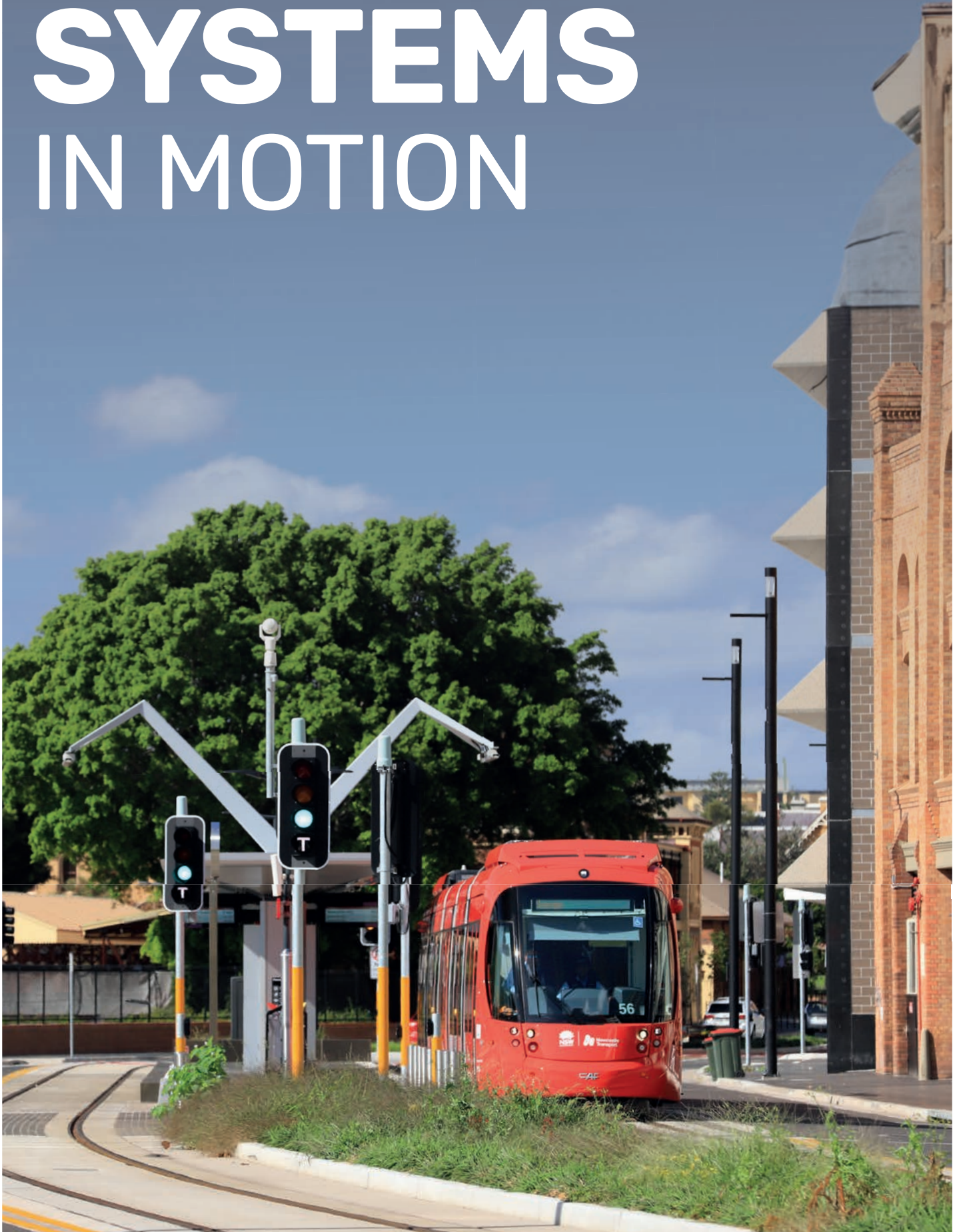




# TURNKEY SOLUTIONS

ENGINEERING integrated  
mobility systems

# INTEGRATED SYSTEMS IN MOTION





# COMPREHENSIVE MOBILITY SOLUTIONS

In CAF we are one of the international leaders in the design and supply of comprehensive transport systems.

A benchmark in sustainable mobility solutions, the company offers a wide range of products and services that includes the supply of trains, buses, components, signalling systems, services, concessions and comprehensive systems.

We are committed to the development of innovative technologies that will enhance the efficiency and transport sustainability.



Using our own cutting-edge technologies, CAF focuses on providing tailor-made solutions to meet the specific needs of transport authorities, minimising operating costs, improving the quality of life for citizens and reducing environmental impact, thus contributing to global sustainability.

We provide project and engineering management at all stages, including system design, civil works, signalling, electrification and other electromechanical systems, systems integration, overall project coordination, systems operation and maintenance.

With extensive experience worldwide and in-depth market knowledge, CAF, together with BWB in the United Kingdom and CMFS in Mexico, is a leader in the management and integration of challenging projects in line with client's objectives.

# SYSTEMS INTEGRATION

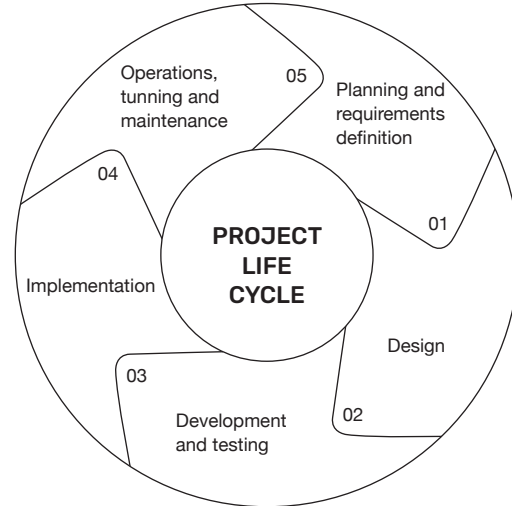
We lead comprehensive sustainable mobility projects.

CAF has a solid experience in leading comprehensive mobility systems, providing a complete vision of the entire life cycle by understanding the complexity of each process.

In CAF, we plan, design, build, integrate, operate and maintain mobility infrastructures to guarantee a competitive solution in every mobility scheme.

We have multidisciplinary teams that meet all the needs and requirements for integrated project management.

We specialise in optimising resources, guaranteeing integration, minimising risks, and achieving objectives within deadlines, budget, and quality standards.





By understanding the client's needs from the outset and following the project from its inception, CAF develops an integrated design focused on project implementation.

An efficient project management being key, CAF is able to coordinate and integrate all the key players by optimising resources and meeting the requirements with flexibility and accuracy.

The company has proven experience in managing the entire process for a project, including sourcing, contracting and purchasing, as well as managing the execution, leading the testing of all the systems, the commissioning to the client and providing maintenance services.





# RAIL SOLUTIONS

## EPC

We specialise in streamlining EPC projects by taking a total system approach.

Given the solid technological background, CAF can design, supply and integrate under the EPC modality and, in a cross-cutting manner, the different subsystems present in a project.





CAF focuses on optimising each of the three EPC pillars, Engineering-Procurement-Construction, by considering the entire system approach.

In CAF, we cover both the Design & Build and Operation & Maintenance stages, resulting in a competitive and efficient solution during the whole life cycle of the assets, optimising interfaces and granting an integrated and coherent solution.

Our extensive experience of EPC contracts enables us to provide and integrate the various subsystems of a project with a multidisciplinary approach, according to the relevant modality.

ELECTRIFICATION

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POWER SUPPLY

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POWER SCADA

---

TRAFFIC CONTROL AND  
MANAGEMENT SYSTEMS

---

TICKETING

---

PLATFORM DOORS

---

MAINTENANCE FACILITIES

---

TELECOMMUNICATIONS

---

TRACK

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# DIGITAL TECHNOLOGY

We provide the most cutting-edge custom solution in mobility.

## FULLY DIGITALISED

All CAF processes are digitalised through the utilisation of Building Information Modelling (BIM), Digital Twins, Integrated Logistic Support (ILS) requirements and interface management applications. The integration process is optimised, and potential risks are avoided. Unexpected occurrences can be managed, and maintenance and operational procedures can be improved thanks to the comprehensive life cycle mapping.

## IN-HOUSE & CUTTING-EDGE TECHNOLOGY

Using our own technology covering the whole rail infrastructure management spectrum from stakeholder management to final Total Cost of Ownership (Railneos, Deetu, simulators and software) to build an adapted and optimised solution.

## IN-HOUSE SPECIALISATION IN RAIL CYBERSECURITY

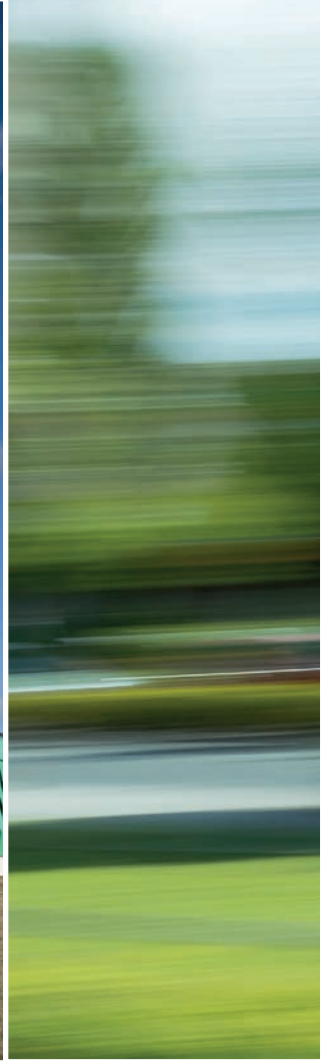
CAF specialises beyond the highest cybersecurity standards from the design phase to operation and maintenance in order to seamlessly respond to potential risks or attacks throughout the entire life cycle.

## DIGITAL INNOVATION

Developing innovations based on digital tools to improve the efficiency of our turnkey projects and operation and maintenance in terms of people, planet and profit.







# SUSTAINABILITY IN MOTION

The implementation of green energy in our solutions guarantees energy sustainability, all while reducing CO<sup>2</sup> emissions.

## INFRASTRUCTURE & RESOURCE OPTIMISATION

Achieved through the integral development of the project and the use of proprietary software: Digital Twins, Railneos, Locava and subsystem integration simulators.

## SUSTAINABLE MATERIAL USAGE

CAF applies Building Information Modelling methodology to ensure accurate material purchasing and usage of more sustainable materials.

## ENVIRONMENT IMPACT OPTIMISATION

Working to reduce the noise and vibration of the infrastructures as much as possible while looking ahead to reduce the acoustic and visual impact to find an urban friendly solution.

## GREEN MAINTENANCE

Developing green depots that comply with the Sustainable Development Goals (SDG) in terms of water conservation, net zero, climate action, resilience, waste avoidance and reuse, to guarantee green maintenance.

# ADVANCED SAFETY

We comply with the most advanced safety standards for our passengers, citizens and workers.

CAF has developed a Safety Management System (SMS), assessed by external auditors, which provides a systematic approach, defining the safety related roles and responsibilities, as well as the procedures and requirements applicable to safety activities.

The SMS is applied throughout CAF's comprehensive mobility solutions to guarantee that customers' specified safety targets plus the applicable standards are fulfilled, as well as all the hazards are reduced to tolerable levels.





# OUTSTANDING PROJECTS WORLDWIDE

## AFRICA

EGYPT - Cairo Metro L1

MAURITIUS - Mauritius Metro Express

## AMERICA

CANADA - Calgary Green Line LRV

CHILE - Santiago de Chile Metro

MEXICO - Ferrocarril Suburbano - Mexico City - Toluca InterCity - Santa Lucia Suburban Extension

## ASIA / PACIFIC

AUSTRALIA - Parramatta Light Rail - New South Wales Regional Train

TAIWAN - Kaohsiung Light Rail train

## EUROPE

BELGIUM - Liège Tramway

GERMANY - VRR BEMU Depot

LUXEMBOURG - Luxembourg Tramway

NETHERLANDS - The Hague Tramway System

SPAIN - Centre Seville Metro - Zaragoza Tramway - Corella Test

Track, Navarra - Basque Country multiple design and consultancy services for Eusko Trenbide Sarea, Bilbao Metro, ADIF and Euskotren

TÜRKIYE - Istanbul Metro

UK - Design and consultancy services in Bletchley, Radlett, East Midlands, Doncaster iPort, TfW Wales and Borders, Norwich, Kings Dyke, Leeds and Port Salford

## MIDDLE EAST

ISRAEL - Tel Aviv Purple Line Light Rail - Jerusalem JNET Green & Red Lines





**CAF TURNKEY & ENGINEERING  
HEADQUARTERS**

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SCAN TO VISIT  
OUR CHANNEL

