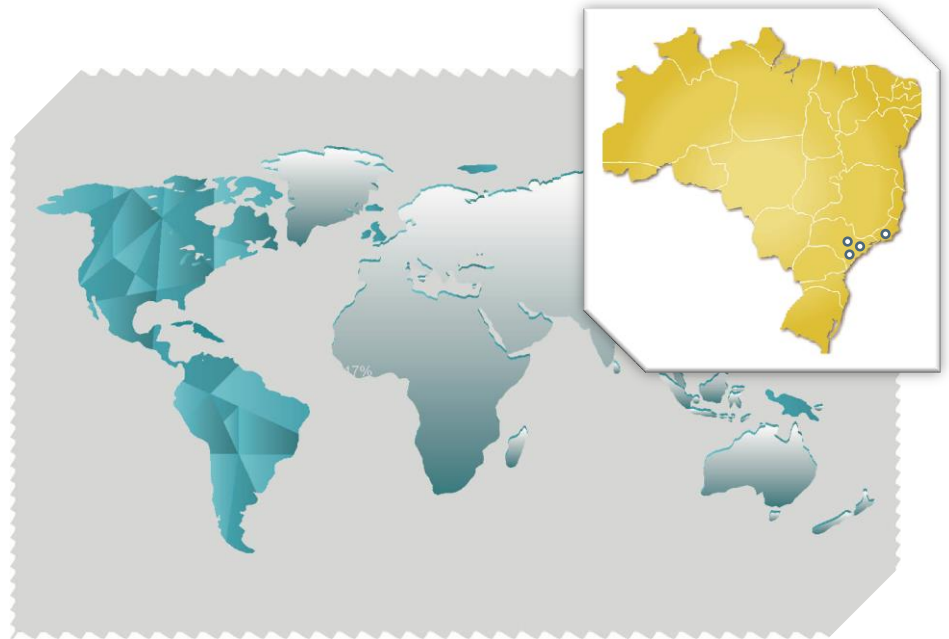


Present in Brazil for **more than 60 years**, Alstom has been participating in the development of the country's infrastructure, contributing to the social progress and respecting the environment.

Dedicated to the **rail transport sector**, its contribution is attested with products and services in the mainly passenger operators, such as São Paulo Metro, Rio de Janeiro Metro and Tramway, Brasília Metro and it has been implementing technological solutions for freight transport operators such as Vale.

For more than 10 times Alstom Brazil has been awarded by Railway Magazine including as Best Manufacturer of passenger cars and Best Technology Creator.



Alstom is the first rail signalling manufacturer in Brazil. As the result of a great need for urban mobility and new private projects being bid in the country, Alstom shows a strong resumption for the railway sector:

Main references – National

▪ Passenger Transportation

- 🚆 **CMSP (São Paulo Metro):** for Lines 1, 2 and 3 supply of 66 Automatic Train Control (ATCs) and Communication-based Train Control (CBTC) Driverless System. For Line 5, supply of the main ventilation system for the stations and tunnels of the new stretch. For Line 2, supply of 96 cars (16 trains), power, signalling and auxiliary systems. For Line 4 provide the infrastructure and auxiliary power system. Also for Lines 1 and 3, maintenance of 47 trains.
- CPTM (São Paulo):** supply of signalling systems, internal equipment and operational control center, 20 new trains, maintenance of about 120 trains and refurbishment of 266 traction motors.
- METROREC (Recife):** supply of control and signalling systems.
- Porto Maravilha (Rio de Janeiro):** supply of a tramway system without catenary composed by 32 Citadis compositions, power supply, signalling and telecommunications systems.
- Rio de Janeiro Metro:** supply of the signalling system and control center.
- Supervia (Rio de Janeiro):** partnership for the construction of an assembly plant of trains in Deodoro, the West Zone of Rio de Janeiro, and supply of 10 new trains. Besides that, supply of 48 cars news cars.
- Trensurb (Porto Alegre):** supply of 15 metro trainsets.

KEY FIGURES

More than 1,500 employees

4 units:

- **Água Branca:** Alstom's headquarters for Brazil and Latin America and Signalling regional center
- **Lapa:** The main Rolling Stock production site of Alstom in Brazil, includes services activities, infrastructure and systems office. **Lapa is also the world excellence center for the manufacturing of stainless steel cars**
- **Taubaté:** Alstom first Citadis tramway manufacturing line in Latin America
- **Rio de Janeiro:** Project office for Rio de Janeiro Tramway project

Proven **expertise for exportation to international markets.**

Main references – International

- **Chennai (India):** supply of 9 trains to Chennai Metro Rail Limited, transfer of technology and knowledge to new unit of Alstom India that will produce the other 33 trains of the contract.
- **Metrovías (Argentina):** supply of 36 trains and signalling system.
- **New York Metro (United States):** supply of 1,002 car shells.
- **SBASE (Argentina):** supply of 20 Metropolis trains for line H of Subterráneos de Buenos Aires, modernisation of 48 cars and 180 new cars for Line D.
- **Santiago Metro (Chile):** supply of 277 metro cars.
- **PRASA (South Africa):** supply of 600 passenger trains and the first 20 manufactured at Lapa unit.

CORPORATE SOCIAL RESPONSIBILITY

People, sustainability and the environment are at the heart of Alstom's business, and pledged its commitment to limiting the impact its activities have. Everywhere Alstom is located, it will work with local communities and collaborate with partners on sustainable development projects focused on tomorrow's technologies, training, job creation and environmental preservation.



Check our projects on Alstom Foundation website:
<http://www.alstom.com/pt/foundation/>

Main references – Freight transport

- **Vale:** supply of two new Operational Control Centers for EFVM (Vitória-Minas Railroad) and Central Atlantic Railroad (FCA), 280 internal equipment and identification system load; signalling system for EFC (Carajás Railroad) with Communication-Based Train Control (CBTC) technology; 179 pieces of onboard equipment for EFC's fleet and 23 Automatic Train Control (ATCs).

RIO DE JANEIRO TRAMWAY

Alstom was awarded a contract by VLT Carioca to take part in the modernisation of Rio Porto Maravilha area with the supply of a full catenary-free integrated tramway system. This new network, totaling 28 km over three lines with 31 stations and one depot entered into service for the 2016 Olympic Games.

Alstom supplied an integrated tramway system solution including rolling stock, electrification, signalling, telecommunications and depot equipment. This **first 100% catenary-free** solution in South America with a combination of **APS**, Alstom's ground-level electrification technology and **Citadis Ecopack** – on-board energy storage solution. This mixed integrated solution offers unlimited power supply and optimised infrastructure for maximum operational comfort.

This new network will provide the population with **smooth, efficient and economic transport**, opening the port area to the rest of the city. The system will be able to carry up to 300,000 passengers per day in 2017.



Olympic Boulevard – Rio de Janeiro – August 2016