors**, encouraging interaction between companies, teaching and research institutions, and the State Government.

MAIN ACTIONS OF THE PROGRAM

- **Training of specialized labor:** through notices to promote research and innovation.
  LAUNCHED | Integrated circuit designers.
  NEXT | Board Layout Designer
  NEXT | Packaging and testing of integrated circuits

- **Credit lines with development banks:** mainly the regional banks BRDE and Badesul.

- **Permanent state consultative forum:** dialogue with actors in the production chain.

- **Mapping of technological trends:** a strategic plan that will identify priority areas for investment in research and development.

- **Notices to promote startups** and the technological development in companies.

- **TechFuturo Semiconductors:** encouraging collaboration between scientific institutions and companies in the semiconductor sector.

- **Partnership with EMBRAPII:** sharing of laboratories with companies, to provide technological infrastructure for technical services.

RELEASES 2023

Inova Semiconductor

- Training of qualified workers in the microelectronics sector.
- **State investment of BRL 3 million**
- 60 training grants of BRL 4,000/month Course lasting 6 months

Techfuturo Semicondutors

- Support for **strategic projects** for the development and improvement of products and processes, with a focus on the microelectronics and semiconductor segment.
- **State investment of BRL 11 million.**
- Goal: **formation of high-level networks of scientific and technological competitiveness**, with integration between university researchers and established companies and startups.

Understand why **Rio Grande do Sul** is the main destination for **semiconductor investments** in Brazil.

PROGRAMA SEMI CONDU TORES RS

PLANO **RIO GRANDE**

GOVERNO DO ESTADO **RIO GRANDE DO SUL** SECRETARIA DE INOVAÇÃO, CIÊNCIA E TECNOLOGIA

PLANO **RIO GRANDE**

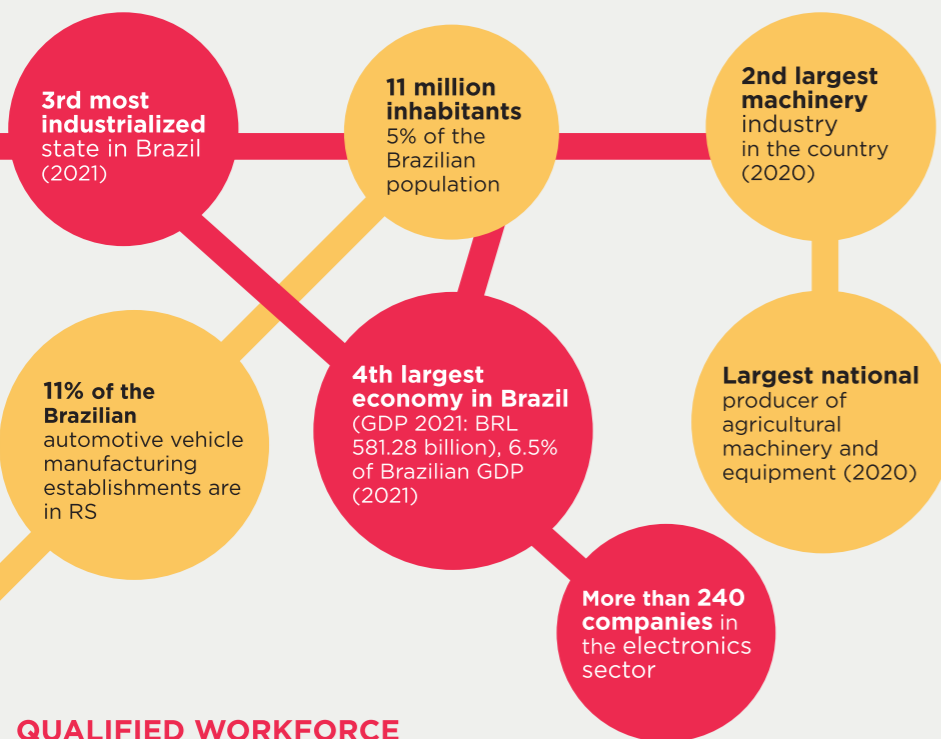GOVERNO DO ESTADO **RIO GRANDE DO SUL** O futuro nos une.

WHY RIO GRANDE DO SUL?

One of the largest economies in Brazil, **with a strategic location, available qualified workforce and a history in the sector.**

PRIVILEGED POSITION

South of Brazil and in the center of Mercosur: border with Uruguay and Argentina.

Access to the largest consumer markets in South America: within a radius of 1,500 km from the capital, it reaches 150 million inhabitants and 70% of the continent's GDP.

Cidade do Panamá 7h
Lima 5h
BRASIL
Santiago 3h
Buenos Aires 1h 45min
Montevidéu 1h 25min
Porto Alegre
São Paulo 1h 25min
Rio de Janeiro 1h 45min
Lisboa 10h 45min

3rd most industrialized state in Brazil (2021)

11 million inhabitants 5% of the Brazilian population

2nd largest machinery industry in the country (2020)

11% of the Brazilian automotive vehicle manufacturing establishments are in RS

4th largest economy in Brazil (GDP 2021: BRL 581.28 billion), 6.5% of Brazilian GDP (2021)

Largest national producer of agricultural machinery and equipment (2020)

More than 240 companies in the electronics sector

QUALIFIED WORKFORCE

- **Best Federal University in Brazil (UFRGS) and best private university in Brazil (PUCRS),** according to the Folha University Ranking (RUF, 2023).
- **Highest concentration of PhDs and Masters per capita among Brazilian states (CGEE, 2017).**
- **1st place in academic production per capita in Brazil.**
- 1st state in number of professors with Master and Doctorate degrees.
- 133 higher education institutions (MEC, 2024).
- 39 scientific, technology and innovation institutions - ICTs.
- 163 ICT units.
- **207 undergraduate and graduate courses related to the semiconductor production chain** (Microelectronics, Electrical Engineering, Computer Science, among others).

INVESTMENT IN HUMAN CAPITAL FROM SCHOOL ONWARDS

Concern with the formation of human capital that begins at school, with a focus on transformative education aligned with the demands of the 21st century.

"Educar para Inovar" Program

unesco EDUCAR PARA INOVAR SICT/SEDUC

Training paths for students and teachers, with emphasis on the Computer Science path.

Visits to innovation centers and annual events encourage the exchange of experiences and awareness.
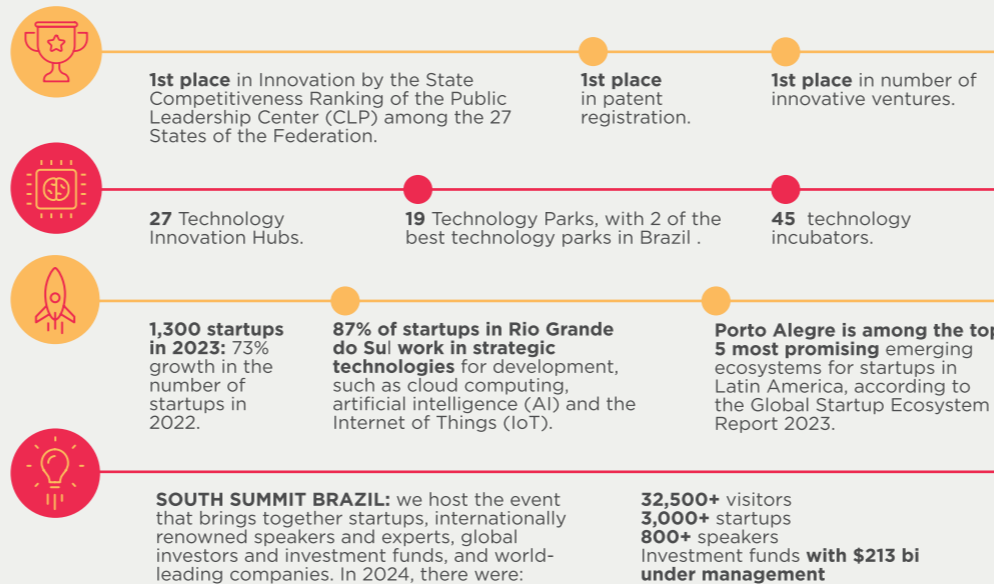
Dev the Devs - Develop the Developers

DEVS PUC-RS

Initial developer training for high school students in the state public school system.
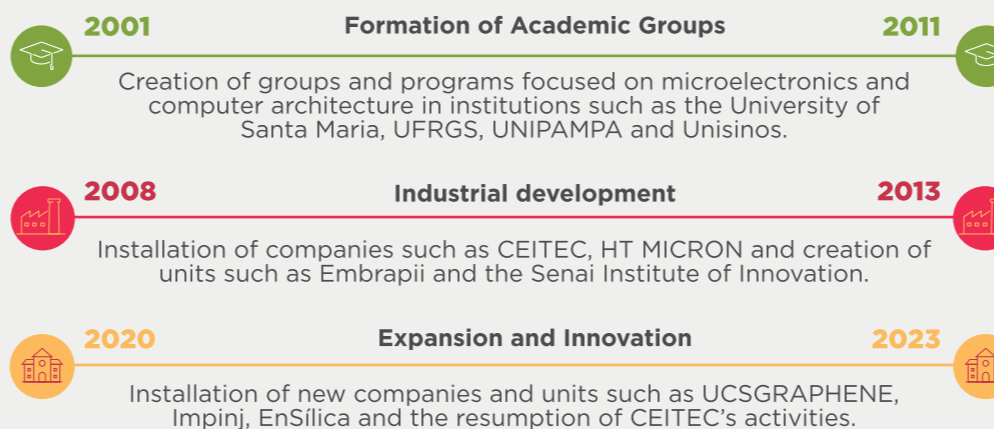
100% online and free.

1000+ students trained.

ENVIRONMENT FAVORABLE TO TECHNOLOGY INNOVATION

1st place in Innovation by the State Competitiveness Ranking of the Public Leadership Center (CLP) among the 27 States of the Federation.

1st place in patent registration.

1st place in number of innovative ventures.

27 Technology Innovation Hubs.

19 Technology Parks, with 2 of the best technology parks in Brazil .

45 technology incubators.

1,300 startups in 2023: 73% growth in the number of startups in 2022.

87% of startups in Rio Grande do Sul work in strategic technologies for development, such as cloud computing, artificial intelligence (AI) and the Internet of Things (IoT).

Porto Alegre is among the top 5 most promising emerging ecosystems for startups in Latin America, according to the Global Startup Ecosystem Report 2023.

SOUTH SUMMIT BRAZIL: we host the event that brings together startups, internationally renowned speakers and experts, global investors and investment funds, and world-leading companies. In 2024, there were:

32,500+ visitors
3,000+ startups
800+ speakers
Investment funds **with $213 bi under management**

RIO GRANDE DO SUL'S SOLID HISTORIC RECORD IN THE SECTOR

Since the 1980s, Rio Grande do Sul has been a hub for innovation in microelectronics, housing academic programs and semiconductor companies.

2001 Formation of Academic Groups **2011**

Creation of groups and programs focused on microelectronics and computer architecture in institutions such as the University of Santa Maria, UFRGS, UNIPAMPA and Unisinos.

2008 Industrial development **2013**

Installation of companies such as CEITEC, HT MICRON and creation of units such as Embrapii and the Senai Institute of Innovation.

2020 Expansion and Innovation **2023**

Installation of new companies and units such as UCSGRAPHENE, Impinj, EnSílica and the resumption of CEITEC's activities.

SEMICONDUCTOR SECTOR TODAY IN RS

- The electronics sector in RS had a turnover of **BRL R$ 12.5 billion in 2022** (ABINEE)[1].
- Our electronics industry is one of the largest industrial parks in Brazil.
- +240 companies in 10 segments.

CEITEC
National Center For Advanced Electronic Technology

Located in RS, the state-owned **company is a pioneer in Latin America** and the only manufacturer of microchips in Brazil.

It is a **milestone in Brazil's technology history** and represents a significant **advance for the country in the global semiconductor industry**.

LARGE MULTINATIONALS AND RECENT INVESTMENTS

Three acknowledged multinational companies in the sector have set up their industries in our state in recent years:

HT Micron
- It belongs to the South Korean company Hana Micron.
- It operates in the area of packaging and testing of integrated circuits.

Impinj
- North American multinational
- Works in the area of integrated circuit design (Design House)

EnSilica
- English multinational
- Works in the area of integrated circuit design (Design House)

TAX INCENTIVES

Tax benefits in Rio Grande do Sul turn the sector even more competitive in our state.

- **Presumed credit of 100% of ICMS payable:** zero ICMS for the sale of semiconductors and derived devices to RS and other states in Brazil.
- **Zero ICMS for imported inputs:** imports of inputs and components used by companies in RS for industrialization do not pay ICMS upon entry.
- **Presumed credit:** reduction of the ICMS burden to 4% on the sale (exit) of finished IT and automation products.

1 ABINEE: Associação Brasileira da Indústria Elétrica e Eletrônica.

PLANO RIO GRANDE
Todos nós por todos nós.

Climate reconstruction, adaptation and resilience program, created to mitigate the effects of the 2024 floods in the state of Rio Grande do Sul. **Access the Portal and find out more:**

PLANO RIO GRANDE
Todos nós por todos nós.