



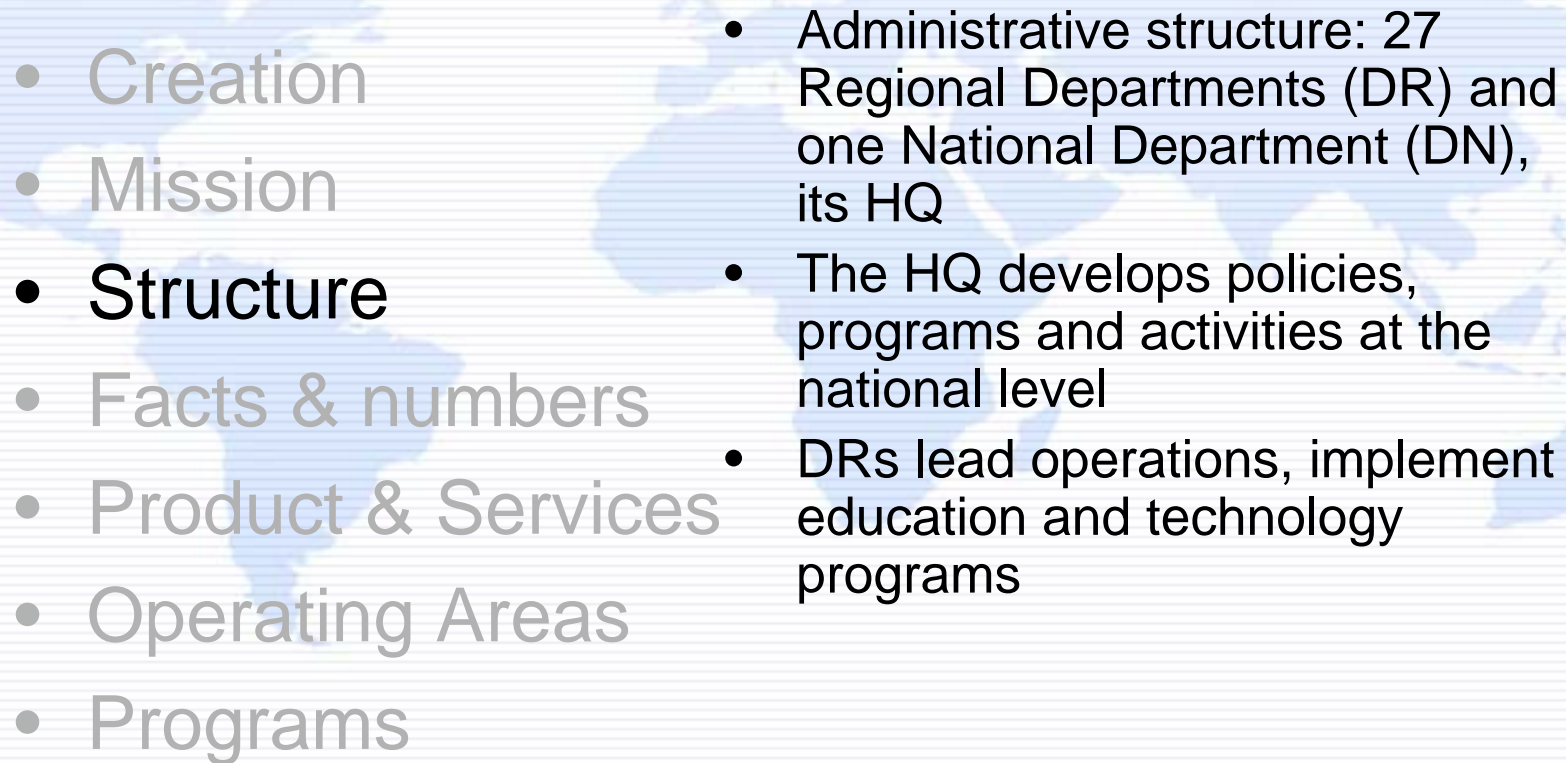
National Service for Industrial Apprenticeship - SENAI

- Creation
 - Mission
 - Structure
 - Facts & numbers
 - Products & Services
 - Operating Areas
 - Programs
- In the 1940s, with a view to supporting fledgling Brazilian industry
 - Import substitution policies
 - Need for qualified labor
 - Associated with Brazil's National Confederation of Industries



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- A light blue world map is visible in the background of the slide, centered behind the text.
- Creation
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 - Programs
- To contribute to raising the competitiveness of the Brazilian industry by promoting technical and technological training, innovation and the transfer of industrial technology

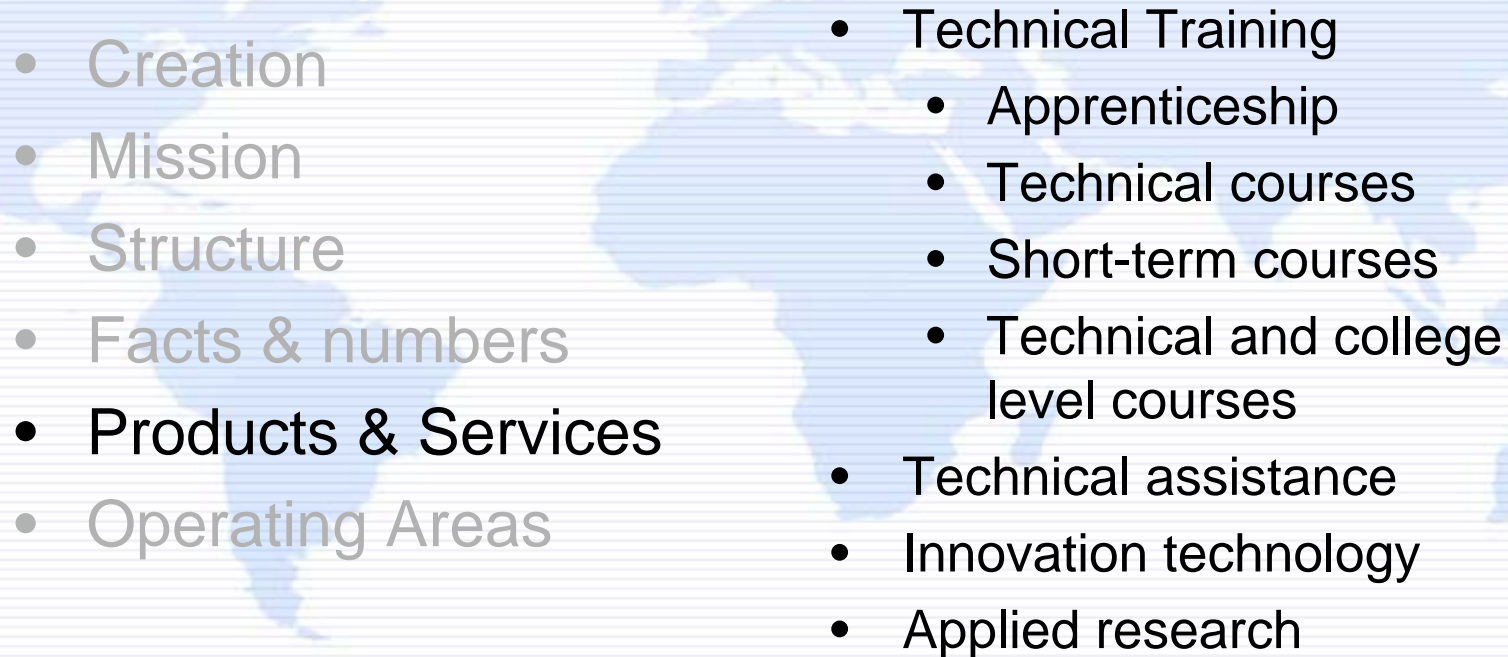


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- A light blue world map is visible in the background of the slide, showing the continents and oceans in a simplified, stylized manner.
- Creation
 - Mission
 - **Structure**
 - Facts & numbers
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 - Programs
- Administrative structure: 27 Regional Departments (DR) and one National Department (DN), its HQ
 - The HQ develops policies, programs and activities at the national level
 - DRs lead operations, implement education and technology programs



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 - **Facts & numbers**
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- Over 2.1 million enrollments in 2007
 - 696 operational units
 - 401 stationary
 - 295 mobile
 - 28 industrial fields of expertise
 - More than 96,000 technical consulting services provided in 2007
 - 171 laboratories (of which 77 accredited)
 - 43 international partnerships in 2008 with institutions in 30 countries
 - A Worldskills member since 1983 (2nd place in Shizuoka Japan 2007)



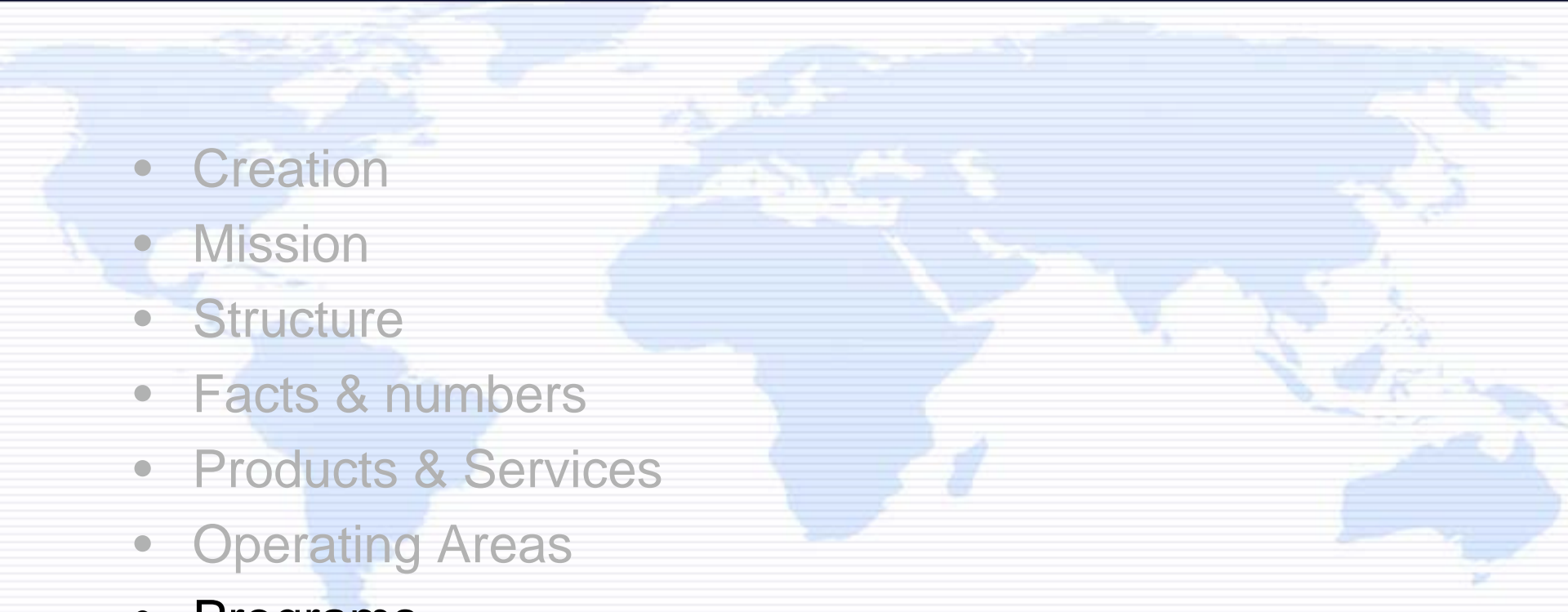
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 - **Products & Services**
 - Operating Areas
 - Technical Training
 - Apprenticeship
 - Technical courses
 - Short-term courses
 - Technical and college level courses
 - Technical assistance
 - Innovation technology
 - Applied research



- Creation
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- Structure
- Facts & numbers
- Products & Services
- Operating Areas
- Programs

- Food & Beverages
- Automation
- Auto repair
- Cellulose & Paper
- Construction
- Leather & Footwear
- Electro electronics
- Energy
- Gemology & Jewelry
- Management
- Printing & Editing
- Wood & Furniture
- Environment
- Metalworking
- Metrology
- Mining
- Non-metallic minerals
- Oil & Gas
- Polymers
- Chemistry
- Refrigeration & Air-conditioning
- Work safety
- Information technology
- Telecommunications
- Textiles & Clothing
- Transportation

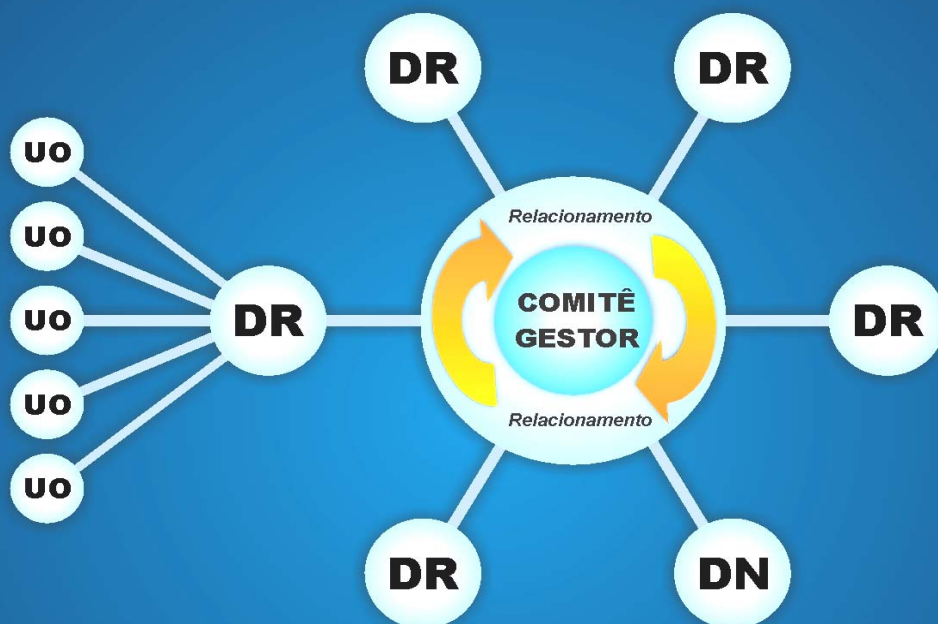


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- A light blue, semi-transparent world map is positioned in the background of the slide, centered behind the text.
- Creation
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 - Facts & numbers
 - Products & Services
 - Operating Areas
 - **Programs**



SENAI's Distance Learning Network

SENAI's Distance Learning Network develops learning resources and carries out DL courses in collaboration among all SENAI's regional offices



- Membership : 27 DRs e DN
- Steering Committee
- Focal points in all 27 DRs
- Thematic and ad hoc working groups



SENAI's Training of Trainers Program (through distance learning)



- Three areas: basics, education and management
- 17 course books, two CD-ROMs and one student guide



- Targeting directors and managers of technical education institutions; technical education experts; training and technical staff; and administrative personnel

**Over 13,000 students from SENAI
and partner institutions**



Pedagogical Qualification Special Program for Technical Education Trainers (through distance learning)



DL course targeted at technical training staff aimed at providing pedagogical qualification to staff at graduate level

Unisul Virtual
(University of
South - Santa
Catarina)



Partnership in the pedagogical conception and in the development of didactic resources



Program accredited by the Ministry of Education

Course completed by 1,600 SENAI teachers



Technological Update Program for SENAI Trainers



Distance learning courses targeting technical education staff at various levels

- Metalworking
- Food and beverage
- Construction
- Electronics and appliances

**2000
teachers
reached**

SENAI regional offices are selected through a call for proposals for course development and implementation



SENAI Inclusive Actions Program

Inclusion Themes

People with special needs

Race, ethnicity and gender equality

Starting in 2007 programs for the elderly

- Target groups
 - Historical black communities
 - Indigenous communities
 - Women in industry

↓
26,000 actions by January 2007



SENAI Learning Resources Program



- **Quality enhancement of learning materials**
- **Dissemination through a web-based repository contained over 6,000 titles**
- **Learning kits**
- **Planned SENAI publishing house**
- **Areas covered: metalworking, electronics and appliances and construction**



Technical Education Actions for 2007-2010

➤ Continuous training for SENAI teachers, technical staff and managers

➤ 15,000 staff trained so far

➤ Updating of SENAI's infrastructure — a BRL 1.2 billion investment

➤ Basic and continuing technical qualifications

Over 8 million worker enrollments

➤ Technical training at secondary education level

482,000 enrollments

➤ Higher education

32,000 enrollments

A faint, light blue world map is visible in the background of the slide.

**Technical
Education for a
new Industry
Program**





International Cooperation

- Goals
- Types of Cooperation Programs
 - Rendered
 - Received

Access to technology and education are key factors in economic and social development.

With a view to pursuing these goals, SENAI engages in cooperation actions with educational and technological institutions worldwide



- Background
- Types of Cooperation Programs
 - Rendered
 - Received

SENAI joins technical cooperation actions with other developing countries, especially in South America, Lusophone Africa and East Timor, acting as an executing agency for the Brazilian government.

Recent projects:

- **Angola:** Vocational Training Centre of Cazenga
- **Paraguay:** Vocational Training Centre of Hernandarias
- **Cape Verde:** Vocational Training Centre
- **Guinea-Bissau:** Vocational Training Centre
- **East Timor:** Vocational Training Centre of Dili



- Background
- Types of Cooperation Programs
 - Rendered
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In its efforts to keep pace with developments in technology and education methodologies worldwide, SENAI has greatly benefitted from technical cooperation projects with industrialised countries.

- **Canada:** environment, gas, food, wood and furniture, petrochemicals (...)
- **Japan:** metalworking, robotics, electronics, textile, foundry (...)
- **Spain:** food, leather and footwear, wood and furniture (...)
- **Germany:** environment, metal-mechanics, precision mechanics, textile, leather and footwear, welding, food and beverage (...)



Technical cooperation: How does it work?

- Intergovernmental agreements
 - Brazilian Cooperation Agency
 - Financing by governments or international organizations
- Inter-institutional
 - Cooperation agreements and Memoranda of Understanding
 - Work plans
 - Limited counterpart requirements



Cooperation focus

- Bringing innovation for educational and technological services
- Training of human resources
- Transfer of know how
- Dissemination of innovation to the Brazilian industry
- Support to Brazilian foreign policy
- Bringing in new skills for staff



The SENAI logo is displayed in white, bold, uppercase letters. It is flanked by three horizontal lines on both the left and right sides. The background of the top section is a dark blue gradient with a faint image of a group of people and some text, including 'SENAI' and 'OVATION CENT'.

SENAI

***Strategic partnerships with
world renowned institutions***

The bottom section of the slide features a dark blue background with a faint, high-angle image of a laptop keyboard, showing the keys and the trackpad area.

India

- **Confederation of Indian Industries (exchange of know-how in institution building in skills training and benchmarking)**

France

- **International Exchange and Technical Consulting Association (Food quality control)**



Italy

- **Consorzio del Politecnico di Milano (strategic design)**



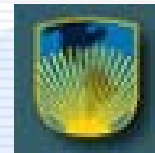
New Zealand

- **Massey University (food technologies)**



IDB

- Interamerican Development Bank (logistics)



Colombia

- National Apprenticeship Service (exchange of specialists in leather and shoes, graphic arts, and wood and furniture)



Panama

- Support to INADEH in technical training for the expansion of the Canal



Germany

- Fraunhofer Society (radio frequency identification, logistics, microsystems for meat quality control)



Great Britain

- British Council (ESL Training of Teachers of SENAI)



Thank you!

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