GENERAL
CATALOGUE



TRUST
IN MOTION

TRANSPORT SYSTEMS
TRAINS
BUSES
SIGNALLING
COMPONENTS
SERVICES

WHEN YOU TRAVEL IN **GOOD COMPANY,** THE JOURNEY IS ALWAYS BETTER



JAVIER MARTÍNEZ OJINAGA
CEO CAF GROUP

At CAF, we are global leaders in integrated transportation systems, shaping the future of sustainable mobility.

Continuous innovation is the cornerstone of our business, enabling us to develop advanced solutions that adapt to the evolving needs of our customers. This has established us as a benchmark company in global rail markets and a European leader in the zero-emission urban bus segment, positioning us at the forefront of sustainable mobility.

These achievements would not be possible without the dedication of our 17,000-strong workforce across 60 countries, who demonstrate a firm commitment to the pursuit of talent, excellence, and quality. They are the true driving force behind our success and determination to innovate and lead in sustainable mobility.

Together, we are building a greener, more efficient future, transforming the way the world moves and making a positive contribution to the well-being of the planet and its people.

We commit to innovative solutions to achieve cleaner and more sustainable transportation

Our range of products and services includes trains, buses, components, signalling systems, and turnkey mobility services and solutions.

We design customised solutions tailored to each city, client, and transportation authority. By combining experience and flexibility, we are able to respond to the challenges of each environment, from metropolitan areas to regional networks, with a dedication to excellence in every project.

Innovation is an essential foundation for our entire strategy. CAF is committed to digitalisation, sustainability, and energy efficiency, developing zero-emission solutions with advanced connectivity and high added value. All of this is aimed at building long-lasting, trusted relationships with our customers.

We have production facilities in Spain, France, the UK, and Poland in Europe, as well as the United States, Mexico, and Brazil. We also have numerous maintenance centres on five continents.

TRANSFORMING MOBILITY

At CAF, our commitment goes beyond train manufacturing and promoting sustainable transport.

We believe trains are more than just a means of transportation; they are a tool for promoting sustainability, efficiency, and social well-being. That is why our trains are equipped with the latest technological developments in energy efficiency, highly sustainable traction systems, and advanced cybersecurity measures.

We manufacture trains for both urban and long-distance lines, adapting to the specific needs of each environment and providing mobility solutions that are safe, comfortable, and accessible to everyone.



OARIS

High- and very high-speed trains reaching speeds of up to 350 km/h. Over long distances, Oaris is an excellent alternative to air and road travel.



CIVITY

Single- and double-decker modular trains for regional and commuter services. Their versatile design allows them to be adapted to the specific requirements of each operator.

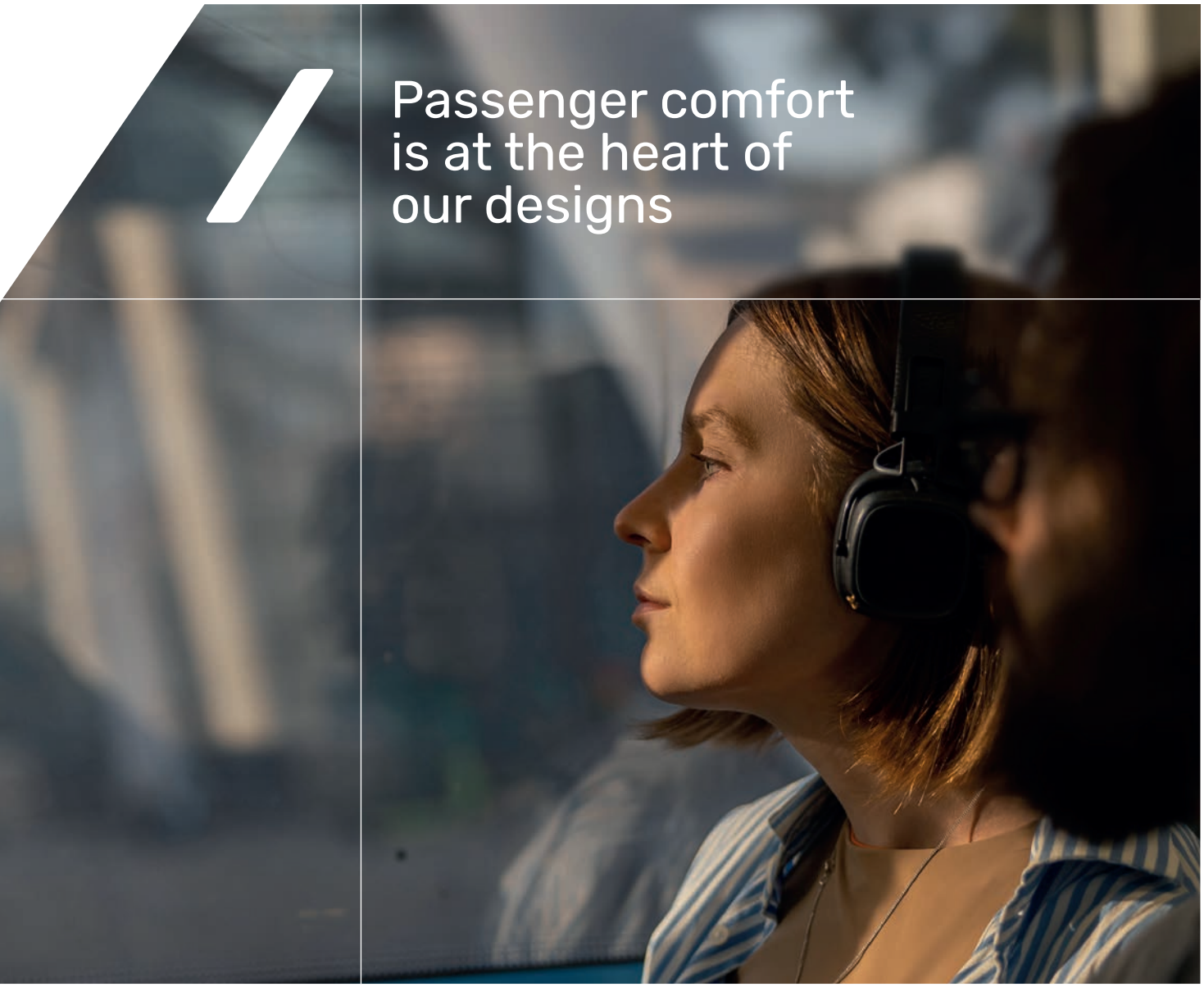


INNEO

Metro units designed according to the specific needs of each city. They incorporate the latest technological advances in safety, performance, and comfort.



Passenger comfort is at the heart of our designs



URBOS

Sustainable trams, light rail, and tram-trains. Urbos meets the highest standards of eco-design and accessibility, blending into the environment while maintaining a high level of performance.



BITRAC

Diesel and electric locomotives. Their flexibility and interoperability make them the optimal solution for passenger and freight transport.



ALIVE: TOWARDS THE AUTONOMOUS TRAIN

Digitalisation is transforming rail transport, paving the way for new, smarter, and more connected management models.

Through ALIVE, our platform for autonomous trains, we are beginning to introduce features such as remote train operation, which improve efficiency and enhance safety.



MOVING THE WORLD WHILE RESPECTING THE PLANET

In a world demanding urgent solutions to climate change, sustainability in transportation has become a priority. At CAF, we understand that moving towards cleaner, more efficient, and more accessible mobility requires acting responsibly, with a long-term vision and a strong commitment to our stakeholders.

Sustainability is key to the ethos and strategy of our organisation. We continue to strengthen our approach with our Sustainability Master Plan, which creates a roadmap to achieving our goal of contributing to the well-being of people and the planet through sustainable transportation solutions.

This plan develops the sustainability element of our Strategic Plan, based on the results of the Double Materiality Analysis, which integrates the most relevant impacts, risks, and opportunities across CAF's three strategic pillars: environmental, social, and governance.

We are committed to green technologies that drive an emission-free future, developing trains powered by batteries, hydrogen, and tri-mode solutions. This versatility allows us to adapt operations to each environment, improving efficiency and minimising environmental impact.

Our GREENTECH energy storage systems promote cleaner, quieter, and more sustainable transportation.



We are driving change towards responsible mobility

PROPULSION AND COMPONENTS

BOOSTING EFFICIENCY

We offer cutting-edge railway components that optimise performance, reliability, and, above all, safety.

With every part we produce, we guarantee the highest quality and traceability, meeting the most demanding industry standards while always considering the future of transportation.



01
ELECTRIC TRACTION SYSTEMS

Proprietary electric traction technology for DC, AC, and other power sources. Our equipment combines the use of innovative semiconductors with optimised control, improving overall efficiency and limiting emissions.

02
ENERGY STORAGE SYSTEMS

State-of-the-art solutions with high power and energy performance. Customised equipment based on modular solutions for various railway applications.

03
CONTROL AND COMMUNICATION SYSTEMS

TCMS (Train Control and Monitoring System) is capable of integrating SIL2 safety functions. Electronic equipment (switches, gateways, routers, etc.) for internal train communications and train-to-ground communications.

04
INTEGRAL ROLLING SOLUTIONS

Design, manufacture, and maintenance of wheels, axles, and complete bridge assemblies, including gearboxes, for all types of trains.

MUCH MORE THAN MEETS THE EYE

At CAF, we design and provide comprehensive, cutting-edge control, command, and signalling solutions which cover both infrastructure and onboard equipment.

We offer tailored solutions to each client's specific needs, working together to create more efficient, safe, reliable, and environmentally friendly rail transport.



01
AURIGA
ETCS LEVEL 1 AND 2 & ATO

Auriga is a comprehensive solution for ERTMS and Automatic Train Operation (ATO) for the infrastructure and on-board systems in vehicles.

02
OPTIO
YOUR CBTC OPTION

CAF's CBTC system offers maximum security and availability, and increases service quality thanks to punctuality, frequency, energy savings, and flexibility. Its adaptability and scalability mean it can be deployed on new or modernised lines.

03
QUASAR
ELECTRONIC INTERLOCKING

Quasar is the foundation of CAF's signalling solutions. Compatible with ERTMS systems, it is at the forefront of functional compliance and compliance with the most demanding regulations and standards.

04
NAOS
INTEGRATED CONTROL CENTRE

Designed for integrated, multifunctional control centres, Naos provides an integration platform encompassing key systems such as centralised traffic control (CTC), energy control systems, and SCADA systems for system management and maintenance support.

OPTIMAL RAIL **AVAILABILITY**

We optimise vehicle availability through services ranging from anticipating breakdowns to implementing strategies that extend their useful life.

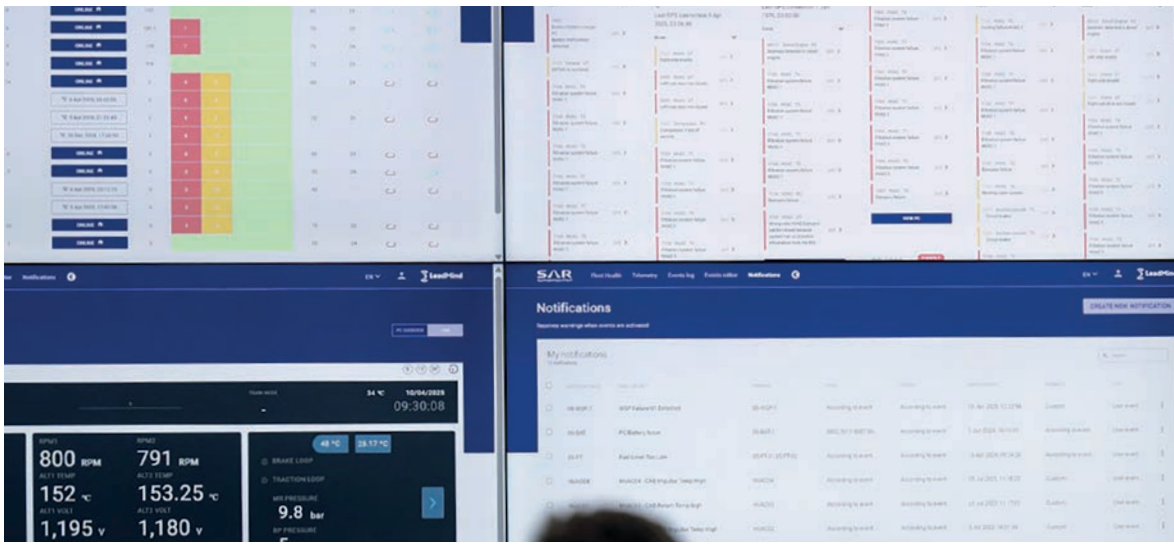
- ## Fleet Maintenance
  We apply advanced and optimised maintenance technologies to improve service quality, maximising reliability and availability, increasing safety, and minimising vehicle lifecycle costs.

- ## Component Maintenance
  To improve vehicle performance, we monitor components ensuring optimal operation and extending their useful life.

- ## Modernizations
  We modernize vehicles to improve service quality and comfort, extending their useful life by installing new and sustainable technologies.

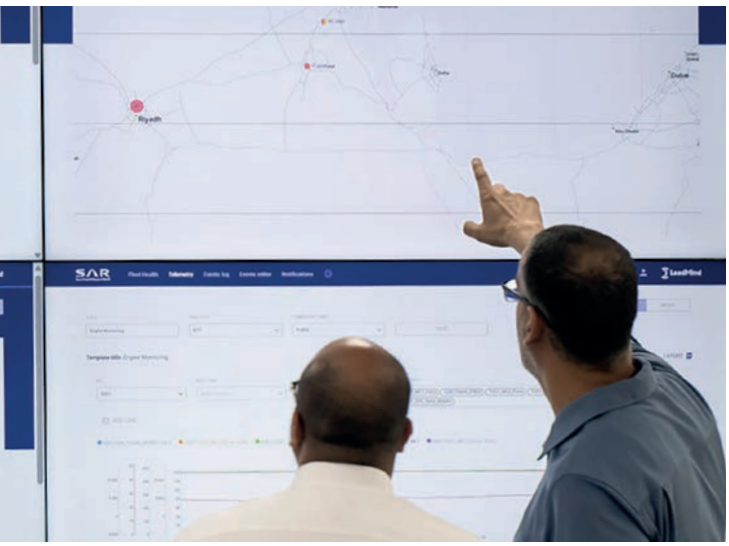
- ## Spare Parts
  CAF guarantees efficient vehicle maintenance through logistics solutions for the supply of spare parts and component kits.





Beyond a digital platform: Excellence in data-driven fleet management





LeadMind
EASING YOUR WAY TO FUTURE MOBILITY

Digital Services

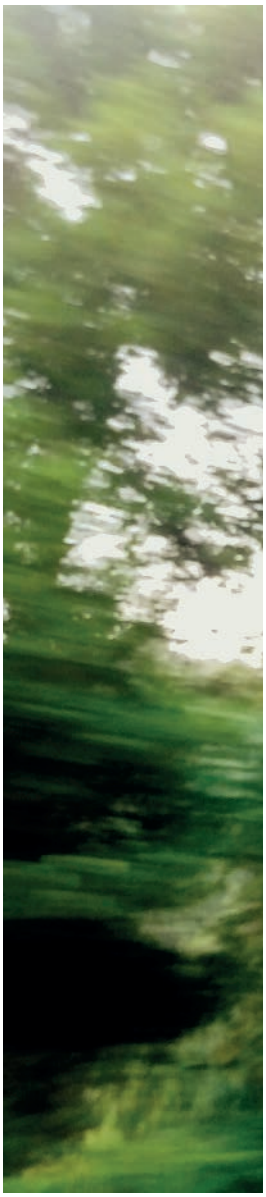
LeadMind is CAF's intelligent platform that drives more efficient, safe, and sustainable rail fleet management. Using advanced cloud and AI technologies, it provides real-time visibility, improves reliability, reduces costs, optimises maintenance, and extends lifespan.

With capabilities including predictive maintenance, advanced diagnostics, comfort monitoring, and energy consumption, LeadMind is much more than a digital platform: it is a strategic tool for achieving operational excellence.

LEADERS IN **ZERO EMISSIONS**

We offer a wide variety of conventional and electric buses through our Solaris brand.

Solaris leads the market with its zero-emission vehicles, offering a diversity of solutions, including electric buses, hydrogen buses, trolleybuses, and hybrid buses, which support sustainable and multimodal mobility and adapt to customers' urban transport needs.







A BUS FOR EVERY NEED

01 Zero emissions

02 Low emissions

03 MetroStyle

04 Conventional traction systems

05 Special buses



CONCESSIONS & TURNKEY

COMPREHENSIVE **MOBILITY SOLUTIONS**

We design, build, and integrate high-capacity, high-performance transportation systems on a turnkey basis.

Embracing the complexity of comprehensive projects, we develop complete solutions that drive smart and sustainable mobility. Our strength lies in the integration of different systems, ensuring interoperability, performance, and maintainability.

Our experience in financing and structuring railway projects includes concessions, leasing, and project finance schemes.

We operate with agility throughout every project lifecycle, optimising resources and offering tailored solutions.



We integrate all necessary systems to offer complete solutions

LEADING PROJECTS AROUND THE WORLD





EMPLOYEES	COUNTRIES	CARS DELIVERED	CARS MODERNIZED	ELECTRIC AND HYDROGEN BUSES IN OPERATION
+17,000	**+60**	**+22,000**	**+2,600**	**+3,500**

TRUST
IN MOTION



Headquarters
J.M. Iturrioz 26
20200 Beasain, Spain.

Phone
+34 943 88 01 00

Web
cafmobility.com