DI T E C F E R

DISTRICT FOR RAIL TECHNOLOGIES, HIGH SPEED, NETWORKS’ SAFETY & SECURITY

DIGITAL & GREEN

CONSORTIUM PROFILE
DITECFER District for Rail Technologies, High Speed, Networks’ Safety & Security is a consortium based in Tuscany-Italy. It has been established in 2014 as operational “spin off” of the Tuscany Regional Cluster for Rail Technologies, and is devoted to stronger collaboration between companies on international markets and for R&D and Innovation.

The 55 DITECFER shareholders are composed by 50 companies from several regions of Italy operating in the Rail Industry, 2 Scientific Bodies specialized in Technologies applied to Rail and 3 Industry Associations.

DITECFER shareholders represent the entire Rail Supply Chain: from Rolling Stock design, manufacturing, maintenance, to Infrastructure realization; from Signalling and Control Systems development, production, testing, installation, maintenance, to Certification and Homologation; from R&D to Education and Training. Thanks to R&I activities and a very long experience in the field, DITECFER companies can easily integrate their competences to provide solutions to challenging issues affecting the Railway sector worldwide.

Tuscany, as our headquarter, is home to key National and European Railway stakeholders: from the Italian National Safety Authority for Railways (ANSF) to the Italian State Railways Laboratory for Certification and Homologation of Rolling Stock (Italcertifer); from the R&D Centre of the Italian State Railway Infrastructure Manager (RFI) to the Technical Department of the Italian State Train Operator (Trenitalia).

Also the Florence School of Regulation - Rail Transport Area - European University Institute is based in Tuscany (FSR).

At European level DITECFER is part of ERCI-European Railway Clusters Initiative ASBL, based in Brussels, currently assembling 16 Clusters covering 17 European Countries.
At EU level DITECFER is member of the Expert Group on the Competitiveness of the Rail Supply Chain of the European Commission.

DITECFER regularly develops and coordinates EU-funded projects for the innovation, competitiveness, resilience and internationalisation of the Rail Supply Industry, with specific attention to supporting SMEs. Projects include the COSME-funded projects “PERES” (SMEs internationalisation in USA and India), “EXXTRA” (Cluster Excellence), “S-ACCESS” (SMEs participation in international railway public procurements in USA, Canada, Norway) and “STARS” (adoption of Advanced Technologies by more traditional SMEs), and the “LEADER 2030” project (forecasting vulnerabilities in supplies for railway innovations in 2030), funded by the Europe’s Rail programme.

Also, at EU level DITECFER is also currently partner of the projects “E-BOOST” for the development of the EU-based electromobility supply chain - funded by the SMP-Single Market Programme of the EU -, and “IDEALIST” for the resilience of critical supply chains, funded by the Horizon Europe programme.
SHAREHOLDERS
55

COMPANIES
50
RESEARCH BODIES
2
INDUSTRIAL ASSOCIATIONS
3

COMPANIES’ EMPLOYEES
30,000+

COMPANIES’ TURNOVER
4+ billion Euro

PATENTS OWNED
BY COMPANIES
300+

PATENTS OWNED
BY ALL SHAREHOLDERS
700+
Collaboration
Collaboration is our first inspiring and founding principle. Each of our actions aims to promote internal collaboration among shareholders and external collaboration with all regional, national, European and international stakeholders with whom we identify mutual growth opportunities.

Innovation
Innovation is our second inspiring and founding principle. Each of our actions aims to promote and support innovation processes inside our shareholders and for our shareholders: products, services, processes, organization and working methods. The world changes and we have to be able to change before it does.

Fair competition
Fair competition is a fundamental element of the freedom of enterprise and of the free market. We respect antitrust and competition laws, and we support the free access to the market and the competitiveness based on quality and innovation.

Confidentiality
Confidentiality of information is a founding element upon which we build our relationships, our collaborations, our development projects as Cluster.

Excellence
We are committed every day to improve our work and to make it excellent for today and tomorrow. Excellence—for us—is to perform our mission with effectiveness and professionality, to create value for our shareholders, to realise the vision to become a world-class cluster.

Contamination
We love to be contaminated by other sectors and by each and every experience that can teach, inspire and foster innovation. We believe in inflows and outflows of knowledge as accelerators of innovation.

Sustainability
We believe “Planet B” does not exist. We believe in railway transportation as the greenest means of transport and we contribute to improve its environmental performances and to save resources. We believe each of us can contribute to reducing environmental impact of our technologies and our actions.

Diversity
We care about diversity in all its forms. Diversity is part of us; diversity is richness; diversity must be respected and defended. We are committed to make of railway transportation an environment where no diversity can limit the need to move and the experience of mobility.

Commitment
As social stakeholders we care about society and new generations. Our ecosystem is made of companies, research centers, institutions but also education and training centers. For this we have the possibility to inspire the new generations with our passion and to train them with our knowledge. We would like the new generations—boys and girls—to love a job in the railway sector as we do.
DITECFER Ethical Code and commitment aims to contribute to the achievement of the following Sustainable Development Goals (SDGs) adopted by the United Nations and lying at the heart of its "The 2030 Agenda for Sustainable Development".
VALUE CHAINS

SAFETY

BEDIMENSIONAL S.p.A.
ELETTROMECCANICA L.A. S.r.l.
CAMANELLA COSTRUZIONI MECCANICHE S.r.l.
Z LAB S.r.l.
VDS RAIL S.r.l.
THALES ITALIA S.p.A.
CENTRO RICERCHE E ATTIVITÀ INDUSTRIALI S.r.l.
MERMEC S.p.A.
IVM S.r.l.
M.A.I. CONSULTING S.r.l.
CENTRO RICERCHE E ATTIVITÀ INDUSTRIALI S.r.l.

MAINTAINABILITY

Z LAB S.r.l.
LCI ITALY S.p.A.
ARGOS ENGINEERING S.r.l.
CAMOZZI INDUSTRIES S.p.A.
ALMAWAVE S.p.A.
ICTECH S.p.A.
CNR - CONSIGLIO NAZIONALE DELLE RICERCHE
ENGINEERING INGEGNERIA INFORMATICA S.p.A.
ENGINEERING INGEGNERIA INFORMATICA S.p.A.
ITL ITALIA S.r.l. (KONI/AXTONE)
LUCCINI RS S.p.A.
UNIKA S.p.A
ENGINEERING INGEGNERIA INFORMATICA S.p.A.
I.S.E. INGEGNERIA DEI SISTEMI ELETTRONICI S.r.l.
ETS S.r.l.
OFFICINE MARIO DORIN S.p.A.
ETS S.r.l.
PROGRESS RAIL SIGNALING S.p.A.
BENZ S.r.l.
INTECS SOLUTIONS S.p.A.
DNA ITALIA S.r.l.
INTECS SOLUTIONS S.p.A.
IDS INGEGNERIA DEI SISTEMI S.p.A.
IDS INGEGNERIA DEI SISTEMI S.p.A.
KEY WORDS OF OUR ACTIVITIES:
Artificial intelligence, Smart Maintenance, Generative AI, Automation, Sustainability, Smart Mobility, Customer Experience.

HOW WE CAN ADD VALUE TO YOU:
Almawave is an Italian-leading player within Artificial Intelligence, Natural Language Processing and Big Data services, with a distinctive presence in the Italian and international markets. Our proprietary technologies, based on Machine Learning, Deep Learning, and Natural Language Processing, are applicable to everyday life, offering solutions tailored to meet and satisfy customer needs. We shape the future of mobility by leveraging our expertise and creating a sustainable, multi-channel, and service-rich transportation ecosystem. We accelerate innovation with the goal of generating new and improved mobility experiences.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Maintainability
+ Safety
+ Security
+ Environment
+ Energy Efficiency
+ Digitalization

MAIN REFERENCES:
Trenitalia, RFI, FS Holding, Italferr, Ferservizi, ANAS, Concessioni Autostradali Venete, Ente Autonomo Voltorno, Ministero delle infrastrutture e dei trasporti, TUA

CERTIFICATIONS:

CONTACTS:
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Website: www.almawave.com
ARGOS ENGINEERING S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Design, prototype, virtual prototype, system integration, big 3D model assembly, innovative interiors.

HOW WE CAN ADD VALUE TO YOU:
Many years' experience in engineering, design and problem-solving of Metro and Rail Vehicles for Passengers, and in innovative interior design for Rail and Metro vehicles. Capability to reduce the environmental impact and energy consumption of on-board systems such as Air Conditioning.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Waste management
+ Accessibility
- Energy
- Vibrations
+ Security

MAIN REFERENCES:
Hitachi Rail Italy, AnsaldoBreda, Titagarh Firema Adler, Coplass, Rustici

CERTIFICATIONS:
ISO 9001

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**BEDIMENSIONAL S.p.A.**

**KEY WORDS OF OUR ACTIVITIES:**
Graphene production, two-dimensional crystal production, 2D boron nitride production, customized solutions, performance improvement, innovation, nanotechnology.

**HOW WE CAN ADD VALUE TO YOU:**
The innovative start-up BeDimensional S.p.A. was born as a spin-off company of IIT - Italian Institute of Technology and its activity is based on two main directions:
- To produce graphene and other two-dimensional crystals on an industrial scale, maintaining a high quality standard of the product.
- Offer unique and customized solutions to improve and innovate the performance of our customers’ products, changing the material through the use of our two-dimensional crystals and the application of our know-how with scientific method.

BeDimensional, thanks to its scientific know-how, has developed specific methods to integrate graphene or other 2D crystals in thermoplastic polymers, thermosetting polymers, rubber, liquid dispersions or in the formulation of inks for the realization of functional coatings.

With our additives we can improve, for example, the mechanical properties and electrical and/or thermal conductivity of a polymer, giving it greater resistance and speed of heat dissipation than standard products currently on the market. Or we can improve these properties in a membrane, drastically reducing abrasion-induced wear and making it multi-functional. These are just a few examples, the improvements and possibilities are countless.

The sectors to which we refer and for which the solutions created can have a fundamental importance for the realization of materials and / or devices of new conception are many: Aeronautics, Aerospace, Automotive, Construction, Electronics, Energy, Rail, Nautical, Optics, Sport, Textile.

**CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:**
+ Energy efficiency / saving
+ Safety
+ Maintainability
+ Rail competitiveness

**MAIN REFERENCES:**
Italian Institute of Technology, Kask and many more

**CERTIFICATIONS:**

**CONTACTS:**
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Website: www.bedimensional.com
**KEY WORDS OF OUR ACTIVITIES:**
Mobile mixing plant for concrete production, Plant for concretes, cementitious mixtures, mortars and cold asphalt, Railway solutions, Railway mixers.

**HOW WE CAN ADD VALUE TO YOU:**
Many years’ experience in design, production and problem-solving. We have determination and passion to study the best solution for our customer. Good knowledge of technical components and dosing processes made possible the construction of mobile plants that reflect requirements of each customer. Automation of production system, higher safety, production of concrete with requested qualities, improvement of workplace conditions.

**CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:**
+ Maintainability + Rail Competitiveness

**MAIN REFERENCES:**
London Underground, CCF – Generali Costruzioni Ferroviarie (for the Alpine Mount Ceneri Tunnel along the Gotthard Railway Corridor), Balfour Beatty, Ineo Scle ferroviaire, Alpiq

**CONTACTS:**
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Website: www.blendplants.com
CAMOZZI GROUP S.p.A.

KEY WORDS OF OUR ACTIVITIES:


Automation Division: components and systems for mobile automation. Pneumatics components, electrical actuation, components for fluid control systems. Ex.: door opening, coach engagement, toilet systems, braking system, seat adjustment, pantograph control, windscreen wiper and washer, air conditioning, drink dispense, air suspension, body tilting, horn control.

Manufacturing Division: cast iron foundry (1 kg to 120 tons), aluminium foundry, machining, brass forging, plastic moulding, metal carpentry.

HOW WE CAN ADD VALUE TO YOU:

The strength of a Group with over 50 years of experience that can ensure the same high quality standard for products and processes in all the Group companies. A unique Solution Provider with a deep knowledge of materials, applications, experience in processing and technology development.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:

+ Environment
+ Accessibility
+ Reliability
+ Energy efficiency

+ Maintainability
+ Safety
+ Security
+ Rail Competitiveness

CERTIFICATIONS:

9001 27001 14001

CONTACTS:

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Website: www.innse-berardi.com
CAMPANELLA COSTRUZIONI MECCANICHE S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Carpentry constructions, CAD 3D, CAD/CAM, artefacts welded to the enclosure up to final furniture.

HOW WE CAN ADD VALUE TO YOU:
Development of carpentry and welded artefacts for Railway vehicles, HVAC, electric traction systems, toilette systems, interiors, rail electrification systems, signalling systems.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment  - Noise and Vibrations

MAIN REFERENCES:
Hitachi Rail Italy, Bombadier, Siemens, Alstom, Deutsche Bahn

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
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Email: stefano@campanellacm.com | paolo@campanella.com  
Mob: +39 339 4616194  
Website: www.campanellacm.com
KEY WORDS OF OUR ACTIVITIES:
Mechanical design of carbodies, bogies, interiors, onboard systems, rolling stock, welded structures, pantographs, coupling systems. 3D modeling and technical drawings, industrialization, FEM calculations, structural analysis, fatigue and overload calculations, weight optimization, structural optimization, shock and vibrations, weld verification. Revamping/upgrading of heavy and light rail vehicles, locos and bogies. Consultancy, technical specifications, use and maintenance manuals. CFD simulations, aerodynamics, thermal simulations, thermal comfort, HVAC simulation, ventilation, fire safety. Running dynamics, multibody dynamics, R&D.

HOW WE CAN ADD VALUE TO YOU:
World-class experience (more than 35 years) in the development of railway vehicles and their components meeting international standards, time and costs required. Vast know-how covering all the phases of vehicle mechanical design including both structural and thermal aspects. Complete design from conception to calculation/simulation and industrialization. Vehicle optimization in terms of weight, reliability, energy consumption and comfort.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Intermodality
+ Maintainability
- Energy
- Noise and Vibrations
+ Safety

MAIN REFERENCES:
Railway/Tramway: Hitachi Rail, AnsaldoBreda, Alstom, Trenitalia, Titagarh Firema, Bombardier, ABB, Keller, EuroTunnel, ECM. Railbound Construction, Maintenance and Inspection Machines: Plasser&Theurer, Colmar, MERMEC.

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
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Mob: +39 348 7037994 | +39 339 8739511
Website: www.creai.it
CO.EL.DA. SOFTWARE s.r.l.

KEY WORDS OF OUR ACTIVITIES:
Software development and customisation, Data Analysis, IT services and consulting.

HOW WE CAN ADD VALUE TO YOU:
Expertise of COELDA in the field of transports:
• Intelligent transportation systems (ITS) with the adoption of automated solutions (like self-driving wagons) for logistics and multimodal freight transport;
• Transportation centers management and organization with specifics software and GPS devices;
• Freight flow modeling to optimize logistics operations between modes and hubs with advanced technologies.
Other areas of activity: Software for Enterprise Management and Business Administration/Accounting; Document Management System; Office automation.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Maintainability
+ Safety
+ Security
+ Capacity
+ Reliability
+ Availability
+ Environment
+ Interoperability
+ Energy Efficiency
+ Digitalization

MAIN REFERENCES:
Client Portfolio includes: port Authorities (currently about 70% of Italy - Gioia Tauro, Catania, Civitavecchia, Livorno, ...), municipalities (Città Metropolitana di Reggio Calabria), aqueducts, Chambers of Commerce, public entities.

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
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Website: www.coelda.it
KEY WORDS OF OUR ACTIVITIES:
Simulation, Simulator, Training, Interlocking, ACEI, A.C.E.I., Maintenance, Drivers, Handlers, Maintainers, Engineering, CBT, WBT, Electrification, Substations, Harmonics analysis, Crowd dynamics, Big data, Datawarehouse

HOW WE CAN ADD VALUE TO YOU:
More than forty years of experience in development of software for railway engineering.
Italian leaders in the field of simulators for training of personnel of railways and local transport systems (train drivers, station masters, maintainers, handlers, bus and trolleybus drivers).
Integrated simulation, that is the possibility to jointly use our simulators in order to simulate the complete transportation network and to train at the same time all the professionals involved.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability
+ Energy efficiency
+ Security
+ Safety
+ Rail Competitiveness
+ Urban Transport Efficiency

MAIN REFERENCES:
Trenord (Rail Operator), Ferrovie Nord (Infrastructure Manager, RFI (Italian National Infrastructure Manager), Municipality of Venice

CERTIFICATIONS:
ISO 9001

CONTACTS:
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Website: www.shrail.it
**KEY WORDS OF OUR ACTIVITIES:**
Design of infrastructure for high, medium and low voltage electric lines and electric traction lines. Installation, maintenance of high, medium and low voltage of electric lines, telephonic lines, electric traction lines and signaling's safety lines in railway place, metro, urban rail and tram line.

**HOW WE CAN ADD VALUE TO YOU:**
50 years' experience in engineering, maintenance, construction, electric traction lines, signalling for rail and metro lines.

**CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:**
- Energy efficiency
- Urban Transport Efficiency
- Safety

**MAIN REFERENCES:**
RFI (Italian National Infrastructure Manager), ITALFERR, SBB, RFT (Tuscany Regional Infrastructure Manager), UM (Umbria Regional Infrastructure Manager), ALSTOM, SIRTI, GCF, SALCEF, GEST (Florence Tramway Infrastructure Manager), TPER (Bologna Metropolitan Infrastructure Manager), ...

**CERTIFICATIONS:**
- ISO 9001
- ISO 14001
- EN ISO 12100:2010
- OHSAS 18001
- SA 8000
- EcoVadis Silver Rating
- Legality Rating

**CONTACTS:**
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*Website:* www.elettri-fer.it
KEY WORDS OF OUR ACTIVITIES:
High Speed, Mass transit, Locomotives, electrical systems Switchboards, LED technology, railway carriages.

HOW WE CAN ADD VALUE TO YOU:
Elettromeccanica L.A. was born in 2000 as a company specialized in the construction of electrical systems on the machine, wiring of electrical panels and lighting systems applied to the sector of railway vehicles. The company has developed and implemented many projects that have enabled the acquisition of important technical-professional skills, allowing it to apply among the reference companies for the construction of complete electrical systems on board the vehicle. We are a leader in the production of lighting systems with LED technology, low and medium voltage switchboards, maneuvering benches, medium voltage switchboards for railway substations, low and medium voltage electric installations and doors on railway carriages with relative supply of cable cutting pre-wired. Maintenance, overhaul and refurbishment of electrical and pneumatic systems, disassembly and refurbishment of furnishings directly on the yards of our main customers. Personnel qualified and certified by VIS to operate on the safety organs of railway rolling stock in compliance with COCS 30.4, Area dedicated to the construction of light carpentry with fold, laser cutting and welding. We create products based on drawings supplied by the customer or designed by ourselves. The expertise of our technicians gained on functional tests of entire rail and tram vehicles, carried out directly by our customers, as well as all aspects related to them, such as retrofit interventions, after-sales guarantee and direct relationship with the final customer for commissioning, guarantee maximum assistance and professionalism in the face of all kinds of problems.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Maintainability
+ Safety
+ Security
+ Capacity
+ Reliability
+ Availability
+ Environment
+ Energy Efficiency
+ Accessibility

MAIN REFERENCES:
Trenitalia, Hitachi Rail, Siemens, Alstom, AnsaldoBreda, CAF, Trenord, ATM, Rete Ferroviaria Italiana, Sitav

CERTIFICATIONS:

CONTACTS:
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Website: www.elettromeccanicala.com
KEY WORDS OF OUR ACTIVITIES:
Design and production of electrical and electronic equipment

HOW WE CAN ADD VALUE TO YOU:
The right partner for your PHT and SMT mounting; technically qualified staff with great experience in engineering, and mounting electronic boards. The company has a fully automated assembly line, and a complete line for conformal coating, used exclusively by qualified staff in possession of IPC certifications. Extremely effective, dynamic and flexible it allows our customer to have in very short time even the most complex prototypes.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Security
+ Interoperability
- Energy

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

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KEY WORDS OF OUR ACTIVITIES:
Digital transformation, Mobility as a Service, Smart Transportation for people goods assets and infrastructures, Automation control systems, Diagnostic & Maintenance systems, TLC systems, AFC systems, On-board systems, Data analytics, Pricing & Payment models.

HOW WE CAN ADD VALUE TO YOU:
With around 11,000 professionals in 65 locations (in Italy, Belgium, Germany, Norway, Republic of Serbia, Spain, Sweden, Switzerland, Argentina, Brazil and the USA), the Engineering Group designs, develops and manages innovative solutions for the business areas where digitalization is having the biggest impact. With significant investments in R&D, Engineering plays a leading role in research, by coordinating national and international projects thanks to its team of 420 researchers and data scientists and a network of academic partners and universities throughout Europe.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Digitalization
+ Cybersecurity
+ Safety
+ Railway competitiveness
+ Security
+ Reliability

MAIN REFERENCES:
Hitachi Rail STS, RFI, Salini Impregilo, FCA, TotalERG, ESA, NATO and many many more

CERTIFICATIONS:
ISO 9001 14001 20001 27001

CONTACTS:
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Website: www.eng.it
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
Thorough know-how in simulation and engineering of new railway vehicles.
Among the possible applications for new and existing vehicles: Weight optimization, Rail brakes reliability improvement, Residual stress of railway wheels, Gear noise reduction, HVAC optimization.
Predictive/perspective maintenance of electrical and electronic system/component.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Rail Competitiveness
+ Environment
+ Safety
+ Energy
- Energy

MAIN REFERENCES:
Hitachi Rail Italy, AnsaldoBreda, IVECO, Piaggio Group, Aprilia Racing, Leonardo Velivoli, Leonardo Difesa, Saipem

CERTIFICATIONS:
ISO 9001

CONTACTS:
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**KEY WORDS OF OUR ACTIVITIES:**
Engineering, architecture, design, BIM, maintenance, infrastructure, social value, geotechnics, diagnostics, innovation, R&D, risk management

**HOW WE CAN ADD VALUE TO YOU:**
ETS s.r.l. is a civil engineering company that offers infrastructural and architectural design services, surveying services, mobile mapping and geotechnical geological studies. ETS is at the forefront of railway and road projects. Our expertise concerns structural and geotechnical engineering, seismic vulnerability studies, mobile mapping, rock slope mapping, hydraulic studies, bathymetric surveys and architecture. ETS is a high-technology company that generates innovation in its target markets through significant R&D investments. ETS is the owner of ARCHITA, a unique and innovative system for mobile mapping surveys of linear infrastructures, MIRET - Management and Identification of the Risk for Existing Tunnels, a Facility Management system for infrastructures. From design to engineering, construction and operation From design and engineering to construction and management, ETS aims for delivering specialized services across the entire project life cycle. ETS develop their own projects with the support of BIM (Building Information Modelling), in compliance with the standards in the UNI 11337 and the BS 182 and PAS 182-2: 2013 guidelines with return of the Data Base, composed of a Confederate Data Model and related Information Contents. The Company is certified ISO 9001:2015, ISO 14001:2016, ISO 45001:2018, ISO 37001:2016, SA8000, RFI SQ003, ITALFERR SQ001 and ENVISION ITALIA SUPPORTER to support the green topic of sustainable infrastructure design. ETS thanks to its innovative services in engineering and diagnostics of infrastructures, is present in national and international Contests: it won DITECFER 2019 and 2021, Ground Engineering Awards 2020 (Technical Innovation) and was finalist at Ground Engineering Awards 2021, NCE Tech Festival 2021.

**CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:**
+ Maintainability
+ Safety
+ Security
+ Reliability
+ Availability
+ Environment
+ Digitalisation

**MAIN REFERENCES:**

**CERTIFICATIONS:**

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KEY WORDS OF OUR ACTIVITIES:
Rolling Stock, Railway Equipment, Prototypes, 3D models, Rubber, Metal, Impactor Foam and Absorbing Materials

HOW WE CAN ADD VALUE TO YOU:
Many years' experience in design, engineering, industrialization, production/assembly of technical products in plastics, rubber, metal, sheet metal and precision mechanical machining. The Technical Office can support Customers for supply of Rolling Stock and Railway Equipment through engineering and co-design activities to improve the solutions or develop new ones.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment  
+ Capacity  
+ Safety  
- Vibrations  
- Noise

MAIN REFERENCES:
FIAMM, Sogo, Gruppo PRIMA (PRIMA SOLE Components)

CERTIFICATIONS:

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Website: www.eurofi.it
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
Operating for almost 25 years in the fire prevention sector through the construction of extinguishing systems based on potassium carbonate.
We were among the first to invest in Aerosol Technology, its potential development and its new applications.
We believe that innovation is at the basis of the security research process and the creation of value; we believe that giving shape to innovation means discovering new materials, creating new products, searching for new applications following, with constant commitment, a project able to ensure simple and effective solutions for a wide range of fields.
These principles have inspired us in the development of Aerosol Extinguishing Systems, believing that they can represent the future, a simpler, cleaner technology, to protect the environment, as well as an efficient and effective solution for automatic fire suppression.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Maintainability
+ Safety
+ Capacity
+ Autonomy
+ Reliability
+ Availability
+ Environment

MAIN REFERENCES:
In railways sector: Trenitalia, Trenord, Hitachi Rail Italy, Alstom, Titagarh Firema, ABB, CZ Loko, Wabtec-Faiveley, ISE, etc...
In civil/industry sector: RFI, TIM, INPS, TERNA, Tuscany Region, Museo degli Uffizi

CERTIFICATIONS:
ISO 9001

CONTACTS:
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KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
We guide manufacturers and end-users of industrial products to comply with safety, reliability, and cyber security standards. Our solutions extend to the entire industrial supply chain, spanning 5 service lines: from component compliance to the certification of entire production lines.
H-ON also has founded two independent internal divisions, which specialize respectively in occupational health and safety and management systems according to ISO 45001 and an ANSI and ISASecure® accredited certification body to issue IEC 61508 and IEC 62443 certifications.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Security
+ Digitalization
+ Reliability
+ Availability

MAIN REFERENCES:
We have references in many industrial sectors: Railway Transportation, Oil & Gas, Energy, Automotive, Metal, Plastic and many others.

CERTIFICATIONS:

CONTACTS:
Mr Francesco ROSATI
Email: francesco.rosati@h-on.it
Tel: +39 0574 870 800
Website: https://h-on.it
KEY WORDS OF OUR ACTIVITIES:
Rolling Stock complete range of solutions, for Main Line and Mass Transit systems: High Speed Trains, Intercity and Regional Trains, Conventional and Driverless Metros, Light Rail Vehicles and Trams, Services for Fleets Maintenance and Upgrading.

HOW WE CAN ADD VALUE TO YOU:
We deliver innovative solutions matching the necessities and the requirements of your transportation needs, adding value to your business in terms of safety, comfort, sustainability and attractiveness. We can support your programs and be your business partner through our proven experience in adopting Project Financing arrangements.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Waste management
+ Accessibility
+ Capacity
+ Reliability
+ Intermodality
+ Energy efficiency
- Vibrations
- Noise
+ Maintainability
+ Interoperability
+ Safety
+ Security
+Urban Transport Efficiency
+ Rail Competitiveness

MAIN REFERENCES:
Among Hitachi Rail Italy leading products: ETR1000 High Speed Train (up to 360 km/h) and relevant Full Service; CARAVAGGIO Double Deck Electric Multiple Unit; Metro Trains in Milan, Fortaleza, Miami; Driverless Metro Trains in Milan, Rome, Taipei, Riyadh, Copenhagen, Honolulu, Thessaloniki, Lima; LRV/Tram in Firenze, Zhuhai

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
Mr. Arcangelo FORNELLI
Email: arcangelo.fornelli@hitachirail.com
Tel: +39 0573 3701
Website: www.hitachirail.com
KEY WORDS OF OUR ACTIVITIES:
On-board automation systems, Embedded real-time electronic control systems and software, Integrated solutions for fire detection and fire fighting on board of railway/mass-transit vehicles/loko, Diagnostic, Monitoring and communication systems, Data management and recording units, Microprocessor vehicle logic control unit.

HOW WE CAN ADD VALUE TO YOU:
Innovative, fully-compliant to standards, on-board integrated fire alert and fire protection system for railway vehicles and locomotives. Full compliance to new European and Italian Fire Standards EN45545, EN50553, UNI11565. High-end System Engineering Capabilities, turnkey solutions supply including full documentation support, SIL Certification, Validation for Technical Admission, RAMS and LCC calculations, Field and Warranty support.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Availability
+ Maintainability
+ Environment

MAIN REFERENCES:
AnsaldoBreda – Hitachi Rail (Italy), CAF – Construcción y Auxiliar de Ferrocarriles (Spain), Alstom Ferroviaria / Alstom Transport (Italy – France), NEWAG S.A. (Poland), CZ Loko (Czech Republic), MAPNA Locomotives (Iran)

CERTIFICATIONS:

CONTACTS:
Mr Andrea CREMONCINI
Email: andrea.cremoncini@ise-srl.com
Mob: +39 335 7844284
Website: www.ise-srl.com
KEY WORDS OF OUR ACTIVITIES:
Radar-based safety systems, automatic detection of obstacles at level crossings, automatic detection of objects in high-risk zones.

HOW WE CAN ADD VALUE TO YOU:
World-class SIL 4 radar-based automatic detection system of obstacles at level crossings with warnings to trains via the existing signalling system.
World-class SIL 4 radar-based automatic detection system of fallen objects on the tracks in high-risk zones (overpasses, tunnel entrances/exits, zones prone to landslides) with alerts to the signalling system to prevent accidents.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Availability
+ Reliability
+ Rail competitiveness

MAIN REFERENCES:
RFI (Italian National Infrastructure Manager); ENAV (Italy); Fincantieri (Italy); NAVCANADA; US Department of Defence; UK Ministry of Defence; The European Space Agency; Royal Australian Air Force; BAE Systems

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
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Mob: +39 335 6984040
Website: www.idscorporation.com
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
Founded in 1974, Intecs provides the most innovative SW&HW technology, engineering services and products for dependable safety- and mission-critical electronics systems for Transportation, Telecommunication, Aerospace, Defense and Smart Systems markets in cooperation with major European and Italian Industries, Organizations, Universities and Research Centres.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety  + Availability
+ Reliability  + Rail Competitiveness

MAIN REFERENCES:

CERTIFICATIONS:

CONTACTS:
Mr Vincenzo ESPOSITO  |  Mr Giancarlo GENNARO
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Mob: +39 340 520 5671  |  +39 345 655 1394
Website: www.intecs.it
KEY WORDS OF OUR ACTIVITIES:
Planning and building of Logistic Platform “Interporto della Toscana Centrale - Prato”.
Providing Logistic Services and Intermodal transports.
Bonded Warehouse services.
Depot and manutention of shipping containers and swap-bodies.
Custom Formalities.

HOW WE CAN ADD VALUE TO YOU:
We can organize and make the best solution in terms of logistic services, including checking of logistics flow thru depot (bounded or nationally), and loading/unloading, picking and packaging goods.
We can provide intermodal transport solutions, searching the optimal MTO, wagons typologies, trucks, custom formalities, in order to ensure green and efficient value to the commodities.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
- green choises
+ Maintainability
+ Safety
+ Security
+ Cybersecurity
+ Capacity
+ Reliability
+ Availability
+ Environment
+ Interoperability
+ Energy Efficiency
+ Digitalization

MAIN REFERENCES:
Nestlé Waters, Buzzi Unicem Spa, DSV, Capp-Plast, Alisped Srl, Gruppo Focchi, Albini & Pitigliini, Kraal Company, Verallia spa

CONTACTS:
Mr. Sergio TARABUGI  |  Mr Adrian POGGIALI
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Tel: +39 0574 591342  |  +39 0574 594048  |  Mob.+39 345 0172296
Website: www.interportodellatoscana.com  |  www.mgdp.it
KEY WORDS OF OUR ACTIVITIES:
Certification and Homologation, Testing Laboratories, Rolling Stock, CCS on board and on track system, Energy, Track-side systems, NoBo, ISA/DeBO, Personnel Certification, Training, Entity in Charge of Maintenance certification.

HOW WE CAN ADD VALUE TO YOU:
As the Certification and Homologation company of the Italian National Railways, we have consolidated know-how and multiple accreditations recognized at both national and international levels in providing a wide range of services related to certification, inspection and third-party compliance assessment for the rail industry.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Interoperability  + Rail competitiveness

MAIN REFERENCES:

CERTIFICATIONS:

CONTACTS:
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Mob: +39 338 6852245 | +39 366 9001907
Website: www.italcertifer.com
KEY WORDS OF OUR ACTIVITIES:
Buffers, Shock Absorbers, Draw Gears, Crash Elements, Springs, Ring Spring, Elastomer Sets, Albert Couplers, Suspension Dumpers

HOW WE CAN ADD VALUE TO YOU:
ITT is a focused multi-industrial company that designs and manufactures highly engineered critical components and customized technology solutions in the Transport (Rail, Air, Automotive), Energy and Industrial sectors. In the Railway sector it offers solutions that ensure safety and efficiency for any type of passenger (high speed, EMU, metro, LRV, locomotives) and freight vehicles (locomotives, wagons, tanks). Thanks to the international character of the AXTONE Group, our solutions fulfil the requirements of the European, UIC, Russian GOST and Chinese TB/T standards.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Availability
+ Reliability
+ Availability
- Vibrations

MAIN REFERENCES:
Our customers include companies from all over the world, representing the railway sector, as well as the industrial sector.

CONTACTS:
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Website: www.axtoneglobal.com
IVM S.r.l.

KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
IVM – Innovative Vibration Monitoring is an innovative SME, devoted to develop end-to-end monitoring & diagnostics systems, mainly focused on wheel/rail interaction, both in static and in dynamic conditions. IVM’s aim is developing monitoring & diagnostics systems with specific technical architectures and with the highest performances, able to deliver reproducible results: a key prerequisite for diagnosing degradations and to unlock reliable predictive and condition-based maintenance approaches. One of the strengths of the company is the heterogeneity of competences, which allows the development of the entire measurement chain to achieve systems with maximum measurement performance in the most reliable way, in order to be able to fully trust the results in the end. IVM main challenge is unlocking digitalization for reliable and reproducible measurements, in order to obtain usable information and not just “data”.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Vibrations Monitoring
+ Maintainability
+ Safety
+ Technology
+ Wheel/Rail Interaction
+ Environment
+ Interoperability
+ Digitalisation

MAIN REFERENCES:
RFI, Trenitalia, Siemens, CAF, Trenord, Matisa, CGF, EAV, Vossloh, Transalp, AMT Genova, AnsaldoBreda, ANM, České dráhy, TMT, ORR S.r.l.

CONTACTS:
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Tel: +39 081 188 96 300
Website: www.ivmtech.it
KEY WORDS OF OUR ACTIVITIES:
Brake and on board equipment for Railway, HVAC, Doors, Toilet Module, Design, Manufacturer

HOW WE CAN ADD VALUE TO YOU:
The Knorr-Bremse Group based in Munich is the world’s leading manufacturer of braking systems for rail and commercial vehicles. For more than 110 years now the company has pioneered the development, production, marketing and servicing of state-of-the-art braking systems. With all of its products Knorr-Bremse makes a decisive contribution to safety on road and rail around the world. Every day more than one billion people worldwide put their trust in Knorr-Bremse systems.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Reliability
+ Safety
+ Energy efficiency
+ Maintainability
+ Urban Transport Efficiency
+ Rail Competitiveness

MAIN REFERENCES:
Hitachi Rail Italy, Alstom Transport, Trenitalia

CERTIFICATIONS:
- ISO 9001
- ISO 14001
- TS 22163
- EN 15085
- ECM Maintenance Function

CONTACTS:
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Tel: +39 055 3020312
Website: www.knorr-bremse.com
KEY WORDS OF OUR ACTIVITIES:
Railway Interiors, Ceilings, Tables, Vestibules, Walls and Accessories, Glazing and Exterior Components, High-Speed Trains, Regional Trains, Main Lines, Mass Transit

HOW WE CAN ADD VALUE TO YOU:
Lippert offers a growing catalog of premium train products to serve the railway sector. We design and produce exterior and interior parts for saloon / passenger compartments, business-class sitting rooms, sleeping cars, vestibules, cabs and crew rooms and more.
We support the global Rail industry, not just Europe, with manufacturing capabilities across four continents. By offering innovative designs and a wide portfolio of standard and customized solutions, we work with our customers from start to finish to achieve the highest quality railway products.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Comfort
+ Environment
- Noise
+ Safety

MAIN REFERENCES:
Alstom, Hitachi Rail and many more.

CONTACTS:
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Website: https://www.lippertcomponents.eu/rail
KEY WORDS OF OUR ACTIVITIES:
Wheels, Axles, Tyres, Wheelsets, High Speed, Heavy haul, Mass transit, LRV, Locomotives

HOW WE CAN ADD VALUE TO YOU:
World leader in the design and production of rolling stock products. The strengths of the Group lie: in its integrated production facilities, starting from the production of steel to the assembly of finished products; in the competence of its human resources; in its know-how and organization, wholly focused on its customers and markets. For Railway Sector the Group produces a wide range of products: wheels, axles, tyres, wheelsets for all rolling stock such as high speed intercity, heavy haul and mass transit system. Lucchini RS Group meets the international demand through its companies network in Italy, the United Kingdom, Sweden, Poland, Belgium, Austria, India, China, South Africa and North America.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
- Noise and Vibrations  + Reliability
  + Maintainability  + Availability
  + Safety  + Environment

MAIN REFERENCES:
Hitachi Rail Italy, Siemens AG, Bombardier, Alstom, Stadler Rail, CSR, CNR, Hyundai Rotem, Pesa, Trenitalia, Trenord, ATM, ATAC, Danieli, Fincantieri

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

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Tel: +39 035 963111
Website: www.lucchinirs.com
KEY WORDS OF OUR ACTIVITIES:
Critical Infrastructures, Temporary Management, Bid & Sales, M&A Advisor, Business Development, IT Innovation, Strategic Marketing

HOW WE CAN ADD VALUE TO YOU:
As a consulting company operating in the Critical Infrastructure sector, MAI Consulting supports the growth, consolidation and market positioning of industrial companies with Market Analysis & Partnerships, Business and Development Plans, Tender Preparation Support, Project Management, Contract Management, Merger & Acquisition, Customised Professional Services and Consulting for compliance with international quality, occupational safety and environmental hygiene standards, Compliance and Certifications. Also, we support Public Authorities and organisations in Market analysis, Due diligence, Support and drafting of tenders, Product development/engineering services, Energy efficiency.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Competitiveness  + Sustainability

MAIN REFERENCES:
The team has gained many years of experience in the industrial sector and now offers this to both Municipalised and Private companies.

CONTACTS:
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Tel: +39 327 8554244
Website: https://maiconsulting.it
KEY WORDS OF OUR ACTIVITIES:
Asset Management, Measuring Trains and Systems, Signalling Systems, Telecom and Satcom, Electric Traction, Steel and Industrial

HOW WE CAN ADD VALUE TO YOU:
MERMEC has been known as a reliable and pioneering developer of high-tech solutions to the railway and steel industries for over 30 years. With an innovation-driven culture, we distinguish ourselves by our capacity to develop in house all software and equipment that make the core of our solutions. This major competitive advantage sets ourselves apart from other vendors and takes our products and services to the next level.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Maintainability
+ Capacity
+ Energy Efficiency
+ Security
+ Interoperability
+ Reliability
+ Rail Competitiveness

MAIN REFERENCES:
Companies and branches worldwide. References worldwide.

CERTIFICATIONS:

CONTACTS:
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Tel/Mob: +39 080 9171
Website: www.mermecgroup.com
KEY WORDS OF OUR ACTIVITIES:
System integrator of DC power supply systems for Railway, Metro and Light Rail applications. Design and construction of electromechanical equipment as Rectifier, Feeder cubicle, Disconnectors, Energy recovery and storage system, Frequency converters, VLD, Rolling stock auxiliary converters. Development of SCADA systems and automation and control systems.

HOW WE CAN ADD VALUE TO YOU:
With over 40 years of experience, Mont-Ele is the best Partner for ensuring high quality engineering, construction, assembling and commissioning of electromechanical systems for power supply. We offer modular services according to our customer requests.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability
+ Availability
+ Maintainability
+ Safety
+ Energy efficiency / saving
+ Urban Transport Efficiency
+ Environment

MAIN REFERENCES:
Railway Companies: RFI, SBB, SNCF, ONCF, SNCB, Slovenian Railways / Regional Railways companies: Ferrovie Nord, FER, Trentino Trasporti / Municipalities: MM, ATM, ATAC, GTT, TPER, AMT Genova, STC (Mexico) / DORTS Department of Rapid Transit Systems, Taipei City Government, ArRiyadh New Mobility, Metroselskabet I/S Copenhagen Cityringen, Attiko Metro Thessaloniki Metro, Zhuhai LRT / Main contractor: Hitachi Rail Italy, Alstom, Sirti, CCF, Salcef, Balfour Beatty, Alpiq, Bombardier, etc.

CERTIFICATIONS:

CONTACTS:
Mr Fabrizio MAGGIONI
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Tel/Mob: +39 0362 852291 | +39 348 1338301
Website: www.mont-ele.it
NEW GENERATION SENSORS S.r.l.

KEY WORDS OF OUR ACTIVITIES:
IoT, Smart Logistics, Physical Internet, Blockchain, Cloud Computing, Predictive maintenance, Industrial monitoring, Asset & Fleet management, Digitalisation.

HOW WE CAN ADD VALUE TO YOU:
New Generation Sensors S.r.l. is an Italian innovative SME established in 2015 with a strong expertise in the development of advanced wireless systems following the Internet of Things vision. It has developed in these years hardware and software solutions capable to collect added value data from the field exploiting proprietary hardware, thus to collect, store, visualize and process at the Cloud side. The main domains of application where NGS is active are essentially two: 1. Smart Factory, having realized the PlantOne system in charge of democratizing predictive maintenance for small-medium sized machineries in manufacturing SMEs. 2. Smart Logistics, having realized TrackOne a mode-agnostic solution capable to track and trace goods in both last mile and cargo logistics, thus enabling the complete visibility of the supply chain.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
- Maintainability
- Safety
- Security
- Cybersecurity
- Capacity
- Reliability
- Availability
- Environment
- Interoperability
- Energy Efficiency
- Digitalization

MAIN REFERENCES:
P&G Singapore, Scuola Superiore Sant'Anna, ENEL, AVR, Telepass

CONTACTS:
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Tel: +39 346 6384085
Website: http://ngs-sensors.it/en
NICHERI TITO S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Railway Construction Works for Signalling and Overhead line

HOW WE CAN ADD VALUE TO YOU:
50 years experience in Italy and abroad on ordinary and high speed tracks.
The company is member of "ig4rt - Italian Group for Railway Technology".

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability  
+ Safety

MAIN REFERENCES:
RFI Rete Ferroviaria Italiana, Gruppo Ferrovie dello Stato (Italian Railway), ITALFERR, Gruppo Ferrovie dello Stato (Italian Railway engineering), TRENITALIA, Gruppo Ferrovie dello Stato (Italian Railway passenger transportation), Ferrovie Nord Milano (Regional Railway Lombardia), Metropolitana Milanese (Public Transportation Company of Milan engineering), RFT Rete Ferroviaria Toscana (Regional Railway Tuscany), ATAF (Public Transportation Company of Florence), Ferrovia Centrale Umbra (Regional Railway Umbria), ATAC (Public Transportation Company of Rome), Ferrovie della Calabria (Regional Railway Calabria), ALSTOM Transport, ANAS, ANSALDO STS, PSC, ASTALDI, COOPSETTE, ENEL, TERN, US ARMY, VAE, CNR (National Research Council), Municipality of Rome

CERTIFICATIONS:

CONTACTS:
ig4rt - Italian Group for Railway Technology
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Website: www.ig4rt.com
NUOVA I.T. S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Medium-heavy carpentry, carbon steel, stainless steel, aluminum alloy

HOW WE CAN ADD VALUE TO YOU:
Since 1975 business developed in the public transport sector with aluminium body work products such as: Frames, floors (Euro tunnel, TSR regional trains), roofs, guide cabins (Locomotives E633, E652, E444R, E464), side walls (Metro Washington, Metro Roma, Metro Lima, ETR 500, Metro Ankara, Metro S.Francisco, Metro Milano line 5, Metro Copenhagen). Various parts and accessories for locomotives, trams, metropolitan.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
- Noise and Vibrations

MAIN REFERENCES:
Hitachi Rail Italy, Titagarh Firema Adler, former AnsaldoBreda, Bombardier, Trenitalia, Constellium, GE Oil&Gas

CERTIFICATIONS & COMPLIANCE TO STANDARDS:
ISO 9001 3834 EN 15085 EN 1090

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Website: www.nuovait.com
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
DORIN has many years of experience in engineering, design and problem-solving of compressor refrigeration and air-conditioning for Metro and Rail Vehicles for Passengers and Goods. DORIN has been cooperating with the major players in the field of railways applications since more than 30 years, offering always innovation and technical support at a top standard level. Capability to reduce the environmental impact and energy consumption of HVAC&R systems on railways transportation with our utmost CO₂ compressors and H55 models.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
- Noise
+ Energy efficiency
- Vibrations

MAIN REFERENCES:
Faiveley, Merak, Bombardier, Trenitalia and many more.

CERTIFICATIONS:
ISO 9001
EN 292-1/2
EN 294
EN 60204
EN 60529
prEN 349
IEC 336-1
IEC 335-2-34

CONTACTS:
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Website: www.dorin.com
KEY WORDS OF OUR ACTIVITIES:
Flexible rubber hose, bellow, expansion joint, flexible metal hose, fitting, piping system, brake system, HVAC system, wastewater system, firefighting system, electrical cable protection, fresh water system.

HOW WE CAN ADD VALUE TO YOU:
Over 40 years of experience in railway market with standard and tailor-made solutions.
We produce flexible hoses and piping systems for brake system, HVAC system, wastewater system, firefighting system, electrical cable protection and other equipments for rolling stock applications.
We are manufacturing of flexible metal hose and piping systems with certified welding process and accurate NDT controls.
Regarding rubber hoses we are official Eaton-Danfoss dealer and authorized assembly center.

MAIN REFERENCES:
Hitachi Rail Italy, Alstom, Stadler Rail, Knorr Brembse, Mercitalia, Trenitalia, Trenord, Faiveley, Wabtec, Amtrak, Titagarh Firema, Danieli, SVI, Nuovo Pignone, Baker Hughes

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

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Website: www.oleodinamicatoscana.it
KEY WORDS OF OUR ACTIVITIES:
Lighting, Smart lighting, LEDs, UV-Sanitisation, Design, Assembly, Supply, Railway vehicles, Railway stations.

HOW WE CAN ADD VALUE TO YOU:
Ombre-1 was established to create a service for those companies looking for a partner able to take care from tailored design to assembling and supply of lighting fixtures and circuits. Working in several sectors, we bring together technical and technological know-how together with best machineries and designers in Italy and beyond.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability
+ Safety
+ Availability
+ Energy efficiency
+ Environment

CONTACTS:
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Mob: +39 392 4141781
Website: www.ombre-1.com
KEY WORDS OF OUR ACTIVITIES:
Railway signalling, ERTMS/ETCS wayside/on-board, CBI-Computer Based Interlocking, LED signals, UPS-Power supply systems, Axle counters, Level crossing, Diagnostics and Predictive maintenance systems for infrastructure and freight vehicles

HOW WE CAN ADD VALUE TO YOU:
Complete Railway Solutions featuring our world class cutting edge SIL4 signalling systems and products
Leadership in UPS-Uninterruptable Power Supply systems
Innovative, smart on-board diagnostics and predictive maintenance bushing

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Capacity
+ Maintainability
+ Reliability
+ Interoperability
+ Energy efficiency
+ Capacity

MAIN REFERENCES:
RFI (Italian State Railways), Trenitalia, FER (Ferrovie Emilia Romagna), FTA - Finnish Transport Agency - Liikennevirasto, Alstom, Bombardier, Siemens, Thales, Stadler, Newag, Matisa, Plasser&Theurer

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

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Website: https://www.progressrail.com/en/Segments/Infrastructure/Signaling/ECM.html
KEY WORDS OF OUR ACTIVITIES:
Rolling Stock engineering, Bogie Design, Safety Critical Systems, RAMS, Testing and measurements, V&V, Procurement management, Modernisation, Products and spare parts, System design and testing of railway signalling

HOW WE CAN ADD VALUE TO YOU:
Support Manufacturers in new developments and refurbishment projects throughout the engineering and production process, homologation process up to documentation support and training.
Provide Operators with strategic support, specification assessment and procurement management, cost-focused and global optimization of the maintenance process and warranty follow-up.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Maintainability
+ Environment
- Noise and Vibrations

MAIN REFERENCES:
GE Transportation, SEPA - Trenitalia, AnsaldoBreda, OFV, Magliola, Corifer

CERTIFICATIONS:

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Website: www.prose.one
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
Spin-off of the University of Florence providing rigorous analysis, design, Verification and Validation of ICT systems, focusing on embedded systems for safety-critical and security applications for railway.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Security
+ Reliability
+ Availability

MAIN REFERENCES:
Italcertifer, Thales, IDS Ingegneria dei Sistemi

CERTIFICATIONS:
ISO 9001

CONTACTS:
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Website: www.resiltech.com
S.I.C.E. S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Railway Construction Works for Signalling and Overhead line

HOW WE CAN ADD VALUE TO YOU:
50 years experience in Italy and abroad on ordinary and high speed tracks. The company is member of "ig4rt - Italian Group for Railway Technology".

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability  + Safety

MAIN REFERENCES:
RFI Rete Ferroviaria Italiana, Gruppo Ferrovie dello Stato (Italian Railway), ITALFERR, Gruppo Ferrovie dello Stato (Italian Railway engineering), TRENTALIA, Gruppo Ferrovie dello Stato (Italian Railway passenger transportation), Ferrovie Nord Milano (Regional Railway Lombardia), Metropolitana Milanese (Public Transportation Company of Milan engineering), RFT Rete Ferroviaria Toscana (Regional Railway Tuscany), ATAF (Public Transportation Company of Florence), Ferrovia Centrale Umbra (Regional Railway Umbria), ATAC (Public Transportation Company of Rome), Ferrovie della Calabria (Regional Railway Calabria), ALSTOM Transport, ANAS, ANSALDO STS, PSC, ASTALDI, COOPSETTE, ENEL, Terna, US Army, VAE, CNR (National Research Council), Municipality of Rome

CERTIFICATIONS:
ISO 9001  ISO 14001  SOA OS-9  SOA OS-19  SOA OS-27

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KEY WORDS OF OUR ACTIVITIES:
Feasibility studies and environmental impact, transportation planning and urban planning, preliminary, executive and construction planning and design and during the development stage, work direction, project management, training and capacity building.

HOW WE CAN ADD VALUE TO YOU:
SINTAGMA is an independent, qualified Italian company in the planning and consulting sector in the transportation industry, composed of experienced technicians who have been working together since the early 70’s. SINTAGMA is capable of guaranteeing the quality of its services and of ensuring the Client that these services satisfy the required quality standards, sticks to the OICE, it is certified ISO 9001:2008, among the first ones in Italy, since 1995, and ISO 14001:2008.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Safety
+ Security
+ Intermodality
+ Rail Competitiveness
+ Urban Transport Efficiency

MAIN REFERENCES:
The principal clients of the society are Anas, Italian State Railways, Office of the Transports, all the most important regions and Italian districts, innumerable Municipalities; Firms of Transport, Consortia Concessionaires and great Construction Enterprises. The company is qualified in the bulletin-board suppliers of great buyers such as State Railways, Italian Railways Network, Italian Ministry of Foreign Affairs.

CERTIFICATIONS:

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Mob/Tel: +39 335 7442678  |  +39 075 609071
Website: www.sintagma-ingegneria.it
KEY WORDS OF OUR ACTIVITIES:
Design of Railway vehicles, Preliminary studies for contract deals, Design of systems and maintenance systems, Design of workshops and equipment, Revamping, FEM Calculation, RAM documentation and CE.

HOW WE CAN ADD VALUE TO YOU:
A very wide know-how in design and mounting structures of high-speed trains, mass transit, locomotives, freight vehicles.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Environment
+ Energy efficiency
+ Maintainability

MAIN REFERENCES:
Bombardier Transportation, Alstom, Rina, AMT Genova, Trenitalia, Mithsubishi, Sitfa, Cemat, Trentino Trasporti, Goriziane Group

CERTIFICATIONS & COMPLIANCE TO STANDARDS:

CONTACTS:
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Mob: +39 339 7821902  |  +39 339 8714097
Website: www.stmengineering.it
KEY WORDS OF OUR ACTIVITIES:
Engineering company, Specialized Railway Design and Project Management, Signalling, Telecommunication Systems, SCMT, ERTMS, TVCC

HOW WE CAN ADD VALUE TO YOU:
Design and Railway Project Management (Feasibility, Preliminary, Definitive, Executive, Construction).
From Design to installation of signalling (ACEI/ACC, Infill, Power Supply, ATC/ETCS) and telecommunications systems (Selective telephone systems, SDH transport networks, Tunnel security/safety systems, Tunnel radio propagation systems, Public announcement systems (PA), Public video announcement systems (PID), Security access systems, CCTV systems) for the infrastructure.
Certified ISO 9001 and OHSAS/18001; it is also enrolled as a support service in the design groups operating for Italferr – Italian State Railways Group.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Security
+ Reliability
+ Maintainability

CERTIFICATIONS:

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Website: www.tesifer.it
KEY WORDS OF OUR ACTIVITIES:
Infrastructure control systems, Centralized Traffic Control System, System Integration, SCADA systems, PLC systems, Cybersecurity, Diagnostics and predictive maintenance of mass transit and freight vehicles and railways, Power distribution systems for both overhead and underground distribution, Network design and implementation.

HOW WE CAN ADD VALUE TO YOU:
Energy Management Systems to Infrastructure Managers.
Electric Traction Control System.
Complete railways traffic management system.
Supervision System (SPVII) & Energy Management System of Tunnels.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Security
+ Reliability
+ Maintainability

MAIN REFERENCES:
Infrabel, RFI, SBB, Dubai Metro, FER, Ferrovia Circumetnea, Bombardier, Thales, ECM, Sirti, Bologna Airport

CERTIFICATIONS:
ISO 9001
ISO 27001
SOA OS-19

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THALES GTS S.r.l.

KEY WORDS OF OUR ACTIVITIES:
Thales World Competence Centre for Tramway Signalling solutions, Thales World Competence Centre for Security, Signalling systems, Security systems, Cybersecurity, Dual-use products, Telecommunications, Supervision control & management information, Ticketing standard solution for Metro, Bus, LRT and Tramway and Main Line.

HOW WE CAN ADD VALUE TO YOU:
As leading company for Defence and Security, Thales systems perform a standing level of safety and reliability to guarantee railway operations.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Cybersecurity
+ Security
+ Urban Transportation

MAIN REFERENCES:
RFI (Italian National Railway Infrastructure Manager), GEST (Firenze Tramway), Metro Cairo, Taiwan Kaohsiung Light Rail, Mexico City Metrobus, Doha Metro, Songjiang LRT, etc.

CERTIFICATIONS:

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Website: www.thalesgroup.com/en/countries/europe/italy/transportation-italy
KEY WORDS OF OUR ACTIVITIES:
Silicon, Power and Control, Data cables

HOW WE CAN ADD VALUE TO YOU:
Supply of special high quality and technically advanced cables. Availability to assist Customers in choosing cables and network design.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety  + Reliability

MAIN REFERENCES:
Infrastructure Managers, Rolling Stock Manufacturers

CERTIFICATIONS & COMPLIANCE TO STANDARDS:
ISO 9001  ISO 14001  ISO 27001  EN 45545-2

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Mob: +39 346 8624812
Website: www.unika.it
KEY WORDS OF OUR ACTIVITIES:
Superior electronic platforms for hostile environments, On-board Ethernet devices, Backbone Routers, Train switches, Human Machine Interfaces

HOW WE CAN ADD VALUE TO YOU:
A very long record of design and manufacturing activities of electronic devices for hostile environments. Strong commitment in the sector of on-board networking Ethernet devices.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
- Maintainability
- Reliability
- Vibrations
- Environment

MAIN REFERENCES:
Rolling stock manufacturers, Train operators

CERTIFICATIONS:
ISO 9001
TS 22163

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Website: www.vdsrail.com
KEY WORDS OF OUR ACTIVITIES:

HOW WE CAN ADD VALUE TO YOU:
Acoustic Laboratory leader in Acoustic Research, Development and Testing.
Specialization on railway vehicles including high speed trains for Acoustics Design and Testing, RAMS, V&V and Manuals, Railway Homologation Support. Worldwide offer confirmed by our branches in Brasil and Turkey.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Reliability  - Noise and Vibrations
+ Safety  + Availability
+ Maintainability  + Environment

MAIN REFERENCES:

CERTIFICATIONS:

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Website: www.zeta-lab.it
ACADEMIC & RESEARCH CENTERS
SOME KEY ACTIVITIES IN THE RAILWAY SECTOR:
Strategic partner to Signalling industries (e.g. ECM, Alstom, AnsaldoSTS) for:
- Modeling and analysis of Railway Control Systems (e.g. CBTC) in order to improve transport outcomes such as transport safety, transport productivity, travel reliability;
- Formal Specification of Railway Interlocking Systems;
- Train control enhancement via Information Technology and certification of safety and reliability aspects.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:
+ Safety
+ Reliability
+ Standardization
+ Interoperability

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SOME KEY ACTIVITIES IN THE RAILWAY SECTOR:

Strategic partner to Rolling Stock Manufacturers and Operators (e.g. AnsaldoBreda/Hitachi Rail Italy, LucchiniRS, Trenitalia – Italian National Railway Operator, FSI Group) for reducing energy consumption and environmental impact of trains; modelling brakes performances of vehicles with different subsystems; development of innovative models of contact wheel-railway, wheel wear estimation and optimization for the different typologies of vehicles; noise reduction of vehicles with specific focus on wheels; dynamic modelling and simulation of comfort and safety level; realization of a new prototype of innovative high speed pantograph; validation of homologations standard for railway vehicles.

Strategic partner to Operators and Signalling Industry (e.g. UIC, Trenitalia, ECM, AnsaldoSTS) for developing odometry algorithms used in the most developed on board signalling systems (SCMT, ETCS, ERTMS); innovative signalling systems.

CONTRIBUTION TO THE FOLLOWING RAILWAY TECHNOLOGICAL CHALLENGES:

+ Safety
+ Standardization
+ Reliability
+ Environment
+ Energy
+ Noise and Vibrations

CONTACTS:

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Website: www.dief.unifi.it  |  www.dinfo.unifi.it
INDUSTRY ASSOCIATIONS
KEY WORDS OF OUR ACTIVITIES:

Autonomous and independent associations that work for the representation of companies in Italy and abroad in the following fields: Tributary and Taxation; Environment and Security, Labour Relations, Training, Export, Credit, Prevention...

WHAT WE DO FOR OUR COMPANIES:

Established in 1945, Confartigianato represents more than 2,000 companies operating in the Tuscany area. We work in many economic manufacturing and service sectors i.e. mechanics, bed linen, furniture, food, plastic, .... We organize many important trade events for networking aimed at promoting our companies quality and innovative products. We also provide support to the artisans and entrepreneurs with their company startups and training in many different fields of activity.

Confindustria Toscana Nord, which was formally established by notarial deed on 24 December 2015, is autonomous, non-partisan, independent of any external influence and non-profit making. It supports the economic development of 900 industries of the provinces of Prato, Pistoia and Lucca. Its Study Centre is a privileged economic observatory on the production system of these territories, and on their sectors and industrial districts of excellence.

CNA Toscana, the National Confederation of Craftsmen and Small and Medium-sized Enterprises, has been representing and protecting the interests of craft enterprises, SMEs and all forms of self-employment for over 60 years. The mission of the CNA is to give value to craft and small and medium-sized enterprises, foster their development and promote their economic and social progress. In Tuscany, CNA associates over 45,000 enterprises.

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