Institutional Presentation



Moving What Matters™

GBMX
GREENBRIER MAXION
AN AMSTED RAIL GLOBAL PARTNER

Welcome!

Move forward with South America's largest railway industry



GBMX

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Mission

To develop and apply our expertise to propose innovative, complete and integrated solutions that, throughout their entire lifecycle, are capable of:

- Motivate our teams
- Generate success for our clients
- Respect the environment and the community
- Ensure the sustainability of the entire business

Vision

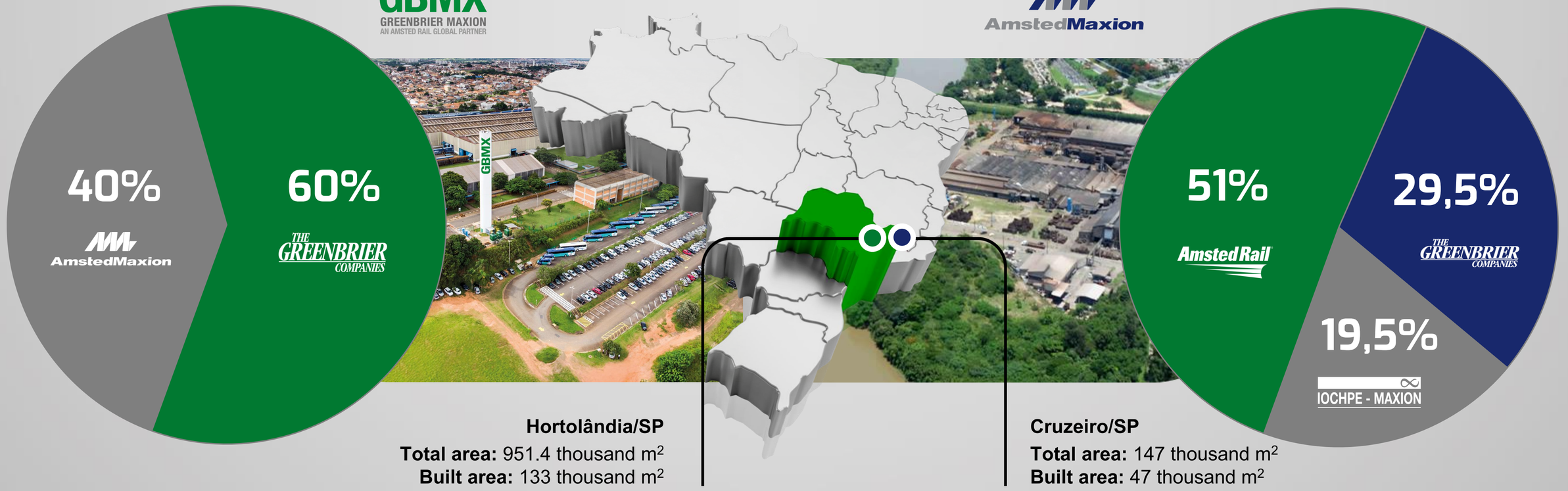
To be the first choice in the freight wagon, bogie, and railway services industry.

Values

- Excellence
- Commitment to Ethics
- Creative Development
- Respect for People
- Commitment to Safety
- Social Sustainability


Start of operations
FNV
1943
2000
Amsted MAXION
FUNDIÇÃO E EQUIPAMENTOS FERROVIÁRIOS S.A.
Joint venture with Amsted Industries
New visual identity
AmstedMaxion
2009
2015
THE GREENBRIER COMPANIES
The Greenbrier Companies acquires a 19.5% stake in the Hortolândia unit
The Greenbrier Companies acquires a 60% majority stake in the Hortolândia unit
GREENBRIER MAXION
AN AMSTED RAIL GLOBAL PARTNER
2017
2023
ANOS
80 years of operation in the railway industry
New brand and slogan
GBMX
GREENBRIER MAXION
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Moving What Matters™
2026

Industrial plants and shareholders



Hortolândia/SP
Total area: 951.4 thousand m²
Built area: 133 thousand m²

Cruzeiro/SP
Total area: 147 thousand m²
Built area: 47 thousand m²

GBMX plant portfolio:
- **Wagons**: more than 30 types
- **Bogies**: 4 types
- **Services**: adaptation, modernization, and transformation for wagons and components.

AM plant portfolio:
- **Wheels**: 12 types
- **Railway components**: 170 cast parts
- **Industrial components (yellow line):** 70 parts

~ 2,000
direct employees at both plants.



GBMX = Hortolândia/SP

Founded in 1943, it is the successor to the **National Wagon Factory (FNV)**

Industrial plant and shareholders

IOCHPE - MAXION

Global company, world leader in the production of automotive wheels and one of the main producers of automotive structural components in the Americas, with 31 plants, located in 14 countries and around 15 thousand employees.

Amsted Rail

Company of the Amsted Industries group, it is the leader supplier of rolling stock, systems and components for the world's rail markets.

THE GREENBRIER COMPANIES

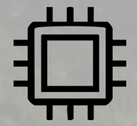
North American leader with plants in the U.S., Poland, Brazil, Turkey, Mexico, and Romania. Greenbrier Management Services (GMS) manages more than 400,000 wagons and runs 8 wagon repair shops in North America. It operates in the leasing segment through Greenbrier Leasing Company LLC (GLC) and has approximately 10,300 leased wagons.

Complete and integrated solution for rail transportation in South America

The strength of the three companies resulting in a high value package.



World leader in wagon design, with integrated engineering and innovative design for any need.



Cutting-edge technology in components designed to carry heavier loads at higher speeds, generating greater efficiency.



Largest railway operation in South America, with a portfolio of more than 30 wagon types serving different cargoes.



Optimization of the production process through robotics and continuous improvement, creating greater efficiency and quality in products.



Consolidation of services such as refurbishment, adaptation, and repair services for wagons and its components.

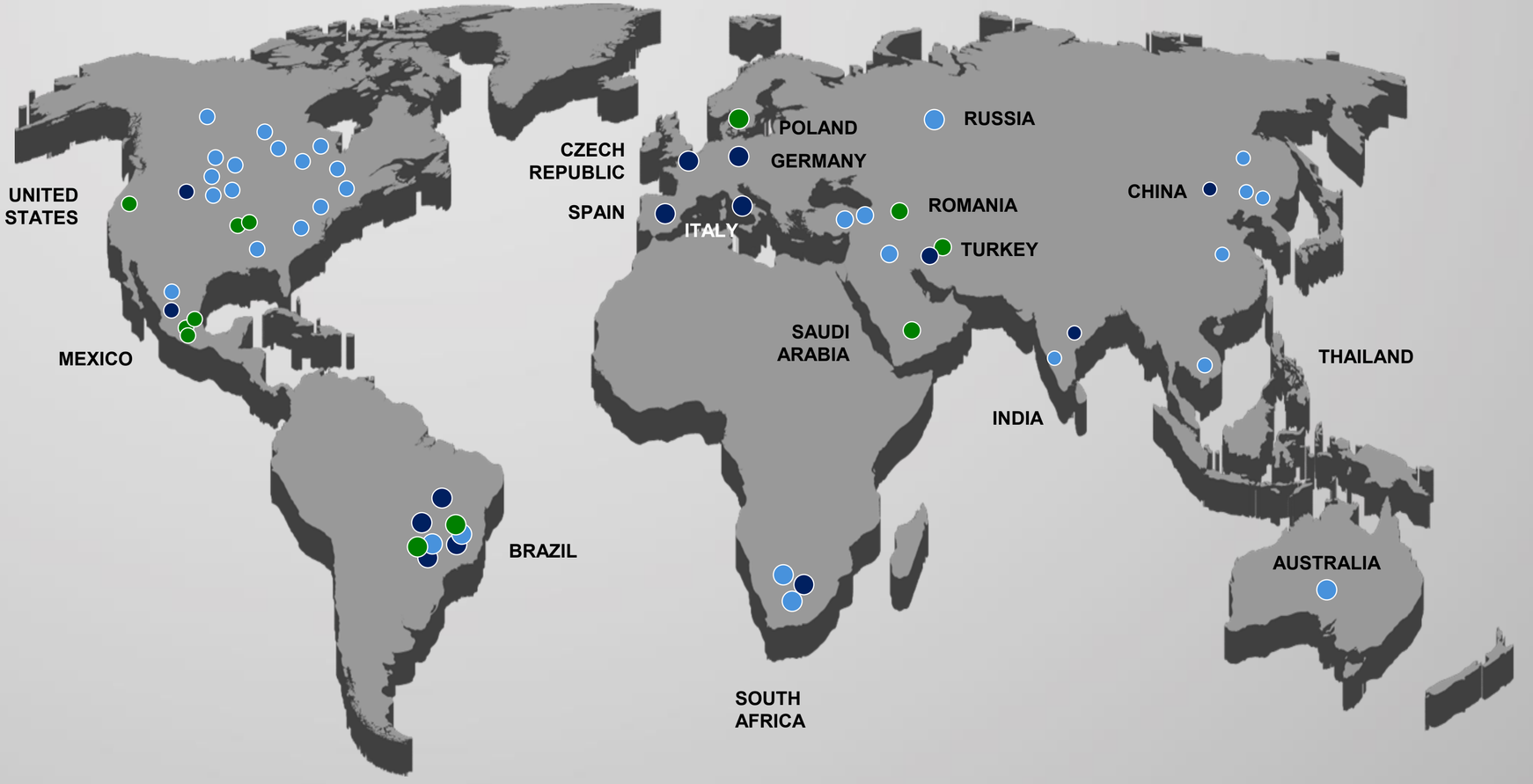


Solid railway engineering, using international experience for application in various solutions.

Global presence

Connecting Brazilian rail innovation to the world

Through a robust structure of industrial plants and advanced facilities, GBMX delivers efficient solutions anywhere in the world.



- **Iochpe-Maxion**
- **Amsted Industries**
- **Greenbrier**

Export:
over **30 countries**

GBMX in numbers

Reflecting its market leadership

~1,000 employees

GBMX has a total area of **951.4** thousand m²



Portfolio with more than **30 types** of **wagons**



Annual installed capacity of **8,000 wagons** and current capacity of **1,700 wagons**



Production of more than **50%** of **Brazil's wagon fleet**

Rail transport proves its impact through results



1 wagon = 4 trucks

(less congestion and fewer accidents)

Increase in productivity of railway operators by





Reduction in fuel consumption by **58 million** liters per year



Reduction in pollutant emissions by **150 thousand** tons per year

Quality applied to every process

The commitment to quality across all processes, products, and services is constant.
GBMX's premise is to ensure maximum excellence, always being the best choice in the market.

Certifications

- ISO 9001/2015, 14001 e 45001 issued by ABS
- M-1003 and M-107/208 from AAR (American Association of Railways)

Processes

- KAIZEN, 5S, 6 Sigma and Lean Manufacturing

Productivity tool

- 4DX

Integrated Management System

Policy

GBMX, aiming at continuous improvement and customer satisfaction, environmental preservation, and the prevention of occupational incidents and diseases, is committed to the following principles:

- **Total Quality:** Focus on customer satisfaction and continuous improvement.
- **Safety First:** Prevention of occupational accidents and diseases.
- **Respect for the Environment:** Sustainable use of resources and pollution control.
- **Law and Ethics:** Strict compliance with all applicable legislation.
- **Engagement:** Open dialogue with employees and the community.

Advanced applied technology

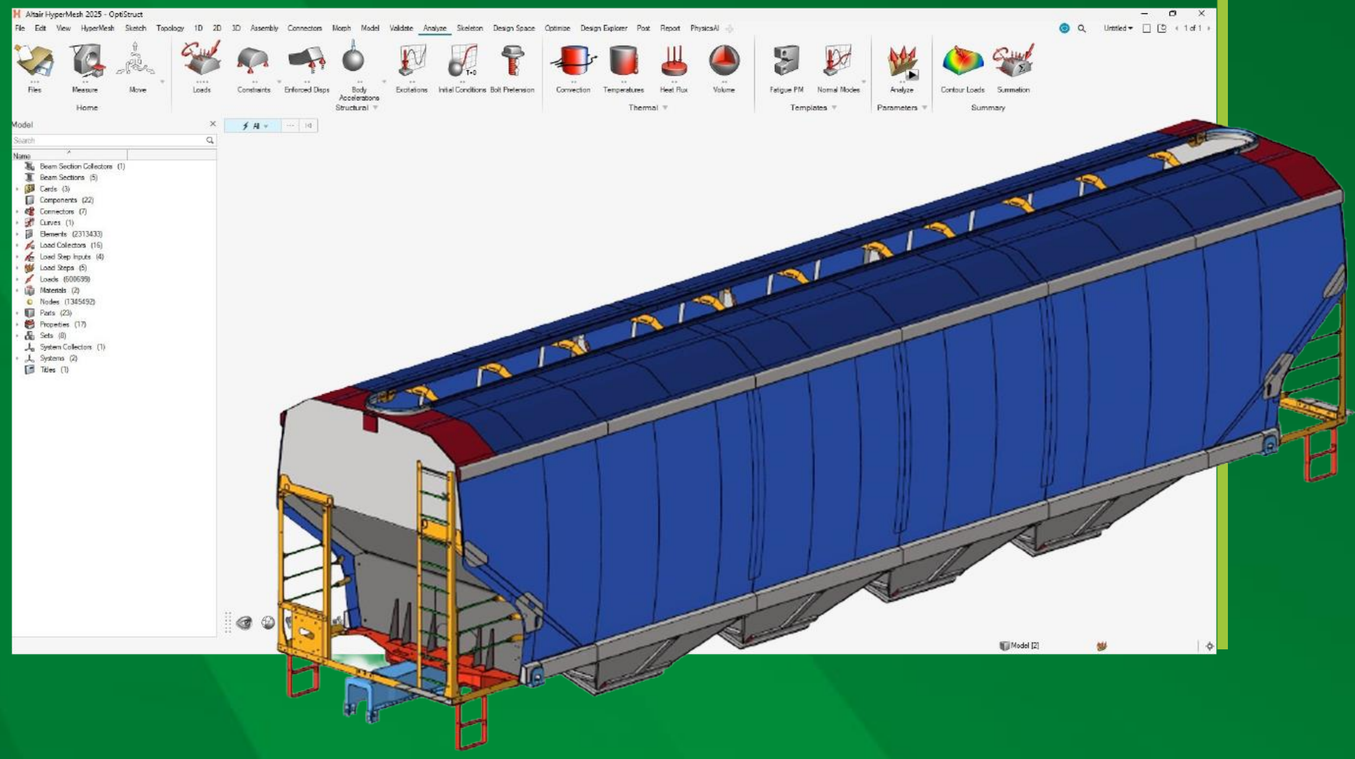
Investments in technological resources and technical training make GBMX's engineering team one of the most renowned in the world.

Technological agreements

- Companies from Amsted Rail and Greenbrier group
- Global wagons and bogies manufacturers
- Universities and Research Institutes:
  - IPT – Institute for Technological Research
  - UNICAMP – State University of Campinas
  - ITA – Technological institute of Aeronautics

Products development

- Use of advanced tools, such as **Vampire®**



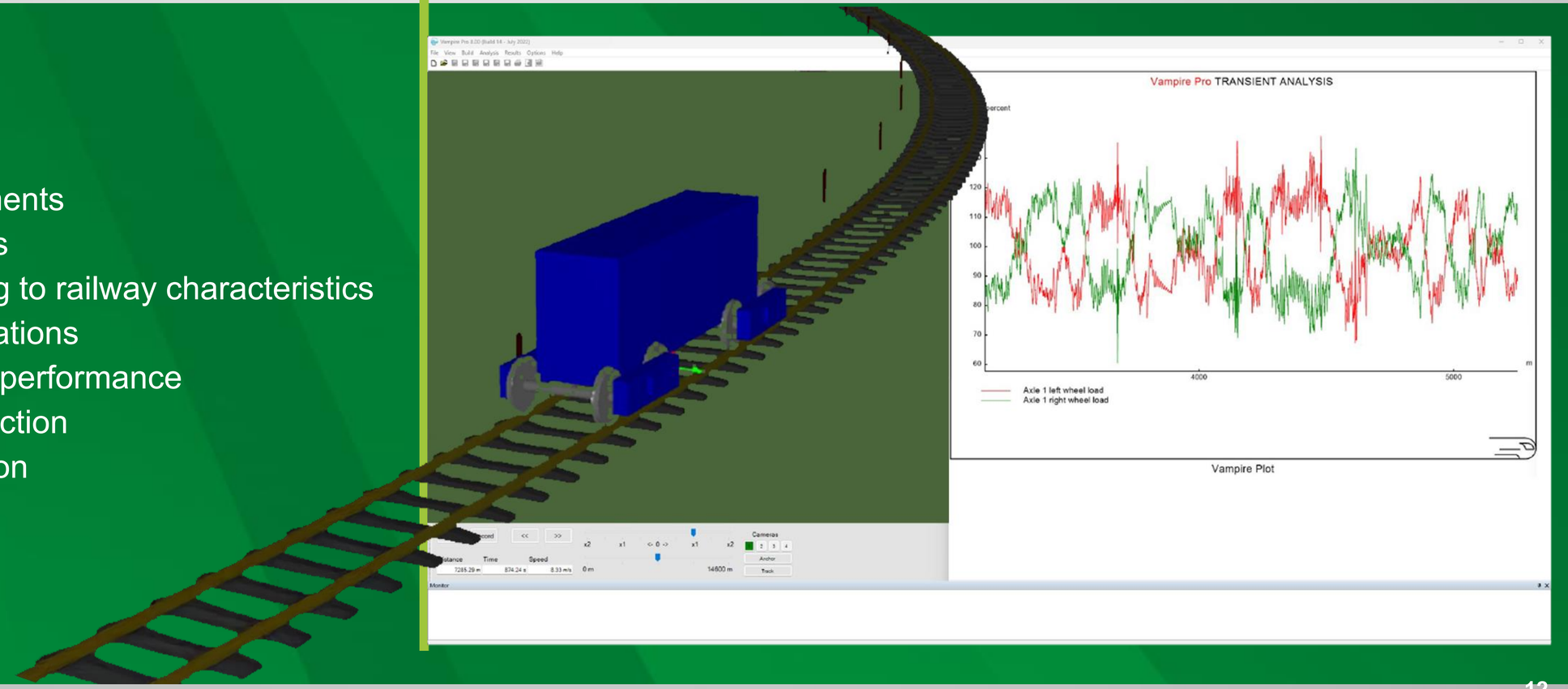
Advanced applied technology

Vampire®

The software enables the development of a dynamic model that **simulates** nearly all behavioral aspects of wagons.

Applications

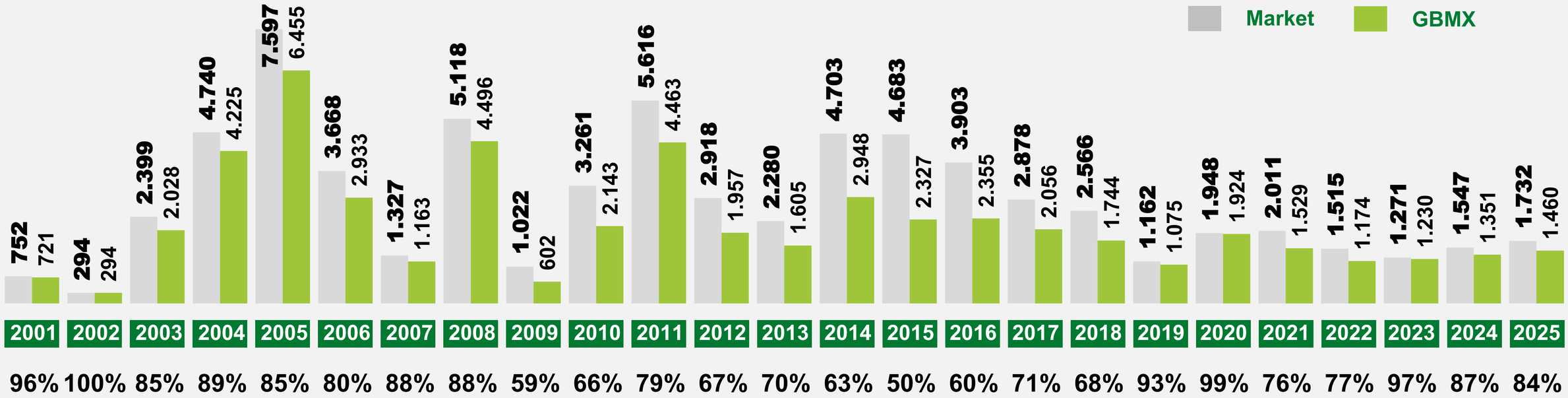
- Suspension improvements
- Stability improvements
- Adjustments according to railway characteristics
- Wagon balance simulations
- Improved wheel wear performance
- Wheel x railway interaction
- Derailment investigation



GBMX's share in the railway market

National **wagon** production **2001-2025**

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Source: ABIFER (Brazilian Association of the Railway Industry)

Products

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Wagons

Innovation for all types of cargo

Bold design that facilitates maintenance.

Reduced tare weight and higher-capacity wagons, increasing capacity per train.

Automated loading and unloading.

Global reach and presence



Gondola (8)
Iron ore, bauxite and coal

Platform (8)
Containers, whether stacked or aligned

Hopper (10)
Grain, bran, sugar, fertilizers and sulfur

Tank (4)
Fuel and vegetable oil

Closed (3)
Pulp

The Largest in the World!

Portfolio with more than 30 types of wagons

Bogies



Responsible for wagon dynamics and stability, GBMX bogies are manufactured through a partnership with Amsted Rail, a global market leader.

- Cast steel bogies for all existing gauges and capacities.
- Certified according to AAR (Association of American Railroads) standards.
- Microalloyed steel wheels, offering higher strength and performance.



Motion Control®

- Premium bogies provided with special adapters
- Reduced fuel consumption
- Simplified maintenance process
- Greater stability and improved dynamic performance



Swing Motion®

- 6.1/2” x 9” for 32.5 ton/axle
- 7” x 12” for 37.5 ton/axle



Ride Control

- Convenience and easy maintenance
- Constant damping technology
- Adaptation to existing operating conditions



Super Service Ride Control

- Constant damping technology
- Rubber seat on the pedals
- Improved wagon dynamics
- Reduced component wear

Services

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Services

- Spare parts
- Preventive monitoring
- Periodic inspections
- Component remanufacturing
- Component kits

- **Wagon overhaul, modernization, and transformation**
- Inventory optimization
- Complete maintenance cell



Services

Modernization



Before | After



Plate change
FHD to
HFD wagons



Before | After



FTT wagon to
FLT wagon
(Total Sider)



Before | After



Box
Replacement



Before | After



Platforms adjusting the
draft gear system for larger
curve in metric gauge

Services

Adaptation



Before | After



PCE wagon to
PNS “Trilheiro”



Before | After



Platform wagon to
“Bobineiro”

Gauge conversion



Before | After



Metric gauge bogie transformation to broad gauge

Railway market customers Domestic Market



Railway market customers

Export Market



Sustainability

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Environmental

Replacement of forklifts with electric models

Replacement of conventional lighting with LED lights

100% waste recycling

Zero Landfill Target achieved in November 2024

ZERO ATERRO!



ISO 14.001

Riparian forest restoration

Donation of recycled materials

Solvent recovery process

Sustainable wagons

Social

ISO 45.001

Health on the Rails Program

Best Companies to Work For – GPTW

Great People Mental Health – GPTW





FORMARE Formare Program

Investment of more than **R$ 30 million** in machinery and equipment safety

Internship Program

SENAI Young Apprentice Program

Governance

Publication of Financial Statements



Independent Whistleblowing Channel



Organizational Culture





Integrity & Compliance

Brazilian Business Integrity Pact (Ethos Institute)

Clean Company Program



Awards

National and international

7th place

39th place

2nd place


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