



Technology, innovation and strategy
for the entire rail supply chain



MAFEX INFORMS

Mafex reaffirms the Spanish Rail Industry's commitment to excellence, sustainability and progress.



MAFEX OPEN DAYS

This initiative aims to raise awareness about the work of Mafex, the services it offers and the support it provides to companies in the sector.



INNOVATION

Mafex members present their latest developments in innovation.

BE MOTION.

The energy transition is an unstoppable process.

To face this challenge, **The Real Dream Team** is born, a movement based on Heroes and Heroines that just like you do, share the same dream: a world where the energy production is clean.

Will you join?



THE
REAL
DREAM
team

BE PART OF
THE ENERGY
TRANSITION.
BE A
HERO.

Ingeteam 50 YEARS
ELECTRIFYING
A SUSTAINABLE
FUTURE

MAFEX

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NEW EDITION OF THE TRANSMEA FAIR-CONGRESS IN EGYPT

An opportunity for the railway industry, which already has an extensive presence in the country.

NEW MAFEX MEMBER

The Association continues to grow, and it reaches a total of 119 members.

MAFEX REAFFIRMS THE SPANISH RAILWAY INDUSTRY'S COMMITMENT TO EXCELLENCE, SUSTAINABILITY AND PROGRESS ON THE 175TH ANNIVERSARY OF THE FIRST RAILWAY LINE IN THE IBERIAN PENINSULA

The Spanish railway industry contributes to 8% of industrial GDP, contributing to the national economy, with a modern and export-oriented industry of railway technology.

MAFEX AND CABEI ORGANISED A MEETING DAY OF THE SPANISH RAILWAY INDUSTRY WITH REPRESENTATIVES FROM THE REPUBLIC OF EL SALVADOR AND THE DOMINICAN REPUBLIC

The objective was to gain an in-depth understanding of how the sector works, as well as the best lessons that can be replicated in the Central American region.

NEW MEETING DAY WITHIN THE FRAMEWORK OF THE "INTERNATIONAL MARKETS FORUM" DEDICATED TO THE POTENTIAL OF THE POLISH RAILWAY MARKET

Poland is one of the key markets for the Spanish railway sector and it offers great business opportunities for the industry.

FREIGHT TO THE TRAIN ARRIVES IN MADRID

The aim of this initiative is to highlight the value of the transport of goods by rail.

THE STARS PROJECT ENDS

The main objective of the project has been to address the aspects related to the adoption of Advanced Technologies in SMEs.

VISIT BY THE INNOVATION COMMITTEE TO THE MADRID LOGISTICS CENTRE WITH METRO DE MADRID

It is one of the leading logistics centres in the Comunidad de Madrid.

NEXT "MAFEX OPEN DAYS" ON 24TH NOVEMBER IN LEIOA (BIZKAIA) AND 14TH DECEMBER IN MADRID

This initiative aims to raise awareness about the work of Mafex, the services it offers and the support it provides to companies in the sector.

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RAIL LIVE 2023 KICKS OFF



The leading experts in the international railway sector will meet at IFEMA in Madrid from 29th November to 1st December. This professional platform will be used to analyse both the present and future of the railway as well as its challenges and opportunities. In addition, an exhibition area of more than 300 companies will present the latest innovations and cutting-edge solutions from the businesses.

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TRUST IN MOTION

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

We are your partner. A company that offers one of the widest range of rail and bus transport solutions on the market. With expert knowledge in implementing modern urban and interurban mobility systems. Contributing to the planet's sustainability and individuals quality of life.

Madrid hosts Rail Live! 2023 with sustainability and digitalisation of the railway sector as key objectives



As every odd-numbered year, Madrid hosts Rail Live!. For three days, the main players in the sector from more than 45 countries will analyse the present and future of the medium that is set to be the backbone of intermodality, thanks to its many environmental, safety and reliability advantages. Everything is ready for the event and, from Mafex, as promoters and co-organisers, we want to welcome the more than 7,000 registered attendees, the sponsors and collaborating entities, the participating companies and the speakers who travel to Spain to share a joint vision on the challenges of the coming years and the great opportunities that arise in the face of the decisive boost to be given to railway infrastructures, both of passengers and freight.

I would also like to point out the recent 175th anniversary of the launch of the first railway

line in Iberian Peninsula, which has placed our country, during all this time, at the forefront of the international railway sector. Today, the railway sector continues to move forward with determination. Our technological leadership, among others, has facilitated the spectacular transformation of our infrastructures, which has a world-renowned network, at the forefront of innovation and global competitiveness. And without a doubt, the railway industry was an active part of its achievement.

We will therefore continue our journey in 2024 defending an industry that is a world leader. It has a large international presence in more than 90 countries and it generates more than 30,000 direct jobs in Spain with a turnover of more than 6,5 billion euros (more than 8% of industrial GDP). Undoubtedly, a sector that is key and a driving force, both for our economy and for our country's image. For this reason, it is vital that public administrations place this medium as the axis of their sustainable transport policies and strategies in the medium and long term and that they acquire a firm commitment to R+D+i programmes, with financing plans to promote its development and competitiveness throughout the supply chain and support for its exit to the foreign market.

See you at Rail Live! 2023

MANAGEMENT: MAFEX.

MAFEX COMMUNICATION COMMITTEE: Alstom Transporte, ArcelorMittal, Caf, Global Quality Engineering (Grupo Trigo), Icon Multimedia, Idom, Indra Sistemas, Ingeteam, La Farga Yourcoopersolutions, Patentes Talgo, Sice, Siemens Rail Automation, Stadler Rail Valencia, Teltronic, Thales España, TPF Getinsa Euroestudios y Zitron. **ADMINISTRATION:** mafex@mafex.es **ADVERTISING:** mafex@mafex.es **SUBSCRIPTIONS:** mafex@mafex.es. Mafex magazine is not responsible for the opinions, images, texts and works of authors and readers that will be legally responsible for their content. It is understood that the signing authors have given their consent to be included, for which he or she will be responsible. Also, the magazine is not responsible for typographical errors contained in the original documents submitted by the authors.



New edition of the TransMEA fair-congress in Egypt

This edition was attended by companies such as Acygs, Aquafrisch, Indra, Imathia, La Farga, Salicru, Sener, Talleres Alegria and Typsa, as well as Colway and rolling stock manufacturers Caf and Patentes Talgo.

TransMEA, organised in cooperation with the Egyptian Ministry of Transport, aimed at bringing together the main regional and international players to showcase on the one hand, the main trending solutions, products and new technologies to achieve more efficient and even faster transport and logistics services.

On the other hand, the fair offered a congress programme where to address topics such as digital tech-

MAFEX COORDINATED OUR GROUP'S ATTENDANCE TO THE TRANSMEA FAIR WHICH TOOK PLACE IN NEW CAIRO (EGYPT) BETWEEN 5TH AND 8TH NOVEMBER 2023. MAFEX HAD THE SUPPORT FROM ICEX SPAIN TRADE AND INVESTMENT AND FROM SPANISH COMPANIES.

nology - a vital element to promote innovation - and which includes data analysis, artificial intelligence, machine learning, cybersecurity, automation, digital transformation or disruptive technologies, among others.

It should be recalled that the country wants to carry out various megaprojects in the coming years such as the commissioning of the country's first high-speed line; the signalling of the lines from Alexandria to Cairo, and from Beni Suef to

Nag Hammadi; the modernisation of line 2 of the Cairo metro, the future Lines 5 and 6; the Abu-Qir metro project; the extension of the Alexandria tramway, as well as the various opportunities that will arise for the acquisition and rehabilitation of rolling stock.

This is an opportunity for the railway industry, which already has a large presence in the country due to the numerous systems designed by Spanish companies, as well as the rolling stock and infrastructures. 🚂

New Mafex memb

The number of businesses joining Mafex continues to rise. This is the new member company:

THE ASSOCIATION CONTINUES TO GROW WITH THE RECENT INCORPORATION OF A NEW MEMBER. THIS WAY, WITH THE NEW ADDITION IT REACHES A TOTAL OF 119 BUSINESSES REPRESENTING ALL THE SUBSECTORS OF A LEADING INDUSTRY THAT IS MAKING ITS WAY AROUND THE WORLD.



EWALS CARGO CARE

Ewals Cargo Care is an international multimodal freight transport company, which operates in 14 countries in the EU and the United Kingdom, using its own fleet of 3,800 mega semi-trailers and multiple resources associated collabo-

ratively in subcontracting. Our market is mainly industrial, with strong specialization in the automotive sector.

Led in corporate strategy and management by its third generation,

Ewals CC has in its social and business policy a strong commitment to compliance with ESG objectives, in a policy of responsible action that aims to lead the market in an innovative logistics business model and sustainable.



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Consultancy services in Operation and Maintenance. Experience on 4 continents

More info



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SIMOVE FOR RAILWAYS

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Chambered system designed to improve the maintenance of the railway track

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Technical data



Mafex reaffirms the industry's commitment to excellence, sustainability, and progress on the 175th anniversary of the first railway line in the Iberian Peninsula

During all this time, the railway has become a pillar of our mobility, economy, and society. It has connected cities and regions in a more sustainable, efficient, and environmentally friendly way, favouring territorial cohesion and generating opportunities.

Today, the railway sector continues to move forward with determination. The technological leadership of the Spanish railway industry, among others, has facilitated the spectacular transformation of Spanish infrastructures, which has a world-renowned network, at the forefront of innovation and global competitiveness.

It should also be noted that the European railway industry in general, and the Spanish one in particular, is one of the industries that invests the most in innovation and technologies that contribute to greater energy efficiency, in multiple aspects such as, for example, traffic management systems, signalling, energy recovery and regeneration technologies, energy storage technologies, reversible substations, useful life of the materials used, measurement systems, maintenance, etc. And it is particularly energy-efficient in the manufacture of rolling stock and equipment. The industry is making major investments and efforts to reduce CO2 emissions and to achieve a "Net Zero" balance by 2050.

The challenges ahead are just as important. The effort and focus on sustainability, digitalisation and

ON THE OCCASION OF THE 175TH ANNIVERSARY OF THE LAUNCH OF THE FIRST RAILWAY LINE IN IBERIAN PENINSULA, MAFEX CELEBRATES THE PROGRESS MADE IN ALL THIS TIME, WHICH HAS PLACED OUR COUNTRY AT THE FOREFRONT OF THE INTERNATIONAL RAILWAY SECTOR.

international expansion must be maintained to continue thriving as a sector, as an industry and as

a country, working together with the capacity for innovation that characterises us.

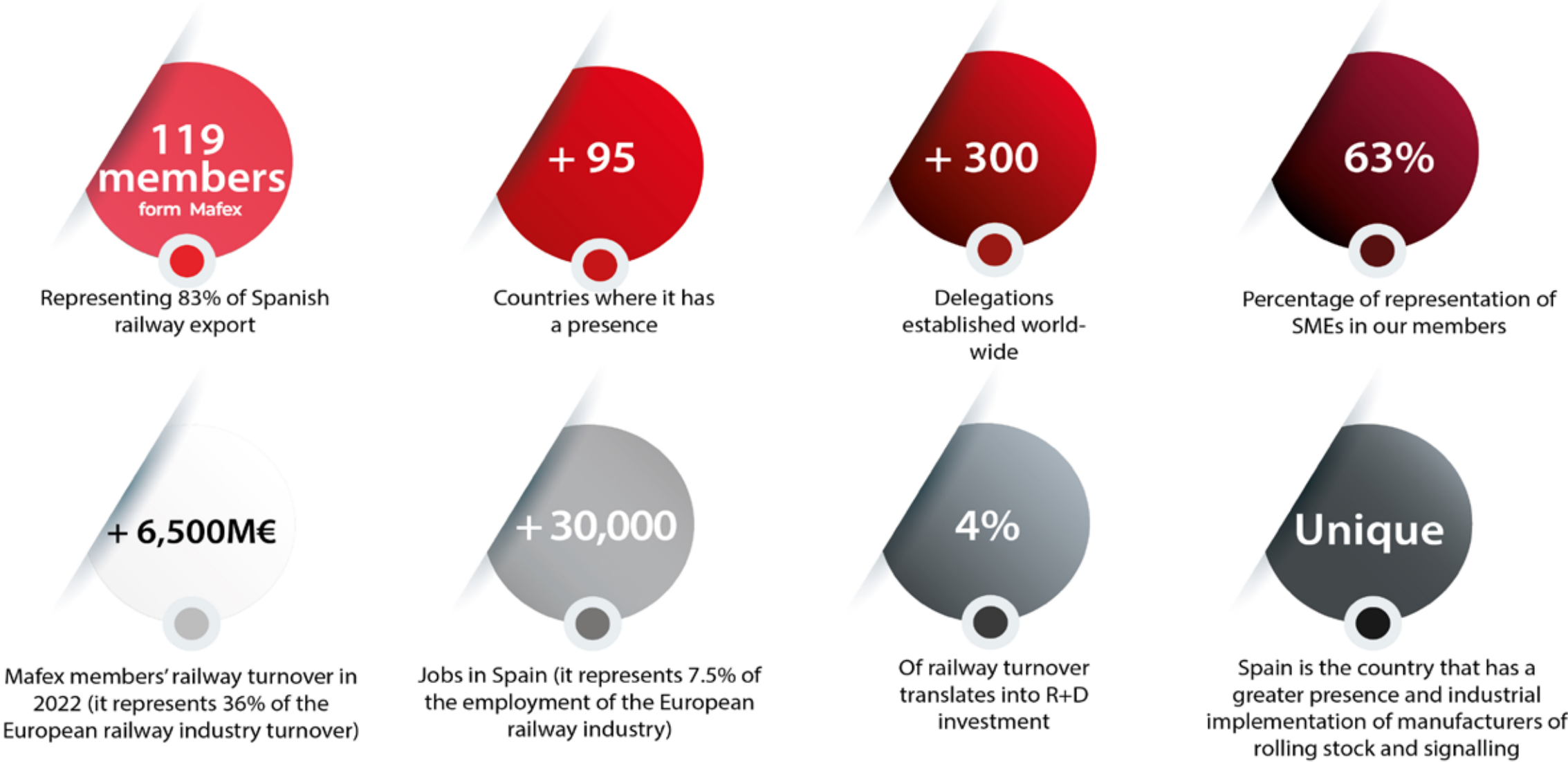
The railway is synonymous with sustainability. For this reason, it is key to defend it and to further develop it, enabling it to place itself as the backbone of both national and global transport policies and strategies in the long term.

It should also be noted that the railway sector demonstrates a significant commitment to the United Nations Sustainable Development Goals (SDGs) by offering a sustainable and efficient alternative in transport. It plays a key role in fostering quality employment and boosting economic growth through investment and innovation. As an example in

Spain, its contribution to 8% of GDP, contributing to the national economy, with a modern industry exporter of railway technology (SDG8), through the construction and modernisation of efficient, sustainable and resilient transport infrastructures of renowned international prestige (SDG9), encouraging the development of sustainable cities, since it provides an efficient and ecological way to mobilise the public, reducing traffic congestion and greenhouse gas emissions (SDG11), thereby contributing to climate change mitigation (SDG13), and collaborating at multisectoral level and other interested parties to promote sustainable practices (SDG17).

The Spanish railway industry is ready to offer innovative and intelligent solutions adapted to the new needs of operators and passengers, while also revitalising the economy and reinforcing the sector's commitment to sustainability and the generation of shared value.

THE STRENGTH OF A PIONEERING INDUSTRY THAT REPRESENTS 8% OF SPANISH INDUSTRIAL GDP





Mafex and the Central American Bank for Economic Integration (CABEI) organised a meeting day of the Spanish railway industry with representatives of the Republic of El Salvador and the Dominican Republic

Mafex and the Central American Bank for Economic Integration (CABEI) organised a meeting on 3rd October in Madrid, Spain, between government authorities and CABEI officials from the Republic of El Salvador and the Dominican Republic and the Spanish railway industry with the aim of gaining an in-depth understanding of the operation of the sector, as well as to share the best lessons that can be replicated in the Central American region.

GOVERNMENTAL AUTHORITIES AND OFFICIALS FROM THE CENTRAL AMERICAN BANK FOR ECONOMIC INTEGRATION (CABEI) OF THE REPUBLIC OF EL SALVADOR AND THE DOMINICAN REPUBLIC MADE THIS VISIT WITHIN THE FRAMEWORK OF A HIGH-LEVEL MISSION THEY ARE CARRYING OUT IN SPAIN.

The event was attended by Víctor Ruiz, President of Mafex, and Mauricio Chacón, Head of Mission of CABEI's Spain and Europe Office, who opened the day.

Ruiz stressed that "Spain has been a proud member of the Central American Bank for Economic Integration since 2005. This allows our companies to strengthen co-

llaboration in areas as varied and strategic as the railway. And even more so since 2019, the year in which Mafex and CABEI signed a cooperation agreement to promote knowledge transfer and provide advice for the implementation of actions of common interest. It was a great honor for us to be able to visit the bank's headquarters in Tegucigalpa..."

Meanwhile, Mauricio Chacón pointed out that "...as CABEI we seek to bring closer and strengthen ties and alliances between the regions to motivate and promote development projects that encourage the economic growth of the Bank's member countries..."

This was followed by two presentations on "Railway Transport, Investment and Development Plans in El Salvador and the Dominican

Republic" led by the Deputy Minister of Transport, Nelson Reyes, and the Director of Public Works Planning, René Nuñez, on behalf of the Ministry of Public Works and Transport of -El Salvador and Manuel Ogando representing the CABEI Office in the Dominican Republic.

Those presentations highlighted how in these countries, there are great opportunities for companies in the Spanish railway sector to participate in the development of large-scale strategic projects developed with the aim of updating and improving the conditions of mobility of people and cargo in a sustainable way.

Collaboration between Mafex and CABEI

As part of its infrastructure development plans - via CABEI - the

Central American region aims at promoting the development of Central American countries through efficient railway transport. Since 2019, both organisations have been collaborating to promote and support the internationalisation of the Spanish railway sector, as well as to support and encourage cooperation in innovation and competitive improvement between the companies associated with Mafex, the association itself and both entities.

In this way, the advice, exchange, and knowledge transfer of the Spanish railway sector is facilitated and promoted - given the extensive knowledge of the Spanish railway industry and for being a global benchmark - with the aim of collaborating in the Railway Infrastructure plans of the Central American region. 🚆



A complete range of switches and crossings for urban layouts

New day within the framework of the "International Markets Forum" dedicated to the potential of the Polish railway market

On 25th October, the third 2023 session of the "International Markets Forum" organised by Mafex was held in Bilbao with a day that focused on Poland and was attended by more than 40 participants.

At the meeting, Pedro Fortea, CEO of Mafex, stressed that "...Poland is a priority market for the Spanish railway industry due to the investments planned in the short and medium term. The Polish railway market holds great business opportunities for Spanish companies, with very important projects on the horizon due to the large influx of funds from the European Union and the Polish National Railway Programme. In fact, the Railway Programme was updated in August of this year looking ahead to 2030 and it foresees a total investment of around 37,8 billion euros..."

Subsequently, our collaborator Joan Gasol presented the report "Focus On Poland" and the opportunities that the Polish market holds for Mafex members.

Next, Marcin Jędrasik, Director of the Procurement Department in Centralny Port Komunikacyjny – CPK & Piotr Wituski & Izabela Szumska, Purchasing Project and Category Manager of Pojazdy Szynowe Pesa Bydgoszcz-PESA respectively provided greater detail of the planned railway investments over the coming years.

Finally, Ainara González, Head of Trade Policy, and Institutional Relations at Mafex, moderated a round table with Ondřej Škuta, Sales and Marketing Director of Ingeteam, and Carlos Díez, Senior Project Manager of Ineco, who shared with all

POLAND IS A KEY MARKET FOR THE SPANISH RAILWAY SECTOR AND OFFERS GREAT BUSINESS OPPORTUNITIES FOR THE INDUSTRY THANKS TO THE TRANSFORMATION PROCESS IT IS UNDERGOING WITH THE REFORMS AND INVESTMENTS ASSOCIATED WITH EUROPEAN UNION FUNDS.



the participants the experience of their companies in the country.

Poland is a key market for the Spanish railway sector due to its growth and the investments planned for the coming years.

Poland's railway network is one of the most extensive in Europe and is also the second largest market in

Europe for the transport of goods by rail, only behind Germany.

CPK's initiative is an essential part of the Polish railway market. In addition, the electrification of 1,400 kilometres of railway lines, the deployment of ERTMS and multiple line development and rehabilitation projects are planned, as well as numerous urban transport projects. 🚆



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El futuro de la movilidad en nuestro mundo globalmente interconectado exige soluciones de transporte fluidas, sostenibles, fiables y seguras. Aprovechamos las ventajas de la digitalización, la excelencia en ingeniería y nuestro espíritu emprendedor para superar este reto. Con la confianza de nuestros socios somos pioneros en el transporte, trasladando a las personas de manera sostenible y fluida desde la primera hasta la última milla. Y siempre vamos más allá para ayudar a los operadores de transporte de todo el mundo a superar sus expectativas.

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SIEMENS



Freight to the Train arrives in Madrid

ON 24TH OCTOBER WE HAD THE OPPORTUNITY TO PARTICIPATE IN THE PRESENTATION IN MADRID OF BOTH THE "FREIGHT TO THE TRAIN" CAMPAIGN TO THE PUBLIC AND A SESSION ATTENDED BY OPERATORS, INSTITUTIONS AND REPRESENTATIVES OF DIFFERENT SECTORS. THE AIM IS TO RAISE AWARENESS OF THE NEED TO CREATE A CO₂ EMISSION-FREE SUPPLY CHAIN, WHERE THE TRAIN IS THE CENTRAL AXIS.

As for the session - organised by KPMG, The Economist and the initiative "Freight to the train" – it was welcomed by Idoia Galindo CEO of Transfesa Logistics and the presentations by the Ministry of Transport Mobility and Urban Agenda, The Climate Reality Project and KPMG. The meeting also included a round table with Idoia Galindo of Transfesa Logistics, Pablo Mendivil of Volkswagen Navarra, Jordi Ortuño

Moliner of ERMEWA, Nuria Lacaci Vázquez, Association of Shippers of Spain - ACE - Mar Chao of Port Authority of Valencia and Fernando Vizoso Estrades of KPMG who discussed the need to move freight from road to the railway to reduce carbon emissions, as well as the challenges and opportunities it presented.

Our President, Víctor Ruiz, introduced the round table and highlighted

"...the need to promote incentives for demand, especially on the part of the shipper, who is the one who moves the goods. Initiatives aimed at stimulating demand from operators and customers are common among our European colleagues. We find examples in countries such as Germany, Belgium, Italy or Austria."

He also highlighted that "the Spanish railway industry is moving in the same direction as all of us who are here today, building consensus on agreements and measures between the different market players and many public administrations. With the right policy measures and a combined effort from the entire supply chain, we are convinced that it is possible to increase the modal share of the railway..."

The STARS project ends

The main objective of the project has been to address the aspects related to the adoption of Advanced Technologies in SMEs. To this end, during this two-year project, activities such as training in technological areas relevant to the sector have been carried out. The 16 training sessions provided were based on various topics such as additive manufacturing technologies, digital twins, 5G for mobility, and green technologies in the railway, among others, as well as a workshop on European funding opportunities.

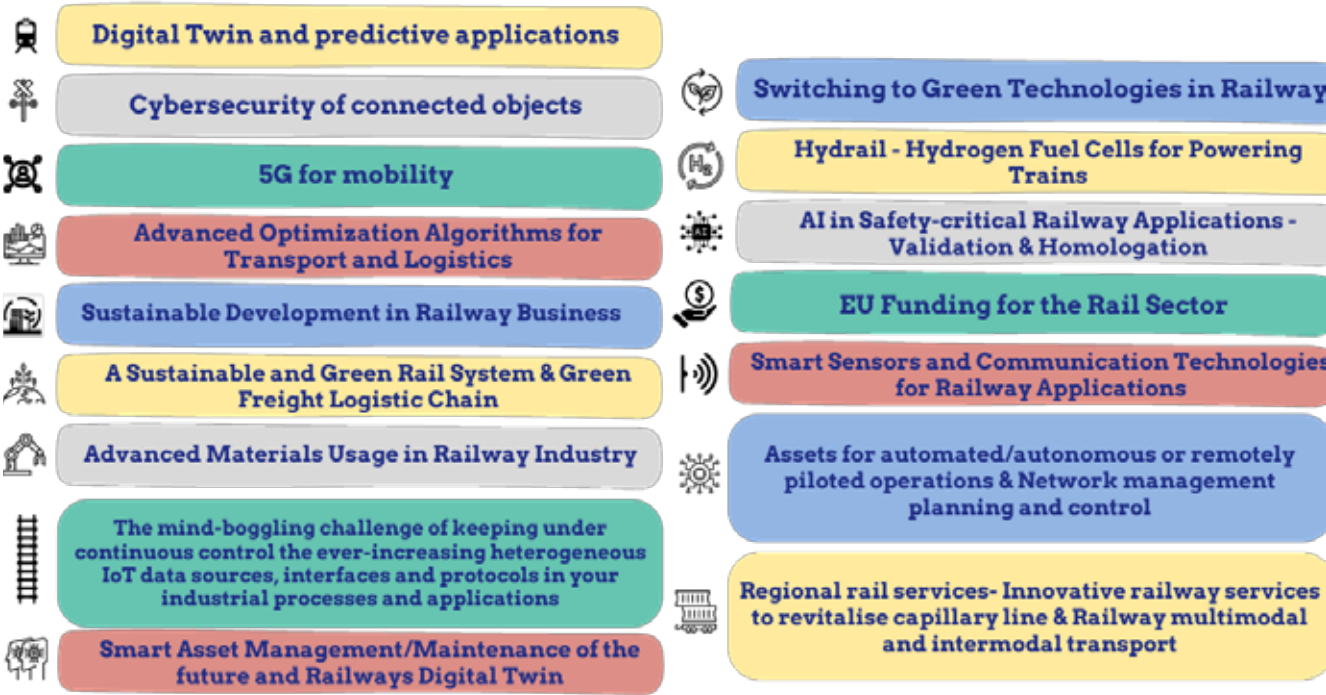
These training sessions have had a wide participation of Mafex member companies, with a total of 39 companies and 191 delegates, which have benefited from the project's training sessions.

ON 26TH SEPTEMBER TOOK PLACE THE FINAL EVENT OF THE STARS PROJECT THAT MAFEX ATTENDED TOGETHER WITH 10 EUROPEAN RAILWAY CLUSTERS, FIVE EUROPEAN TECHNOLOGY CENTRES AND A START-UP DEVELOPER AND PROVIDER OF BLOCKCHAIN.

products and services", (3) "Blockchain for railway processes, products and services", (4) "Digital Twin and Artificial Intelligence for railway processes, products and services" and (5) "Advanced technologies for resilience of the rail supply chain". These events focused on the challenges identified in the analysis carried out at the beginning of the project on the technological needs of European SMEs in the sector. During them, the most traditional companies in

ned, thus promoting networking among attendees in order to create collaborations for technological developments.

The project also delved into technologies such as Blockchain or Artificial Intelligence. Two technologies - that represent a very important driver for innovation in the sector - but which still need to be understood to know their potential and their applications throughout the supply chain of



On the one hand and within the framework of the project, five "Hack & Match" events have been held, focusing on the topics of, (1) Energy efficiency for "Railway processes, products and services", (2) "Big data for railway processes,

the sector have worked with technology companies in search of solutions. In addition, and after the Hackathon section, the possibility of holding meetings with the different companies that participated in the conference was open

the railway sector. That is why the project organised two in person events around them, in which attendees were able to learn more about both technologies, their characteristics and their possible applications.

Visit by the Innovation Committee to the Madrid Logistics Centre with Metro de Madrid

The Metro de Madrid Logistics Centre in Canillejas is where the operator has in store 25,000 references that are distributed to all Metro stations and depots.


Launched this year, it is a pioneering automated logistics warehouse for the maintenance of trains and installations throughout the underground network and has become one of the leading logistics centres in the Comunidad de Madrid.

The warehouse incorporates the most advanced technology in order preparation with robots, with the acquisition of an automatic

THE LATEST INNOVATION COMMITTEE MEETING WAS HELD IN MADRID ON 6TH NOVEMBER. TAKING ADVANTAGE OF THE LOCATION, THE COMMITTEE MEMBERS VISITED THE METRO DE MADRID LOGISTICS CENTRE IN CANILLEJAS, SPAIN.



tray accumulation system that increases efficiency of logistics activities

and increases the capacity of supplies. 

Next Mafex open days on 24th November in Leioa (Bizkaia) and 14th December in Madrid


FOR THE NINTH EDITION, THIS INITIATIVE AIMS AT RAISING AWARENESS OF MAFEX'S WORK. THE SERVICES IT OFFERS AND THE SUPPORT IT PROVIDES TO COMPANIES IN THE SECTOR. TO THIS END, ATTENDEES WILL LEARN ABOUT THE INITIATIVES, AS WELL AS THE PLAN OF ACTIVITIES THAT HAS BEEN DESIGNED FOR 2023.

Mafex's main objective is to serve the railway industry and to defend the shared interest of its 119 current members. This role translates in acting as a facilitator, via the implementation of initiatives in the field of foreign promotion, strategic intelligence, trade policy, working groups, sectoral forums, R+D project office, innovation and talent management, institutional relations and communication and marketing, thus allowing the competitiveness and global presence of its partners to be strengthened through cooperation and the use of joint capabilities.

Improving the competitiveness of the Spanish railway industry and boosting the global presence of its members through cooperation and the use of joint capacities.



In this new edition, it is worth highlighting the participation of Mafex members such as Caf, Idom, ArcelorMittal, Tysa who will share their experience as members of the association and explain how Mafex supports them in different areas and issues.

For more information about the event, please contact patricia@mafex.es or by phone: 944 706 504. 





S-ACCESS Mission to the U.S. and Canada

The mission consisted of three phases, the first part took place in Indianapolis (USA) attending the "Railway Interchange" fair, the largest railway exhibition and technical conference in North America. This fair included meetings with different sector related entities such as Norfolk Southern, Indianapolis Chamber of Commerce, Indiana Economic Development, PNC and RSM US LLP, Butler University, Inzone Barnes & Thornburg.

For the second part of the mission, the companies visited the Canadian cities of Toronto and Montreal. On

THE SECOND MISSION OF THE S-ACCESS PROJECT TOOK PLACE BETWEEN 1ST AND 12TH OF OCTOBER AND HAD THE PARTICIPATION OF 21 EUROPEAN COMPANIES, SEVEN OF WHICH WERE MAFEX MEMBERS.

this occasion, the companies had the opportunity to meet with the TTC – Toronto Transit Commission, CN, STM – Société de Transport de Montréal, EXO RAILCAN – Railway Association of Canada, AQTR – Association Québécoise des Transports, WSP, ARTM – Autorité Régionale de Transport Métropolitain, INNOVEE, Propulsion Quebec and Investissement Quebec. These meetings allowed to learn about

the future projects and needs of Canadian entities and their open tenders or the facilities available to companies when doing business in the country, for example.

The mission ended with a third phase in the U.S. visiting "APTA EXPO", the largest public transport industry fair in the country. Meetings were also held with PRT – Pittsburgh Regional Transit, E.M. Wasylik Associates, MetroPlan Orlando, MPOAC – Florida Metropolitan Planning Organization Advisory Council, Broward Metropolitan Planning Organization, SunRail, Florida APEX Accelerator at University of Central Florida, Select Florida, Orlando Economic Partnership, CSX, Brightline, European American Chamber of Commerce Florida, Miami-Dade Transportation Policy Organization, FDOT – Florida Department of Transportation, Expressway Authority, Miami-Dade County Department of Transportation and Public Works and Miami-Dade Downtown Development Authority. 📍



Indra provides Lisbon's subway with the most convenient and advanced access system

INDRA

Indra has made Lisbon one of the first cities in Europe in which travelers can access the subway with their own cellphone, bank card or smartwatch without having to purchase a ticket or pass beforehand, by applying the EMV (Europay-Mastercard-Visa) universal payment technology, while maintaining the other previously existing travel options.

It's a state-of-the-art payment system that's much smarter, more streamlined and convenient. Not only does it enhance the traveler experience and provide quick and



easy access for everyone visiting the city, it also minimizes plastic and paper consumption and

alleviates the work involved in supplying and printing thousands of tickets on a daily basis.



RSS to deploy its AGUTERM+ point heating solution at RENFE's maintenance facilities and on the Thessaloniki-Idomeni railway line in Greece

REVENGA

RSS will install its AGUTERM+ point heating solution at RENFE's Atocha, Humanes and Fuencarral maintenance facilities to protect the switches and prevent them from becoming unusable in cold winter weather, allowing trains to

operate normally within the facilities covered by the project. The project is part of RENFE's plan of improving key infrastructure centers, such as depots and maintenance bases, to optimize performance and operational safety. In addition, RSS has also been awarded a new project in Greece (Thessaloniki-Idomeni) for the installation of AGUTERM+. This project is the second one that RSS will execute in the country, after the Tithorea-Domokos line.

AGUTERM+, thanks to the algorithm and sensors developed by RSS, enables a reduction of more than 35% in energy consumption and CO2 emissions over conventional railway point heating systems. Railway operators and infrastructures in Spain, Turkey and Belgium are thereby contributing to environmental objectives such as the Business Ambition 1.50 of the United Nations SDGs, which seeks to prevent the increase in global temperature from exceeding 1.50C by 2030.

Icon Multimedia implements its passenger información system in the new section of "El Insurgente"

ICON MULTIMEDIA

The newly inaugurated Mexico-Toluca interurban train "El Insurgente" now offers an enhanced travel experience thanks to ICON Multimedia's technology. The successful implementation of DENEVA, its Passenger Information System, at the stations connecting the State of Mexico's capital with western Mexico City reaffirms the company's commitment to innovation and mobility and its contribution to the efficiency and satisfaction of passengers in the Mexican Government's railway transport network.

DENEVA provides passengers with real-time information on schedules, connections, and available



services. Additionally, it offers multimedia content, relevant announcements, and alerts to ensure a comfortable and safe journey. In-

formation devices are located at all stations along this initial 20 km section, with a total end-to-end travel time of just 20 minutes.

The Ministry of Transport and Infrastructure visits Çerkezköy – Kapikule Railway Line Project

TPF INGENIERÍA

On July 28, we have proudly hosted the esteemed representatives of our Client, the Ministry of Transport and Infrastructure, to inspect the progress of the project.

A site visit was held with the presence of our key experts and the technical director of the International Department of TPF INGENIERÍA, Mr. Francisco Javier de Bonifaz. The visit allowed us to provide a comprehensive overview of the current status of the project.

To date, the physical progress of the construction works is around 70%. Most of the infrastructure works have been completed, while those related to the superstructure and elec-



tromechanical systems are ongoing. Çerkezköy – Kapikule Railway Line Project continues to be a testament to our unwavering commitment to

strengthening the railway infrastructure of Türkiye and providing top-quality supervision services in the country.



Teltronic's TETRA system for Jakarta's largest Light Rail Train goes into operation

TELTRONIC

The critical communications solution deployed by Teltronic for Greater Jakarta's largest Light Rail Train, Jabodebek LRT, has gone into operation with the inauguration of this transport system that will significantly reduce traffic in the Indonesian capital. This is the

second project of the Spanish company in the country after the deployment of another TETRA system in Palembang's LRT.

Teltronic was selected to install a TETRA digital radio system that allows not only voice communication but also other important functionalities, as the connection to the Train Control Management System (TCMS) to transmit telecommands.

Teltronic deployed its NEBULA TETRA infrastructure that comprises the Switching Control Node, responsible to provide network intelligence; and the base stations required to provide radio coverage to the 44km of the track.

The solution also includes the command and control centre CeCoCo that manages and coordinates all users.

Simulator for RAPIDX: India's rail transport revolution

LANDER

The Regional Rapid Transit System (RRTS) or RAPIDX marks a turning point in Delhi's urban mobility. It will connect India's capital with the major cities around it. This high-speed train will connect the capital of India with the main cities that surround it and that form one of the largest metropolitan area in the world.

For the first time in India, this network will have the European Train Control System ETCS level 2, which includes ATP, ATO and ATS, using radio communication systems between the track and the train.

To train drivers in ETCS level 2, as well as in daily operations and risk situations, they have trusted LANDER for the development of their driving simulators.



The project has a replica train cabin on a 6 DOF movement platform.

As well as an open cab with replica desk.



Alstom Spain to supply signalling and traction systems for the first monorail in the Caribbean

ALSTOM ESPAÑA

Alstom's Digital Mobility unit in Madrid will design and supply the signalling and train control system (CBTC) for the new monorail in the Dominican Republic. The Trápaga

industrial site in Bizkaia will supply engineering support and traction systems.

A consortium led by Alstom has been selected to deliver an integrated Innovia monorail system for the city of Santiago de los Caballeros, in the Dominican Republic. The 13-kilometre, 14-station monorail system will be the first of its kind in the country and in the Caribbean

and will be dimensioned to carry up to 20,000 passengers per hour per direction.

Alstom's scope within the contract includes, among others, system integration, testing and commissioning of the full system and the supply of Innovia monorail trains as well as Cityflo 650 GOA4 driverless signalling.

CAF Signalling, at the ATO forum on ERTMS N2

CAF SIGNALLING

The technical conference "Automatic Driving on Railways. ATO on ERTMS N2", organized by the ICAI-TREN Forum, the ICAI Engineers Association and with the collaboration of the Comillas Pontifical University, brought together the main players in the sector to analyze the prospects for automation.

CAF Signalling has participated through Mikel Labayen, who collaborates in international ATO implementation projects. As a representative of one of the leading manufacturers, Labayen described the strategies and solutions adopted by CAF Signalling in recent years to implement

on-board ATO GoA2 even on those tracks without an operational track side. He also highlighted pilot initiatives for fully autonomous ATO GoA4 and Automatic Train Operation.

As a conclusion: ATO interoperability over ERTMS level 2 will improve transport capacity, as well as real-time traffic operation and energy efficiency.



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CETEST’s support to RENFE for new vehicles homologation

CETEST
CETEST is actively participating in the homologation of the new RENFE trains, launched within the framework of its strategy of renewal and expansion of its fleet of vehicles, for different segments and track gauges, and contracted from different rolling stock manufacturers.

On the one hand, CETEST is working with STADLER and ALSTOM for the approval of the new High-Capacity Commuter vehicles. CETEST will carry out a large part of the tests (carbody structural test, complete on-track homologation) and, thanks to its experience as the main accredited laboratory in Spain, will collaborate in the coordination of the campaign, request for running authorization, etc.

On the other hand, CETEST is working with CAF for the metric gauge and alpine gauge (RAMYA project)



homologation campaigns, as well as for the homologation of the new RENFE medium distance vehicle (Ibe-

rian and UIC gauge), new Commuter (Iberian gauge) and FH2Rail project’s demonstrator train.



Ingerop Group's International Transport Seminar

INGÉROP
On September 21st and 22nd, Ingérop organized its "International Transport Seminar" in Barcelona, an event that brought together more than 160 colleagues from all the group's subsidiaries specialized in the field.

One of the main achievements of the seminar was the opportunity to strengthen relationships between the different international subsidiaries, allowing teams to understand their local challenges. These connections clear the way for more effective collaboration on future projects and a continuous exchange of knowledge. Additionally, the event provided

a space to develop strategies that efficiently integrate different modes of transportation, promoting more sustainable solutions and boosting innovation. The real-time collaboration of experts from different areas of expertise enabled the identification of strategic priorities and the definition of specific group objectives for 2024.



Ceit launches Inspectrail, its new startup specializing in railway maintenance

CEIT
Inspectrail, the latest venture from the Ceit Technology Center, offers cutting-edge solutions for railway infrastructure inspection. Its value

proposition lies in the integration of systems on railway vehicles, increasing inspection frequency and facilitating maintenance digitization. This helps prevent incidents, reduce risks, improve availability, and lower maintenance costs by evaluating track geometry, wireless communications

quality, pantograph and catenary contact, signal status, vegetation, among other factors.

With this addition to companies like Lander and MainRail, Ceit continues to strengthen its commitment to the railway sector.



COMSA will carry out the Montcada i Reixac railway underground works

COMSA
The joint venture formed by COMSA, FCC and Ferrovial has been awarded the contract for the underground construction of the R2 Rodalies line as it passes through Montcada i Reixac (Barcelona), in addition to the construction of a

new station in this municipality. The project includes the construction of a 4-kilometre tunnel through which the R2 line tracks will pass, which, in parallel, will add a third track to increase the system’s capacity. It also contemplates the construction of a new underground station based on criteria of sustainability, accessibility, and functionality, which will have three tracks and two side platforms.

The central track will be used by regional trains that will not stop, thus reducing their journey times.

The integration of the railway into the urban centre of the municipality will entail an urban and railway transformation of great technical and constructive complexity. Moreover, it will increase the safety conditions for the residents.

Connecting University Talent with the Railway Sector

CRÉATE HR
Créate HR, the consultancy specialized in recruitment and training in the railway sector, took part in the 10th Job Fair at the University of Seville in September. Seeking to attract emerging talent, the company used this event to highlight the advantages and professional opportunities offered by the railway industry, a field in constant growth and transformation.

Créate HR's participation in this event reflects its commitment to developing professionals in the railway sector and its focus on identifying exceptional talent to meet the sector's needs. This initiative strengthens its position as a leader in the



search and training of top profiles in the railway world, building brid-

ges in the industry for a more promising future.

Indonesia launches LRT Jabodebek Light Rail line with Siemens technology

SIEMENS MOBILITY
This summer, Indonesia reached a major milestone with the opening and operation of the Jabodebek Light Rail Transit (LRT), a new light rail line in Jakarta. The LRT, led by Siemens Mobility, has improved the passenger experience by incorporating advanced Siemens technology, such as the CBTC Trainguard MT signaling system, the ATS Rail 9k control center and the Westrace interlocking MKII, ensuring efficient and safe travel.

This project stands out for its sustainable approach, as it contributes significantly to the reduction of carbon emissions and energy efficiency. The Trainguard system enables efficient driving by saving traction energy and maximizing transport capacity, reducing carbon emissions from energy consumption.

The Jabodebek LRT operates 31 driverless trains, serves 18 stations and can carry up to 500,000 pas-

sengers a day, which will reduce travel times and relieve traffic congestion.

The CBTC Trainguard system allows operators to maximize line capacity and performance, adapting in real time to demand and optimizing resources. Thus, the Jabodebek LRT is a leading example of how cutting-

edge rail technology can contribute to more sustainable, efficient and comfortable transportation.

This project represents a significant advance in Indonesia's transportation infrastructure and demonstrates the country's commitment to sustainable mobility and reducing carbon emissions.



Vogelsang shows its systems for trains in RailLive

VOGELSANG
Vogelsang will present its compact systems for hygienic wastewater disposal and drinking water supply for trains as well as equipment for train interior cleaning at RailLive. The

event will take place from November 29 to December 1 at IFEMA in Madrid. At booth CO89, interested parties can find out about Vogelsang's entire product portfolio for rail and transport technology, such as the TUnit or CabinetUnit. Harald Vogelsang, Managing Director of Vo-

gelsang GmbH & Co. KG, declared "Our tried and tested systems in the field of rail and transportation technology are compactly built and variable in their equipment and installation. As a result, they meet the various requirements for rail depots of different sizes."

ICF leads the ADIF level crossing upgrade

ICF
Within the framework of the improvement actions in level crossing protection systems that ADIF develops, ICF is established as the leading company in the Spanish railway sector, with a total of eleven contracts awarded during the second half of 2023. The recent increase in tenders offered by ADIF have allowed ICF to exploit its innovative and efficient technology, also creating an opportunity for the improvement in safety of the Spanish railway system.

The different ongoing projects include the upgrade in protection types A2 and A3 level crossings, for which axle counters detection sensors, signalling and pro-

tection technology will be used. The opportunity presented to ICF demonstrates the company's capacity for adaptation and innova-

tion and its competitive nature, as well as the importance granted on the reliability and availability of protection systems nowadays.



The TRAMLINK starts regular services in Bern

STADLER

On 1 November, BERNMOBIL started regular services with the TRAMLINK in the Swiss capital after a test phase lasting several months. The order comprises 20 bi-directional and 7 one-way vehicles to be delivered between 2023 and 2025. The new trams will replace existing vehicles that are reaching the end of their useful life. They meet the mobility needs and infrastructure requirements of Bern. With 42.5 m long, 2.3 m wide offer large passenger capacity, up to 250 people.

The TRAMLINK for BERNMOBIL has been awarded the prestigious Red Dot Design Award 2023. The vehicle



has an elegant exterior design and a bright, spacious, barrier-free interior. With more than 300 TRAMLINKs sold, Stadler trams are setting standards in terms of performance, safety, universal accessibility and comfort. TRAMLINKs have been operating for years in Erfurt and

Rostock (Germany), Gmunden (Austria) and Santos (Brazil) and will soon be operating in Jena and Milan. In Switzerland, these LRVs runs on the Waldenburgerbahn, on the Limmattalbahn, on the Lugano-Ponte-Tresa-Bahn, and from now, also in Bern.

Mieres Rail S.A. designs, manufactures and supplies track devices for the Mayan Train Project (Mexico)

MIERES RAIL

Mieres Rail S.A. has designed, manufactured, and supplied turnout systems for the Tren Maya (Mexico) combining EN and AREMA technical specifications. These turnout systems, in two different geometries (R525 with Tg 1:15 and R1200 with Tg 1:20), were considered for operating conditions with speeds up to 160 km/h and axle loads up to 36.3 Tons, in 115RE rail profile, on concrete sleepers and for ballasted

tracks. Precisely the need to combine both regulations, so different in their concepts, for all the variety of rolling stock covered by AREMA, made it necessary to carry out an exhaustive and conscientious study of the wheel-rail interface to allow and ensure the correct passage of traffic, both at switches and crossings.

The very high axle load that some axles could present, up to 36.3 tons for the Cooper E-80, also required studies and tests to verify that the proposed concrete sleepers were valid for such a demanding load.

Similarly, the aggressive environmental conditions present in some areas of the Yucatan Peninsula influenced the surface coating of the materials to be used in order to combat, and delay, the undesirable effects of corrosion.

Before its shipment to Mexico, one turnout prototype for each geometry was fully assembled at our workshops, even with the driving and detection systems that were not included at our scope of supply, to verify and certify the correct performance of these two turnout systems.



The mobility OF THE FUTURE travels by *train*





TYPSA and RVNL strengthen cooperation for railway development in India

TYPSA

Rail Vikas Nigam Limited (RVNL), an entity of the Ministry of Railways responsible for the development of India’s main railway lines, has commissioned TYPSA with the contract for the design and tender of construction contracts and supervision of a section of more than 68 km, on the new railway line between the cities of Yavatmal and Nanded, in the state of Maharastra.

Within the framework of this contract, TYPSA coordinates with RVNL on the organisation of technical visits to facilitate the opportunities for the technical and managerial staff of RVNL to learn about and exchange international railway experiences on other contracts that TYPSA is engaged in, both in Spain and around the world.

Twenty-second edition of the QA&TEST Embedded conference in Bilbao, dedicated to software testing and quality in embedded systems

SQS

In October, the company SQS held the twenty-second edition of the QA&TEST Embedded conference in Bilbao, dedicated to software testing and quality in embedded systems. With an excellent international reception, we can highlight the interest generated in the possibilities offered by AI to optimize testing processes, an area of technology with significant opportunities for development and innovation.

The fourth edition of QA&TEST SAFSEC will take place in Madrid in



April, addressing the integration of safety and cybersecurity aspects throughout the development cycle of systems and products. This topic is essential in critical sectors such as railways and defense.

Both events share the goal of promoting sustainability, a crucial fac-

tor in mitigating the environmental impact of the industry and maintaining competitiveness in a market that is conscious of this need. They aspire to achieve Green Conference certification in 2024.

More info: <https://safety.qatest.org/?lang=en>

Precon – sleepers supply for the “Tren Maya” project

PRECON

In a significant milestone for the Tren Maya project in Mexico, PRECON, a leading company in the design and manufacturing of sleepers, has supplied to date a total of 27,330 sleepers for track components, equivalent to a total of 86,100 linear

meters. The sleepers, which have been supplied to Spanish specialists in the railway industry, Amurrio Ferrocarril y Equipos S.A. and Mieres Rail S.A., form the foundation of various sections of the Tren Maya in Mexico. They have been designed to meet the specifications of the American Railway Engineering and Maintenance-of-Way Association

(AREMA) as well as comply with European standards that govern the manufacturing of railway products at PRECON.

These sleepers are characterized by their customized nature, as they must adapt to the specific geometry of each track component, which poses challenges in the preparation and planning of production systems. Their manufacturing is carried out using the “long bench” manufacturing system. This system, coupled with rigorous process control and quality standards, ensures the quality and durability of the sleepers, achieving the necessary geometric precision for the installation of track components.

With its in-house engineering capabilities and over 30 years of experience in manufacturing sleepers for track components in Spain, together with supplies made in recent years in different countries, PRECON solidifies its position as a clear leader in the design and manufacturing of this type of sleeper on an international level.



PRECON sleepers in a turnout of the TREN MAYA project. Photo courtesy of MIERES RAIL.

ArcelorMittal crane rails for largest port in Sri Lanka

ARCELORMITTAL

From port and terminal projects to giant cranes, ArcelorMittal crane rails are used in many applications and are present in ports of all continents.

ArcelorMittal contributed Colombo new terminal project by supplying MRS87A, grade 90, crane rails. These rails are also with a high protective coating (C5level) to protect rails against corrosion, reaching protective level and maintaining technical specifications.

ArcelorMittal also supplied A75 crane rails for equipping ZPMC STS cranes for the terminal, as ZPMC Ltd Company has won the deal to supply 12 giant cranes and 40 rail mounted automatic gantry cranes for the new port.



ArcelorMittal is working closely to customers to develop with them new or specific rails and products

according to their needs and keeping an important production flexibility.

Spain produces the most efficient high-speed railway in the World

INECO

Spain has managed to develop the most extensive high-speed network in the EU with the lowest average construction cost. And it has done so with very high design and quality parameters, at the forefront of the sector, in relatively fast times and without major budget deviations. This is the main statement included in the new report 'Efficiency of the Spanish sector in the development of high-speed rail', prepared by the engineering and consultancy firm Ineco, which deals with the efficiency of the Spanish high-speed model.

A comparative analysis of the Transit Costs Project database, together with the rest of existing



studies, allows Ineco to conclude in this report that the country has developed the second high-speed network in the world with one of the lowest construction costs per kilometre compared to the rest of countries with this means of transport and the lowest among the European Union countries. Spain builds high-speed trains at an average cost per kilometre of 17.7 million Euro, compared to 45.5 million Euro in other high-speed countries, which is more than

twice as much. The study also extends the traditional perspective of construction to cover the entire life cycle of the infrastructure and includes the costs of operation and maintenance which, although to a lesser extent, reinforce the leading position of the Spanish model.

Access to the full report "Efficiency of the Spanish sector in the development of high-speed rail" at Ineco's web.



Thales and Orascom Construction upgrade the Cairo - Giza - Beni Suef railway line in Egypt

THALES ESPAÑA

Thales and Orascom Construction sign a new contract in Egypt with the Egyptian National Railways (ENR) for the modernisation of the dou-

ble-track railway, linking the cities of Cairo, Giza and Beni Suef. The track is located on the east bank of the river Nile, 115 kilometres from the country's capital.

The contract has a budget of more than 300 million euros with a projected execution period of 60 months.

Additionally, two years of guarantee and another five years of maintenance services will be provided for the line. The Thales-Orascom Construction consortium will be responsible for modernising the signalling and telecommunications systems, as well as to the renewal of the track within this specific section.

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Technology, innovation and strategy for the entire rail supply chain

THE MAIN REPRESENTATIVES OF THE INTERNATIONAL RAILWAY SECTOR WILL MEET AT IFEMA, MADRID, FROM 29TH NOVEMBER TO 1ST DECEMBER IN A NEW EDITION OF RAIL LIVE!

This year, Madrid will be in charge of hosting the main representatives of the railway sector from 29th November to 1st December at the railway event of the year.

Rail Live! 2023 arrives in the city under the motto "Technology, innovation and strategy for the entire rail supply chain". An event that brings together all

the essential players in the railway industry responsible for promoting investment and digital transformation in the world of trains.

As every year, Rail Live! is organised by Terrapinn in collaboration with Mafex.

On this occasion, attendees will be able to enjoy more than 300 speakers, 250 exhibitors and 100

2023 RAIL LIVE!





startups that will showcase their railway services and innovations, helping them to find solutions to streamline their operations. Both the exhibition and the conference will showcase all the innovation in civil engineering, construction, machinery, rolling stock. At the same time, the event will be very aware of how revolutionary

Rail Live! has become the professional platform of reference of the international railway sector in Spain



technologies such as AI, ERTMS, ATO or BIM are being applied in the railway industry, with new results for operators, infrastructure managers, railway megaprojects and their industry partners.

Broad institutional support
As in previous editions, there is support from a large number of collaborating entities. This year's edition has the collaboration of the Railway Infrastructure Manager (Adif), Renfe Operadora, ICEX Spain Trade and Investment, the Spanish Railways Foundation (FFE), the Spanish Railway Technology Platform (PTFE), Community of Madrid, Madrid City Council and Madrid Metro..

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Collaborating entities





A comprehensive congress agenda to discuss the future of the sector

From digital transformation to freight transport, Rail Live! 2023 will explore all aspects of the railway industry. In nine "summits" over three days, where representatives of administrations, operators, and national and international organisations as well as the industry will debate in Madrid about the present and future of the railway.

Topics

Numerous topics will be discussed by the speakers during the various conferences. They will focus on

SPEAKERS

NAME	POSITION	COMPANY
Diego Bazzano	Head of Passenger Information, Social & Digital Media Strategy	A.T.M. - Azienda Trasporti Milanesi
Maria Luisa Dominguez Gonzalez	President	ADIF
José Conrado Martínez Acevedo	Director Strategic Innovation	ADIF
Ángel Contreras Marín	Director General de Conservación y Mantenimiento	ADIF
Ángel Contreras Marín	DG Conservation And Maintenance	ADIF
Javier Achútegui	Capacity allocation manager	ADIF
Juan Carlos Barrón	Human Resources Coordination Director	ADIF
Juan Alberto Altuna Ortega	Subdirector de Telecomunicaciones	ADIF
Concepción Casillas	Directora de Planificación, Organización y Administración	ADIF
Gentian Liko	Chief Executive Officer	Albanian Railways
Dritan Spahiu	Chief Executive Officer	Albairl
Nick Brooks	Secretary General	ALLRAIL Alliance of Rail New Entrants in Europe
Marta Díaz Molina	Country Talent Development Manager	ALSTOM ESPAÑA
Inma Lebrón	Business Developer Spain & Portugal	ALSTOM ESPAÑA
Josép Xargayó	Senior Engineer Antivibration	Angst+Pfister
Isabel Rodríguez Ramos	Infrastructures & Building Knowledge Area Director Mediterranean Region	Applus+
David Alvarez Diez	Rail Scientist	ArcelorMittal
Francesco Romano	Technical Director	Arsenale Group
Carole Coune	Secretary General	Association of European Rail Rolling Stock Lessors
Gerardo Landaluze	President	Autoridad Portuaria De La Bahía De Algeciras
Kristin Lysebo	Manager BIM and Geomatics	Bane NOR
Tom Remberg	CISO	Bane NOR

NAME	POSITION	COMPANY
Hakon Iversen	Chief Executive Officer	Banedanmark
Fabrizio Cerreto	Rail Traffic Analyst	Banedanmark
Joe Preece	Research Fellow	Birmingham Centre for Railway Research and Education
Felix Jaegle	Product Owner and System Architect Rail Perception	Bosch
Adam Swallow	Chief Inspector, A-DIV Disruption & Drones	British Transport Police
Chris Maydom	Data scientist BT Active Intelligence	BT Active Intelligence
Nathan Watt	Senior sales specialist BT Active Intelligence	BT Active Intelligence
Marc Valette	Director Of Innovation	C.F.L. Multimodal
Javier Martínez Ojinaga	Chief Executive Officer	CAF
Armando Ansón	Zero Emission Innovation Program Manager	CAF
Javier de la Cruz García Dihinx	Managing Director at CAF Digital Services	CAF Digital Services
Santiago Gómez Rodríguez	Business Development Manager	CAF Investment Projects
Carl Fredrik Karlén	Commercial Director	Cargonet
Paige Malott	Founder	Cascadia Rail
Jaime Velasco Alarcón	European Funding Manager	CEIM
Christian Schlehner	Convenor TC 9XWVG 26 (Railway CyberSecurity)	CENELEC
Mikolaj Wild	Chief Executive Officer	Centralny Port Komunikacyjny
Israel Baron	Vice President of Customer Relations	Cenvello
Marc Hoffmann	Board Member, Passenger Traffic	CFL - Chemins de Fer Luxembourgeois
Fernin Gil Garrido	Jefe de estudios	CIFF PROFESOR RAÚL VÁZQUEZ
Irene Cid Rico	Dean	Colegio Oficial Ingenieros en Informática
Silvia Roldán	Viceconsejera de Digitalización	Comunidad De Madrid
Wayne Harrop	Ast. Professor of BCM (fmr Director) Centre for Disaster Management (Coventry University)	
Russell Vine	Executive Director, Marketing and Communications	Cross River Rail Delivery Authority
Amir Levintal	Chief Executive Officer	Cylus Cybersecurity
Jan Ilík	EU Affairs Representative	Czech Railways (CD)
Jörg Schneider	Head of Climate Protection and Energy	DB Cargo
Oliver Sellnick	VP European Corridors and Cooperations	DB Netz AG
Tobias Fischer	Head of Procedure Development & Technologies	DB Netz AG
Volker Hentschel	Head of Group Program Digital Rail for Germany & Head of Board Representative Digital Rail for Germany	DB Netz AG
Stefan Leistner	Head of Analytics and Asset Management	DB Netz AG
Felix Doose	Data Scientist	DB Netz AG
John von Wentzel	Senior Corporate Finance Advisor	Department for Transport
Revantha Rodriguez	Deputy Director Train Strategy and Operations, Passenger Services	Department for Transport
Birgit Wirth	Chief Executive Officer, DB Cargo Scandinavia	Deutsche Bahn AG
Julie Romer	Mobility Manager	DSB
Francisco Pérez Domínguez	Business Analyst	DSB
Marianthi Theodoridou	Cybersecurity Officer	E.N.I.S.A.
Thomas Chatelet	ERTMS Project Officer	E.R.A.
Shinta Tsukii	Senior Manager of Rolling Stock	East Japan Railway Company
Julio Gómez-Pomar	Chairman	Ecorail
José Solorza Estevez	Chief Executive Officer	EFE Trenes de Chile
Fernanda García Polanco	Head of Engineering	EFE Trenes de Chile
Clement C.M. Yeung	Senior Engineer	Electrical and Mechanical Services Department, Government of Hong Kong Special Administrative Region
Ian Leung	Senior Engineer, Railways	Electrical and Mechanical Services Department, Government of Hong Kong Special Administrative Region
Chan Chau-fat	Assistant Director/Railways	EMSD, Government of the HKSAR
Michel Ruesen	Managing Director	ERTMS Users Group
Ian Koeppel	International Transportation Business Development Manager	ESRI
Terry Bills	Global Transportation Industry Manager, Esri	ESRI
Bob Janssen	Senior Data Architect	Eulynx
Elmer van Buuren	Co-founder	European Sleeper
Jayne Yeo	Project Officer	European Union Agency for Railways
Begoña Domingo Ortuño	Project Officer	European Union Agency for Railways
Christoph Kaupat	Project Officer	European Union Agency for Railways
Daniel Lopour	Market Development Officer	European Union Agency for the Space Programme
Léa Paties	Programme Manager	Europe's Rail Joint Undertaking
Giorgio Travaini	Executive Director	Europe's Rail Joint Undertaking
Javier Ibañez de Yrigoyen	Senior Programme Manager	Europe's Rail Joint Undertaking
Sébastien Denis	Senior Programme Manager	Europe's Rail Joint Undertaking
Karel van Gils	Seconded National Expert	Europe's Rail Joint Undertaking
Andrew Murphy	Head of Sustainability	Eurostar International Ltd
Wolfgang Domann	Managing Director, CCO	EYYES
Karina Jacobsen	Mechanical Engineer	Federal Railroad Administration
Lauri Helke	Managing Director	Fenniarail
Albert Tortajada	Director of New Business Development	Ferrocarrils de la Generalitat de Catalunya
Juha Lehtola	Project Manager	Finnish Transport Infrastructure Agency
Juan Jose Montero Pascual	Full Professor of Administrative Law and Economic Regulation,	Florence School of Regulation
Adrian Fernandez	Director Gerente	Fundación de los Ferrocarriles Españoles
Ángeles Tauler	Gerente PTFE-Subdirectora Estrategia, Innovación y Formación	Fundación de los Ferrocarriles Españoles
Holger Dittus	Project Lead	German Aerospace Center (DLR)
Simon Fletcher	Brand Ambassador, Europe	Global Centre of Rail Excellence
Simon Jones	Chief Executive Officer	Global Centre of Rail Excellence
Stefan Damm	President Business Field Inspection Solutions	Goldschmidt Holding GmbH
Mimmi Mickelsen	Tram Security Expert, Trafikkontoret	Goteborgs Stad
Gerardo Lerbundi	Chief Executive Officer	Grup TMB
Jason Brooker	Head of Environment	GTR Govia Thameslink Railway
Richard Thorp	Engineering Director	High Speed 1
Anton Zahner	Head of Industry sector Rail	HIMA Schweiz
Dyan Crowther	Chief Executive Officer	HS1
Heidi Hopper Duffy	Railway Undertaking Environmental Officer	Iarnród Éireann (Irish Rail)
Anna Gumbau	Journalist	Independent
Jérémie Anne	Freelance Journalist, Rail & Public Transport Expert	Independent
Javier Pozo Barberá	Operations Manager for Rail Division	Indra
Jose Miguel Rubio Sanchez	Director - Vertical Rail Transportation Business Unit	Indra
Sergio Vázquez Torrón	President	Ineco

5G, accessibility, architecture and design, Artificial Intelligence, Autonomous vehicles, blockchain, connectivity, future stations, IoT, and drones among others. Those in charge of breaking down these topics will be the main representatives, both from public administrations and railway network operators, as well as from specialised companies in each of the subsectors that will present their latest developments and solutions.

Spanish Symposium

Spain is one of the main international benchmarks in railway transport, which has one of the most modern and extensive high-speed networks and numerous metro and tram systems in the different regions. As the host country of this important international professional platform, the Rail Live! 2023 congress wanted to include a special section to learn more details about the present and future plans of the participating entities where Mafex will represent each of them. "Adaptation to climate change. Resilience of ADIF infrastructures" is

the topic to be presented by ADIF in this edition. Renfe, for its part will reference "Renfe towards Digital and Sustainable Mobility". Metro de Madrid will act as moderator of a panel which will deal with the following topic "Novelties, latest developments and functionalities of Rolling Stock". Mafex will moderate a panel with with three of its members, Alstom, Talgo and Idom, where they will present what is required to be part of their value chain. Finally, the Spanish Railway Foundation will moderate a panel together with other technological platforms to highlight the transversality of technologies. To close the event, Icx España Export and Investment will moderate a panel on "International international financing instruments for Railway Projects".

Talent, one of the protagonists of the congress agenda on 1st December

The railway, due to its many environmental, efficiency and safety ad-

The challenges are multiple, and it is necessary to have professional profiles that contribute their qualities, specialisation, and know-how to the development of the railway

NAME	POSITION	COMPANY
Pieter Verlinden	Team leader Data Science and Predictive Analysis	Infrabel
Kurt Van Ruyskensvelde	IT Relationship Manager	Infrabel
Miguel Jorge de Campos Cruz	President	Infraestruturas de Portugal
Miguel Mesquita Faro Viana	Training and Development Director	Infraestruturas De Portugal
Naser Kransiqi	Chief Executive Officer	Infrakos Rgp
Nebojsa Surlan	Chief Executive Officer	Infrastructure of Serbian Railways
Joseba A. Delgado	Sales Manager Traction Systems	Ingeteam
Asier Ugarte	Key Account Manager	Ingeteam Power Technology S.A
Virginie Papillault	Organisation And Human Factors- Senior Adviso	International Union of Railways (UIC)
Isabelle De Keyzer	Senior Advisor, Environment And Sustainable Development	International Union of Railways (UIC)
Vassiliki Nikolopoulou	Telecoms System Engineer	International Union of Railways (UIC)
Carla Trevino	Solution Architect - Connected Transport	Irdeito
Simone Gorini	Chief Executive Officer & General Manager	iryo
Sanjay Kumar	Director (Systems)	Kochi metro rail Ltd
Angel Zuñi Tejero	Account Director	KONUX GmbH
Carles Camprubi	Chief Circularity Officer	La Farga Yourcoppersolutions, S.A.
Gediminas Seckus	FREE Rail Program Manager, Interim Chief Executive Officer	Lithuanian Railway
Ana Maria Moreno	Chief Executive Officer	Los Tranvías de Zaragoza
Egle Sime	Chief Executive Officer	LTG CARGO
Róta Jakubauskienė	Chief Executive Officer	LTG Infra
Joan Sentís	Sales Director	Lubritec, S.A.
Amen Mukhlis	Senior Director Engineering & Construction	M.T.A. New York City Transit
Lola Ortiz Sánchez	General Director of Planning and Mobility Infrastructure	Madrid City Council
Victor Ruiz	President	Mafex
Pedro Fortea	General Director	Mafex
Garazi Carranza Ruiz de Loizaga	Head of Innovation	Mafex
Ainara González	Head of Trade Policy and Institutional Relations	Mafex
Patricia Lasheras	Head of Mkt and Communications	Mafex
Aitor Ballesterro	Head of Business Development and Strategic Intelligence	Mafex
Oihane de la Rúa Losada	R&D Project Engineer	Mafex
Olazt Amorortu Gervasio	R&D Project Manager	Mafex
Marianito Zocco	Technical Director	Mercitalia Intermodal
Carlos Miranda De Larra	Responsible for the Project Service and Operational Support	Metro de Madrid
Fernando Morales	Coordinator of Systems & Engineering of Critical Infrastructures	Metro de Madrid
Ignacio Vázquez	Chief Executive Officer	Metro de Madrid
Isaac Centellas	Head of Division	Metro de Madrid
David Blázquez Díaz	Coordinator of Continuous Improvement	Metro de Madrid
Ana Rodriguez	Signalling Engineering Coordinator	Metro de Madrid
Pilar García Carbonell	Manager of the Human Resources Division	Metro de Madrid
Juan Tébar	Chief Operating Officer	Metro de Madrid
Jorge F. Blanquer Jaraiz	Responsable Area de Obras, Infraestructuras y Accesibilidad	Metro de Madrid
José Miguel De Frutos	Director Engineering And Maintenance	Metro de Málaga
Jorge Maroto Gómez	Managing Director & O&M Director	Metro de Sevilla
Taner Bahadır	Senior Project Manager	Metro Istanbul
Peter Cushing	Former Alliance Director	Midland Metro Alliance
Andy Harrison	Founder	MiM
Manvendra Singh	Group General Manager; S&T & Chief Information Security Officer	National Capital Region Transport Corporation
Neil Robertson	Chief Executive Officer	National skills academy for rail
Dimitri van Zantvliet	CISO	Nederlandse Spoorwegen
Ilse de Vos-van Eekeren	Program Manager Circular Entrepreneurship	Nederlandse Spoorwegen
David Choda	Principal Engineer, Telecoms	Network Rail
Lisa Constable	Weather Resilience and Climate Change Adaptation Strategy Manager	Network Rail
Toufic Machnouk	Director, Industry Partnership for Digital Railway	Network Rail
Jonathan Hayes	Head of Programme Engineering & Systems Management	Network Rail
Denzel Collins	Energy and Carbon Strategy Manager	Network Rail
Taron Smart	Senior Project Manager R&D	Network Rail
Gareth Evans	Head of Rail Technology	Network Rail
Felcity Osborn	Programme Manager-International Research & Development Partnerships	Network Rail
Andrew Lyle-Carter	Senior Engineer, Fixed Assets Team	Network Rail
Andrew McNaughton	Chairman	Network Rail High Speed
Casey Rutland	Vice Chair	nima
Linda Marie Venbakken	Chief Financial Officer	Norske Tog
Esmé Kalshoven	Ertms Program Director	NS
Tanja Kienegger	Head of Energy Division	ÖBB Infrastruktur
Gregor Fleischmann	Project Office - BIM	ÖBB Infrastruktur
Tarmo Vahemets	Chairman of the Board	Operation Lifesaver Oli
Jonas Karlsson	Chief Executive Officer	Oslo-Stockholm 2.55
Sergio Bárcena	Director of Operations Planning and Maintenance	OUIGO España
Hélène Valenzuela	General Manager	OUIGO España
Vincent Dalbert	R&D Process Engineer Sustainable Resilient Systems	Pandrol
Juan Lazcano	SRS Sales & Marketing Manager	Pandrol SRS
Justus Hartkamp	International Affairs Director	ProRail
Paul Kootwijk	Program Manager Datalab	ProRail
Emilien Dang	Chief Technical Officer and Member of the Management Board	Rail Baltica
Christophe Lemaire	CDO	Rail Logistics Europe
Kristoffer Tamsons	Chairman	Railway Industry Collaboration Council
Leanne Redden	Executive Director	Regional Transportation Authority Chicago
Irene Donaire	Head of Energy Efficiency	Renfe Operadora
Raúl Blanco	Chairman	Renfe Operadora
Valentín Alegria	Director Innovación y Desarrollo Red	Renfe Operadora
Pilar Gortiz Ramon	Head of Innovation	Renfe Operadora
Teresa Torres	Chief Financial Officer	Renfe Operadora
Manel Villalante	Chief Strategy And Development Officer	Renfe Operadora
Stefano Marcoccio	Project Manager, ERTMS Unit	Rete Ferroviaria Italiana
Vera Fiorani	Chief Executive Officer	Rete Ferroviaria Italiana
Gianpiero Strisciuglio	Chief Executive Officer	Rete Ferroviaria Italiana
Fabio Senesi	Head of ERTMS National Program	RFI - Rete Ferroviaria Italiana
Christian Coletta	Managing Director Spain and Chief Sales Officer Europe	RSA Luxembourg
Andy Jones	Risk Consulting Director, UK and Europe	RSA Luxembourg

vantages, is key to the promotion of sustainable mobility. And in this process, it is very necessary to have professionals to help implement new developments, strengthen innovation, and move towards the digitalisation of the industry.

Progress in terms of green mobility is linked to the creation of jobs in all subsectors, as well as the incorporation of new profiles specialised in sustainability, the environment, blockchain, telecommunications, cybersecurity, operators, assistants, new construction modelling methodologies, etc. All of these are fields with great employment prospects, together with human resource management, corporate social responsibility, or digital marketing, among others.

The challenges are multiple, and it is necessary to have professional profiles that contribute their qualities, specialisation, and know-how to the development of the railway.

For this reason, on 1st December the congress agenda will feature several panels where experts from the sector will discuss topics related to talent such as: How to make the railway an attractive sector for employment? And where presentations will be given on the "Key competencies needed by the sector" as well as "Turning the railway into an attractive and diverse professional option for talent".

One of the objectives is to set out the framework for a fruitful collaboration between the railway industry, academic institutions, and governments to attract and retain talent.

In addition, there will be an area where companies will be able to present their employment opportunities and the type of profiles they require to complete their teams.



NOMBRE	CARGO	EMPRESA
Radek Cech	Director of international affairs department	SZ.D.C.
Claudio Büchel	Rail System Expert	SBB
Thomas Gugler	Technology Programme Manager	SBB
Anja-Maria Sonntag	Head Of Digital Transformation	SBB Cargo
Manuel Hermann	Stakeholdermanagement and Regulation	SBB Cargo
Joaquim Daura	Energy & Sustainability Services	Schneider Electric España
Martina Tomé	Power Systems VP	Schneider Electric España
Jordi Fernandez	Solutions Architect	Schneider Electric España
Federico Zenith	Senior Scientist	SINTEF
Barbara Grau	Head of European and International HR Affairs	SNCF
Valentin Barreau	Project Manager for Tech4rail Localisation	SNCF
Etienne Kuntzel	Project Manager, OCORA	SNCF
Adrien Gharios	Navigation System Architect	SNCF
Léa Loucas	BIM Manager and Head of a BIM and 2D Synthesis Unit	SNCF Reseau
Alain Quinet	Chief Operating Officer	SNCF Reseau
Alexis de Pommerol	Line Director	Societe Du Grand Paris
Peter Verlic	Chairman	South East Europe Strategic Alliance for Rail Innovation (SEESARI)
Hans Cruse	Director	Spårvagnsstäderna
Pablo Juan	area sales manager	Stadler Rail
Maximilian Lopez	area sales manager	Stadler Rail
Jack Schneider	Head of EU Standardisation ATO & CCS Onboard	Swiss Federal Railway, SBB AG
Sonja Rühl	Project Manager	Swiss Federal Railway, SBB AG
Andreas Wenz	Technical Project Manager Localisation	Swiss Federal Railway, SBB AG
Massimiliano Rizzato	International Telecom Standardisation Manager	Swiss Federal Railway, SBB AG
Jaime Teresa Lanza	Regional Sales Manager UK, Ireland and France	Talgo
Mercedes Izarra	Directora Planificación, Calidad y Logística	Talgo
Sonia Miguel	Transport Solutions Product Manager	Teltronic
Sean Willis	Managing Director	Terrapinn Holdings Ltd
Gemma Salazar	VP Strategy, Marketing & Communication, Technical and Innovation	Thales
Cristina Merino	ERTMS Verification Engineer	Thales España
Clemente Nuñez	ERTMS Operation Manager	Thales España
Andy Nichols	Senior Lecturer in Water Engineering & General Engineering Course Director	The University of Sheffield
Martin Fenner	Director	Tilt Consulting
Carlos Jiménez Pérez	Director del area de Organizacion y Personas	TMB
Ulrika Geeraerts	Director New Main Lines	TRAFIKVERKET
Wojciech Bartelski	Chief Executive Officer	Tramwaje Warszawskie Sp Zoo
Idolia Galindo	Chief Executive Officer	Transfesa Logistics
David Barnett	GM Engineering	Translink
Matthew Krech	Chief, Rail and Aviation RD&D	Transport Canada Innovation Centre
Matej Zakonjssek	Director of Permanent Secretariat	Transport Community
Glynn Barton	Chief Operating Officer	Transport for London
Nicola Small	City Region Sustainable Transport Settlement (CRSTS) Programme Director	Transport for West Midlands (TFWM)
Jessica Outeiriño	Directora de Planificación Estratégica de Metro	Transports Metropolitans De Barcelona
Oscar Playà Velasco	Director General Red de Metro	Transports Metropolitans De Barcelona
Jordi Micas Pedescoll	Director Mantenimiento Y Proyectos	Transports Metropolitans De Barcelona
Paolo Masini	Head Of Rolling Stock Technology And System Engineering	Trenitalia
Jose Cordovilla	Director of Infrastructure Advisory Services	Typsa
Ralf Charley Schultze	President	U.I.R.R.
Melissa Shurland	Program Manager Rail Energy, Emissions and Engine Technology Research	U.S. Department of Transportation
Pierre Tane	Head of Digital Modelling	UIC
Frédéric Henon	Head of Operations & Safety	UIC
Dan Mandoc	Head of FRMCS	UIC
Sandra Gehenot	Director Freight	UIC
Marta Garcia	Technical Affairs Manager	UNIFE
Ana Manuelito	Public Affairs Manager	UNIFE
Patricia Nieto Esteban	Knowledge management consultant	Université de l'ingénierie
Achila Mazini	Industrial Fellow	University of Birmingham
Rabee Jibrin	PhD Researcher	University of Birmingham
Mani Entezami	Senior Research Fellow	University of Birmingham
Angela di Febbraro	Professor of Transportation Engineering	University of Genova
Nirdosh Gupta	Joint General Manager	Uttar Pradesh Metro Rail Corporation
Dania Abdulwahab	Business Development Manager	Vector Informatik GmbH
Mark Gibbs	Global Market Director – Train Networks	Westermo
Philipp Langer	Head of Metro Operations Support	Wiener Linien
Shandha Louis	Director of Engagement & Continuous Improvement- Community Services Bureau	WMATA

An agenda with all the current issues

FROM DIGITAL TRANSFORMATION TO FREIGHT TRANSPORT, RAIL LIVE! 2023 WILL ANALYSE IN DETAIL THE MOST CURRENT ISSUES IN THE RAILWAY SECTOR, SUCH AS:

ENERGY AND CLIMATE RESILIENCE

The railway is a very sustainable mode of transport due to its ability to move large numbers of people and the use of renewable energies. However, challenges remain around diversifying energy efficiency, choosing materials and adapting to changes caused by

climate change. The "Energy and Climate Resilience" part of the congress will address key issues around decarbonisation, climate resilience and adaptation strategies, the circular economy and energy diversification in the railway sector.

DIGITAL TRANSFORMATION

Digital Transformation will encompass the key digital products and innovations that continue to push the boundaries of the railway industry for better, more efficient and cost-effective performance.

From the latest uses of GIS and digital twin that revolutionise railway infrastructure projects to new predictive maintenance capabilities that give us greater insights. The key

topics of this part of the congress agenda will be "Digital Twins" and the creation of large-scale models, current and future GIS case studies, emerging infrastructure and building technologies, development of predictive maintenance capabilities, accessing and making the most of Big Data, promotion of digital innovations in the railway, drone and satellite technology and railway digital tracking technology, among others.

MEGAPROJECTS AND FINANCING

The progress of the railway around the world continues strengthening steadily. Proof of this are the large investments being made to expand passenger and freight transport. Rail Live! It will dedicate a series of specific sessions to the mega projects currently underway on

several continents. The new and innovative financing models being implemented by institutional investors to ensure the necessary funds are accessible to the railway will be explored, while learning the details of some of the largest projects and best practices.

INFRASTRUCTURE

Railway infrastructures are under great pressure to optimise their capacity and reliability while reducing costs. The new technologies, advancements in materials and industry solutions make it possible to talk about smart infrastructures. The weight of all these developments will be elaborated on in a wide range of presentations within Rail Live! An extensive topic that covers aspects such as innovations in track assembly, turnouts for freight trains or real-time monitoring with artificial intelligence (AI).

SMART MOBILITY

Smart cities are starting to become a reality. The use of information technologies (IT) and communications (ICT) allow to interconnect all services and processes and also to ensure their energy, environmental, economic and social sustainability. Discovering the future of mobility, active travel, MaaS and multimodal travel will be situations that the attendees will be able to enjoy at this summit.

METRO AND LIGHT RAIL

Metro and light rail systems are part of the backbone of sustainable mobility in cities. As they grow and expand, their importance in ensuring ease of access and convenience is increasing.

The congress will analyse how these systems can be made more accessible and integrated with other modes of transport to encourage the use of public transport over private vehicles.

FREIGHT

To reach net-zero emissions, the freight transport sector urgently needs to increase the use of rail and intermodal solutions. The congress will explore solutions to the main challenges, as well as the technology, regulation, business planning and collaboration.

SPANISH SYMPOSIUM

The Spanish symposium is an opportunity for the national public to learn first-hand about the projects and areas of innovation of the collaborating entities participating in Rail Live. Each entity organises interactive sessions in which it involves the entire supply chain to showcase the most relevant and pioneering issues in the Spanish railway sector, as well as its organisations.

CYBERSECURITY

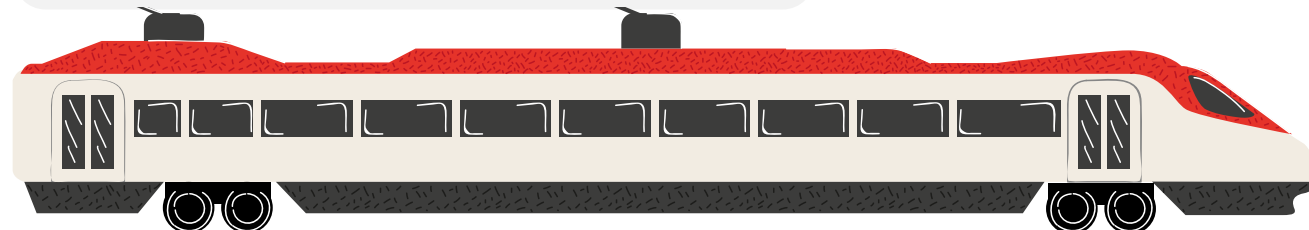
Safety has always been a priority of the railway industry. Today, this priority has expanded far beyond the physical and into the digital realm. The safety, security and cybersecurity summit will explore a holistic view of

safety to discuss how the railway can be guaranteed as the safest method of travel thanks to the track and level crossing safety, staff training and management, and the new cybersecurity directives, among other topics.

SIGNALLING

State-of-the-art railway controls and innovative signalling systems are at a crucial moment in their development. The roll-out of ERTMS and of cutting-edge signalling and telecommunications systems, which aim to revolutionise track capabilities, continues to accelerate, while

the industry debates how best to work towards interoperability. The space dedicated to signalling and train control will present key case studies and a long-term vision to help us understand what the future of train signalling and control looks like.



Mafex will organise two "Innovation Tours" and will moderate the "area of innovation projects" of different consortia

In order to give visibility to the technological capabilities of the Spanish railway sector, Mafex will organise guided tours of the participating stands so that interested companies can showcase their product, prototype, technological solution or innovative service and present it to the audience. An itinerary will be prepared so that anyone interested can attend as a visitor. A tour that aims to highlight the value of the innovation ecosystem of the sector and that will take place on the 30th at 10:30hrs and 15:00hrs.

On the other hand, Mafex will present and moderate an area of "Innovation Projects" so that entities can disseminate its results.

It will be used to present the results of ongoing innovative projects in 10-minute intervals during the 29th and the 30th of November from 14:30hrs to 16.00hrs.

Innovation Zone

The exhibition has its own Start-up Village where the railway leaders of the future can be met. In this edition, Rail Live! will support the development of innovation and SMEs in the railway sector by inviting the event to showcase its solutions to more than 100 leading companies that are revolutionising the industry. The startup launch zone will enable to hear about these initiatives and what their solutions, technologies and ideas could do for the different organisations that are part of the event.



INNOVATION TOUR 1

Te invitamos a conocer las capacidades tecnológicas del sector ferroviario español de la mano de los expositores.

INNOVATION TOUR 1. Inicio 10.30 h	
Horario	PONENTES
10.20-10.30	MAFEX: punto de encuentro
10.35-10.40	CEIT
10.45-10.50	ALSTOM
10.55-11.00	SICE
11.05-11.10	TELOAT
11.15-11.20	TVPSA
11.25-11.30	INECO
11.35-11.40	TELTRONIC
11.45-11.50	ARCELORMITTAL
11.55-12.00	CAF
12.05-12.10	VOESTALPINE RAILWAY SYSTEMS



INNOVATION TOUR 2

Te invitamos a conocer las capacidades tecnológicas del sector ferroviario español de la mano de los expositores.

INNOVATION TOUR 2. Inicio 15.00 h	
Horario	PONENTES
14.50-15.00	MAFEX: punto de encuentro
15.05-15.10	SENER
15.15-15.20	ELECTRANS
15.25-15.30	ABB
15.35-15.40	MAINRAIL
15.45-15.50	CITEF
15.55-16.00	GMU
16.05-16.10	INDRA
16.15-16.20	VIRLAB
16.25-16.30	THALES



Find out more about all the activities and services we have prepared for 2022 to promote Internationalization, Competitiveness and Innovation.

mafex@mafex.es | 00 34 944 706 504



An exhibition with the most cutting-edge solutions in the industry

Rail Live! 2023's exhibition area comes loaded with new features. This is an area where the world's railway industry leading solution providers come together. A meeting point for attendees to learn first-hand about the latest technological advancements, as well as the wide and specialised range of solutions and products that will respond to the demands required by the new transport systems, manufacturers of rolling stock and auxiliary industry and companies in the world of telecommunications, signalling and safety.

This broad exhibition highlights the industry's great commitment to R+D. This year more than 250

MORE THAN 250 EXHIBITORS FROM ALL SUBSECTORS OF THE RAIL CHAIN WILL ATTEND THIS YEAR.



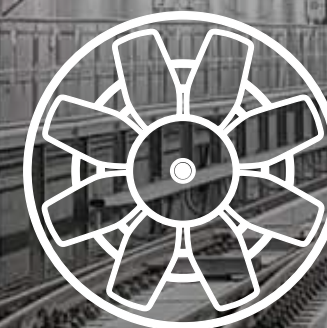
exhibitors from all subsectors of the rail chain will be present, including civil engineering, construction, track innovation, new

tools, rolling stock and construction companies.

Zitrón

SOLUTIONS FOR TUNNEL VENTILATION

Innovation and technology for underground ventilation systems



High efficiency
designs

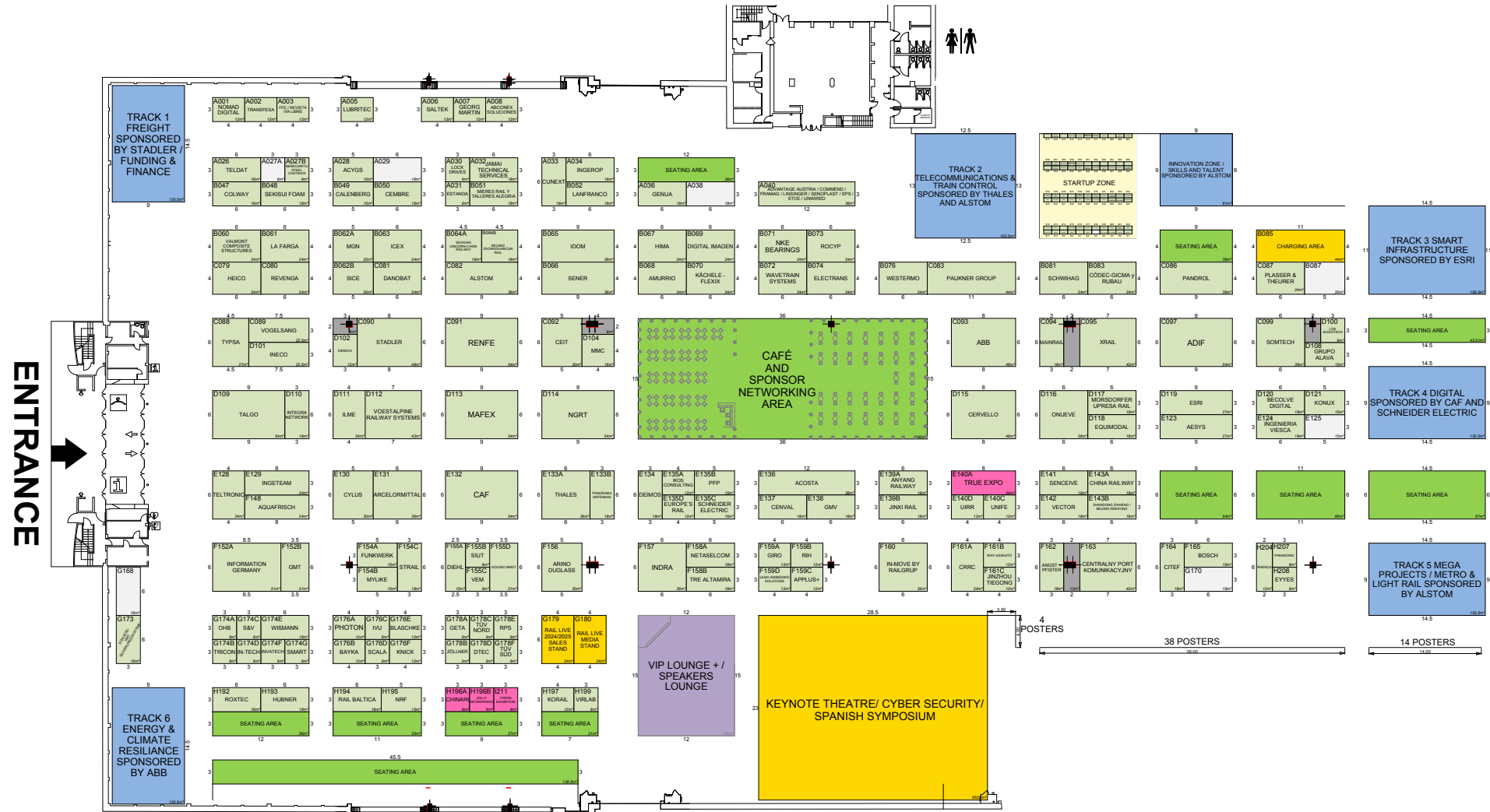


Operation
and control



Turnkey
solutions

HEADOFFICES: Autovía AS-II No.2386, Polígono Rocas, 33211 Gijón (Spain)



Mafex is among the represented exhibitors having its own stand, number D113. In this space it will showcase the extensive activity carried out in terms of representation, support, and promotion of a leading industry, which is a benchmark in the world.

COMPANY	STAND	COMPANY	STAND	COMPANY	STAND	COMPANY	STAND	COMPANY	STAND	COMPANY	STAND
12CM	H197	CITEF	F164	GETA	G178A	LATTICE	S48	PTV	F160	STCE	A040
3D SPARK GMBH	S38	CÓDEC OBRAS, SERVICIOS Y PROYECTOS, S.L.	B083	GICMA	B083	LDA AUDIO TECH	D100	RAIL LIVE 2024/2025 SALES STAND	G179	STRAIL	F154C
4D PIONEERS	S67	COLWAY INDUSTRIAL	B047	GIRO INC.	F159A	LENZ LABS	S49	RAIL LIVE MEDIA STAND	G180	TALGO	D109
ABB	C093	COMMEND	A040	GMT GUMMI-METALL-TECHNIK GMBH	F152B	LINSINGER	A040	RAIL SYNC	S22	TALLERES ALLEGRIA	B051
ABCONEX	A008	CONROO GMBH	S8	ELEKTRO-THERMIT GMBH & CO. KG (A GOLDSCHMIDT COMPANY)	F155D	LOCK DRIVES // LOCKANTRIEBSTECHNIK	A030	RAILWAY ACADEMY	S64	TANINE	H197
ACOSTA INGENIEROS SL	E136	CONSEQUENCE	S33	GREEMKO	S1	LUBRITEC	A005	RAILWAY INNOVATION HUB	F159B	TECHONBOARD	S6
ACYGS	A028	CONTRAIL MACHINERY	B079	HADRIAN	S44	MACHINERIC	S29	RB RAIL AS	H194	TEKMON	S63
ADIF	C097	COSMOS ENGINEERING SL	C097	HANNING & KAHL	F161A	MADIT	S52	RECARBON	S2	TELDAT	A026
ADVANTAGE AUSTRIA	A040	CRRC	C081	HEICO FASTENERS, S.A.U.	A033	MAFEX	D113	RECLOSED	S62	TELXAI	E128
AESYS SPA	E123	CUNEXT COPPER INDUSTRIES	A033	HIMA PAUL HILDEBRANDT GMBH	B067	MAINRAIL	C094	RELESOFT	S21	TENNDERS EUROPE SL	S30
ALAVA INGENIEROS	D108	CYLUS CYBERSECURITY	E130	HOVERING SOLUTIONS	S23	MECHATNOM	S59	RELOG3P	S13	THALES	E133A
ALEIOS	S24	DANOBAT	C081	HUBNER	H193	MEDIA MICROCOMPUTER S.L.	D104	RENF	C091	TRAFAG	F160
ALLREAD MACHINE LEARNING TECHNOLOGIES	S28	DATUUM.AI	S56	HYPERTUNNEL	E134	MGN TRANSFORMACIONES DEL CAUCHO, SA	B062A	REVENGA SMART SOLUTIONS	H204	TRANSFESA	A002
ALSTOM	C082	DEIMOS	E134	HYPERVISOR GROUP	S53	MIERES RAIL S.A.	B051	RHENUS WAREHOUSING SOLUTIONS	B073	TRE ALTAMIRA SLU	F158B
AMURRIO FERROCARRIL Y EQUIPOS SA	B068	DELTAVISION GMBH	S46	MIIVO MOBILITY	S57	MOBIF	S5	ROCCY CONSTRUCCIONES	H192	TRICON	G174B
ANGOKA	S12	DENEVA	D102	MOBITO	B063	MOBITO	S4	ROXTEC ESPAÑA	H192	TRUE NORTH RAIL LTD	S58
ANGST+PFISTER	F162	DETEKTIA	S68	MOIŽ	B065	MONIRAIL LTD	S15	RAIL POWER SYSTEMS	G178F	TÜV NORD	G178C
ANSITEC	F160	DEVELOPAIR	S40	MONIRAIL LTD	D111	MOSDORFER UPRESA RAIL SAU	S19	RUBAU	B083	TÜV SÜD	G178F
ANYANG RAILWAY	E139A	DIEHLAVIATION GILCHING	F155A	INDRA	F157	MYLIKE	D117	SCALTEK	A006	TYPSA	C088
APPLUS+	F159C	DIGITAL IMAGEN	B069	INECO	D101	NANOSTINE	F154B	SCALA MESSZEUGE	G176D	UIRR	E140D
AQUAFRISCH SL	F148	DILAX	F160	INFORMATION GERMANY	F152A	INGENIERIA VIESCA	S47	SCHLIESS- UND SICHERUNGSSYSTEME GMBH	G173	ULMA EMBEDDED SOLUTIONS	F159D
ARCELORMITTAL COMERCIAL PERFILES ESPANA, S.L	E131	DIRECTRAINS	S50	INGEROP T3 SLU	A034	INGETEM POWER TECHNOLOGY S.A	D114	SCHNEIDER ELECTRIC SPAIN SAU	E135C	UNIFÉ - THE RAIL SUPPLY INDUSTRY ASSOCIATION	E140C
ARINO DUGLASS	F156	DRIVETRUST	S16	IN-TECH	B074	IN-MOVE BY RAILGRUP	E129	SCHREY & VEIT	B081	UNWIRED	A040
ASOCIACION ESPANOLA DE TRANSPORTE	A038	ELECTRANS	B074	INTEGRA NETWORK	D118	INDEX	A001	SEKISUI FOAM INTERNATIONAL	B048	USYNCR	S45
AXO	S42	ENLIL	A031	INVATECH	D119	IN-TECH	B071	VAPAR	E141	UTECH	H197
BAYERISCHE KABELWERKE AG	G176B	ENRAIL	S61	INTEGRA NETWORK	D118	IN-TECH	B071	VECTOR	B066	VIA LIBRE	E142
BEIJING RDEKONO	E143B	EPTS LTD	S69	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	VEM	A040	VIRLAB	F155C
BEIJING ZHONGGUANCUN RAIL	B064B	EQUIMODAL	D120	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	VIA LIBRE	E143B	VOESTALPINE RAILWAY SYSTEMS GMBH	A003
BELCOVE DIGITAL	D120	ESRI	D119	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	VOSSLOH FASTENING SYSTEMS	S39	WARP VR	H199
BERECIARTU STEEL CASTINGS	A027B	ESTANDA	A031	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	WAVETRAIN	G174G	WAY ASSAUTO	D112
BILDA	S37	ESTOKO	S32	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	WESTERMO	S26	WILHELM WISSMANN GMBH	B076
BLASCHKE UMWELTECHNIK GMBH	G176E	EUROPE'S RAIL	E135D	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	WINDHOFF	C099	ZOLLNER SIGNAL	G174E
BOSCH ENGINEERING GMBH	F165	JINXIE AXLE	H208	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118	XREAL	A040		C095
BRIC	A027A	JINZHOU TIEGONG	A040	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118		C090		
CAF	E132	KACHELE - FLEXIX, S.A.	S51	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CALENBERG INGENIEURE GMBH	B049	KNICK ELEKTROISCHE MESSGERÄTE	F154A	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CEIT	C092	KORAIL	E138	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CEMBRE	B050	KOREA UNIVERSITY	A036	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CENVAL, S.L.	E137	LA FARGA	A007	INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CERVELLO	D115			INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				
CHINA RAILWAY	E143A			INTEGRA NETWORK	D118	INTEGRA NETWORK	D118				



ASEA BROWN S.A. (ABB)

► Stand C093

ABB participates in Rail Live 2023, the benchmark event for the global railway sector. At its stand C093, the multinational company will show its new electrification, traction systems and energy storage for railway transport.

ABB has a long history in the sector providing innovative and energy-efficient technologies, manufacturing and servicing components and subsystems in urban, interurban, and high-speed networks for railway infrastructure and rolling stock; and providing full lifecycle service support for our large global installed base.



ABB

✉ comunicacion.corporativa@es.abb.com

AMURRIO FERROCARRIL Y EQUIPOS, S.A.

► Stand B068

Amurrio is a global leader in design and manufacture of complete rail turnouts for all types of applications: High Speed, conventional rail, Urban Rail or Heavy Haul.

Since 1880, it has developed a knowledge and expertise that allows it to approach a large project with hundreds of links or a specific problem that requires an innovative solution with the same efficiency. Amurrio has its own foundry and specializes in the design and manufacture of monobloc crossings molded in manganese steel, which delivers flash butt welded to rail in their own facilities.



amurrio
ferrocarril y equipos, s.a.

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☎ +34 945 891 600

ACYGS SALES MANAGEMENT, S.L.

► Stand A028

ACYGS supplies and integrates equipment for railway maintenance workshops, construction machinery and track maintenance; being exclusive distributors in Spain of top-level manufacturers for any type of need in the railway sector. ACYGS provides global solutions to public and private clients. In addition, ACYGS offers engineering services to define and manage railway workshop projects,

- Feasibility studies
- Definition of workshop equipment
- urnkey projects
- mprovement of technical maintenance instructions
- Design and optimization of the layout (BIM) and workflow in maintenance workshops
- Design and manufacture of railway tools
- Certification of track machinery in the RFIG



ACYGS

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APPLUS+ LABORATORIES

► Stand F159C

Applus+ Laboratories a division of the Applus+ Group, provides testing, certification and development engineering services for a wide range of industries. In the railway sector, Applus+ Laboratories conducts operational stress measurements; electromagnetic compatibility (EMC) testing; environmental testing for onboard electronic components; the characterization of rolling stock; and fire reaction and resistance testing.

From bogies, complete railcars and onboard electronics; to seats and bulkheads, they provide support to ensure that all railway components meet the highest quality and safety standards.



Applus+
laboratories

✉ info@appluslaboratories.com

☎ +34 93 567 20 00

ALSTOM ESPAÑA

► Stand C082

At Rail Live! 2023, Alstom Spain will showcase its commitment to sustainable, smart, accessible, safe and efficient mobility. Both in the booth and in the conference area, the company will explain how it applies the latest technologies (artificial intelligence, data analytics, virtual reality, IoT, etc.) to develop new solutions.

In addition, as event's talent partner, Alstom reinforces its commitment to job creation, diversity, training and the development of a corporate culture that puts people at the heart of the business. Alstom is the only company in its sector with the triple Top Employer accreditation, at Spanish, European and Global level.



ALSTOM
- mobility by nature -

✉ javier.hinojal-calvo@alstomgroup.com

☎ +34 609 825 776

AQUAFRISCH, S.L.

► Stand F148

Aquafrisch: a leading manufacturer of machinery for railway workshops and drinking, waste and industrial water treatment on all five continents.

Aquafrisch is a family-owned company founded in 1996. In the beginning, Aquafrisch was only dedicated to water treatment and, like all companies, after the first steps, it started to make its way. Gradually we entered the railway sector and in particular in the area of washing / maintenance of rolling stock and knowing the customer's needs first-hand.

Today Aquafrisch is consolidated as a manufacturer of machinery for workshops and water treatment equipment.

Our products range from train washing systems, bogie washing cabins, watertightness gantries, sand dispensers...

We have spread all over the national territory and we have a solid presence in international markets, exporting almost 90% of our production.



Aquafrisch

✉ pmartinez@aquafirsch.com

☎ +34 608 112 384

ARCELORMITTAL

ArcelorMittal as a leading rail producer, offers a wide portfolio of solutions for railways, subways, tramways, light-rail tracks, crossings, crane rails and rail components. We complete our offer with special products such as cathode bars, track shoes and mining sections.

We are involved in designing rail-based solutions as: low carbon grades for tramway, new hardness grades for heavy haul and RailCor ® products, a new range of corrosion-resistant rails.

ArcelorMittal is committed to leading our industry's efforts to decarbonize, with a further ambition to be carbon neutral by 2050.



✉ cristina.alvarez-suarez@arcelormittal.com

☎ +34 649 408 739

► Stand E131

CAF

CAF is one of the international leaders in the design and supply of comprehensive transportation 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 and concessions and comprehensive systems.

In terms of rolling stock, CAF designs, supplies and maintains high-speed trains, regional and commuter units, locomotives, metros and tramways.

Today, the company is present in more than 55 countries around the world and has a workforce of more than 14,000 people.



✉ caf@caf.net

☎ +34 943 88 01 00

► Stand E132

ARIÑO DUGLASS

Ariño Duglass is one of the first independent European companies fully dedicated to the design, manufacturing and distribution of glass.

Extensive experience that commenced in 1952 and customer trust along the years, has put us at the forefront, placing the group amongst the elite in the sector.



✉ duglass@duglass.com

☎ +34 976 108 008

► Stand F156

CAF POWER & AUTOMATION

CAF Power & Automation is a global reference in the design and manufacture of railway systems. A technological subsidiary of the CAF Group, it develops solutions for traction, control and communication, and on-board energy accumulation, which are integrated in railway vehicles in 32 countries.

Therefore, it has a broad background, in which research, innovation and the desire to excel are constants.

The company has a workforce of more than 300 multidisciplinary employees specialised in power electronics, automation and communications, distributed in the headquarters in San Sebastian, Irura and Madrid, as well as in the commercial offices in India.



✉ info@cafpower.com

☎ +34 943 309 251

► Stand E132

BUREAU VERITAS INSPECCIÓN Y TESTING (GRUPO BUREAU VERITAS)

Bureau Veritas is a world leader in Testing, Inspection and Certification (TIC), with nearly 80,000 professionals present in 140 countries.

As an entity of recognized prestige in the railway sector, Bureau Veritas is:

- NoBo for Interoperability Directives.
- DeBo for Notified National Regulations.
- ISA/AsBo accredited for all subsystems.

Bureau Veritas offers TIC services in the field of Cybersecurity for multiple sectors, in particular the railway sector, through its CoE in the Netherlands, under the main cybersecurity standards, being the outstanding world leader in certification according to ISO/IEC 62443.



✉ infoesp@bureauveritas.com

☎ +34 91 270 22 00

► Virtual booth

CAF SIGNALLING

CAF Signalling is the technological subsidiary of the CAF Group dedicated to the design, development, manufacture, supply and maintenance of Railway Signalling Systems, providing integral signalling solutions in infrastructure and rolling stock, both in Spain and internationally.

It has the capacity and in-house engineering to undertake "turnkey" railway signalling projects, being recognised as such in different railway administrations in Spain and in other countries in Europe, America, Africa, the Middle East and Asia.



✉ informacion@cafsignalling.com

☎ +34 943 80 55 75

► Stand E132

CAF TURNKEY & ENGINEERING

We are the CAF Group business unit which manages the development of comprehensive projects for sustainable mobility infrastructures. We design, build and integrate high capacity and performance transport systems under the turnkey scheme.

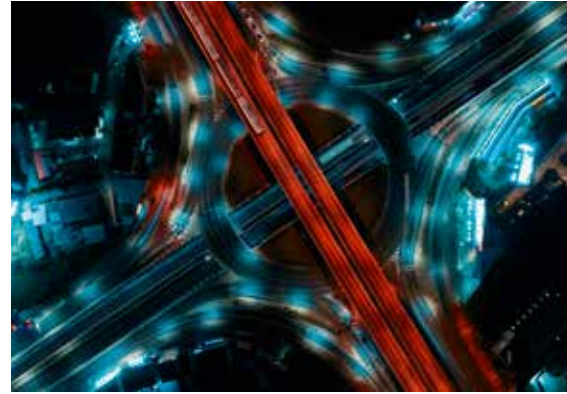
We are distinctive for working with an agile and streamlined process that spans the entire project life cycle, from the planning and requirements definition to the operations, tuning and maintenance phase, optimizing resources and providing tailor-made solutions. We boast an international multidisciplinary team which covers all the needs and requirements that these types of projects entail, thereby allowing us to guarantee the turnkey solution that best adapts to each case.

✉ info@cafte.com

☎ +34 946 819 550



► Stand E132



CEIT

Created in 1982 on the initiative of the University of Navarra, Ceit is a non-profit Technology Centre that uses its high specialisation in advanced manufacturing, mobility, sustainability and information technologies to develop industrial applied research projects in close collaboration with companies.

With more than 20 years of experience collaborating with companies in the railway sector, is a leader in the development of cutting-edge technological products and services as well as in activities that include system design, modelling, experimental characterization, development and validation.

✉ infoceit@ceit.es

☎ +34 943 21 28 00



► Stand C092



COLWAY FERROVIARIA, S.L.

COLWAY Ferroviaria is specialized in toilet modules, interiors and special projects and refurbishment of rolling stock.

For WC modules we offer development, validation and supply of complete STD and PRM modules, in compliance with the TSI.

For interiors and special projects, we offer solutions for the entire interior and for special components such as restaurant and particular seats, PRM or comfort areas or sleeping cabins.

For refurbishment, we offer complete interior and exterior modernization of our clients' coaches at our facilities or customer premises

✉ jlperalta@colwayferroviaria.com

☎ +34 93 414 65 12



► Stand B047



CUNEXT

Cunext Group, in the way to continuous development, has created an entire cable product range for overhead line electrification, adapting at any speed from local transport to high speed line.

Our modern technology, together with a wide experience at cable and alloy manufacturing, makes us the best partner for railway companies offering best product quality and service.

✉ albert_servalls@cunext.com

☎ +34 600 98 16 05



► Stand A033



DANOBAT

DANOBAT, manufacturer of rolling stock maintenance equipment and solutions, has consolidated its international presence on four continents in 2023.

At the European level, DANOBAT has installed the first automated wheelset manufacturing line that outputs a fully assembled wheelset every 4 minutes. In addition, DANOBAT was awarded three underfloor wheel lathes -two of them tandem versions- for RENFE's new maintenance shops in Fuencarral and La Sagra.

In Asia and North America, the world's leading train manufacturers, Alstom and Siemens, have again placed their trust in DANOBAT. A special mention should be made for Alstom's megaproject of Tren Maya, for which DANOBAT will supply three underfloor wheel lathes. Finally, in Australia, DANOBAT will supply an underfloor wheel lathe for freight trains to SCT Logistics, including two types of heavy-duty diesel-electric locomotives.

This geographical diversification has enabled Danobat to strengthen its international positioning in the railway market.

✉ ouria@danobat.com

☎ +34 605 775 223



► Stand C081



ELECNOR DEIMOS

Elecnor Deimos is the technological subsidiary of the Elecnor Group that operates in the railway transportation sector, information and telecommunications systems, space, aeronautics and defense.

In the railway sector, Elecnor Deimos is responsible for the development and evolution of passenger information platforms and remote station management. In addition, the company is specialised in delivering comprehensive turnkey projects as well as the development, implementation, and maintenance of these systems.

✉ tra.all.deimos@elecnor.es

☎ +34 918 06 34 50



► Stand E134



ELECTROSISTEMAS BACH, S.A.

► Stand B074

Electrans is leading innovation in the railway industry since 1977. Electrans stands out for developing its own product line, always being at the technology forefront.

Our long and successful career path has led us to become a key player in Railway Signalling, particularly in the field of level crossing protection solutions, signals and LED lighting and train detection.

Maximum commitment on each project. Our capacity for adaptation is our biggest asset. Today, the systems developed by Electrans are found in service around the world, becoming an international reference in the industry.



✉ info@electrans.es

☎ +34 935 74 74 40

ELECTRANS

FUNDICIONES DEL ESTANDA

► Stand A031

Specialized in high-performance Steel Casting and Machining; through our extensive know-how and automated facilities.

Long-standing Expertise in steel Brake Discs for the High Speed Train. As well as Undercarriage components, Coupling systems, Suspension spring supports and axle boxes. Our customer portfolio includes Knorr-Bremse, Alstom, CAF and Talgo.

Specific Sector Certifications: IRIS, Deutsche Bahn HPQ, and ISOs. Capacity of parts between 10 and 2,000 kg, in any steel alloy, including heat-treatments and painting. Founded in 1953, we are more than 200 workers and more than 18,000 tons.



✉ pcajaraville@estanda.com

☎ +34 943 880 500

ESTANDA

FLEXIX

► Stand B070

KÄCHELE-FLEXIX develops, manufactures and sell worldwide ANTI-VIBRATION, INJECTION and EXTRUSION RUBBER PARTS, rubber-metal, rubber-plastic, special elastomers and assemblies.

We produce in Germany and Spain at the highest levels of technology, with flexible, innovative processes and sustainability focus, to increase our competitiveness, quality and value.

Our products for the RAILWAY SECTOR, are mainly for infrastructures, for absorption of vibrations: unions for sleepers, pads under track, with different stiffness for the same geometry, materials with non-conductivity characteristics (or yes, if necessary), non-harmful gases (for closed spaces as tunnels), for different rail configurations.



✉ flexix@flexix.com

☎ +34 944 977 180

**FX
FLEXIX**

GMV

► Stand E138

At the next 2023 edition of the Rail Live fair, GMV will present its new developments in intelligent systems for transportation, where it has a long international history. GMV will present its EMV ticketing and account-based ticketing systems for rail transport.

Advanced fleet management systems will also be present with the SAE-R product, present in a large number of clients and constantly evolving. Without forgetting the onboard systems, both passengers information systems and onboard video surveillance or public address and intercom systems.



✉ comercial-its@gmv.com

☎ +34 983 546 554

gmv

ICON MULTIMEDIA

► Stand D102

ICON Multimedia, a manufacturer of Digital Signage software and Passenger Information Systems. Our innovative DENEVA technology enables railway companies to provide real-time information to passengers and operators, enhancing efficiency and the travel experience.

With over 30 years of experience, ICON Multimedia is a trusted partner that delivers tailored tools to optimize communication in stations and trains. Our commitment to innovation, mobility, and adaptability positions us as a prominent player in the modernization of railway transportation, offering effective and appealing solutions to our clients.



✉ adelrio@iconmm.com

☎ +34 979 70 29 06

**ICON
MULTIMEDIA**

IDOM | Consulting, Engineering, Architecture

► Stand B065

We have a strong track record in the planning, design, development, delivery, and management of rail and public transportation systems. We offer a wide range of services to a diverse clientele, guiding projects from initial conception, through development, regulatory approvals, construction, commissioning, and providing ongoing operation and maintenance support. We aim to provide innovative and sustainable rail engineering solutions that improve the safety, efficiency, and reliability of our clients operations.



✉ info.rail@idom.com

IDOM

INDRA

► Stand F157

Indra is one of the leading companies in the railway sector. Its state-of-the-art end-to-end solutions are at the global forefront of the sector and have been chosen by countries such as Australia, Holland, Ireland, Estonia, Lithuania, Saudi Arabia, Mexico, Colombia, Argentina, India and Spain, among others.

Indra continues to evolve its advanced technology with the aim of taking advantage of all the benefits of CiberRail IoT, satellite ERTMS, big data and Artificial Intelligence to turn the train into the center of the new mobility ecosystem and put it at the service of the traveler.



✉ ammorenob@indra.es

☎ +34 916 271 260

indra

INGEROP T3

► Stand A034

INGEROP T3 is an engineering company specialising in the transport, mobility and city sectors that has been operating in Spain since the 1990s. It has offices in Madrid, Barcelona, Granada and Seville.

In the transport sector, we offer a complete range of services for all guided transport modes, whether rail (metro, tram, high-speed train, conventional line, tram-train) or non-rail (bus and high service level bus, cable transport, etc.).

We support the latest innovations in electromobility, automation and autonomy of transport modes.



✉ info@ingerop.es

☎ +34 917 584 899

INGEROP
Inventamos el mañana

INECO

► Stand D101

Experts in engineering and consultancy in sustainable mobility and digital transformation.

For 55 years, Ineco has been developing comprehensive, innovative and technological solutions which have allowed to advance towards a safer and more sustainable model of mobility. Ineco's solutions directly contribute to improving the quality of life of millions of people.

With a multidisciplinary team of 5,500 employees, the company is present in all the continents, in which it deploys its experience and capacity to undertake challenging projects. All this, thanks to its specialized knowledge and the implementation of state-of-the-art technology.



✉ ineco@ineco.com

☎ +34 914 511 200

ineco

INGETEAM POWER TECHNOLOGY, S.A

► Stand E129

Our Rail Live stand is intended to be a meeting point where you can interact with the Ingeteam team, who will be happy to give details about the latest projects carried out in the railway area: traction systems and converters for high-speed vehicles, locomotives and EMUs/ BEMUs.

We will also show the latest power modules developed and incorporated into INGETRAC converters. Today, we have supplied more than 700 electric and hybrid train sets, bringing our know-how to make rail transport more sustainable.



✉ traction@ingetteam.com

☎ +34 944 039 600

Ingeteam

INGENIERA VIESCA

► Stand E124

Ingeniería Viesca is a Spanish power electronics company that develops and manufacture a wide range of innovative custom-built high efficiency power electronics equipment, especially for railway applications.

Since our foundation in 2004 by a group of engineers with wide experience in this field, Research, Development and Innovation have been of paramount importance for us. Performance, reliability and quality are present in our solutions, among others:

- Auxiliary converters
- HVAC inverters
- Battery chargers
- Transformers
- Power supply cabinets
- Traction converters for historical vehicles



✉ comercial@ingenieriviesca.com

☎ +34 918 830 865

**ingeniería
VIESCA**

LA FARGA

► Stand B061

LA FARGA is your partner for the development of sustainable copper solutions.

In this edition RAILLIVE! 23 Introducing the first 100% recycled copper contact wire with the lowest carbon footprint on the market and generating a positive impact on society.

The solution for a circular and low-carbon future. An innovative product with the highest standards of quality and efficiency. Cordially invite you to round-table discussion on CIRCULAR ECONOMY IN THE RAILWAY SECTOR.

NOVEMBER 30TH, 2023 at 15 p.m

Chaired by experts from LA FARGA, ALSTOM, SCHNEIDER ELECTRIC, IRISH RAIL and MAFEX.

Discover more www.lafarga.es and LINKEDIN



LA FARGA
yourcoppersolutions

☎ +34 938 50 41 00

LANDER SIMULATION & TRAINING SOLUTIONS

► Stand E132

Lander is dedicated to the manufacture of customized driving simulators for professional drivers in the automotive and railway segments.

We work with multiple types of clients such as public organizations, railway operators, passenger transport, cargo, track machinery, emergency organizations, airport managers, railway infrastructure managers, driving schools, etc.



✉ iesteban@landersimulation.com

☎ +34 629 966 158



MGN TRANSFORMACIONES DEL CAUCHO, S.A.

► Stand B062A

MGN was established in 1957 and since then it has been developing its activity both designing and manufacturing rubber-metal components, mainly for the railway industry.

MGN invests in research and innovation as a basis for the development of elements to be adapted in the new understanding of passenger and freight trains, taking the latest technological advances of the rubber world, vibration control and damping systems. - Primary and secondary suspensions. - Conical springs - Bushes and spherical bearings - Rods, Bogie subsystems - Pivot Bushes - Elastic Supports - Compression buffer and Draw Gear springs - Bellows, Gangway protections - Profiles, o-rings and seals.



✉ enp@mgnciaucho.com

☎ +34 91 887 40 35



MAFEX

► Stand D113

Mafex is the Spanish Railway Industry Association. Its main objective is to serve the railway industry and defend the general interest of its 119 current members. All this through the implementation of initiatives in strategic intelligence, foreign promotion, trade policy, sector forums, working groups, R&D project office, innovation, talent, institutional relations, marketing and communication. To do so, Mafex relies on the experience and prestige of the Agex Group Federation of which it is a member.

Mafex is also an active member of CEOE and UNIFE in addition to actively collaborating with the main public and private entities both national and international in the sector.



✉ mafex@mafex.es

☎ +34 944 706 504



MIERES RAIL, S.A.

► Stand B051

Mieres Rail S.A. is specialized at the design and manufacturing of railway turnout systems for Metro, conventional railways (up to 200 km/h), High Speed (up to 350 km/h), industrial and port lines or heavy haul (up to 36,3 Ton axle load) with may different technical features combining rail profiles and inclinations, gauges, types of sleepers, for ballasted or ballast less tracks, ..., for different operating conditions.



✉ ricardo.corral@mieresrail.com

☎ +34 620 980 237



MAINRAIL, S.L.

► Stand C094

MainRail is a company specialized in the railway maintenance digitalization, with software solutions for asset management, operations management, analysis of data coming from the field and railway inspection equipment, as well as predictive maintenance modules based on AI and physical digital twins.

Our maintenance management software platform, developed with and for the railway sector, is already commercially used on more than 3,200 km of infrastructure and our first predictive models have been validated on 400 km of track.



✉ info@mainrail.com

☎ +34 662 574 768



MOSDORFER

► Stand D117

Activity: Manufacturer of components and systems for railway electrification.

Main products and services:

Catenary insulators, Cantilever fittings, Droppers and connection Clamps, Compensated tensioning devices Tensorex C+, Section insulators, Safety equipments, Tools and measure devices

Activities in the year:

Supply of catenary systems for new installations and maintenances of tramway, conventional and high speed contact lines for international and national projects (Spain, Arabia, Israel, Turkey, Ethiopia, Tanzania, México, Perú, Ecuador, Bolivia, Norway, Sweden, Lithuania). Supply of the compensated tensioning devices TENSOREX® C+ around the world.



✉ david.ramos@mosdorfer.com

☎ +34 914 305 151



NEXT GENERATION RAIL TECHNOLOGIES, S.L.

NGRT is a Spanish company focusing on improving railway safety and efficiency, helping infrastructure managers and train operators to secure their infrastructure and operations.

The NGRT system is a true innovative real-time rail monitoring system identifying any problems/anomalies within the railway infrastructure, such as Broken Rail, Rockslide and Mudslides, Flooding, people and or animals on the track, damages to trains and rolling stock equipment's, securing that 2 trains are not on the same track at the same time, and more. NGRT is called the Game Changer by our clients.



✉ raa@ngrt.org

☎ +34 650 100 801

► Stand D-114

REVENGA INGENIEROS

Revenge Smart Solutions showcases at RailLive 2023 a range of smart mobility technological solutions for railroads (high-speed, medium distance, commuter rail), metros and trams. From railway safety systems to passenger experience, safety and telecommunications systems.

- RailXcan: Railway inspection systems platform: hot boxes, flat wheel, broken rail detection, etc.
- RailRox: State-of-the-art SIL-4 level crossing protection system.
- XThings: Energy & Power remote control platform.
- RT2P: Real-time payment and operations management platform.



✉ marketing@revenga.com

☎ +34 918 061 810 - +34 620 844 817



► Stand C080

NRF

Since 1927 NRF is a leading manufacturer and supplier of cooling products for the automotive market, industrial, railway and marine sector. NRF is known for the production of high quality radiators, but also produces and supplies a large range of other engine cooling and air conditioning products.

NRF has global engineering, testing and development facilities. Railway and ship manufacturers, large retailers of vehicle parts, radiator shops and specialists in more than 80 countries worldwide daily rely on NRF's high quality products.



✉ a.lara@nrf.eu

☎ +34 958 405 030

► Stand H195

SENER

The engineering and technology group Sener participates in Rail Live 2023, presenting its comprehensive services for highly complex railway projects, from the planning phases to design and technical assistance in construction, operation and maintenance.

The company has a portfolio of projects that total more than 15,000 km of railway lines, shortening distances with sustainable and innovative solutions.

For more information about our projects and capabilities, we are at stand B066.



✉ mobility@sener.es

☎ +34 918 077 000



► Stand B066

PATENTES TALGO, S.L.U.

Talgo is a Spanish engineering company with more than 75 years of experience, specialized in designing and manufacturing trains, as well as providing maintenance services to railway operators worldwide.

Today, Talgo is the leading global reference for Spanish High Speed Technology and the number one player in Spain's railway market. Its key success factors are innovation, unique technology, sustainability, safety, competitiveness and tailor-made projects with clear focus on customer.



✉ marketing@talgo.com

☎ +34 916 313 800

► Stand D109

SICE

SICE is a leading multinational company in the integration of technologies for public infrastructure management. It has become an international benchmark in the areas of intelligent transport and mobility, among others. Offering a transversal vision that includes all project phases, SICE develops state-of-the-art integrated solutions and applications based on data science and artificial intelligence technologies.

SICE will be present in space B062B. Visitors will have the opportunity to learn about the cutting-edge solutions that SICE offers in key areas such as management, control and monitoring of railway infrastructures, or communications, ticketing, security and passenger information systems.



✉ clopez@sice.com-janguita@sice.com

☎ +34 916 232 200 - +34 916 232 200



► Stand B062B

STADLER RAIL VALENCIA, S.A.U.

Stadler has been building trains for over 80 years. The provider of mobility solutions in rail vehicle construction, service and signalling technology has its headquarters in Bussnang, Switzerland. It has a workforce of over 13,700 based in various production and engineering locations as well as more than 80 service locations. In Spain, the production and technology centre in Valencia employs more than 2,200 people.

The company is conscious of its social responsibility for sustainable mobility and therefore stands for innovative, sustainable and durable high-quality products. The product range in the field of mainline railways and city transport includes high-speed trains, intercity trains, regional and suburban trains, metros, tramways and tram-trains. Stadler also manufactures main-line locomotives, shunting locomotives and passenger carriages. It is the world's leading manufacturer in the rack-and-pinion rail vehicle industry.

✉ stadler.valencia@stadlerail.com

☎ +34 961415000



STADLER

► Stand C090

TELTRONIC

Teltronic provides complete wireless communications solutions for transport sector, satisfying the most demanded needs in matters of voice and data, including integration with signalling applications and other railway subsystem.

The Spanish company offers TETRA, 4G/5G, as well as TETRA + broadband hybrid solutions. Its systems meet the levels of availability and safety required by mission-critical users and are designed to improve the efficiency and safety of operations.

With more than 100 transport communication systems deployed, its portfolio provide integrated solutions: communications infrastructure, onboard radio equipment, user consoles, portable and mobile radios, and Integrated Command & Control.

✉ sales@teltronic.es

☎ +34 686 688 058



teltronic

► Stand A026

THALES

A reliable player for green transport on rail

As a trusted partner, we support the transition to the digitalization and sustainability of our customers. Our cutting-edge technology boosts the most energy-efficient way to transport citizens and goods.

In this way, we share the path towards zero net missions as a real contributor actor.

lan, specifically for the fulfilment of SDG 10 on reducing inequalities.

✉ comunicacion@urbanandmainlines.com

☎ +34 912 737 200



THALES
Building a future we can all trust

► Stand E133

TEL DAT

Teldat is a European company that specializes in the design, development and manufacture of connectivity and cybersecurity solutions for businesses. Founded in 1985, the company has become a leading global provider in the telecommunications industry.

Teldat provides solutions with strong focus in Rail technologies (Cybersecurity, AI, LTE, 5G, satellite and Wi-Fi 6). Teldat has a high presence in train manufacturers and transport operators in worldwide projects (New Zealand, Australia, High speed trains in Spain, Saudi Arabia, trams in Israel) to name some of them.

Teldat will exhibit its latest cybersecurity and communications solutions for rolling stock applications.

✉ ctovar@teldat.com

☎ +34 686 688 058



Teldat

► Stand A026

TRAFAG ESPAÑA, S.L.

Trafag: Innovation, reliability, quality.
Innovation in design, long-term technical reliability and Swiss quality.

Manufacturer and distributor of railway solutions. From pressure, temperature, speed and level sensors to software platforms for vibration monitoring or predictive maintenance.

Application analysis, competitive prices for complete projects, logistical flexibility and quick response in the after-sales phase make us an ideal partner for the different companies in the railway sector. From rolling stock manufacturers to maintenance companies and operators, as well as subsystem manufacturers, we can collaborate with all of them, contributing our know-how and service.

✉ Ivan.blanco@trafag.es

☎ +34 667 843 260

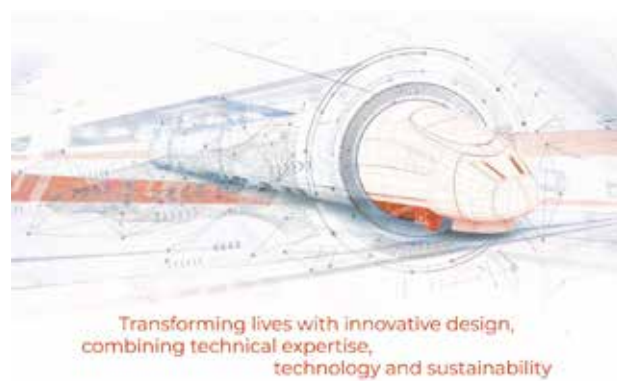


trafag
sensors controls

► Stand F160

TYPSA

TYPSA is a leading transport consulting engineering Group delivering value through innovation, technology and sustainability. It has extensive experience in the planning, design, project management and construction supervision of urban mobility, high speed and conventional railway projects globally, and it is the partner of choice in large and complex projects, such as Toronto Metro, Sydney Metro, UK HS2, New Yavatmal-Nanded railway line in India and Dar es Salaam-Mwanza railway line in Tanzania. It has 3,400 staff spread in the five continents and applies the highest management, integrity and quality standards.



✉ iferguson@typsa.com

☎ +34 680 449 528



► Stand C088

voestalpine Railway Systems JEZ

voestalpine Railway Systems is the global market leader for railway infrastructure system solutions. As the global track technology company and full-range supplier, we offer our customers throughout the world fully integrated railway solutions for all types of rail traffic.

We help our customers creating maximum benefit from our premium product and service portfolio for rails, turnouts, signaling and monitoring applications – this is the driving force behind all our activities. We ensure the highest availability with the lowest life cycle costs, we provide PERFORMANCE ON TRACK®.



✉ vaRSJEZ.info@voestalpine.com

☎ +34 946 721 200



► Stand D112

ULMA FORJA S.COOP.

Ulma Forja S.Coop is a cooperative company, part of Ulma Group and specialized in the manufacturing of Forged Components. With more than 50 years of experience and with two production plants (Oñati and Lazkao), we offer forged and machined components of high quality. We produce our pieces forged from a wide variety of materials to meet the different requirements and needs of our customers in many industries.

In the railway sector, Ulma collaborates with companies in the value chain to which supplies forged components in different materials such as carbon steel, aluminium or low alloy, among others.



✉ mlopetegi@ulmaforge.com

☎ +34 670 621 868



► Stand F159D

VOGELSANG

Vogelsang is a specialized in the manufacture of fresh water supply, wastewater disposal and train interior cleaning equipments. The German company has multiple installations around the world.



✉ spain@vogelsang.info

☎ +34 977 606 733



► Stand C089

VIRLAB

VIRLAB is a vibration and shock testing laboratory located in Asteasu (Gipuzkoa) accredited by ENAC (National Accreditation Body).

We test all types of electrical and mechanical equipment, apparatus and instruments: air conditioning equipment, track signals, battery chests, resistor chests, pantographs, converters, circuit breakers, electronic equipment, vending machines, etc. VIRLAB is accredited for the IEC 61373 standard: Railway applications - Rolling stock equipment - Shock and vibration tests (*), among others of wide application in the qualification of equipment both on-board and subjected to the vibrations generated by the passage of the train.



✉ msantianez@virlab.es

☎ +34 943 691 500



► Stand H199

WABTEC

Wabtec is a leading global provider of equipment, systems, digital solutions, and value-added services for the transit and freight rail sectors. Drawing on over 150 years of experience, we are leading the way in safety, efficiency, reliability, innovation, and productivity. Whether its transit, freight, mining, industrial or marine, our expertise, technologies, and people – together – are accelerating the future of transportation.

Our people, with their extraordinary collective talent, vision and experience are our biggest asset and allow us being the technical reference with a continuous effort on reducing our impact on our planet.



✉ jon.amutxastegi@wabtec.com

☎ +34 977 01 10 00



► Virtual booth

Cablescom committed to the SDG's

The 2030 Agenda reached its halfway point in September. Cablescom has been working on this challenge on a daily basis as a member of the United Nations Global Compact in Spain since 2010. To this end, the company maintains a clear commitment to the different Sustainable Development Goals, including those related to gender equality (SDG 5), decent work and economic growth (SDG 8), the reduction of inequalities (SDG 10) and partnerships to achieve the goals (SDG 17). The momentum of all of these has facilitated the creation of new opportunities that have generated remarkable growth.

On September 25, in the framework of the 8th Anniversary of the SDGs, Cablescom joined its celebration and thus showed its commitment to sustainability to continue advancing economic development and social

well-being. IN THE CELEBRATION OF THE 8TH ANNIVERSARY OF THE SDGS, THE COMPANY SHOWED ITS COMMITMENT TO SUSTAINABILITY TO CONTINUE ADVANCING IN ECONOMIC GROWTH AND SOCIAL WELFARE



well-being. From January 2021 to September 2023, the Aragonese company has grown significantly in the number of employees, increasing its workforce by almost 50%, exceeding 300 professionals in 2023. Of this total, 87 are currently women, which means that the number of fe-

male employees has almost quadrupled in recent years. thus favouring their consolidation. In turn, during this same period, 67% of new hires have included particularly vulnerable groups: women, young people under 30 and employees over 45 years of age.

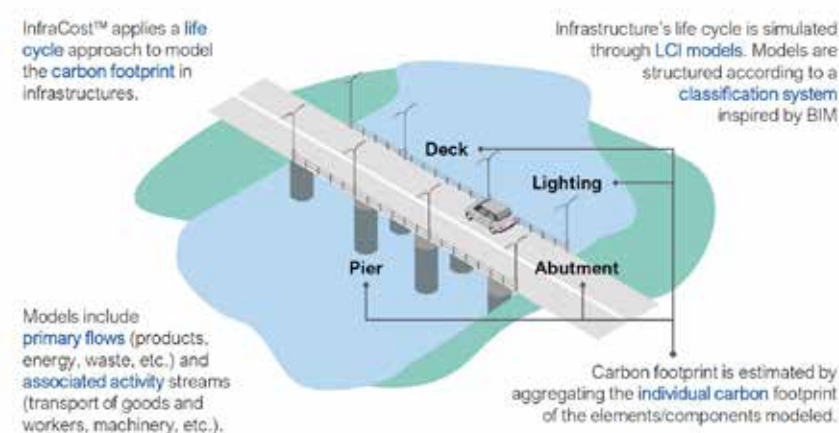
Calculating your project carbon footprint with Infracost

Faced with the growing challenge of limiting carbon emissions, INGEROP has developed its proprietary assessment tool - Infracost - to provide comprehensive GHG (greenhouse gas) assessments for all its infrastructure and public space development projects.

Introduced in 2020, Infracost allows designers to identify critical emission sources and formulate effective decarbonization strategies. Thus, Infracost transcends mere carbon accounting by embracing a proactive carbon management approach. Subsequently, it obtained certification from the 'Bilan Carbone®' Association in 2021.

How does Infracost work?

Infracost is a data-driven solution de-



signed to calculate the carbon footprint of your projects. It achieves this through a centralized database constantly updated by our team of experts, ensuring accuracy and reproducibility in the assessment process.

Infracost allows you to import modules representing different project

types. Its modular approach accelerates the carbon footprint modelling while retaining precise control over the most microscopic parameters of the project. Throughout each stage, the user has the flexibility to perform operations on both macro and micro scales, based on the project's progress and available information.

CERTIFER has been awarded with an ECOVADIS silver medal for its ethics and environmental commitment

At CERTIFER Group, our commitment towards sustainability starts by prioritising the issues where our activities have a significant impact and which are the most important to our stakeholders. As a 3rd party organisation, ethics and fight against corruption are our main concern in order to maintain trust of our customers and authori-

ties worldwide. CERTIFER's business is built on our human resources: the expertise and dedication of our employees are the cornerstones of our reputation as a trusted partner in supporting our clients' projects.

Our CSR objectives therefore focus on these "material" topics: ethics, anti-corruption, safety, well-being and development of our employees' skills.

As a consequence of our commitment and actions towards ethics and environment, CERTIFER has been awarded with an ECOVADIS Silver medal in 2021. We will continue to integrate sustainability considerations into every aspect of our operations. By doing so, our everlasting goal is to participate in building a safer and a more sustainable world.



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Alstom Foundation projects in Spain and Portugal

ALSTOM FOUNDATION WILL SUPPORT 'WOMEN IN ACTION', A TRAINING AND SELF-EMPLOYMENT PROJECT AMONG WOMEN AT RISK OF SOCIAL EXCLUSION IN THE AREA OF LISBOA. IN ADDITION, A NEW CAMPAIGN WILL BE CARRIED OUT IN MADRID, BARCELONA AND BIZKAIA AS PART OF THE 'PLASTIC BEINGS' ENVIRONMENTAL AWARENESS PROGRAMME.

Founded in 2007, the Alstom Foundation supports and finances projects proposed by Alstom employees and developed in partnership with local NGOs. The Foundation's projects revolve around 4 axes: access to mobility, environmental protection, access to energy and water, and socio-economic development. For this latest edition, the Foundation's Board of Directors received 240

proposals from 44 countries. Of these, the Foundation will fund 36 projects, two of which promoted by Alstom employees in Spain and Portugal

Entrepreneurship for women at risk of social exclusion in the Lisbon area

In the district of Loures, near Lisbon, the Alstom Foundation will support the "Women in Action"

project, developed with the Portuguese NGO Ajuda em Ação. This initiative, which aims to promote self-employment among women at risk of social exclusion, will set up a training school in sewing and tailoring techniques, as well as business management workshops and courses.

Environmental education for plastic reduction

In Spain, Alstom Foundation will support an environmental education programme developed by Vivo Sano Foundation to raise awareness among children, families and teachers about the problems caused by plastic waste. The project has an estimated direct reach of more than 2,200 students, 430 teachers and around 2,000 families.



TYPSA obtains ENAC accreditation for safety inspections of railway applications

TYPSA has successfully completed the accreditation as an inspection body for safety in railway applications in the control, command and signaling subsystem, in accordance with the criteria established in ISO/IEC 17020:2012

This accreditation allows TYPESA to assess and evaluate the risk of railway application projects based on common safety methods (CSM) and to evaluate railway application projects as an independent safety assessment body (ISA) based on CENELEC regulations.

ISA evaluators carry out an independent assessment of the suitability of both the application of the risk management process and its results,



in accordance with CENELEC regulations (EN50126, EN50128 and EN50129). Obtaining this accreditation, in the face of the demanding requirements of ENAC, demonstrates that TYPESA technicians have a solid knowledge in the referenced regulations and are contributing to the improvement of railway safety

in line with target 9.1 of SDG 9 for the development of safe, sustainable, resilient and quality infrastructure. This effort has resulted in the creation of a new railway safety department specialised in the practical application of this accreditation and with a clear growth potential in Spain and internationally.



We are CERTIFER A global presence

For 25 years, CERTIFER provides certification, inspection, Audit and support in testing services in railway, guided transportation and beyond.

21 locations

50+ countries with projects undertaken

25 years of expertise in railway testing, inspection and certification

650+ experts from all railway sectors

220+ employees worldwide

20 languages spoken



Testing
Inspection
Certification

Railway Transportation
Urban Mobilities
Hoisting, Piling & Lifting Equipment

Volunteers from the Thales Transport area on Corporate Solidarity Day

Organised by the organisation Cooperación Internacional, this day aims to promote and facilitate the social participation of companies through corporate volunteering. In 2023, 440 volunteers joined this initiative in 9 Spanish cities.

Thales promoted a leisure activity in Madrid with children and young people with intellectual disabilities from an association of people with special educational needs (Asociación Madrileña de Personas con Necesidades Educativas Especiales (AMPNEE)).

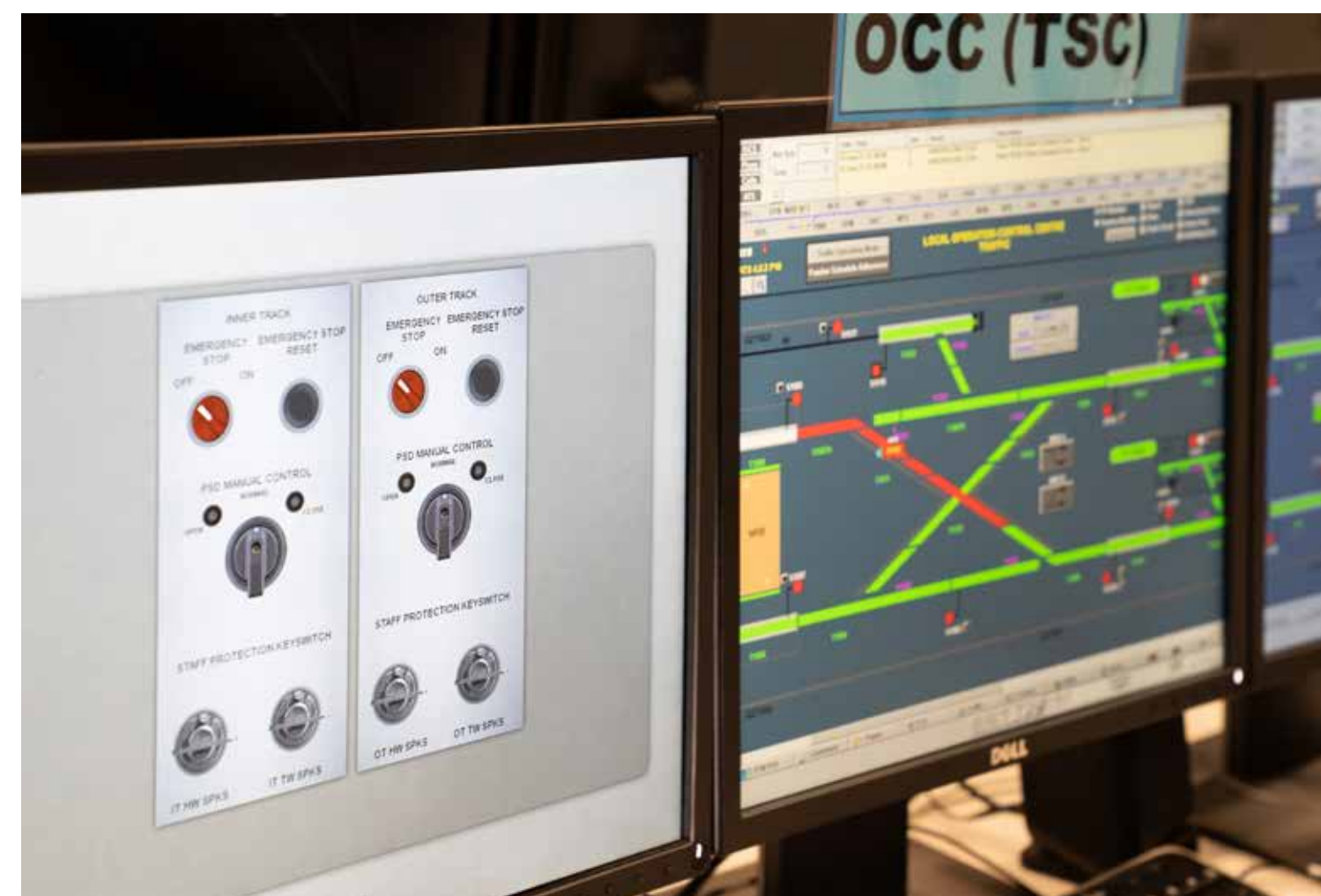
The volunteer team shared a morning last October at the skiing and other sports facilities in Xanadu, where they enjoyed cooperative activities and games.

Since 2007, the Companies Solidarity Day has seen the collaboration of 191 companies, almost 11,000 volunteers, 165 charities and more than 51,900 direct participants.

Corporate Solidarity Day contributes to the SDGs of zero hunger, reduced inequalities and partnerships for the goals.

This action is part of the different initiatives of the company's Corporate Social Responsibility plan, specifically for the fulfilment of SDG 10 on reducing inequalities.

CORPORATE SOLIDARITY DAY CONTRIBUTES TO THE SDGS OF ZERO HUNGER, REDUCED INEQUALITIES AND PARTNERSHIPS FOR THE GOALS.



ETS acquires training simulators for railway traffic controllers

LANDER is always committed to helping companies in the region improve. It was a privilege to be able to start with railway simulation with Euskotren, to go out to the rest of the world with train, metro and tram driving simulators, in a growth process that has taken LANDER to the five continents.

On this occasion, they are working again in their homeland to implement one of the railway simulation solutions that has been incorporated into LANDER, and that they have already successfully installed in other countries. These are simulators for the Basque Railway Network track management company, ETS,

THESE ARE SIMULATORS FOR THE BASQUE RAILWAY NETWORK TRACK MANAGEMENT COMPANY, ETS, WITH WHOM LANDER IS DEVELOPING ITS FIRST TWO SIMULATION CLASSROOMS FOR THE TRAFFIC CONTROL CENTERS OF BIZKAIA AND GIPUZKOA.

with whom LANDER is developing its first two Simulation Classrooms for the Traffic Control Centers of Bizkaia and Gipuzkoa. A project that is also the first to be developed with simulators exclusively dedicated to the training of personnel in a railway control center.

Previously, LANDER already marked a new milestone with collaborative training technology between train drivers and railway controllers, where training aspects as important as communication is key.



Rail technologies meeting the steepest of challenges on Pilatus Bahn

Pilatus Bahnen, operator of the world's steepest cogwheel railway with a gradient of up to 48 percent, has put a new, more energy-efficient fleet of eight railcars and one freight car into operation at the popular Swiss mountain.

Thanks to ABB's energy-efficient traction converters, the new rack-

and-pinion railcars consume 30 percent less energy than the previous generation. During braking, the electrical energy generated is fed back into the grid and available to use for the ascent.

This works in the way that motors serve as generators that convert the kinetic energy into electricity, which

flows back into the overhead line via traction converters, instead of converting the braking energy into waste heat.

The custom-designed ABB traction converter solution is compactly housed in a single enclosure. Two traction converters are installed underneath each train unit.

Neoaballast: new sustainable, high performance and extended durability aggregate for railway infrastructures

Neoaballast is an innovative and sustainable solution for high performance and extended durability railway ballast. Composed of conventional ballast aggregates coated with an advanced binder and rubber powder from end-of-life vehicle tyres, this new material has technical, environmental and economic advantages.

Benefits include less degradation, better energy dissipation and load distribution, better noise and vibration performance, less need for aggregate extraction from quarries, recycling of end-of-life vehicle tyres and less need for maintenance, leading to an overall reduction in life-cycle costs. Neoaballast is an ideal solution for railway tunnels with

limited gauge, urban areas with noise and vibration problems, areas of high track stiffness or transition zones, as well as geographical areas with a shortage of high quality ballast, among other applications.

Neoaballast is the result of an innovative initiative that began in 2011

and which, after years of research, is now in the final phase for its industrial scale-up and market launch. Following the development of the product, pilot tests have been carried out on a section of railway track open to the public owned by Adif and another by Metro de Barcelona, with highly satisfactory results.



Award for the digital transformation of mobility



ALSTOM DIGITAL SERVICES TEAM IN SPAIN RECEIVED THE AWARD IN THE CATEGORY OF 'DIGITAL TRANSFORMATION OF MOBILITY'.

Alstom Spain, leader in smart and sustainable mobility, has been awarded the 'Muévete verde' award organised by the Madrid City Council and the Empresa Municipal de Transporte de Madrid (EMT Madrid), which recognises the best initiatives in sustainable mobility.

Specifically, Alstom Digital Services team in Spain received the award in the category of 'Digital transformation of mobility'. The jury valued the application of new exponential digital technologies (such as IoT, Big

Data, Digital Twins and Artificial Intelligence) in the maintenance of trains to increase the fleet reliability and availability, reduce the energy consumption and improve passenger comfort.

In recent years Alstom has deployed a new Digital Services site in Madrid, where digital tools are used to monitor and analyse urban operators (such as Metro Ligero Oeste, Barcelona Tramway or Murcia Tramway), and high-speed services (such as Renfe or Ouigo).

In its two years of operation, the following milestones, among others, have been reached:

- More than 80 trains/cars are analysed in real time
- More than 100 million pieces of data analysed every hour
- Up to 30% reduction of energy consumption in operation, thanks to the use of energy analysis and eco-driving systems.
- 30% downtime of the fleet, thanks to the prevention of incidents.
- +25% productivity of each train, by reducing maintenance stays.
- +15% extension of equipment lifetime.

IN³ third season

IN³ is INGEROP Group's intrapreneurship program to stimulate the agility and creativity of its employees, driving the organization's approach to innovation. Acclaimed by the group's employees, this program aims to support the creative enthusiasm of the staff, develop various areas of interest and offer its clients high value-added services that represent a breakthrough in the market.

This year, INGEROP T3, the group's Spanish subsidiary, presented "TRACKCASE", an innovation project that, through a sensor case placed inside a train/metro/tram, can detect vibrations, accelerations, speed and position in real time. The analysis of the data obtained from the 24/7 monitoring of different trains of a line aims to optimize the maintenance of these, diagnosing the condition of the rolling stock,

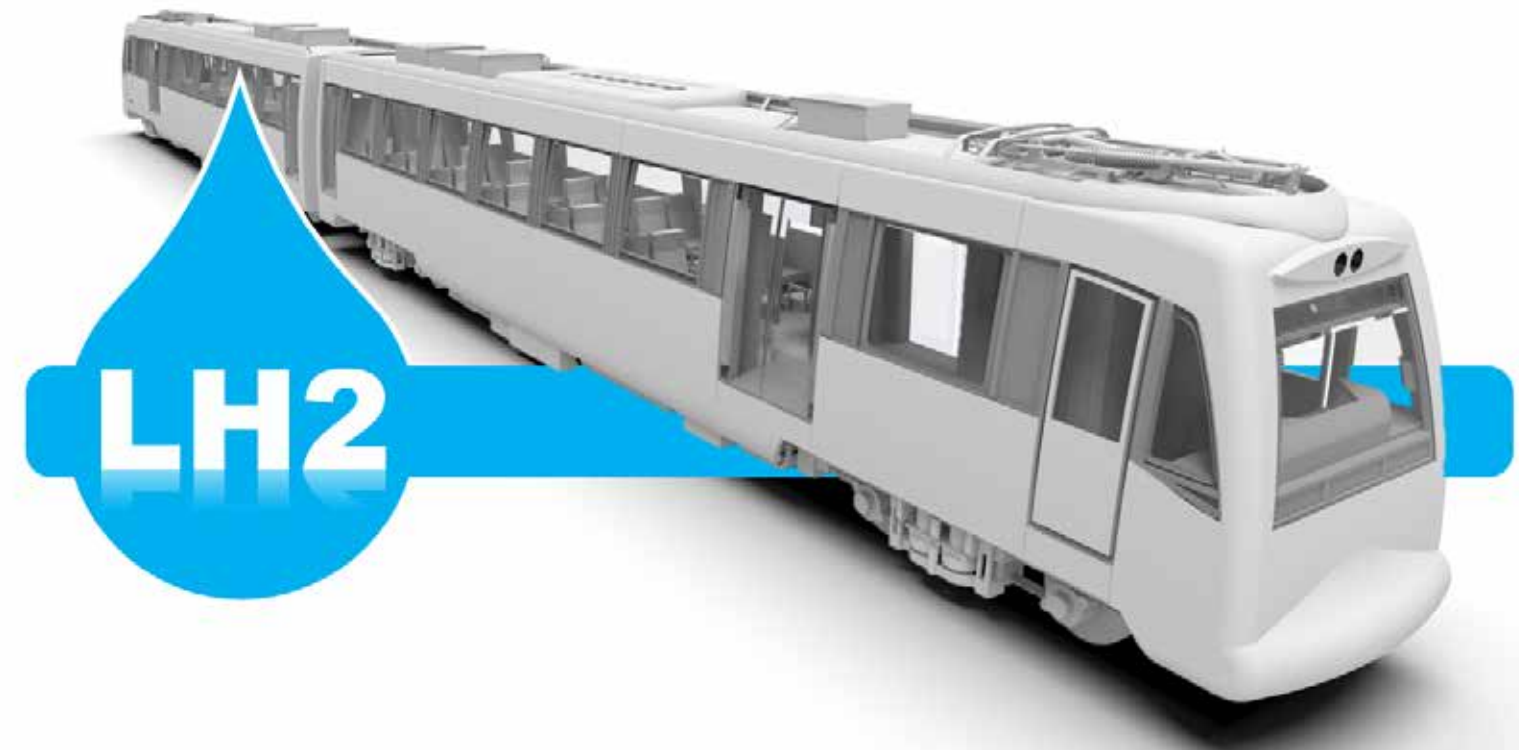
ACCLAIMED BY THE GROUP'S EMPLOYEES, THIS PROGRAM AIMS TO SUPPORT THE CREATIVE ENTHUSIASM OF THE STAFF, DEVELOP VARIOUS AREAS OF INTEREST AND OFFER ITS CLIENTS HIGH VALUE-ADDED SERVICES THAT REPRESENT A BREAKTHROUGH IN THE MARKET.

without having to stop and resulting in the reduction of maintenance costs for operators, maintainers and managers of existing lines.

The idea emerges from an exhaustive analysis of the maintenance plans of railway systems and their strategy. Nowadays, essentially preventive maintenance is followed, in which the manufacturer establishes revision ranges for each part, long before statistics indicate that a failure may happen. This

means that each train will have to stop several times a year and for a long period of time if we consider all parts and all types of inspections. And a stopped train doesn't produce money, opening up a lot of scope for optimization.

With Trackcase we seek to achieve a maintenance that in essence will be predictive, and will mean savings in maintenance for the company, by diagnosing when a revision is really necessary.



H2BIMODO, a pioneering project in the use of liquid hydrogen in passenger trains

One of the biggest challenges posed by hydrogen in the railway sector is the volume needed to obtain an acceptable energy performance. One option for increasing its energy density (and, therefore, increasing vehicle autonomy) is to store the hydrogen in a liquid state, but this involves the need to liquefy it at a temperature of -253°C.

With this handicap as a technical challenge and innovative element, SEGULA Technologies is immersed in a pioneering project at world level derived from the use of hydrogen in its liquid state for railway traction.

This is the H2BIMODO project, a project financed by the European Union

SEGULA TECHNOLOGIES IS IMMERSSED IN A PIONEERING PROJECT AT WORLD LEVEL DERIVED FROM THE USE OF HYDROGEN IN ITS LIQUID STATE FOR RAILWAY TRACTION.

(NextGenerationEU) through the IDAE by means of the programme for the innovative value chain and renewable hydrogen knowledge, within the framework of the "Recovery, Transformation and Resilience Plan" of the Spanish government.

The project consists of transforming a Renfe 436 series (former FEVE 3600) 100% electric self-propelled unit so that it can drive on electrified and non-electrified lines using catenary energy (in the first case)

and a new independent hybrid hydrogen cell and battery system (in the second case).

The project is executed in consortium with RENFE (project leader), Enagas, Tactica TIC, H2Vector, and RENFE Viajeros; and, in it, SEGULA is in charge of the development of all the engineering for the transformation of the rolling stock unit, including the definition, design and integration of the H2 system in the unit as experts in the hydrogen mobility sector.

Train-to-Ground communications over MCX, one step closer to FRMCS

TELTRONIC HAS DEVELOPED COMPLETE MCX PORTFOLIO READY FOR THE FUTURE IMPLEMENTATION OF FRMCS.

The future of train-to-ground communications is irremediably linked to broadband networks. With FRMCS always on the horizon, 3GPP (the body in charge of standardising broadband technologies) continues to work closely with the UIC to define what these communications should be to become the evolution not only for GSM-R deployed in main lines and high speed lines, but ambitioning to be the operational model in mass transit or urban transit too.

In recent years railway operators have begun to consider the evolution of their current networks towards broadband technologies, for all com-

munications needs including critical communications, automatic train control and other added-value applications.

At this point, MCX (Mission Critical Services), which refers to a set of critical communication solutions for broadband networks providing voice (MCPTT), data (MCData) and video (MCVideo) services, as well as the infrastructure supporting these services, plays an absolutely fundamental role. These MCX are being standardised by 3GPP and are, together with 5G, the pillar on which FRMCS will be built.

Teltronic has developed complete MCX portfolio ready for the future

implementation of FRMCS. Firstly, the solution includes private LTE/5G infrastructures, which offer the highest levels of reliability, availability and QoS to deliver mission-critical services.

Secondly, its RTP-800 on board solution is FRMCS ready to manage train-to-ground communications at all times, enabling the integration with other train subsystems: video, PIS (passenger information services), PA (public address), or TCMS (Train Control Management System), among others.

Finally, Teltronic's dispatch solution, NG CeCoCo, integrates the MCX communications in control room together with other networks or applications such as video to provide a powerful solution for controllers of the rail operation.



Use case of data analysis applied to TTC: micro occupations

THE RESULTS HAVE BEEN EXCELLENT, A DRASTIC REDUCTION IN THE NUMBER OF MICRO-OCCUPATIONS HAS BEEN OBSERVED.

A track circuit has the purpose of indicating when there is a train on the section of track in which it is located.

It has been observed that there are instances in which the track circuits are shown as occupied when there has been no train crossing, thanks to graphs that can be visualized in the SAM-TTC (Maintenance Assistance System of Thales Track Circuit) tool. It has been seen that these occupations are small as they last less than a second. Therefore, these types of occupations have been called "micro-occupations", or small occupations.

Some scenarios are highly complex due in part to the fact that the noise level on the track is higher than usual. This noise is what in most cases causes micro-occupancies and has been captured thanks to the high sensitivity of the TTC. Excessive noise can be quite frequent in some circuits and has a negative impact on the day-to-day operation of the installations.

To manage micro-occupations, it has been essential to study how small they are and thus have a threshold to filter them.

An exhaustive data analysis has been made in Python, with real data from three key stations, in which all the necessary factors have been considered to find micro occupations, with the results of this analysis, a file has been created that finds the micro occupations effectively indi-

sidering the time that the TTC has remained occupied without a train crossing.

The data analysis has yielded the information necessary for the update of the TTC's software to allow it to adapt to scenarios with high transient noise. The results have been excellent, a drastic reduction in the number of micro-occupations has been observed.





Innovative proposals for the railway sector: 5G Solutions

Transport operators demand high performance communications and digitalization efforts due to these factors:

- Increasing improvement of their processes to remotely configure and visualize their IT infrastructure.
- Optimization of their services and network security
- New AI mechanisms for data analysis.

In addition to the consolidated H2Rail solution for 4G railway environments that Teldat has on the market, at "Rail Live" we will be presenting our new line of communications equipment. Managed through 5G with embedded security.

H5 rail, the latest generation of routers for high demand and high availability scenarios. It is an in-

TRANSPORT OPERATORS DEMAND HIGH PERFORMANCE COMMUNICATIONS AND DIGITALIZATION EFFORTS.

novative multi-service device that stands out for its wide capacity to support high bandwidth requirements. The equipment supports up to four 5G modules, multi-operator, with Active/stand-by mode due to its dual SIM. All this improves operator coverage, quality of service and connection stability in roaming, also adapting to an eSIM project scenario.

H5 Rail has Wi-Fi 6 that can operate in client mode or Access Point mode to provide service to passengers and solve the demanding cases of train-ground communications. It also includes a modern system for detecting unauthori-

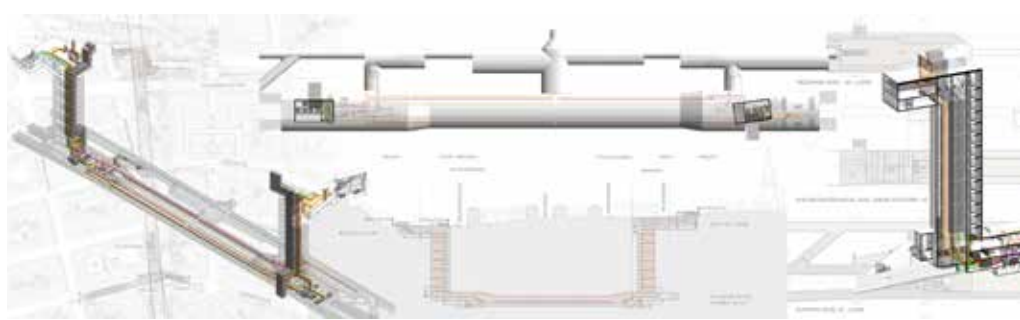
zed access to a network, issuing alerts or logs "Intrusion detection system (IDS). In case needed, it includes an SSD expansion for more data storage.

We will also present the CELER-RAIL, a flexible and compact device optimized for mobility applications. It incorporates all the functionalities of its big brother, the H5 Rail, with the capacity to adapt to scenarios with lower availability or data flow demands. Therefore, this new Teldat equipment supports a 5G module and a Wi-Fi 6 module to manage all communications, with an optimized price.

Use of BIM in tunnels

THIS INNOVATION IMPROVES SUBSTANTIALLY THE MANAGEMENT OF THE DELAY RISKS IN THESE TYPES OF PROJECTS.

The evolution in the use of BIM methodology is facing a series of limitations in the design of tunnels and underground works that are creating uncertainties in the projects. The lack of a tool that is specifically developed for modelling tunnels with total guarantee, and the challenge in managing risks associated with the decision of which modelling tool to use, have led TYPESA to develop a decision-making support solution that offers a coordinated view of the different software (Revit, Aecosim) and alignment tools



(Openroads, Civil3D) available. This solutions allows for well informed decisions and for a better management of the risks associated to the selection of the modeling tool, such as:

- Delay in deliveries due to the difficulty of meeting the requirements established in the contract.
- Delays arising from coordination between disciplines and interfaces, as well as the management of the initial information.

- Delays caused by successive changes resulting from various coordination and revisions.
- Delays caused by the difficulty of obtaining and organising measurements using slow and complicated procedures.

This innovation improves substantially the management of the delay risks in these types of projects. It demands constant training and investigation from out teams, to ensure that the solutions that we offer are in the avant-garde of tunnel design.



MAFEX

Spanish Railway Association

2024

FIND OUT MORE ABOUT ALL ACTIVITIES AND SERVICES WE HAVE PREPARED FOR 2024 REGARDING INTERNATIONALISATION AND COMPETITIVENESS AND INNOVATION

Consolidation and stabilization of the supporting soil of a section of the Milan tramway line

The tram line that crosses a well-known square in Milan had stability problems as it was sinking with the traffic of vehicles and the tram itself.

Uretek was called in to study the case and, thanks to its solution for the consolidation of foundations, was able to solve the problem.

The objective of Uretek's intervention was to consolidate and compact the soil at the base of the sleepers supporting the rails in order to limit vibrations and movement. To this end, a localized treatment was carried out on 6 sleepers on one of the two tracks that cross Piazza XXIV Maggio.

URETEK WAS CALLED IN TO STUDY THE CASE AND, THANKS TO ITS SOLUTION FOR THE CONSOLIDATION OF FOUNDATIONS, WAS ABLE TO SOLVE THE PROBLEM.

The treatment was applied at the base of the track, on the ballast layer and the underlying foundation soil to a depth of 1m below the ballast, to consolidate it and limit possible differential settlements that could compromise the durability and functionality of the structure.

To carry out the intervention, 3 boreholes were drilled in each sleeper and injection cannulas were inserted under the basis of each sleeper to perform the resin injections. A very

fast intervention that was carried out in 4 hours, thus avoiding any inconvenience to the tram traffic.

The entire intervention was monitored in real time to offer the greatest control over it. Track vibration monitoring was carried out by placing two accelerometers, one on the treated track and the other on the adjacent untreated track. Acceleration reduction of between 33% and 76% was recorded at all times. The intervention was a complete success.



IoTTrain: Digitalization and intelligence for railway maintenance

Digitalization and AI are presented as the most powerful tools to transform the maintenance and operation of trains. Why is this so crucial?

- Reducing Unplanned Stops: Digitalization and IoT sensors allow us to know the status of the train in real time, being able to anticipate and prevent breakdowns.
- Maintenance Stop Planning: AI allows precise tracking of the train status and helps plan stops more efficiently, avoiding interruptions in operation
- Reduced Repair Time: Identifying and addressing problems quickly and effectively reduces repair time by improving train availability
- Continuous Improvement in the Train Life Cycle: Collecting

IKUSI, LKS NEXT AND SQS HAVE DEVELOPED IOTTRAIN, AN INSPIRING EXAMPLE OF HOW TECHNOLOGY CAN BE A GAME-CHANGER IN THE RAIL INDUSTRY. IT PROVIDES A SIGNIFICANT IMPACT ON THE OPERATION AND MAINTENANCE OF THE TRAIN, WITH THESE TECHNOLOGICAL OBJECTIVES.

and analyzing real time data enables continuous improvements in the train life cycle

IKUSI, LKS Next and SQS have developed IoTTrain, an inspiring example of how technology can be a game-changer in the rail industry. It provides a significant impact on the operation and maintenance of the train, with these Technological Objectives:

- Development of Predictive Analytics at the Edge
- Development of Prescriptive Analytics in the Cloud
- To Improve the Interaction with the Operator

IoTTrain also seeks to directly impact the economy and sustainability by optimizing resources, extending the life cycle of railway assets and improving maintenance efficiency.

The project has been led by IKUSI, with recognized experience in the railway sector, with the participation of LKS Next, with extensive experience in IT technologies, and Software Quality System, an expert in software testing systems.

“ACTION CO-FINANCED BY THE BASQUE GOVERNMENT AND THE EU THROUGH THE FEDER FUNDS 2021-2027”

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- Mainrail, S.L.
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- Sener Ingeniería y Sistemas, S.A.
- SGS Group Spain
- SQS (Software Quality Systems, S.A.)
- TPF Getinsa Euroestudios, S.L
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- Ineco-Ingeniería y Economía del Transporte, S.A.
- Ingerop T3 S.L.U.
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- Sener Ingeniería y Sistemas, S.A.
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- Trigo Group
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Work supervision

- Aimen Centro Tecnológico
- Ardanuy Ingeniería, S.A.
- Asea Brown Boveri, S.A.
- Caf Turnkey & Engineering, S.L.
- Idom-Engineering, Consulting, Architecture
- Indra Sistemas, S.A.
- Ineco-Ingeniería y Economía del Transporte, S.A.
- Ingerop T3 S.L.U.
- Inse Rail, S.L.
- Job Impulse España
- Segula Technologies España, S.A.U.
- Sener Ingeniería y Sistemas, S.A.
- SGS Group Spain
- Sice Tecnología y Sistemas
- Syneox Rail S.L
- Tpf Getinsa Euroestudios, S.L
- Typsa - Técnica y Proyectos, S.A.
- WSP Spain-Apia, S.A.

Product and process certifications

- ACYGS Sales Management, S.L.
- Aimen Centro Tecnológico
- Applus+ Laboratories
- Ardanuy Ingeniería, S.A.
- Bureau Veritas Inspección y Testing (Grupo Bureau Veritas)
- Certifer Belgorail, S.A. Sucursal en España
- Cetest, S.L.
- Citef (Fundación para el fomento de la innovación industrial)
- Dsaf-Dinámicas De Seguridad, S.L.
- Idom-Engineering, Consulting, Architecture
- Ineco-Ingeniería y Economía del Transporte, S.A.
- S.A.E. Ibertest
- Sener Ingeniería y Sistemas, S.A.
- SGS Group Spain
- SQS (Software Quality Systems, S.A.)
- Trigo Group
- Virlab
- WSP Spain-Apia, S.A.

Drafting of operation and
maintenance (O&M) plans and
transport and demand studies

- ACYGS Sales Management, S.L.
- Aimen Centro Tecnológico
- Ardanuy Ingeniería, S.A.
- Caf Turnkey & Engineering, S.L.
- Citef (Fundación para el fomento de la innovación industrial)
- Mieres Rail, S.A.
- Idom-Engineering, Consulting, Architecture
- Ineco-Ingeniería y Economía del Transporte, S.A.
- Ingerop T3 S.L.U.
- Segula Technologies España, S.A.U.
- SGS Group Spain
- Syneox Rail S.L
- Tekniker
- Tpf Getinsa Euroestudios, S.L.
- Typsa - Técnica y Proyectos, S.A.

Training and simulations tools

- Aimen Centro Tecnológico
- Applus+ Laboratories
- Asea Brown Boveri, S.A.

- Create Human Resources
- HaslerRail (Secheron Hasler Group)
- Ingerop T3 S.L.U.
- Job Impulse España
- Lander
- S.A.E. Ibertest
- Segula Technologies España, S.A.U.
- Syneox Rail S.L
- Tekniker
- WSP Spain-Apia, S.A.

INFRASTRUCTURE AND
SUPERSTRUCTURE

Civil works (platforms,stations, depots)

- Aimen Centro Tecnológico
- Azvi, S.A
- Barbara IoT, S.L.
- Caf Turnkey & Engineering, S.L.
- Comsa Corporación
- Elecnor SyP
- Funor, S.A.
- ICF - Ingeniería y Control Ferroviario
- Imathia Construcción, S.L.
- Inse Rail, S.L.
- Lantania
- Luznor Desarrollos Electrónicos, S.L.
- Sener Ingeniería y Sistemas, S.A.
- Uretrek Soluciones Innovadoras, S.L.U.

Electrification

- Alstom Transporte, S.A.
- Azvi, S.A.
- Asea Brown Boveri, S.A.
- Caf Turnkey & Engineering, S.L.
- Comsa Corporación
- Cunext
- Elecnor SyP
- HaslerRail (Secheron Hasler Group)
- ICF - Ingeniería y Control Ferroviario
- Ingeteam Power Technology, S.A.
- Inse Rail, S.L.
- La Farga Yourcoppersolutions, S.A.
- Lantania
- Mosdorfer Upresa Rail, S.A.U.
- Syneox Rail S.L
- Telice, S.A.
- Valdepinto, S.L.

Infrastructure and superstructure
equipment and components

- Aimen Centro Tecnológico
- Air Rail
- Alstom Transporte, S.A.
- Amurrio Ferrocarril y Equipos, S.A.
- Applus+ Laboratories
- Arcelormittal España, S.A.
- Artech (Electrotécnica Artech Smart Grid, S.L.)
- Asea Brown Boveri, S.A.
- Azvi, S.A.
- Cables de Comunicaciones Zaragoza, S.L.
- Caf Turnkey & Engineering, S.L.
- CEIT
- Comsa Corporación
- Create Human Resources
- Cunext
- Dsaf-Dinámicas De Seguridad, S.L.
- Elecnor Deimos
- ICF - Ingeniería y Control Ferroviario
- Mieres Rail, S.A.
- Flexix, S.A.
- Funor, S.A.

MEMBERS DIRECTORY

- Ikusi, S.L.U.
- Inse Rail, S.L.
- Ladicim
- Lantania
- Llallo
- Mosdorfer Upresa Rail, S.A.U.
- Precon - Prefabricaciones y Contratas, S.A.U.
- Pretensados del Norte, S.L.
- S.A.E. Ibertest
- Salicru, S.A.
- Screensor Tech
- Syneox Rail S.L
- Talleres Alegría, S.A.
- Talleres Zitón
- Tecnival, S.A.
- Telice, S.A.

Track assembly

- Alstom Transporte, S.A.
- Amurrio Ferrocarril y Equipos, S.A.
- Azvi, S.A.
- Caf Turnkey & Engineering, S.L.
- Comsa Corporación
- Create Human Resources
- ICF - Ingeniería y Control Ferroviario
- Imathia Construcción SL
- Inse Rail, S.L..
- Lantania
- Pretensados del Norte, S.L.
- Talleres Alegría, S.A.
- voestalpine Railway Systems JEZ, S..L.

TRAFFIC CONTROL AND SIGNALLING
SYSTEMS, COMMUNICATION,
PASSENGER INFORMATION
AND TICKETING

Traffic control and signalling (safety)

- Alstom Transporte, S.A
- Cables de Comunicaciones Zaragoza, S.L.
- Caf Signalling, S.L.
- Caf Turnkey & Engineering, S.L.
- CEIT
- Create Human Resources
- Endavamientos y Señalización Ferroviaria ENYSE, S.A.U.
- Electrans, S.A.
- HaslerRail (Secheron Hasler Group)
- ICF - Ingeniería y Control Ferroviario
- Ikusi, S.L.U.
- Indra Sistemas, S.A.
- Inse Rail, S.L..
- Luznor Desarrollos Electrónicos, S.L.
- Revenga Ingenieros, S.A.
- S.A.E. Ibertest
- Salicru, S.A.
- Segula Technologies España, S.A.U.
- Sice Tecnología y Sistemas
- Siemens Rail Automation, S.A.U.
- Tecnival S.A
- Teltronic, S.A.
- Telice, S.A.
- Thales España Grp, S.A.U.
- voestalpine Railway Systems JEZ SL

Protection (security) and infrastructure
monitoring

- Alstom Transporte, S.A.
- Azvi, S.A.
- Asea Brown Boveri, S.A.
- Barbara IoT, S.L.
- Caf Turnkey & Engineering, S.L.
- Comsa Corporación

- Create Human Resources
- Dsaf-Dinámicas De Seguridad, S.L.
- HaslerRail (Secheron Hasler Group)
- ICF - Ingeniería y Control Ferroviario
- Indra Sistemas, S.A.
- Inse Rail, S.L..
- Mainrail, S.L.
- Salicru, S.A.
- Segula Technologies España, S.A.U.
- Siemens Rail Automation, S.A.U.
- Telice, S.A.
- Thales España Grp, S.A.U.
- Vicomtech

Systems and equipment for collection,
ticketing and access control

- Asea Brown Boveri, S.A.
- Caf Turnkey & Engineering, S.L.
- Calmell, S.A.
- Comsa Corporación
- Gmv Sistemas, S.A.U.
- Ikusi, S.L.U
- Indra Sistemas, S.A.
- Inse Rail, S.L.
- Revenga Ingenieros S.A
- Salicru, S.A.
- Sener Ingeniería y Sistemas, S.A.
- Sice Tecnología y Sistemas
- Siemens Rail Automation, S.A.U.
- Telice, S.A.
- Vicomtech

Communications

- Azvi, S.A.
- Cables de Comunicaciones Zaragoza, S.L.
- Caf Turnkey & Engineering, S.L.
- CEIT
- Cellnex Telecom, S.A.
- Comsa Corporación
- Elecnor SyP
- Endavamientos y Señalización Ferroviaria ENYSE, S.A.U.
- Gmv Sistemas, S.A.U.
- HaslerRail (Secheron Hasler Group)
- ICF - Ingeniería y Control Ferroviario
- Ikusi, S.L.U
- Indra Sistemas, S.A.
- Inse Rail, S.L.
- Revenga Ingenieros S.A.
- Salicru, S.A.
- Screensor Tech
- Sener Ingeniería y Sistemas, S.A.
- Sice Tecnología y Sistemas
- Siemens Rail Automation, S.A.U.
- Teldat, S.A.
- Teltronic, S.A.U.
- Telice, S.A.
- Thales España Grp, S.A.U.
- Vicomtech

Passenger information and on-board
entertainment systems

- Alstom Transporte, S.A.
- Caf Turnkey & Engineering, S.L.
- Elecnor Deimos
- Elecnor SyP
- Gmv Sistemas, S.A.U.
- Icon Multimedia, S.L.
- Indra Sistemas, S.A.
- Inse Rail, S.L.
- Ikusi, S.L.U
- Revenga Ingenieros, S.A.

- Salicru, S.A.
- Screensor Tech
- Sice Tecnología y Sistemas, S.A.
- Siemens Rail Automation, S.A.U.
- Tecnival, S.A.
- Teldat, S.A.
- Telice, S.A.
- Vicomtech

ROLLING STOCK MANUFACTURERS

High Speed trains (over than 250km/H)
M.R para tráfico de pasajeros alta
velocidad (más de 250km/H)

- Alstom Transporte, S.A.
- Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- Patentes Talgo, S.L.
- Siemens Rail Automation, S.A.U.
- Zeleros

Long distance and regional passengers
trains (up to 250km/H)

- Alstom Transporte, S.A.
- Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- Patentes Talgo, S.L.
- Siemens Rail Automation, S.A.U.
- Stadler Rail Valencia, S.A.U.

Urban and suburban trains

- Alstom Transporte, S.A.
- Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- Patentes Talgo, S.L.
- Siemens Rail Automation, S.A.U.
- Stadler Rail Valencia, S.A.U.

Freight wagons and Locomotives

- Alstom Transporte, S.A.
- Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- Patentes Talgo, S.L.
- Siemens Rail Automation, S.A.U.
- Stadler Rail Valencia, S.A.U.
- Talleres Alegría, S.A.
- Zeleros

Vehicles for infrastructure maintenance

- Alstom Transporte, S.A.
- Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- Patentes Talgo, S.L.
- Siemens Rail Automation, S.A.U.
- Talleres Alegría, S.A.

MANUFACTURERS OF VEHICLE
COMPONENTS, AUXILIARY
EQUIPMENT AND SYSTEMS

Traction and propulsion components

- Aimen Centro Tecnológico
- Alstom Transporte, S.A.
- Ariño Douglass, S.A..
- Artech (Electrotécnica Artech Smart Grid, S.L.)
- Asea Brown Boveri, S.A.
- Caf Power & Automation, S.L.U.
- Flexix, S.A.
- Forging Steel Products, S.L.
- HaslerRail (Secheron Hasler Group)
- Ingeniería Viesca, S.L.
- Ingeteam Power Technology, S.A.
- Mgn Transformaciones del Caucho, S.A.
- Siemens Rail Automation, S.A.U.
- Trafag España, S.L.
- Zeleros

Control, auxiliary and diagnostic systems

- Aimen Centro Tecnológico
- Alstom Transporte, S.A.

MEMBERS DIRECTORY

- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Asea Brown Boveri, S.A.
- ▶ Barbara IoT, S.L.
- ▶ Caf Power & Automation, S.L.U.
- ▶ CEIT
- ▶ Endavamientos y Señalización Ferroviaria ENYSE, S.A.U.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ Gmv Sistemas, S.A.U.
- ▶ HaslerRail (Secheron Hasler Group)
- ▶ Hispacold S.A.
- ▶ Ibérica Tecnología en Sistemas de Seguridad Ferroviarios, S.L. (ITSS)
- ▶ Indra Sistemas, S.A.
- ▶ Ingeniería Viesca, S.L.
- ▶ Ingeteam Power Technology, S.A.
- ▶ NGRT, S.L.
- ▶ NRF España, S.A.
- ▶ Stadler Rail Valencia, S.A.U.
- ▶ Teldat, S.A.
- ▶ Trafag España, S.L.
- ▶ Zeleros

Assembly equipment

- ▶ Agui, S.A.
- ▶ Aimen Centro Tecnológico
- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Asea Brown Boveri, S.A.
- ▶ Barbara IoT, S.L.
- ▶ Danobat, S. COOP.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ Forging Steel Products, S.L.
- ▶ Fundiciones del Estanda, S.A.
- ▶ Funor, S.A.
- ▶ Gurutzpe Turning Solutions S.L.
- ▶ Trafag España, S.L.

Mechanical components

- ▶ Agui, S.A.
- ▶ Alstom Transporte, S.A.
- ▶ Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ Flexix, S.A.
- ▶ Forging Steel Products, S.L.
- ▶ Funor, S.A.
- ▶ Fundiciones del Estanda, S.A.
- ▶ Hispacold, S.A.
- ▶ Metalocauchos, S.L.
- ▶ Mgn Transformaciones del Caucho, S.A.
- ▶ Stadler Rail Valencia, S.A.U.
- ▶ Talleres Alegría, S.A.
- ▶ Trafag España, S.L.
- ▶ ULMA Forja S.Coop.
- ▶ Vogelsang, S.L.U.
- ▶ Zeleros

Interiors

- ▶ Agui, S.A.
- ▶ Ariño Duglass, S.A.
- ▶ Colway Ferroviaria, S.L.
- ▶ Ekide, S.L.
- ▶ Flexix, S.A.
- ▶ Hexis Graphics España
- ▶ Satys Interiors Railway Spain, S.A.
- ▶ Screensor Tech
- ▶ Trafag España, S.L.

Safety

- ▶ Agui, S.A.
- ▶ Alstom Transporte, S.A.
- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Barbara IoT, S.L.
- ▶ Dsaf - Dinamicas de Seguridad, S.L.
- ▶ Endavamientos y Señalización Ferroviaria

- ENYSE, S.A.U.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ HaslerRail (Secheron Hasler Group)
- ▶ Hexis Graphics España
- ▶ Indra Sistemas, S.A.
- ▶ Luznor Desarrollos Electrónicos, S.L.
- ▶ Trafag España, S.L.

MAINTENANCE: EQUIPMENT, MAINTENANCE SERVICES AND REFURBISHMENT**Infrastructure and superstructure maintenance**

- ▶ Aimen Centro Tecnológico
- ▶ Alstom Transporte, S.A.
- ▶ Amurrio Ferrocarril y Equipos, S.A.
- ▶ Azvi, S.A.
- ▶ Barbara IoT, S.L.
- ▶ Caf Turnkey & Engineering, S.L.
- ▶ Caucho Industrial Verdú, S.L.
- ▶ CEIT
- ▶ Comsa Corporación
- ▶ Create Human Resources
- ▶ Elecnor SyP
- ▶ ICF - Ingeniería y Control Ferroviario
- ▶ Imathia Construcción, S.L.
- ▶ Mainrail, S.L.
- ▶ Mieres Rail, S.A.
- ▶ Inse Rail, S.L.
- ▶ Job Impulse España
- ▶ Ladim
- ▶ Smart Motors
- ▶ Trafag España, S.L.
- ▶ Uretex Soluciones Innovadoras, S.L.U.

Rolling Stock maintenance

- ▶ Aimen Centro Tecnológico
- ▶ Alstom Transporte, S.A.
- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Azvi, S.A.
- ▶ Barbara IoT, S.L.
- ▶ Caf - Construcciones y Auxiliar de Ferrocarriles, S.A.
- ▶ Caf Turnkey & Engineering, S.L.
- ▶ Comsa Corporación
- ▶ Create Human Resources
- ▶ Gurutzpe Turning Solutions S.L.
- ▶ Grupo Trigo
- ▶ Hexis Graphics España
- ▶ Hispacold, S.A.
- ▶ Job Impulse España
- ▶ Patentes Talgo, S.L.
- ▶ Siemens Rail Automation, S.A.U.
- ▶ Stadler Rail Valencia, S.A.U.
- ▶ Talleres Alegría, S.A.
- ▶ Talleres Zitrón
- ▶ Vogelsang, S.L.U.
- ▶ Trafag España, S.L.

Maintenance of traffic control and signalling, communications, passenger information and ticketing systems

- ▶ Aimen Centro Tecnológico
- ▶ Alstom Transporte, S.A.
- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Azvi, S.A.
- ▶ Barbara IoT, S.L.
- ▶ Caf Signalling, S.L.
- ▶ Caf Turnkey & Engineering, S.L.
- ▶ Dsaf-Dinámicas de Seguridad, S.L.
- ▶ Electrans, S.A.
- ▶ Elecnor Deimos
- ▶ Elecnor SyP

- ▶ Gmv Sistemas, S.A.U.
- ▶ ICF - Ingeniería y Control Ferroviario
- ▶ Ibérica Tecnología en Sistemas de Seguridad Ferroviarios, S.L. (ITSS)
- ▶ Ikusi, S.L.U.
- ▶ Indra Sistemas, S.A.
- ▶ Inse Rail, S.L.
- ▶ Job Impulse España
- ▶ Luznor Desarrollos Electrónicos, S.L.
- ▶ Patentes Talgo, S.L.
- ▶ Salicru, S.A.
- ▶ Screensor Tech
- ▶ Sice Tecnología y Sistemas, S.A.
- ▶ Siemens Rail Automation, S.A.U.
- ▶ Smart Motors
- ▶ Telice, S.A.
- ▶ voestalpine Railway Systems JEZ, S.L.
- ▶ Vogelsang, S.L.U.

Maintenance of traffic control and signalling, communications, passenger information and ticketing systems

- ▶ Aimen Centro Tecnológico
- ▶ Alstom Transporte, S.A.
- ▶ Artech (Electrotécnica Artech Smart Grid, S.L.)
- ▶ Barbara IoT, S.L.
- ▶ Caf-Construcciones y Auxiliar de Ferrocarriles, S.A.
- ▶ Caf Power & Automation, S.L.U.
- ▶ Caf Turnkey & Engineering, S.L.
- ▶ Endavamientos y Señalización Ferroviaria ENYSE, S.A.U.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ Gmv Sistemas, S.A.U.
- ▶ Géminis Lathes
- ▶ Grupo Trigo
- ▶ HaslerRail (Secheron Hasler Group)
- ▶ Hexis Graphics España
- ▶ Hispacold, S.A.
- ▶ ICF - Ingeniería y Control Ferroviario
- ▶ Indra Sistemas, S.A.
- ▶ Ingeteam Power Technology, S.A.
- ▶ Job Impulse España
- ▶ Mgn Transformaciones del Caucho, S.A.
- ▶ NGRT, S.L.
- ▶ NRF España, S.A.
- ▶ Patentes Talgo, S.L.
- ▶ Satys Interiors Railway Spain, S.A.
- ▶ Screensor Tech
- ▶ Sice Tecnología y Sistemas
- ▶ Smart Motors
- ▶ Stadler Rail Valencia, S.A.U.
- ▶ Trafag España, S.L.
- ▶ Vogelsang, S.L.U.

Maintenance of systems, equipment and vehicles components

- ▶ Aimen Centro Tecnológico
- ▶ Air Rail
- ▶ Alstom Transporte, S.A.
- ▶ Aquafirsch, S.L.
- ▶ Danobat, S. COOP.
- ▶ Electrans, S.A.
- ▶ Faiveley Transport Iberica (Wabtec Corporation)
- ▶ ICF - Ingeniería y Control Ferroviario
- ▶ Ingeniería Viesca, S.L.
- ▶ Mosdorfer Upresa Rail, S.A.U.
- ▶ Newtek Solidos, S.L.
- ▶ Patentes Talgo, S.L.
- ▶ Tecnival, S.A.
- ▶ Trafag
- ▶ Vogelsang, S.L.U.

**ASEA BROWN BOVERI, S.A.**

Rail is being rediscovered as a sustainable and energy-efficient form of transport. We understand the importance and implications of running these railway networks.

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✉ contact.center@es.abb.com

🌐 new.abb.com/railway/abb-solutions-for-transportation-rail-and-infrastructure

**AIMEN CENTRO TECNOLÓGICO**

We are an innovation & technology Centre specialized in materials and in advanced manufacturing technologies, especially joining technologies and laser technologies applied to materials processing and robotics. We develop R&D&I in collaboration with companies in the field of the technologies for industry 4.0, and we offer technological services to industry in the field of welding and corrosion engineering, manufacturing engineering, design and simulation and mechatronics; developing customized and integral technological solutions which respond to the needs of our clients and associated companies. Our accredited laboratories provide analysis and testing services, especially failure analysis and in-service behavior of industrial components.

📍 C/ Relva 27 A - Torneiros | 36410 O Porriño (PONTEVEDRA)

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✉ aimen@aimen.es

🌐 www.aimen.es

**ACYGS SALES MANAGEMENT, S.L.**

ACYGS is an engineering services consulting company dedicated exclusively to the railway sector and specialized in all the consulting and engineering services associated with a rolling stock maintenance workshop. We offer a personalized railway engineering service for each client, adapting to the needs of each workshop and project, developing its activity at an international level carrying out projects in the 5 continents, providing global solutions backed by the experience of more than 20 years in the rolling stock maintenance sector of the professionals who are part of Acygs.

📍 C/ Loeches, 65 - Oficina 7 Madrid (MADRID)

☎ +34 914 85 52 88



✉ jleon@acygs.com

🌐 www.acygs.com

**AGUI, S.A.**

A family-owned company specialised in production processes and complex assembly of railway interiors for OEMs.

AGUI provides a comprehensive service to the client: Support in product design, prototyping, industrialisation and manufacturing, managing the entire supply chain. ISO-3834 and EN-15085 certified.

📍 Pol. Ind. Lintzirin-Gaina. Parcela B-1. 20180 Oiartzun - (GIPUZKOA)

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✉ sac@agui.com

🌐 www.agui.com

**AIR RAIL**

AIR RAIL is a company specialised in the manufacture and distribution of machinery, working in the airport and railway sector. Within the railway industry, its activity is divided between the manufacture of its own products and the distribution of important brands in the sector. In terms of manufacturing, AIR RAIL specialises in railway washing systems, bogie washing cabins, water treatment units and blowing booths, among others. In its distribution activities, it represents Zephir shunters, IME Autolift lifting systems and SAMS re-railing equipment.

📍 C/ Alsasua 16, 1º Izda. 28023, Madrid, (MADRID)

☎ +34 913 234 629



✉ mmartinez@air-rail.org

🌐 www.air-rail.org

**ALSTOM SPAIN**

As a promoter of sustainable mobility, Alstom offers a complete range of solutions (from high-speed trains to metros, tramways and e-buses), passenger solutions, customized services (maintenance, modernization), infrastructure, signalling and digital mobility solutions. The company recorded sales of €8,2 billion in the 2017/18 fiscal year. Alstom is present in over 60 countries and employs 38,900 people. In Spain Alstom employs around 2,000 people on 18 sites, including a rolling stock manufacturing site and 4 innovation centres where it runs R&D programmes for rolling stock and railway signalling, safety, security, digital mobility and services.

📍 Martinez Villergas, 49 - Edificio V - 28027 Madrid (MADRID)

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✉ www.alstom.com



AMURRIO FERROCARRIL Y EQUIPOS, S.A.

Design, production, installation of turnouts, track devices, crossings. For all type of purpose. Metro, tram, regional, conventional, high speed, heavy haul, ports and industrial.

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✉ comercial@amufer.es
🌐 www.amufer.es



APPLUS+ LABORATORIES

Applus+ Laboratories a division of the Applus+ Group, provides testing, certification and development engineering services for a wide range of industries. In the railway sector, Applus+ Laboratories conducts operational stress measurements; electromagnetic compatibility (EMC) testing; environmental testing for onboard electronic components; the characterization of rolling stock; and fire reaction and resistance testing.

From bogies, complete railcars and onboard electronics; to seats and bulkheads, they provide support to ensure that all railway components meet the highest quality and safety standards.

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AQUAFRISCH, S.L.

More than 25 years of experience in the railway sector endorse Aquafrisch as a manufacturer of train washing systems, bogies washing cabins, WC extraction systems (CET) and other products for the maintenance of rolling stock in railway workshops.

Our equipment is installed in more than 30 countries on 5 continents. Aquafrisch is also a leader in industrial water treatment and purification. Aquafrisch takes care of the design, manufacture, installation, commissioning, training and maintenance of the machines according to the customer's needs. Aquafrisch is certified ISO9001:2015, ISO14001:2015 and ISO 45001:2018.

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ARTECHE

The Arteche Group is focused on offering equipment and solutions for the electricity and railway business worldwide. The expertise of more than 70 years manufacturing instrument transformers and electromechanical relays gives the client the assurance of a technological leader. With projects over more than 40 countries, our dedicated range of railway relays are designed to meet the highest standard requirements of the sector and its reliability and durability allow them to be used not only as general purpose relays, but also in all kind of safety functions, both for on-board and signalling applications making them suitable to be used in circuits requiring up to SIL-4 safety integrity level.

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AZVI

Azvi is the company which undertakes construction within Grupo Azvi. For over 100 years, Azvi has carried out a significant number of large scale civil engineering and building projects. Azvi has extended its activity to all construction areas in Europe, America and the Middle East, without losing sight of its origins and railway background. By applying principles of responsibility to the whole business sphere, seeking the creation of value, maintaining a strong commitment to all its stakeholders in all countries where it is present and investing in R&D Azvi continues constructing a company capable of facing the new challenges of an increasingly globalised market.

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BARBARA

Barbara is the Cybersecure Industrial Edge Platform, designed to implement automated decision-making within critical industrial processes. It connects, deploys and orchestrates AI and ML based applications at the Edge. Barbara's architecture, distributed across thousands of computing nodes, allows companies to communicate and virtualize any industrial element and then operate it through real-time Artificial Intelligence applications. Developed with cybersecurity by design, is compatible with Edge applications to optimise industrial processes and asset management, it is the perfect enabler to address the industry's biggest challenges and accelerate industrial intelligence.

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ARCELOMITTAL

ArcelorMittal, as the steel industry leader in product and process innovation, is fully geared to meet the future requirements of the rail industry. With rail production facilities in Spain, Poland, Luxembourg and USA offers a wide portfolio of rails for subways, trains, trams, light rails, crane rails, crossings and rail accessories. We area specialist in rail for high-speed net, with over 1 million tons produced, and presence in infrastructure of over 30 countries, the high technologic quality allows participating in the more demanding tenders all over the world. ArcelorMittal has its own R&D Rail Excellence Centre for developing new products and pro-

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ARDANUY INGENIERÍA, S.A.

Ardanuy Ingeniería, S.A. is an engineering consulting firm specialized in studies, projects, works management, safety engineering (ISA), operation / maintenance studies; and technical guidance for railways (high-speed, conventional, freights, metros, trams, cable cars), electrical engineering (sub-stations and high-voltage lines), roads (highways, freeways, BRT's, streets, etc.), buildings (architecture and facilities) and telecommunications.

The company was established in 1992 and is comprised of a permanent team of more than 200 professionals.

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ARIÑO DUGLASS, S.A.

50 years' experience behind us as a company specialised in glass for architecture and railway. An extensive presence in the Spanish, European and world markets has enabled us to obtain the knowledge and know-how in order to offer the most technologically advanced products of high quality.

It is in our DNA to continuously research and develop technology that allows us to adopt the very latest manufacturing methods, resulting in business excellence and ongoing innovations. In partnership with a number of organisations and institutions, we collaborate, cooperate and lead different research projects.

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BUREAU VERITAS INSPECCIÓN Y TESTING (GRUPO BUREAU VERITAS)

BUREAU VERITAS INSPECCIÓN Y TESTING is a Bureau Veritas company based in Madrid, Spain. BUREAU VERITAS INSPECCIÓN Y TESTING is a world leader in conformity assessment services as Notified Body (NoBo) and Designated Body (DeBo), as well as Inspection Body to perform Independent Safety Assessment (ISA) and Risk Assessment (AsBo).

Bureau Veritas has an extensive experience in the rail sector; with presence in more than 140 countries, more than 75,000 employees worldwide, and a network of 1400 offices and laboratories. Bureau Veritas is in a unique position to offer a global solution to its customers in the railway sector.

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CABLES DE COMUNICACIONES ZARAGOZA, S.L.

Cables de Comunicaciones is one of the main European companies dedicated to the design, manufacturing and commercialisation of telecommunication, signalling and optic fibre cables. Ever since its foundation in 1971, it has contributed to the development and extent of the telecommunications infrastructures. Railway companies from the main European countries entrust us with the manufacture of their cables. Among them, they stand out: Adif, SNCF, NetworkRail, Infrabel etc. Cablescom undertakes its activity in Zaragoza, in the Malpica industrial park, over a surface of 77,000 m2, which includes a production plant, offices and warehouses.

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CAF - CONSTRUCCIONES Y AUXILIAR DE FERROCARRILES, S.A.

CAF is one of the world leaders in the design and implementation of comprehensive transit systems. CAF provides comprehensive project and engineering management throughout all stages of the project including feasibility analysis and investigations, system design, civil work, signalling, electrification and other electromechanical systems, rolling stock supply and system operation and maintenance.

In terms of rolling stock, CAF supplies and maintains high speed trains, regional and commuter trains, locomotives, metro units, tramways and buses.

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CAF POWER & AUTOMATION

CAF Power & Automation designs and develops electric traction systems, energy storage systems and control & communication, which guarantee adaptable reliable and committed solutions with transport. Our systems are modular and flexible and can be integrated both in new vehicles and in those in service or that need refurbishment. Traction systems; Energy Storage (GREENTECH) and Control & Communication (COSMOS). Railway systems modernisation and refurbishment: Equipment and components, system integration, installation, maintenance and guarantee. Railway system maintenance: Technical support, spare parts, training courses, test benches.

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CAF SIGNALLING, S.L

CAF Signalling, the technological subsidiary of the CAF Group, designs and provides Integral Signalling Solutions, both in Spain and abroad. The company has its own advanced technology products, both for on-board and wayside applications that make up the core of its integral solutions. As a result of a significant and growing effort in R&D&I, particularly in the area of critical safety systems, CAF Signalling promotes continuous innovation and customer focus. CAF Signalling, boasts the Company's own in house engineering and expertise to take on "turn-key" railway signalling projects.

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CAF TURNKEY & ENGINEERING

CAF Turnkey & Engineering was created in 2007 with its head office in the Technological and Scientific Park of Biscay (Zamudio). It began its business in Integrated Engineering of Transport Services and in 2015, after merging with the company CMFS (Mexico), it increased its portfolio of services with the inclusion of EPC projects for both civil works and subsystems. Following solid and constant growth, the company currently has a workforce of 200 with offices in Zamudio, Madrid and Mexico, providing service to both companies within the CAF Group and national and international private and public customers.

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CELLNEX TELECOM, S.A.

Cellnex manages a portfolio of more than 130,000 sites – including forecast roll-outs up to 2030 – in Spain, Italy, the Netherlands, France, Switzerland, the United Kingdom, Ireland, Portugal, Austria, Denmark, Sweden and Poland. Cellnex's business is structured in four major areas: telecommunications infrastructure services; audio-visual broadcasting networks, security and emergency service networks and solutions for smart urban infrastructure and services management (Smart cities and the "Internet of Things" [IoT]).

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CENTUM DIGITAL

CENTUM is a Spanish technology company specialized in Communications, Control and Signal Intelligence, created in 2005, with an international presence (Germany), whose main activity is the design, development and commercialization of products and services for different sectors. In the most demanding environments, such as Aeronautical, Naval and Railway, we offer services and carry out projects mainly oriented towards Certification, Systems Integration (including critical and non-critical SW development), HW/SW Assurance and Cybersecurity processes. We also offer digital solutions for the Identification, Geolocation and Tracking of assets in the Smart Factory.

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CERTIFER BELGORAIL SA SUCURSAL EN ESPAÑA

Certifer Belgorail SA is a certification, inspection and safety evaluation entity for the guided transport sector, both conventional railways and subways and trams. We are an accredited body for the certification of interoperability (NoBo), national regulations (DeBo), safety evaluations under CENELEC standards (ISA) and under CE Regulations (AsBo). We are part of the Certifer Group, with a presence, in addition to Spain, in Belgium, France, the Netherlands, Germany, Austria, Italy, Sweden, Turkey, Algeria, Brazil, Australia, Vietnam, the United Arab Emirates and China.

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CALMELL, S.A.

The Calmell Group is the leader in access control and identification, through its companies Calmell S.A., Affix S.L., Idoneum S.A., which are respectively engaged in producing the supports (tickets, cards, ...), developing specific software and hardware, personalization and security.

In the public transport sector it works for integrators and operators supplying any kind of support for ticketing and reader/writer systems.

With a strong international presence through its network of representatives and distributors, the Calmell Group is able to satisfy your needs on a global level.

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CAUCHO INDUSTRIAL VERDÚ, S.L.

Caucho Industrial Verdú is a company with more than 50 years of experience in the rubber market. We produce a wide range of products in rubber and rubber-metal, and we are focused in the infrastructure sector. We design and manufacture elastomeric bearings, pot bearings and expansion joints for bridges and other structures. In addition, we manufacture resilient elements for railway applications, as underballast mats (UBM), slab track mats (STM) and undersleeper pads (USP). All these products are manufactures using recycled rubber (90%) from used tyres. Our technical staff can design and advice about the best solution for the client's needs, always based on the standards EN, DIN, ASSHT

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CEIT

We are a basque Technology Center founded by the University of Navarra, whose main objective is to develop applied R+D+i projects with companies to improve their competitiveness. We are part of BRTA (Basque Research & Technology Alliance), which includes 16 agents that constitute the Basque Network of Science, Technology and Innovation (RVCTI). We also participate in Shift2Rail Joint Undertaking as associated members. We focus our R+D+i activity within the railway sector in the following topics: energy efficiency, maintenance, railway dynamics, component design and characterisation, embedded systems (SIL4), positioning, data intelligence.

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CETEST, S.L. Centro de Ensayos y Análisis

Fully accredited ISO17025, CETEST is an experienced laboratory in railway vehicles and components testing. Its offering covers a wide variety of component test benches at their facilities as well as portable ones. CETEST provides a global on-track measurement deployment capacity. From validation and verification test in the development phase to product homologation and failure detection / root cause analysis in the after-sales operation, CETEST can assist you during the full lifecycle of your product. Their customers include passenger, freight and special track maintenance vehicle manufacturers, component suppliers, as well as Notified Bodies, engineering firms and authorities.

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CITEF (FUNDACIÓN PARA EL FOMENTO DE LA INNOVACION INDUSTRIAL)

CITEF (Railway Technology Research Centre) was created in 1997 as part of F2I2 (the Foundation for the Development of Industrial Innovation) for research, innovation, experimentation, study and teaching purposes within the railway knowledge area. It is a non-profit organisation pursuing aims of general interest within any rail transport technology sector.

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COLWAY FERROVIARIA, S.L.

COLWAY FERROVIARIA S.L., a company belonging to the COLWAY Group, is specialized in the design, engineering, manufacture, installation and commissioning of turnkey railway interiors and toilet modules projects. Revamping of seats and floors for a significant improvement of the coaches, with a controlled investment, is included among its capabilities. Through the integrated management of modular supplies & systems, based on experience, research and innovation, satisfaction and expectations of railway constructors and Public Administrations are achieved. Its work is based on the application of strong values: commitment, professionalism, ethics and agility.

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**COMSA**

COMSA is the company of COMSA Corporación specialised in railway infrastructures. Founded in 1891, the company provides a comprehensive service in the field of construction, maintenance, electrification and control and communication systems for high-speed and conventional lines, metros and tramways. In this business activity, it is leader in Spain, where has been involved in the carrying out of all high-speed lines, and has permanent operations in Argentina, Brazil, Croatia, Denmark, Mexico, Poland, Portugal and Uruguay. It has also taken part in a large number of projects in other markets such as Italy, the Philippines, Taiwan, Malaysia, India, etc.

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**CREATE HUMAN RESOURCES**

Railway and business training consultant, approved since 2009 by the State Agency for Railway Safety (AESF) of the Ministry of Development to provide the necessary training to obtain and maintain the different qualifications of railway personnel, as well as all kinds of technical training and specific to the railway sector.

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**CUNEXT COPPER INDUSTRIES**

Cunext in the way to continuous development has created the entire cable product range for overhead line electrification adapting at any speed from local transport to high speed line. Our modern technology together with a wide experience at cable and alloy manufacturing makes us the best partner for railway companies offering best product quality and service. Cunext Group locate production plants at strategic places such as Cordoba for copper products, Vitoria and Brescia for aluminium products.

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**ENCLAVAMIENTOS Y SEÑALIZACIÓN FERROVIARIA ENYSE, S.A.U.**

Enyse is a Signalling company belonging to the Industrial Services division of the ACS group. For Enyse, the success of their projects is based on a high level of adaptation to functional and operational needs of the various railways - flexibility is the key word. In an industry increasingly integrating technology standards, the required Reliability, Availability, Maintainability and Safety standards not only apply to system design level, but are the actual premises to properly implementing and commissioning turn-key Signalling projects.

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**ELECNR DEIMOS**

Elecnr Deimos is the technological subsidiary of the Elecnr Group that operates in the railway transportation sector, information and telecommunications systems, space, aeronautics and defense. In the railway sector, Elecnr Deimos is responsible for the development and evolution of passenger information platforms and remote station management. In addition, the company is specialised in delivering comprehensive turnkey projects as well as the development, implementation, and maintenance of these systems.

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**ELECNR SYP**

Elecno has become one of the most outstanding European business groups and a benchmark in the infrastructure sectors, with more than 60 years of continuous growth (25,000 employees and 3,5 billion Euros turn over) and presence in 55 countries. Elecno promotes, develops and constructs all manner of infrastructure on all continents including concessional projects. Elecno Group's long experience in the railway sector enables it to engage in turnkey projects for electrification, signal and interlocking systems, communications, and control systems. Elecno has been involved during 30 years in the development of electrification railway projects as a technologist providing solutions to industry.

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**DANOBAT S.COOP.**

Specialised Machine Tools and production systems for railway industry offering technologically advanced solutions and services, including among others engineering, consultancy, which are fully adapted to clients' needs.

DANOBAT focuses its activity in the supply of turnkey solutions for the manufacturing and maintenance of railways rolling stock, incorporating own leading technology products, together with those manufactured by specialised companies.

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**DINÁMICAS DE SEGURIDAD, S.L.**

DSAF is a entrepreneurial society focused on the safety of the movement of people at risk. Committed to the new technologies applied to the design of signaling systems, prevention and emergency in safety, DSAF promotes the development of products that guarantee the highest grade of security according to the standards of type approval current in generalized risk societies such as global ones.

The activity of DSAF focuses on these two major sectors: road / rail tunnels and wind towers.

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**EKIDE**

Ekide has Ekide SC, a business unit dedicated to engineering and manufacturing of assemblies or subassemblies of parts based on different manufacturing processes for the railroad sector. The activity of this business unit is developed in the following areas: Engineering (Conceptual design + Product development), Mock-ups and prototypes (with a wide range of manufacturing and prototyping processes to check aesthetic and functional aspects prior to mass production), rapid tooling, for the manufacture of prototype injection molds and manufacturing (SMC, infusion, etc.)

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**ELECTROSISTEMAS BACH, S.A.**

Electrans, established in Barcelona in 1977, has had a successful career path that turn it in an international relevant supplier in signalling, particularly in the field of level crossing protection solutions, railway and tramway signalling, detection systems and LED lighting, obtaining its products and solutions worldwide recognition.

Electrans' constant progress is motivated by the commitment to innovation, at the service of the adaptability of systems and products for the current needs of railway projects.

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**EWALS CARGO CARE, S.A.**

Ewals Cargo Care is an international multimodal freight transport company, which operates in 14 countries in the EU and the United Kingdom, using its own fleet of 3,800 mega semi-trailers and multiple resources associated collaboratively in subcontracting.

Our market is mainly industrial, with strong specialization in the automotive sector.

Led in corporate strategy and management by its third generation, Ewals CC has in its social and business policy a strong commitment to compliance with ESG objectives, in a policy of responsible action that aims to lead the market in an innovative logistics business model and sustainable.

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**FAIVELEY TRANSPORT IBERICA**

Faiveley Transport Iberica, as member of Wabtec Corporation offers the complete portfolio of products of the Corporation in Spain and Portugal, as well as all service activities related.

Design, manufacturing, repair and maintenance of rolling stock systems.

Braking Systems, Access Doors, Platform Screen Doors, HVAC, PIS/CCTV, Power Collection, Sanitaires, Event Recorders, Beacon Readers, Relays.

With Headquarters in La Selva del Camp (Tarragona), offices in Madrid and service centers in Madrid, Barcelona, Valencia, Seville, Beasain and Lisbon.

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**FLEXIX, S.A.**

FLEXIX, develops, manufactures worldwide since 1950 INJECTION and EXTRUSION RUBBER PARTS, rubber-metal, rubber-plastic, special elastomers and assemblies. We are part of the KÄCHELE-FLEXIX Group, with 2 plants in Germany, 1 in Spain and a warehouse in USA. For the RAILWAY SECTOR we produce mainly for infrastructures, absorption of vibrations under track, tie pads for sleepers, different range of stiffness (14-152 kN/mm). We provide development in geometries (FEM), materials, (conductivity, non-harmful gases...)

TYPE OF PARTS: Pads, Ducts, bellows, tubes, silentblocks, joints, bumpers, axles, links, valves, bearings. MIXTURES: NR, SBR, EPDM, CR, H/ NBR, ECO, AEM, ACM, Silicone, FPM.

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**FORGING STEEL PRODUCTS, S.L.**

Manufacturing of machined and if needed painted forged components ready for assembly destined to the railway rolling stock manufacturers for chassis, brakes, clutches, hooks etc.

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**FUNDICIONES DEL ESTANDA, S.A.**

Since 1957 Estanda has been providing various sectors with steel castings. The half of all its activity is focused on the high-speed train brake discs manufacturing, being one of the first worldwide manufacturers, the other half is focused on a wide range of sectors such as the cement and mining industry, defence, off-shore, automotive industry, and bogie components for the railway equipment. Mostly low alloy steels, wear resistant steels, refractory steels, stainless steels and white irons are casted. With its 14.000 tonnes per year production capacity, Estanda manufactures from 10 to 2000 kgr. parts in all kinds of batch sizes, with 2.400 mm as its maximum part dimension.

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**GLOBAL QUALITY ENGINEERING**

TRIGO Spain is a supplier of quality services and support in the supply chain in industrial sectors. Founded in 2001, it offers quality assurance services in products, maintenance, industrial means management and metrology with more than 600 quality professionals in Spain. TRIGO GROUP is present in 25 countries with a team of more than 10,000 professionals.

TRIGO Spain exports to the railway sector good practices of high added value developed in sectors such as aerospace and automotive.

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**GMV SISTEMAS, S.A.U.**

GMV is a leading firm in the design, development, implementation and rollout of Intelligent Transportation Systems (ITS) guaranteeing compliance with the railway sector standards. Main products and services: On board units for location and communications, Fleet Management Systems, Fare Collection Systems, Passenger information systems, CCTV systems, PA & Intercom system, Systems for security reinforcement, Eco-driving systems, Software for planning and scheduling of services. Conceived for all railway modes (tram, metro, commuter train, long distance, high speed trains...)

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**HASLERRAIL (SECHERON HASLER GROUP)**

Sécheron Hasler Group is a leading global supplier of electrical and electronic safety components and solutions and traction power systems for the railway industry and also provides solutions for renewable energy, DC grid, and other industrial systems. HaslerRail is the world's leading supplier of innovative On-Board Electronics, Data Acquisition and Recording, Speed Sensors and Odometry, Visualisation solutions and Speed Indicators, Energy Metering, Control, Protection and I/O, Software and data management solutions, and Cybersecurity for the railway industry. Our solutions are backed by our extensive global service and support network.

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+34 91 620 79 58

info@haslerrail.com

www.haslerrail.com/

**FUNORSA**

Funorsa is a Steel casting foundry with more than 20 years in the railway sector. We are specialized in pieces of high responsibility as couplers, Pivots, connection rods and different parts of the bogies. We are able to cast low alloy, alloy and inox castings up to 1.300 kg with a capacity of 2.000 Tons per year.

Condado de Treviño, 41 Pol. Villalonquejar, 09001 Burgos (BURGOS)

+34 650 665 302

comercial@funorsa.es

www.funorsa.es

**GEMINIS LATHES, S.A.**

Leaders in the development of horizontal and multiprocess lathes, and specialized in railway sector, where we are proud to support the manufacturers of trains and maintenance lines, among other agents in the value chain. We offer customized solutions with highly reliable machines for the maintenance of rolling stock. Our lathes are specialized in the machining of axles, axle-wheel set and wheels.

Lerun, 1 - 20870 Elgoibar - (GIPUZKOA)

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geminislathes.com

**GURUTZPE TURNING SOLUTIONS, S.L.**

GURUTZPE is a company specialized in the manufacturing of high value-added heavy-duty Turnmills for machining strategic pieces in demanding industrial sectors. With over 60 years of experience, GURUTZPE provides customized and innovative manufacturing solutions on an international level.

The company specializes in maintenance and manufacturing of wheels, axles, and wheelsets for the railway sector, operating both nationally and internationally.

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**HEXIS GRAPHICS ESPAÑA**

We have been manufacturing adhesive films since 1989. More than 30 years dedicated to the manufacture of adhesive films for cutting or large format digital printing. Hexis Graphics has specialized in the manufacture of high performance cast films, both PVC and latex. It is also constantly developing new solutions for professionals in the graphics industry, signage, vehicle wrapping and textile personalization. Hexis is not only a manufacturer of self-adhesive films, but also a distributor in 8 countries, thanks to our own branches located in France, Spain, Italy, Sweden, Germany, Switzerland, FWI and Australia.

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https://www.hexis-graphics.com/es/

**HIERROS Y CARBONES, S.A.**

Since 1997 Hicasa is specialised in transformation, tailored cut, storage and distribution of railway tracks materials, all kinds of rails and railways accessories with a permanent stock of more than 3.500 MT.

In 2006 we have incorporated to our Group of companies a factory specialised in manufacturing light rails from 7 kg/m to 48 kg/m, manufacture according European and American Standard, Australian or South African together with other types of Standard (AREMA).

Our own experience allows us the optimal management of the supply chain, exporting to more than 30 countries all over the world.

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**ICON MULTIMEDIA, S.L.**

With over 25 years of experience, we have a extensive experience in the Digital Signage sector.

Our DENEVA Digital Signage platform is specially designed for high availability environments such as Smart Cities or as a powerful and comprehensive marketing tool for 'Smart Stations', guaranteeing a reliable and safe travelers and users experience.

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IDOM CONSULTING, ENGINEERING AND ARCHITECTURE, S.A.U.

IDOM is one of the leading companies in the field of professional services in Engineering, Architecture and Consultancy. An independent company established in 1957 and it has participated in over 30.000 projects in five continents. In 25 countries with 42 offices. More than 3.500 staff possesses the expertise and experience to cover all the phases of a railway project (high speed, conventional, freight, metro, light rail, tramway, depot and workshops). From conception to commissioning and beyond and facing the challenges of an innovative, efficient and resilience Transport System. IDOM accompany the client by providing the correct technical assistance required for the decision making process.

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IKUSI, S.L.

At Ikusi, we provide complex turnkey integration project design, engineering and development services both for rolling stock and for infrastructure, with the agility and flexibility required by the rail industry. We are oriented towards improving our clients' competitiveness and innovation capacities, thanks to our deep business knowledge developed during these years. Our business focus is the design and supply of innovative technological solutions to help vehicle builders, transport operators and authorities optimize and transform their business while guaranteeing quality of service and enhancing passenger experience in terms of security, information, comfort and accessibility.

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IMATHIA

IMATHIA Construcción started in the civil works sector in 2004, providing Spanish and International clients with a professional and specialized approach to construction challenges, with an special vocation for Railways. We've been involved in projects throughout the main Spanish HS Corridors and lines around the world. Our expertise covers a wide range of infrastructure and superstructure construction for metro, high-speed, and conventional railway. Our most outstanding reference is the High Speed Railway line in KSA, which we currently maintain. Some of our ongoing works are the Refurbishment of the Kampala-Malaba Line for URC (Uganda) or the Fuencarral II Depot.

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INGENIERÍA VIESCA, S.L.

We are specialists in design and manufacture of power electronic equipment. Our equipment work satisfactorily in all the continents with high reliability and availability, making efficient use of the available energy. We adapt our products to customer needs and requirements according with the applicable standards and the best quality.

The expected functionality is guaranteed by means of specific test protocols.

Our innovation is present in all our products: auxiliary power converters, battery chargers, flat battery starters, ...

🚩 Rumanía 5, Nave B2 - P.E. Inbisa Alcalá I. 28802 Alcalá de Henares (MADRID)

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INGEROP

INGEROP T3 is an engineering and architecture company specialising in the sectors of transport, mobility and cities, infrastructure, building, energy and industry, which has been operating in Spain since the 1990s. It has offices in Madrid, Barcelona, Granada and Seville. INGEROP T3 belongs to a group of more than 2,300 employees, mostly engineers, with a presence in more than 70 countries. It is a totally private and independent company, whose capital is wholly owned by its managers and employees. The INGEROP T3 team offers a wide range of services for both public and private clients, from planning to operation and maintenance.

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INGETEAM POWER TECHNOLOGY, S.A.

Ingeteam is an international group specializing in power and control electronics (inverters, frequency converters, controllers and protections) and electrical engineering and automation projects. The company operates in 22 countries, with 3,900 employees. R&D is at the backbone of its business activities. In railways, the traction converters INGETRAC are based on an smart integration of proved Proved Modules, comprising all necessary elements to be fully operational, on each required application.

🚩 Pol. Parque Tecnológico, 110 48170 Zamudio (BIZKAIA)

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INDRA

Indra is one of the leading global technology and consulting companies and the technological partner for core business operations of its customers world-wide. It is a world-leader in providing proprietary solutions in specific segments in Transport and Defense markets, and a leading firm in Digital Transformation Consultancy and Information Technologies in Spain and Latin America through its affiliate Minsait. Its business model is based on a comprehensive range of proprietary products, with a high-value focus and with a high innovation component. In the 2018 financial year, Indra achieved revenue of €3.104 billion, with 43,000 employees, a local presence in 46 countries and business operations in over 140 countries.

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INECO

Global leader in transport engineering and consultancy, it has contributed to the development of transport infrastructures for over 50 years in more than 50 countries. Its high level technical specialisation allows its activity to diversify into new markets and reinforce its presence in those where it is already established. Its participation in the whole railway system in Spain has led the company to develop important international projects like the Makkah-Madinah high speed in Saudi Arabia, the HS2 project in the United Kingdom or the deployment of ERTMS in Europe.

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INGENIERÍA Y CONTROL FERROVIARIO, SAU

ICF offers technical and sustainable solutions for railway signalling. In this area, our vocation is betting heavily on the development and innovation, constantly releasing new products that can be used to improve and optimize existing technology solutions. All the level crossings since June 2001 have been protected by ICF with its level crossing protection system SPN-900. We are working worldwide with more than 1000 international references. For us it's very important to be sustainable so we have worked hard to design systems that reduces dramatically its power consumption which allows it to work taking its energy only from sun, getting a zero CO2 emissions and zero external power supply.

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INSE RAIL, S.L.

Inse Rail is an engineering firm that is highly specialized in the railway industry and specifically its installations and systems. Founded in 1994, it is dedicated to engineering, consulting and project management in the railway, industrial, energy and building construction industries, carrying out its activities in the different stages of planning, design, construction and operation of investments. Inse Rail participates in the international development of the High Speed Rail and metropolitan transportation, with a strong specialization in electrification, signaling, security and communication systems, and other railway transport installations.

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INTERNACIONAL HISPACOLD, S. A.

Hispacold, a World leader Company for climate systems with more than 40 years' experience is specialized in passengers comfort. Hispacold designs and manufactures HVAC solutions for all rail vehicles: trams, metros, EMUs, DMUs, LRVs... with proven and reliable technology solutions. Hispacold is certified in the most recognized International quality management, environment and safety standards: ISO 9001, ISO 14001, OSHAS 18001, EN 15805-2 and the prestigious IRIS ISO/TS 22163.

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IBÉRICA TECNOLOGIA EN SISTEMAS DE SEGURIDAD FERROVIARIOS SL (ITSS)

Founded in 2005, is a leading manufacturer and supplier of railway hazard monitoring equipment, focusing mainly on hot axle box / hot wheel and Wheel impact load / Weighing in motion detectors. The ITSS systems use state-of-the-art infrared and fibre-optic technology. The PEGASUS HADB/HWD multi beam system monitors the axle box and brake temperatures of coaches. The AGUILA WIM/WILD system uses fibre-optic sensors to detect off-centre wheels and flat spots. It can also report train weight and overloading. ITSS products are the model representation of a perfect combination of experience and innovation.

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JOB IMPULSE

JobImpulse, an experienced professional services company with a successful history since its founding. With 57 offices in 13 countries and more than 9. 5,000 employees worldwide. Our services with international reach focus on Outsourcing, Recruitment and Head-hunting in different markets such as Railway, Aerospace, IT and Defense. JobImpulse, can attract qualified professionals from other areas adapting them to the railway. To do this, with programs and specialists, we offer training around the world, developing technical and communication skills among employees. Thus, we break the generation gap and lack of resources that exists in the sector.

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✉ **manuel.rey@job-impulse.com**
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LA FARGA YOURCOPPERSOLUTIONS, S.A.

La Farga is able to produce all the range of railway products in an integrated process. Our railway range includes all alloys used, the different measures of grooved contact wire and all supporting and electricity supply elements, feeders, hangers and cables. Furthermore, we offer technical visits and assessment to our clients and we constantly develop new railway products with the aim of introducing the best copper solutions into the market.

La Farga is a family-run metallurgical company, with more than 210 years of history. We produce semi-finished copper products and their alloys for several technological sectors.

🚩 **Colònia Lacambra, s/n, 08508, Les Masies de Voltregà (BARCELONA)**
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LADICIM - UNIVERSIDAD DE CANTABRIA

LADICIM participates in R&D projects focused on the innovation of the railway superstructure, carrying out studies on the development of its elements, acc to national (Adif), European (EN) and American (AREMA) reference standards. The results are reflected in more than 500 reports, 25 research papers with a high impact index and 7 Doctoral Theses. The projects include collaborations in countries such as the USA, Canada, Saudi Arabia, Turkey, Germany, Senegal, Tanzania, Morocco or Ethiopia. LADICIM has implemented a quality system according to the UNE-EN ISO/IEC 17025 standard, being accredited by ENAC (Spanish Accreditation Board) for the testing of fastenings, sleepers and rail welds.

🚩 **E.T.S. Ing de Caminos, Canales y Puertos**
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LUZNOR DESARROLLOS ELECTRONICOS, S.L.

LUZNOR is a company specialized in the design and manufacture of professional torches, emergency lighting and other electronic security devices. LUZNOR puts at your disposal highly qualified technicians, a high quality standard, efficient development, manufacturing and control systems and, above all, a philosophy of commitment to clients that allows LUZNOR to offer innovative products with advanced technology and recognised prestige.

🚩 **Paduleta 47 - Pol. Ind. Jundiz Vitoria (ARABA/ÁLAVA)**
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MAIN RAIL S.L.

Main Rail is a high-tech start-up which develops a SAAS platform for maintaining railway infrastructures designed to optimise the day-to-day performance of railway maintainers and administrators; deployed in more than 3.200 km of Spanish Railway Network. We optimize maintenance activities, improve track safety and reduce cost. Our approach is to focus in taking advantage of the data coming from the infrastructure (inspections, measurement systems, IoT, etc) by gathering all this data, integrating, processing, and translating it into useful information for maintenance decision-making.

🚩 **Parque Enamorados, 6 - 1, Pamplona/iruña, 31014, (NAVARRA)**
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METALOCAUCHO, S.L. (MTC)

MTC, being part of Wabtec Corporation, designs and manufacture rubber-metal components for suspension and vibration control systems used on railway, automotive and industrial applications. With headquarters in Spain, MTC has 4 production facilities in 1) Spain, 2) China, 3) India and 4) USA, which offers to customers the possibility to localize production in any of these countries. Thanks to a wide commercial presence in any country of the world, MTC gives local support to develop projects for both OE and Aftermarket business.

Our main products are related to Primary Suspensions, Secondary Air Springs, Bushings, Buffers, Layer Springs, Subassemblies, Elastic Wheels, etc

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🌐 **www.wabtec.com/business-units/metalocaucho-mtc**



LANDER SIMULATION & TRAINING SOLUTIONS

Lander Simulation & Training Solutions, S.A. specialises in designing, developing and implementing cutting-edge commercial simulation devices for training purposes.

On the basic premise of preventing accidents and loss of human life, Lander works with each customer to build training simulators which meet the specific needs of each operation.

Lander was incorporated in 2002, and now operates in more than 20 countries across all 5 continents. Its solutions cover the entire range of railway operations - suburban trains, long-distance units, high-speed trains, freight, monorail systems, metros or light rail.

🚩 **Portuete 23A, local B3 20018 San Sebastián (GIPUZKOA)**
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LANTANIA

Lantania specializes in the construction of heavy civil works (roads, highways, dams, water treatment plants, maritime works, railways and airports), building construction and energy projects. The company began its activity in 2018 with the acquisition of the construction, energy and services business units of the Isolux Corsán Group and the subsequent purchase of the Velasco Group in 2019. One of the differential characteristics of Lantania is its ability to execute any kind of rail project in an integral way. The company has built more than 150 km of infrastructure, tunnels and railway viaducts, as well as more than 50 traction power substations and more than 1,500 km of overhead line.

🚩 **Sobrado, 2 28050 Madrid (MADRID)**
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LLALCO FLUID TECHNOLOGY

Llallo Fluid Technology is one of the few manufacturers and suppliers of impact absorption technology for end of track rail lines -Buffer Stops. World Class Technology that protects people, machinery and the Environment. Their products are highly sophisticated end of rail track shock absorbers with a unique performance. Llallo has a wide range of models with gas hydraulic buffers, sliding friction shoes or a combination of both. Their technology allows to control the deceleration to the desired value. They have been delivering high quality Buffer Stop projects in Spain & Portugal since 1970 and in America and other European Countries since 2004. Llallo is also ISO9001, 14001 & 45001 Certified.

🚩 **Torre de Cristal pl. 18. Pso. de la Castellana 259C, planta 18. 28046 Madrid (MADRID)**
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MGN TRANSFORMACIONES DEL CAUCHO, S.A.

MGN was established in 1957 and since then it has been developing its activity both designing and manufacturing rubber-metal components, mainly for the railway industry. MGN invests in research and innovation as a basis for the development of elements to be adapted in the new understanding of passenger and freight trains, taking the latest technological advances of the rubber world, vibration control and damping systems. - Primary and secondary suspensions. - Conical springs - Bushes and spherical bearings - Rods, Bogie subsystems - Pivot Bushes - Elastic Supports - Compression buffer and Draw Gear springs - Bellows, Gangway protections - Profiles, o-rings and seals.

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MIERES RAIL, S.A.

Diseño, fabricación y suministro de aparatos de vía, y componentes, para Metros, líneas convencionales, industriales y con alta carga por eje o de Alta Velocidad hasta 350 km/h. Diseño, fabricación y suministro de cruzamientos fundidos de acero al manganeso. Soldadura trime-tálica a tope por chisporroteo. Juntas aislantes encoladas, cupones mixtos, sistemas de fijación, sistemas de cerrojos, reglas de medición de desgastes.

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MOSDORFER UPRESA RAIL, S.A.U.

Supply of catenary systems for new installations and maintenances of tramway, conventional and high speed contact lines for international and national projects (Spain, Arabia, Israel, Turkey, Ethiopia, Tanzania, Mexico, Peru, Ecuador, Bolivia, Norway, Sweden, Lithuania...). Installation of the compensated tensioning devices TENSOREX®, TENSOREX® C+ around the world.

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NEXT GENERATION RAIL TECHNOLOGIES, S.L. (NGRT)

NGRT S.L. is a company focusing on railway safety, working with railway regulators and helping infrastructure managers and train operators secure their infrastructure and operations. NGRT's products are designed to detect any anomalies that occur in the railway infrastructure.

The NGRT applications will detect rolling stock, independent of speed, direction and track conditions at any location, in all weather conditions, as well as anomalies impacting on the railway infrastructure.

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NEWTEK SOLIDOS, S.L.

NEWTEK is mainly active in the manufacture of systems for filling sand in trams, trains and locomotives. NEWTEK supplies installations composed of storage silos, fixed sand feeders, sand feeding mobile units, aspiration systems and dust collection devices. The company also designs, manufactures and maintains custom installations according to the needs of each client.

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PREFABRICACIONES Y CONTRATAS, S.A.U. (PRECON)

PRECON is the Spanish leader in design and supply of precast concrete products for railway tracks, either ballast and ballastless tracks. It has supplied monoblock, twinblock, block slabs and sleeper for switches and crossings, Either for high speed, conventional lines, haul, subways and tramways.

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PRETENSADOS DEL NORTE, S.L.

PRETENSADOS DEL NORTE, is one of the most important producers of pre-stresses steel in the word. Our products are recognised for having the best quality on the market. Our high standards of quality mean that we are talking about the best pre-stresses steel you can find. Our company has more than 30years' experience in manufacturing and investment that have led to what we are today: PRETENORTE. Technologically, we have equipped our company in Vitoria-Gasteiz with the best state-of-the-art machinery. We continue to incorporate the latest novelties for your complete satisfaction. Pretenorte is highly specialised in pre-stressed steel and its many applications.

🚩 Miravalles, 4 Zona Indus. de Betoño 01013 Vitoria (ARABA/ÁLAVA)

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REVENGA SMART SOLUTIONS

Revengea Smart Solutions offers comprehensive solutions for the transport sector: railways and metros, roads, ports & airports. In railways & metros we focus on passenger experience solutions, ranging from intercomms, public address and information panels, to systems related with revenue/cost issues, like ticketing, tolling and access control, and also with operator oriented solutions like railway telephony, signalling (level crossings, point heaters and inspection systems) and station control. More than 45 years of experience. Projects deployed in 24 countries.

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NRF

Since 1927 NRF is a leading manufacturer and supplier of cooling products for the automotive market, industrial, railway and marine sector. NRF is known for the production of high quality radiators, but also produces and supplies a large range of other engine cooling and air conditioning products. NRF has global engineering, testing and development facilities. Railway and ship manufacturers, large retailers of vehicle parts, radiator shops and specialists in more than 80 countries worldwide daily rely on NRF's high quality products.

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PARRÓS OBRAS, S.L.

Family business with over 25 years experience in civil construction and iron and steel industry for the railway sector. Parros Group which is specialized in pile driving and catenary foundations, has implemented the 80% of the foundations of the entire Spanish High Speed Network. Whether conventional railway network or Highspeed Railway (AVE), PARRÓS GROUP is distinguished by the versatility of our machines adapted "Ad hoc" for auxiliary civil works from the railway, with automatic switching to the three Spanish gauges. Also innovative is our implementing system of noise barriers from the railway track and its foundations. Generic activities of building and general construction.

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PATENTES TALGO, S.L.U.

Talgo is a Spanish company with more than 70 years of experience, specialized in designing and manufacturing trains, maintenance equipment as well as providing maintenance services to railway operators worldwide. Today, Talgo is the leading global reference for Spanish High Speed Technology and the number one player in Spain's railway market. Due to Talgo's successful expansion strategy and its globally acclaimed products, the company has become truly international. Its key success factors are innovation, unique technology, sustainability, safety, competitiveness and tailor-made projects with clear focus on customer. Talgo trains are internationally recognized as the best in their category.

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SALICRU, S.A.

Its main mission is to guarantee a continuous, clean, economical, reliable and ecological electricity supply to its customers, for which it offers a wide range of products capable of providing solutions for the most sensitive systems and most demanding markets.

SALICRU has the widest national coverage and 10 subsidiaries abroad, selling its products in more than 130 countries, with more than 2,000,000 pieces of equipment in operation. Likewise, SALICRU is certified with ISO-9001, ISO-14001 and ISO-45001 and its products are designed and produced in a way that respects the environment.

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SATYS INTERIORS RAILWAY SPAIN

Satys is a Spanish company specializing in the design and manufacture of galley systems for railway rolling stock.

A galley system is broken down into 3 main families of equipment:

- Refrigerated cabinets

- Functional systems. Cooling, electricity, water, lighting, etc.

- Interiors. Countertops, lining, etc.

Satys offers a wide range of products specifically for each one. Thanks to the unique and highly efficient Satys technology, our products are internationally recognized as the best in their class in terms of quality, safety, availability, reliability, accessibility and environmental friendliness.

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SCREENENSOR TECH

Screenensor Tech is a startup committed to innovating conventional media in the field of signage and broadcasting advertising and information content. We provide tailor-made solutions to our clients, from public transport to retail, enabling them to place transparent T-OLED screens in strategic locations. With the latest display technology, we offer users a unique experience, providing them with relevant content and real-time information, while creating a new space for effective communication between brands and their audiences.

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SEGULA TECHNOLOGIES

SEGULA Technologies is an engineering group with a global presence, helping boost competitiveness within all of the major industrial sectors: automotive, aerospace, energy, rail, naval and defense, pharmaceutical and oil & gas. Present in 30 countries and with 140 offices worldwide, the Group fosters a close relationship with its customers thanks to the expertise of its 12,000 employees. A leading engineering specialist placing innovation at the heart of its strategy, Segula Technologies conducts large-scale projects, ranging from studies to industrialisation and production.

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SENER INGENIERÍA Y SISTEMAS, S.A.

SENER is one of the leading engineering and technology groups in Europe with over one billion euros of annual turnover, more than 2,000 professionals and a continuously growing international presence with offices in over 15 countries. In the field of railway engineering, Sener counts on an extensive experience in metros, light rail trains systems and tramways, conventional railway line, freight transport and High Speed Lines. SENER's activities range from preliminary, conceptual and feasibility studies, basic and detailed engineering to project management services, supervision of works, value engineering and ICE services.

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SGS GROUP SPAIN

SGS is the world's leading inspection, verification, testing and certification company. We are recognized as the global benchmark for quality and integrity. With more than 97,000 employees, we operate a network of more than 2,600 offices and laboratories around the world. Our core services can be divided into four categories: Certification, Inspection, Testing and Verification. We are constantly looking beyond customers' and society's expectations in order to deliver market leading services wherever they are needed. Our independent services add significant value to our customers' operations and ensure business sustainability.

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SOFTWARE QUALITY SYSTEMS, S.A.

SQS is a company specialised in software validation and verification with extensive experience in safety critical systems and, specifically, in the railway sector. We accompany our clients throughout their development process, optimizing it and guaranteeing compliance with specific regulations and standards for their sector in terms of safety, functionality, quality, etc. Likewise, we design and implement automated test environments and complement our offer with training activities in the field of software testing and quality.

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STADLER RAIL VALENCIA, S.A.U.

International rail vehicle construction company, Stadler, is headquartered in Bussnang in Eastern Switzerland. Founded in 1942, it has a workforce of over 8,500 based in various production and over 40 service locations. Stadler provides a comprehensive range of products in the heavy and urban transport segments: High-speed trains, intercity trains, regional and commuter heavy rail trains, underground trains, tram trains and trams. Stadler also manufactures main-line locomotives, shunting locomotives and passenger carriages, including the most powerful diesel-electric locomotive in Europe. It is the world's leading manufacturer in the rack-and-pinion rail vehicle industry.

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SYNEOX RAIL S.L

Syneox was born from the merger of the railway divisions of three world-renowned companies; Grupo Cobra, Semi and Cymi. We integrate all the technologies and systems involved in a railway line: Energy. Leader in energy supply to all railway systems. Signaling and auxiliary systems. Railway technologies worldwide. Associated civil works. To the installation of railway systems. Operation and maintenance. High speed, conventional network, trams and subways. Solutions. Turnkey solutions. Concessions and Public-Private Associations.

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SICE TECNOLOGÍA Y SISTEMAS, S.A. (SICE TYS)

SICE Tecnología y Sistemas, (SICE TYS) is a group of companies that provides solutions and systems for Transport and Traffic, Environment and Energy efficiency, Smartcities and Telecommunications. SICE TyS, as systems integrator, offers technological solutions adapted to the railways sector, conceiving a centralized management with functionalities oriented to the operation of public and private transport, integrating: - Security Systems - Telecommunications Systems - Signaling (Interlockings, Level Crossings, CTC) (ENYSE) - Automatic Fare Collection - Traffic Prioritization of Public Transport - Engineering (OFITECO): railway lines; Tunnel monitoring; Load test (railways bridges).

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SIEMENS MOBILITY, SLU

Siemens Mobility is a separately managed company of Siemens AG. As a leader in transport solutions for more than 160 years, Siemens Mobility is constantly innovating its portfolio in its core areas of rolling stock, rail automation and electrification, turnkey systems, intelligent traffic systems as well as related services. With digitalization, Siemens Mobility is enabling mobility operators worldwide to make infrastructure intelligent, increase value sustainably over the entire lifecycle, enhance passenger experience and guarantee availability.

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SMART MOTORS

Smart Motors applies new technologies to generate added value from the monitoring of critical railway assets that believe that Digitalization and the uses of advanced analytics are the way to service excellence. The priority is to generate new knowledge about the operation of railway assets that satisfies the requirements of the most demanding environments and with a real day to day contribution. Smart motors has its own Digitalization Platform to help maintenance and operation that brings together signaling monitoring systems, infrastructure and rolling stock, as well as IoT sensors adapted to the railway sector.

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S.A.E. IBERTEST

IBERTEST is a company that has been developing, manufacturing, and supplying mechanical testing systems for materials and components since 1970. We provide our systems for various sectors, including the railway industry, and consistently adhere to the highest standards of quality and technology. Additionally, we offer turnkey projects for the creation of laboratories and national reference centres for testing, quality control, research and training. Our integrated approach allows us to provide global solutions for research and quality control of a wide variety of materials and components.

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Talleres Alegría, s.a.

TALLERES ALEGRÍA, S.A.

Talleres Alegría, s.a. is a family owned company devoted since 1900 to design, manufacturing and after sales assistance of all kind of fixed track material, its accessories and spare parts. Developing of Designing and Commissioning Integral projects of turnouts to be installed at Depots and Industrial Ports and Factories. Design, manufacturing, repair and maintenance of self propelled vehicles to carry out works at the infrastructure. Design, manufacturing, retrofitting, repair and maintenance of freight wagons.

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TECNIVIAL, S.A.

In TECNIVIAL we specialize in all types of fixed signalling for track (Marker Boards), conventional lines and High Speed lines. We are one of the companies approved by the Spanish Railway Infrastructure Administrator (Adif) and the others. The last product boosted to the market have been the NANOTEC SIGNS (R+D). The incorporation of cutting-edge materials (carbon nanoparticles) to the signs manufacturing, allows the improvement of its behavior and mechanical features: light, corrosion-free, low residual value and maintenance, eco-friendly, resistant to loads (snow/wind). Besides, we develop Corporate Image projects according to the needs of the customer; design & installation.

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**TEKNIKER**

R&D center oriented to technology transfer through research projects.

Specialization areas:

- Advanced manufacturing: laser processes, LMD coating and repair, cutting processes
- Surface engineering: friction and wear studies, physical-chemical coatings seeking to improve anti-corrosion, wear, easy cleaning, anti-adherence, optical and aesthetic characteristics
- ICTs: solutions for inspection and measurement based on vision and AI techniques, O&M, condition monitoring, data management, Smart components, sensor development
- Product engineering: new product development, tribological testing, fault diagnosis.

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**TELDAT S.A**

Since 1985, Teldat has been providing solutions for cloud access, remote office communications, cybersecurity and voice/data connectivity both in the office and in specific environments (industrial, railway, vehicles or public services). Teldat invests heavily in R&D&I including technologies such as network virtualisation, artificial intelligence, Federated Learning, 5G and DLT. Combined with its ability to work closely with its customers according to the specific needs of each project, it is among the European leaders in the corporate communications market. Present in more than 40 countries, it has headquarters in both Spain and Germany.

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**TELICE, S.A**

Telice is an international company, with more than 45 years of experience in different markets related to cutting-edge technology and standing out in the railway market. Its activity covers the design, installation and maintenance of railway electrification systems, safety and railway signalling, electrical substations, civil engineering projects, industrial electricity, fibre optic installation, industrial automation and safety systems in tunnels, underground and mining projects. Due to its wide expertise, Telice has become preference collaborator for the main railway administrations. Telice has international presence in Norway, United Kingdom, Portugal, Peru, Chile and Brazil.

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**TRAFAG**

Trafag is a Swiss manufacturer of pressure, temperature, level and SF6 gas density sensors, as well as a supplier of speed sensors. Present along the whole world and, managing from Spain the Iberian Peninsula and Latin America.

Sectors of activity: railway, hydrogen, hydraulics, pneumatics, renewables, shipbuilding, test benches, big engines, EX zones...

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**TYPESA**

Founded in 1966, TYPESA is a leading consulting engineering group in the fields of transport, buildings, water, environment, energy and rural development. We have a long-standing relationship with public, private and institutional clients in the Americas, Europe, Africa, Asia and the Middle East, assisting them in the development of infrastructure, energy and city projects from concept to completion. In addition to providing world-class engineering services, TYPESA has extensive experience in building the capacity of local firms and in strengthening institutions to guarantee the sustainability of the infrastructure.

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**ULMA FORJA S.COOP.**

Ulma Forja S.Coop is a cooperative company, part of Ulma Group and specialized in the manufacturing of Forged Components. With more than 50 years of experience and with two production plants (Oñati and Lazkao), we offer forged and machined components of high quality. We produce our pieces forged from a wide variety of materials to meet the different requirements and needs of our customers in many industries.

In the railway sector, Ulma collaborates with companies in the value chain to which supplies forged components in different materials such as carbon steel, aluminium or low alloy, among others.

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**TELTRONIC**

Backed by over 40 years of experience in the design, manufacturing, and deployment of Professional mobile radio projects on a turnkey basis, Teltronic presents a broad portfolio of critical communication solutions for transport sector, providing complete solutions: network infrastructure, control centre, and end-user equipment, including specialized onboard systems specifically designed for train, metro, tram and LTR. Besides voice and data transmission solutions, the company offers integration services with other subsystems: PA and intercom, applications to manage and control fleets and for operating aid, real time CCTV or communications support for signalling systems ETCS, CBTC, PTC...

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**THALES ESPAÑA GRP, S.A.U.**

Thales is a World leader in Mission Critical Solutions for Land Transportation. Thales Spain, with more than 60 years of experience, has been pioneer and leader in the technological development of the Spanish railways, being one of the main suppliers of safety and telecommunication systems for the Spanish Railways Administrations and present in countries as Turkey, Mexico, Algeria, Malaysia and Morocco. Its activity goes from the development, manufacturing installation, commissioning to the maintenance of equipments and systems for railway signalling, train control, Telecommunication, Supervision ticketing and critical infrastructures security.

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**TPF GETINSA EUROESTUDIOS, S.L.**

Passion for excellence

Our priority : developing solutions that meet our client needs. This approach is based on three pillars: expertise, efficiency and continuous innovation.

Today, TPF is ranked among the most important multidisciplinary companies active in the following sectors: building, transport infrastructure, water and energy.

Over the years, the group successively expanded in Europe, Asia, Africa and America through a series of acquisitions and became a key player, internationally recognized in its field.

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**URETEK SOLUCIONES INNOVADORAS, S.L.U**

We are the inventors of consolidation with Expansive Resins. Our patented technologies are the most used in the world, with more than 100,000 interventions carried out. Our high technology, the quality of the interventions and more than 30 years of experience, we have become the reference for the consolidation of land with injections of expansive resin to be able to provide multiple solutions to your problems. We are committed to repairing structures without interfering with life and activities, in particular we use unique and patented innovative technologies that are fast and conservative.

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**VALDEPINTO, S.L.**

Valdepinto, S.L. was established in 1986 and focuses its activities in the Railway sector.

We have four main product lines:

- All types of machining (specialists in electrical insulation).
- Screen printing, Signs and Engraving low-relief.
- Metal transformation and welding.
- Design and fabrication of transformers and coils of high/low voltage. Our philosophy is to always offer all our clients an unbeatable value for Money, combined with an excellent service.

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**VIRLAB VALDEPINTO, S.L.**

Virlab is a reference laboratory for dynamic vibration and shock testing. Created in 1976 and located between San Sebastian and Toulouse and less than one hour from Biarritz airport (France), the laboratory develops accredited tests for equipment that may be subject to earthquakes or other types of vibrations and shocks.

Virlab's laboratory tests electrical, mechanical and instrumentation components, equipment and systems that, due to their use, may be subject to compliance with specific regulations under seismic, vibration or shock conditions.

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**VICOMTECH**

Vicomtech is an applied research centre specialising in Artificial Intelligence, working on technological solutions based on Computer Vision, Data Analytics, Computer Graphics, Advanced Media Technologies and Language Technologies. It aims at meeting the innovation requirements of the local companies and institutions to face new economic and social challenges, and improving their competitiveness in a global market. The transfer mechanism for this research is the creation of R+D+i projects geared to companies' needs. Furthermore, the centre works intensively on cooperation projects, through cooperative technology development promotion schemes at local, national and international level.

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**voestalpine Railway Systems JEZ, S.L.**

We are committed to the designing, manufacturing, supplying and maintenance of all types of manganese steel switches and railway track systems for railways and tramways, in addition to moulded cast steel parts for the general industry. Our Technical Department (Department R&D) ensures we have the capability of designing and producing points and crossings (turnouts, crossovers, scissor crossovers and diamond crossings) or parts for them, such as hard steel manganese crossings, spare tongues... as well as the generation of patents.

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**VOLGELSANG**

As the inventor of the elastomer-coated rotary lobe pump and a pioneer in the area of vacuum wastewater technology, we have been supplying technical solutions whose functionality, quality and reliability set the benchmark for our competitors. Renowned railway companies such as the Deutsche Bahn among other international companies put their trust in our intelligently designed solutions for wastewater disposal and fresh water supply as well as Vogelsang's demand-oriented technical equipment. These include systems mobile solutions, maintenance for bioreactor toilet systems as well as servicing and cleaning to ensure the highest standards regarding hygiene, usability and cost-efficiency.

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**WSP SPAIN**

As one of the world's leading professional services firms, WSP provides engineering and design services to clients in the Transportation & Infrastructure, Property & Buildings, Environment, Power & Energy, Resources and Industry sectors, as well as offering strategic advisory services. Our experts include engineers, advisors, technicians, scientists, architects, planners, surveyors and environmental specialists, as well as other design, program and construction management professionals. With approximately 49,000 talented people globally, we are uniquely positioned to deliver successful and sustainable projects, wherever our clients need us.

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**ZELEROS**

Zeleros is the Spanish company developing a hyperloop transport system, already considered as "the fifth means of transport". Its focus on the vehicle optimization allows to reduce infrastructure costs and to operate at safer pressures for the passengers. Zeleros has already raised substantial private and public support, and collaborates with companies such as Renfe (Trenlab) and Altran, research centers (Universitat Politècnica de València, CIEMAT, UPM) and is supported by investors such as Plug and Play, Angels or ClimateKIC. Currently Zeleros is preparing the construction of its own 2-kilometer test-track in Sagunto to demonstrate the system at high speed.

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**ZITRON, S.A.**

ZITRON is a world-wide leading company in designing, manufacturing, commissioning and maintenance complete ventilation systems for metro and tunnels. ZITRON has the world's biggest aerodynamic test bench, certified by AMCA, for testing fans at full load and 100 % speed. ZITRON's extensive reference list includes more than 500 metro and tunnel projects. The latest and more significant ones are Crossrail in London and Doha Metro. Experience and know-how, providing innovative and tailor-made solutions, are our most appreciated values. The global growing market of ZITRON's fans, along with the high level of satisfaction of the Clients is the best mark of its equipment and services quality.

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At the forefront of rails solutions



ArcelorMittal

ArcelorMittal Rails & Special Sections with production facilities in Poland, Luxembourg and Spain, offers a wide portfolio of products, covering rails for subways, trams, trains, light rails, crane rails, crossings and rail accessories. ArcelorMittal is a specialist in rails for high-speed networks, with over one million tonnes produced and is present in infrastructure projects in over 30 countries. Its high technologic quality allows us to participate in the most demanding tenders all over the world.

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