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IMPROVING YOUR BUSINESS THROUGH EXCELLENCE IN RAILWAY TECHNOLOGIES
Adif, the Spanish railway infrastructure manager, is a public entity attached to the Ministry of Public Works and Transport.

We manage and maintain a 15,000 km rail network and 2,000 stations and freight facilities. Over the last 25 years all of our facilities have been significantly renovated and modernized through major investments.

We had designed, built and maintained one of the largest high speed networks in the world, using state-of-the-art technologies and meeting the most demanding safety and reliability international standards.

We rely on a team of 13,000 professionals.

We are leaders in every field of railway systems development.

We cooperate closely with the world-renowned Spanish rail industry and technological companies.

According to the World Economic Forum, Spain’s railway infrastructures ranked among the world’s top four.

Commuter lines and medium and long distance circulations are also capital to ensure mobility. Adif has the largest expertise constructing new conventional lines or upgrading the existing ones. Including for this purpose items such as the electrification; more reliable and safety-guaranteeing signalling systems and new traffic operations systems.
Adif has set up one of the most modern and best performing railway systems in the world: safer, faster, more reliable and more punctual.

Adif accomplishment was made possible through our commitment and large investments in state-of-the-art technologies that we have developed alongside renowned Spanish firms under the supervision of our expert engineers and technicians, and later employed for the design, construction and management of our network.

This quest for top international standards has allowed Adif to become one of the top 4 railway infrastructure managers in the world in terms of the quality of our network, according to the World Economic Forum.
ERTMS

The European Railway Traffic Management System is the most performing train control system in the world. It brings significant advantages in terms of maintenance costs savings, safety, reliability, punctuality and traffic capacity.

Spanish firms and Adif are world leaders in ERTMS development and deployment for High Speed as for Conventional lines. Around 2,000 km of railway tracks are equipped with ERTMS, both Level 1 and 2.

The line from Madrid to Barcelona and the French Border is the longest in the world equipped with ERTMS (804 km).

Adif is world leader in ERTMS Level 2 deployment: 607 km.

Adif has successfully tested the compatibility of up to 5 track equipments with 4 on-board equipments.

The special testing and research facility for ERTMS in Málaga Railway Technologies Center is a key tool for these achievements.
DAVINCI SYSTEM

Adif and technology firm Indra developed the DaVinci platform for traffic management, which integrates all telecommands for HS lines. The DaVinci platform was deployed in Spain to control Adif HS network and in other countries such as the UK (London Subway), México, Colombia or Morocco. It is suitable as well for rail networks as for subway networks.

CHANGEOVER FACILITIES FOR PASSENGER TRAFFIC

Spain is a leader in this technology, that we developed to solve the track gauge compatibility issue in Spain, where different gauges coexist (particularly Iberian and UIC). The technical solution is an automatic changeover facility suitable for different rolling stock manufacturers (CAF and TALGO), that would solve similar needs in other countries.

CUTTING EDGE TECHNOLOGIES

HS C-350 overhead catenary system for traffic over 350 km/h developed by Adif and Semi, Cobra and Elecnor, compliant with TSI requirements.

High performance track foundation design and maintenance system for a more effective supervision.

Falling objects detection system based on fiber optic technology. Developed by Adif, Cobra and Logytel, it is highly reliable and has lower maintenance costs.

Crosswind detection system to ensure safer traffic. Adif worked alongside Sener, Cobra, Logytel, Thales, CAF Señalización e Indra.

Energy efficient converting equipments that return braking energy to the power supply chain.
OUR STRENGTHS

KNOWLEDGE TRANSFER
- Operational Assistance
- Constructive Technical assistance
- Training
- Legal framework
- Institutional development

TECHNOLOGY SUPPLIERS
- Spanish technology and construction companies are leading brands, who were awarded major contracts thanks to their competitive offers and proven railways technical solutions, which exceed current design and construction standards requirements.

REFERENCE PROJECTS IN SPAIN
- We have developed a safe and reliable first class rail network, by building and implementing technically effective and cost-efficient solutions.

HIGHLY-EXPERIENCED STAFF
- Adif experts have gained national and international experience through various business partnerships in some key markets: Saudi Arabia (Haramain Speed Line), United Kingdom, Turkey, Mexico, Colombia...

INTERIM MANAGEMENT

NETWORKS DEVELOPMENT