



BRAZIL AND JAPAN COOPERATION FOR SUSTAINABILITY

2023



Serviço Nacional de Aprendizagem Industrial
PELO FUTURO DO TRABALHO

Brazil's strategy to support a low carbon economy

Brazil's commitments to reduce GHGs Emissions



Reduce absolute GHG emissions of **37%** by 2025 and **43%** by 2030 (base year 2005)



Climate Neutrality by 2050



Zero illegal deforestation by 2030

Brazil's comparative advantage



Clean electric matrix (84,8% from renewable sources)



Low carbon intensity of the industry



2nd largest **Biofuels** production in the world



Greatest biodiversity on earth (20% of the total species on Earth)



Large forest cover (58% of the national territory)

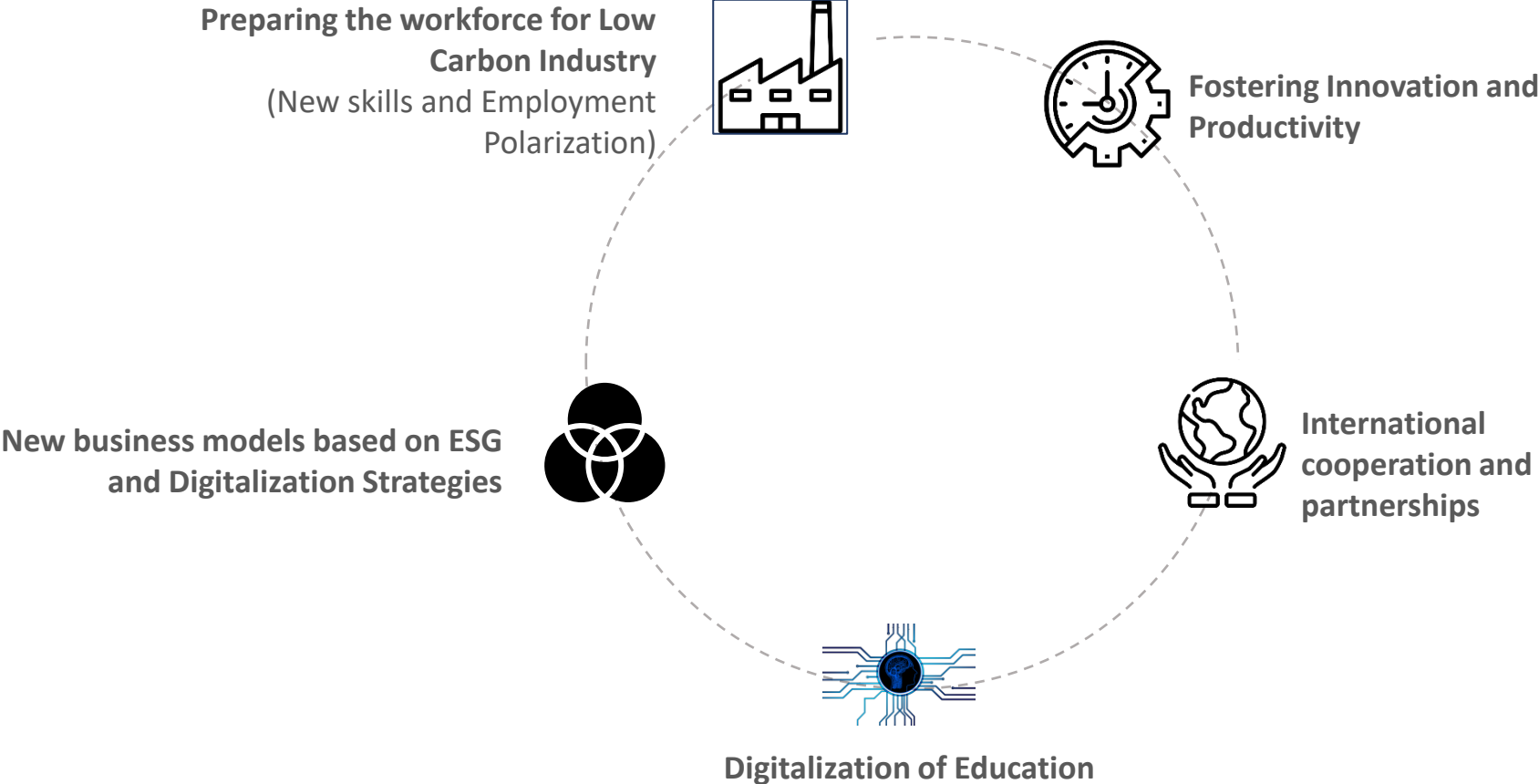


World's **largest water resources** (12% of world reserves)

Brazil's main challenges

- ❑ Definition of a **broad and integrated strategy to reduce GHGs emissions**, including policies that create a favorable investment environment
- ❑ Establishment of an **institutional governance and coordination of efforts between government and the productive sector** to ensure greater transparency and compliance with the commitments made under the Paris Agreement
- ❑ **Development of a decarbonization plan** in consultation with the productive sector and based on sectorial plans that consider the specificities of each sector
- ❑ Investments in **R&D&I aiming at new low carbon energy and technologies** (such as hydrogen, and carbon capture and storage)
- ❑ Development of an **urban infrastructure supported by low carbon technologies** (mobility, buildings, lightning, waste stream, sewage system, etc)

SENAI's strategy to support a Low Carbon Economy



SENAI

Capacity building for
the Brazilian
industry.

Mission: to **promote vocational and technological education, innovation** and the **transfer of industrial technologies**, contributing to increasing the **competitiveness of the industry**.

SENAI is the largest private complex of professional education and technological services in Latin America.





- A private institution of public interest, created in 1942
- A non-profit institution with a social purpose
- An institution financed by the Brazilian Industry

SENAI

(in numbers)

+ 2,3 million enrollments in professional education

+ 2 million lab services carried out annually

+ 20,000 companies attended annually

583 units

457 units

2 School boats

28 Innovation Centers

Over 3.2 thousand municipalities served

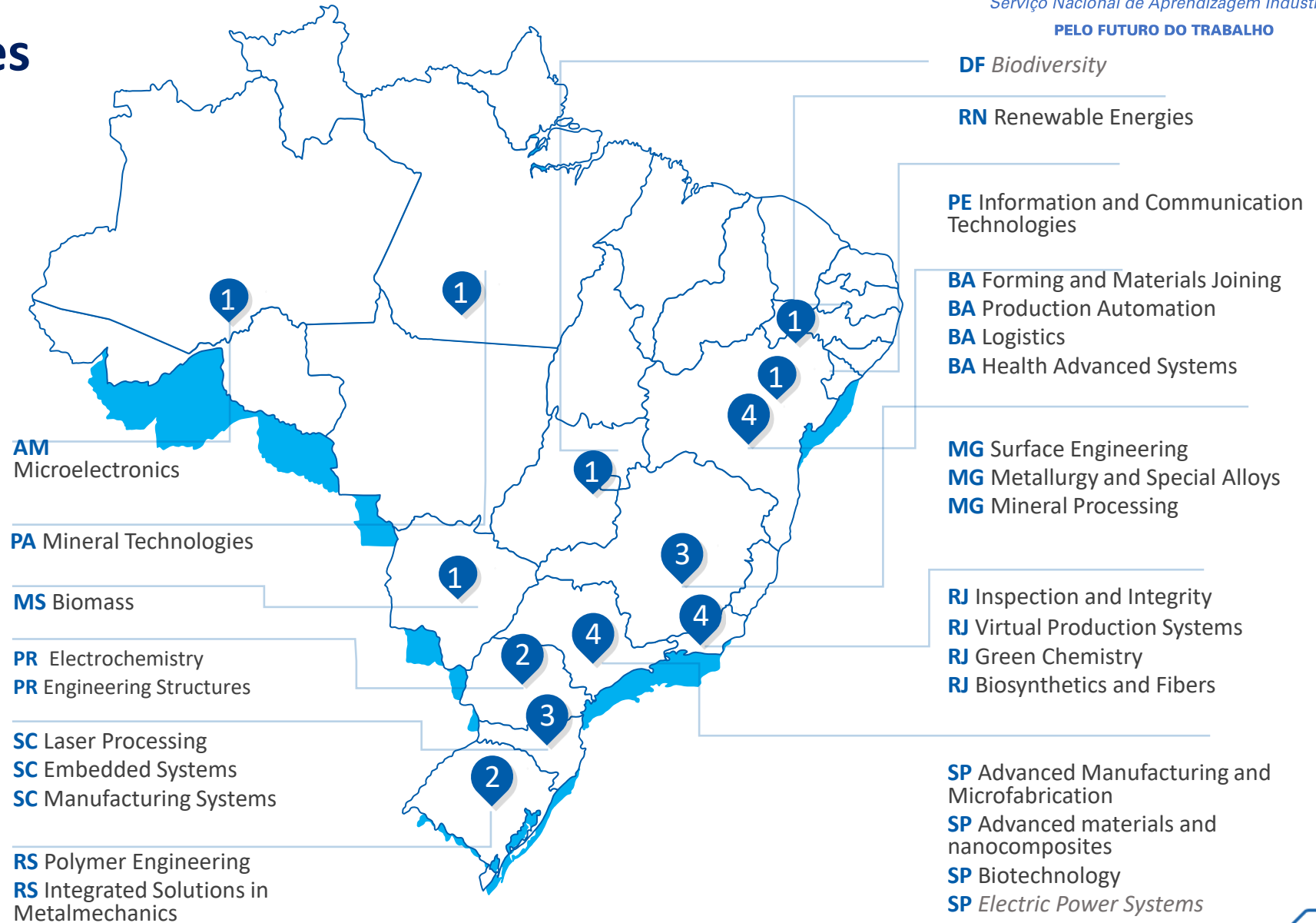
SENAI's Network of Innovation Institutes



Serviço Nacional de Aprendizagem Industrial

PELO FUTURO DO TRABALHO

- + 2400 R&D projects
- + R\$ 2 Billion mobilized
- +1000 Team
- 48% PhD and Masters Researchers
- +1000 companies attended



Pilot Portfolio of SENAI's Industrial Missions

**5**

Industrial Missions carried out

**229**

Project proposals received

**4**

Anchor companies

**R\$ 871 M**

Project proposals R&D received

**2023**

Knowledge management tools for missions





PARTNERSHIP WITH JAPAN

Brazil and Japan for Sustainability



Serviço Nacional de Aprendizagem Industrial

PELO FUTURO DO TRABALHO

Technical Cooperation

Development of human resources the improvement of technical standards and the efficiency of managing systems by utilizing the knowledge, experience, and technologies of Japan through:

- i. Dispatch of experts
- ii. Technical Training
- iii. Technical Cooperation Projects
- iv. Technical Cooperation for Development Planning

Public-Private Partnerships

Introduce digital technologies and know-how (like IoT, AI and Robotics) from Japanese companies to strengthen Brazilian capacity to meet global challenges:

- i. Energy transition
- ii. Digitized value chain
- iii. Circular economy
- iv. Health Access
- v. Society 5.0 for SDGs



SENAI

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