



DELIVERING TRUST

RAILWAY



THE LARGEST PORTUGUESE TECHNOLOGICAL INFRASTRUCTURE

ISQ is a private and independent non-profit organisation who creates **value** through **integrated and innovative solutions**.

It supports their clients and partners in the **reduction of risk, improvement of operational performance and increase of competitiveness** through its support to **innovation**.

ISQ is present in 12 countries and with more than 50 years of history, develops **integrated engineering solutions** and performs technical inspections, laboratory and on-site tests and customised training.

Research and Development is ISQ's DNA, participating for more than **30 years** in Industrially oriented R&D programmes and supporting industry towards its modernisation and competitiveness.

ISQ supports industry in **quality and safety assurance** of their products and processes as well as in the commitment towards the **sustainable** global worldwide objectives.

16

ACCREDITED LABORATORIES

+500

R&D PROJECTS

12

WORLD PRESENCE

1800

STAFF



RAILWAY REFERENCES



SUPPORT TO INNOVATION OF RAILWAY INDUSTRY



ISQ brings together the required technical expertise to provide a wide range of integrated and innovative services and solutions which provides added value to the different railway domains and its assets namely to railway infrastructures and rolling stock.

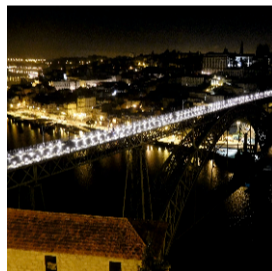
MAIN ACTIVITIES

	ROLLING STOCK	INFRASTRUCTURE OPERATION	CONSTRUCTION & MAINTENANCE
Technical Inspections & Non-destructive Testing	●	●	●
Research & Development	●	●	●
Training, Upskilling and Reskilling	●	●	●
Instrumentation & Monitoring	●		
Rolling Stock and EMC Testing	●		
Condition Assessment and Failure Analysis	●	●	●
Revamping Assessment		●	●
Energy and Efficiency Solutions	●	●	
Homologation Support	●		
Large Scale Customising Testing and Laboratory Support	●	●	●
Digital Twin and Structural Design Revision	●		
Asset Integrity and Risk Management	●	●	
Quality Assurance/Quality Control		●	●
Digital Technologies for Maintenance & Training			●
Production Technologies (including Additive Manufacturing)	●	●	●
Welding and Welders Qualification	●	●	●
Environmental Studies (including Geotechnical)	●	●	

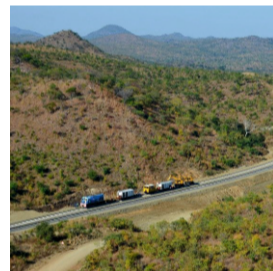
REFERENCE PROJECTS



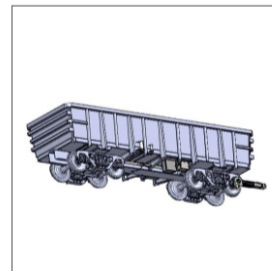
Bridge 25 APRIL
(IP - Lisbon)



Tram Rail
(Metro do Porto - Porto)



Nacala Railway Corridor Project
(SACYR-Mozambique)



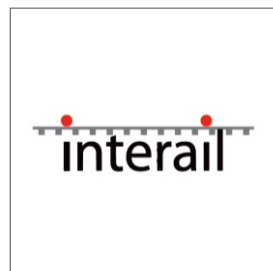
Smart Mining Wagons
(VALE-Brazil)



Smart Wagons
Development of production capacity in Portugal of Smart wagons for freight (PRR Project)



FERROVIA 4.0
A Smart, Sustainable and New generation of rail system (P2020 Project)



INTERAIL
Development of A Novel Integrated System for the Inspection and Evaluation of Rail Tracks (FP7Project)



ADIF
Laboratory Support to Railway Network



ISQ is founding member of RAIL CoLAB (Collaborative Portuguese Laboratory for the modernization of the Railway System)



ISQ is recognised as Centre for Technology and Innovation by the Portuguese National Innovation Agency (ANI)



ISQ is member of PT ALLIANCE - Associated Member of EU-RAIL lead by IP



ISQ is member of PFP - The Portuguese Railway Cluster