

FOSTER RAIL

Future of Surface Transport Research Rail

Coordination and Support Action

Grant Agreement No 605734

Date of Annex I against which the assessment will be made: 23-05-2013

Deliverable D5.5

Database for potential Partners to the SHIFT²RAIL Innovation Programmes

WP	5	Fostering innovation and partnerships: ERRAC and SHIFT ² RAIL
Task	5.3	SHIFT ² RAIL partnerships with ERRAC stakeholders and with stakeholders from other sectors

Dissemination level ¹	PU
Nature ²	R

Due delivery date	M14
Actual delivery date	M18

Deliverable lead beneficiary	UNIFE	Deliverable responsible person	Jean-Philippe Peuziat
Email	jeanphilippe.peuziat@unife.org		

Other contributors to the deliverable	n/a
--	-----

Document Version	Date	Author(s)
Vfinal	20/10/2014	UNIFE

¹ Dissemination level: **PU** = Public, **PP** = Restricted to other programme participants (including the JU), **RE** = Restricted to a group specified by the consortium (including the JU), **CO** = Confidential, only for members of the consortium (including the JU)

² Nature of the deliverable: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

Table of Content

1. **Executive Summary 3**

2. **List of table(s) 3**

3. **Description of Deliverable 54**

4. **Examples of documents related to these SHIFT²RAIL information workshops 56**

5. **Conclusion 59**

1. Executive Summary

FOSTER-RAIL is a EU coordination and support action project under the 7th Framework Programme designated to support ERRAC (European Rail Research Advisory Council) in defining research needs for their strategies and programmes in order to realise the objectives of the Europe 2020 strategy.

The Foster Rail Work Package 5 (WP5) “Fostering innovation and partnerships: ERRAC and SHIFT²RAIL” relies on the implementation of the proposed joint undertaking for research, development and innovation for rail (under the acronym: SHIFT²RAIL). One of the objectives of WP5 was to create a “database for managing future partnerships within SHIFT²RAIL projects”. In other words, the challenge was to identify throughout Europe a high number of companies and Research organisations potentially interested in participating in the future SHIFT²RAIL R&D activities, be it as Associated Members or as partners of the Open Calls for Proposals.

The purpose of this deliverable is to describe the activities carried out within WP5 associated to the task 5.3 “SHIFT²RAIL partnerships with ERRAC stakeholders and with stakeholders from other sectors”. The creation of this mapping has required to establish a methodology to make sure that as many entities as possible in Europe would hear about SHIFT²RAIL before the final adoption of the EU Regulation by the Council in June 2014. The result of this unprecedented information campaign is presented here in the form of a table with no less than 482 entities indexed, among which 150 officially expressed their interest in SHIFT²RAIL by signing the Preparatory Phase Memorandum of Understanding for SHIFT²RAIL Promoters.

Of course this tool is not intended as an exhaustive list but rather as a living instrument which could continue to develop in the course of SHIFT²RAIL.

2. List of table(s)

Identification of potential Partners to the SHIFT²RAIL Innovation Programmes

Error! Not a valid link.	Type of entity	Size of the company	Country of location of the headquarter	Main fields of activities/R&D	Interest already expressed for specific IP(s) in SHIFT ² RAIL				
					IP1	IP2	IP3	IP4	IP5
A. Rawie	Manufacturer/Equipment producer	SME	Germany	Development, production and installation of buffer stops; and development, production and installation of barrier systems and access control systems					
ABB	Manufacturer/Equipment producer	non-SME	Switzerland	Complete power supply and control systems for rail networks; Signalling and Communication systems; transformers, converters, motors & other components; robots					
Acciona	Manufacturer/Equipment producer	non-SME	Spain	Creation, development and management of infrastructure, energy, water and services			X		
Acieries et Laminoirs de Rives	Manufacturer/Equipment producer	SME	France	Hot section rolling from billets, axles and rails					
ACMAR SCPA	Manufacturer/Equipment producer	non-SME	Italy	Design and construction of systems of electric traction, safety and signaling for railways, substations and overhead lines					
ADES Technologies	Manufacturer/Equipment producer	SME	France	Design and manufacture of hydraulic and pneumatic components, low and high pressure					
ADIF	Railway undertaking and/or Infrastructure manager	non-SME	Spain	Spanish Administrator of Railway Infrastructures			X		
AERNNOVA	Manufacturer/Equipment producer	non-SME	Spain	Aerostructures, composites, metallic parts	X				
AIT Austrian Institute of Technology GmbH	Research organisation	N/A to	Austria	Expertise in Transport infrastructure,	X	X	X	X	X

	(Universities/Research centres)	research centres		optimisation of co-modal transport systems and development of integrated vehicle concepts featuring electric drive concepts and lightweight construction technologies					
AKG Thermotechnik International	Manufacturer/Equipment producer	non-SME	Germany	Development and production of high-performance heat exchangers and complete cooling modules for application in construction equipment, compressed air equipment, industrial coolers, railroad vehicles					
Albatros	Manufacturer/Equipment producer	non-SME	Spain	Design, manufacture, commercialization, and maintenance of equipment for the railway industry					
Al-Ko Record	Manufacturer/Equipment producer	non-SME	Spain	Manufacturing of shock absorbers for train, tram carriages and metro, as well as shock absorbers for pantographs for locomotives, commuter trains and high velocity trains					
ALMiG Rail Systems	Manufacturer/Equipment producer		Germany	Develops, produces and sells all main components for the air procurement system in vehicles					
Alstom	Manufacturer/Equipment producer	non-SME	France	Expertise covers urban, suburban, regional, mainline and freight solutions, along with a comprehensive knowledge of trains, infrastructure, signalling and services	X	X	X		
Alte transportation	Manufacturer/Equipment producer	non-SME	Spain	Design, sales, manufacturing and maintenance of air conditioning systems, Modular Interiors and toilet modules with vacuum systems.					
Altpro	Manufacturer/Equipment producer	SME	Croatia	Axle counters, train detection for crossing systems, rail wheel sensor, testing equipment, auto stop systems, safety devices					
ALTRAN	Engineering consulting and	non-SME	France	Technological know-how in five key areas: Intelligent Systems, Innovative Product Development, Lifecycle Experience, Mechanical	X	X			

				Engineering, and Information Systems					
Amadeus	Manufacturer/Equipment producer	non-SME	France	IT technology and expertise that makes rail booking easier - from the initial search to making a booking and staying in touch with your customers before, during and after their journey				X	
Amberg Technologies	Engineering consulting and		Switzerland	Provider of specialised system solutions for the georeferenced collection and refinement of civil infrastructure information			X		
Ametsis	Manufacturer/Equipment producer	SME	Spain	Develop and manufacture all the brake equipment components for railways with high innovative tools					
Amurrio Ferrocarril y equipos	Manufacturer/Equipment producer	SME	Spain	Design and manufacture of turnouts, points and crossings, switches, cast and welded frogs, manganese frogs, expansion joints, insulated joints, spare parts for turnouts					
Ansaldo Breda	Manufacturer/Equipment producer	non-SME	Italy	Construction of technologically advanced rolling stock	X				
Ansaldo STS	Manufacturer/Equipment producer	non-SME	Italy	Design, implementation and management of systems and services for signalling and supervision of railway and urban traffic	X	X	x	x	X
Aquafrisch	Manufacturer/Equipment producer		Spain	Design of train wash systems and solutions for bogie wash					
Arcelor Mittal	Manufacturer/Equipment producer	Non-SME	Luxembourg	Steel and mining company			X		
ARDANUY	Engineering consulting and	SME	Spain	Engineering and architecture consulting company specialized in studies, projects, work management and technical support for railways, undergrounds, trams, construction, electromechanic systems and the energy field					
Arteche	Manufacturer/Equipment	non-SME	Spain	Equipment, applications and solutions for the					

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

	producer			electricity sector					
Arxes Tolina	Manufacturer/Equipment producer	non-SME	Germany	Business fields engineering, IT infrastructure and software					
AS Andmevara	Manufacturer/Equipment producer	SME	Estonia	State owned information technology company whose main fields of activity of are developing, maintaining and servicing registers, databases, and information systems, developing complete information technological solutions, designing working environments for information processing				X	
Ascamm	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Wireless TCMS, Running gear, Doors, Carbody shells and Freight wagons	X			X	X
Assignia Infraestructuras	Manufacturer/Equipment producer	non-SME	Spain	Development, execution, management and operation of infrastructures					
Astra	Manufacturer/Equipment producer	non-SME	Romania	Rail vehicles, subsystems (bogies, car bodies, components), services (maintenance, refurbishment)					
Astrium		Non-SME	France	Experience across all sectors of the space business – launch vehicles, manned space activities and satellite systems and related services	X				
ATI Interco	Manufacturer/Equipment producer	SME	France	Manufacturing of electronical components					
Atlas Copco Kompressoren und Drucklufttechnik GmbH	Manufacturer/Equipment producer		Germany	Manufacturing of compressed-air equipment and air-brake compressors					
AV Ingenieros	Engineering and consulting		Spain	Acoustic and vibration engineering			X		
AZD	Manufacturer/Equipment producer	non-SME	Czech Republic	Producer and supplier of signalling, telecommunication, information and automation technologies		X			

AZVI	Manufacturer/Equipment producer	Non-SME	Spain	Construction company			X		
B&T EXACT	Manufacturer/Equipment producer		Germany	Aluminium and the specific strengths associated with it					
Balfour Beatty Rail	Manufacturer/Equipment producer	non-SME	United Kingdom	Track work , switches and crossings, overhead line & conductor rail electrification, power supply systems, signalling, civil engineering, construction plant, systems integration, programme management					
Baltic Premium Company (Kockums)	Manufacturer/Equipment producer	Non-SME	Sweden	Designs, builds and maintains naval surface vessels and submarines					X
BAM Rail	Manufacturer/Equipment producer	Non-SME	Netherlands	Infrastructure company			X		
Barcelona Transport Company (TMB)	Urban operator	non-SME	Spain	Main public transit operator in Barcelona					
Baumer Hübner GmbH	Manufacturer/Equipment producer		Germany	Production of absolute encoders, rotary encoders, sine wave encoders					
BBR Verkehrstechnik	Manufacturer/Equipment producer	SME	Germany	Production of electronic point controls, signal boxes, ATP systems and electronic interlockings as well as the corresponding vehicle equipment - both for light and heavy rail					
BDR S.A	Manufacturer/Equipment producer	SME	France	Tramway, subway and TGV flooring					
BDZ holding EAD	Railway undertaking and/or Infrastructure manager	non-SME	Bulgaria	Bulgaria's state railway company and the largest railway carrier in the country					
Berner & Mattner	Engineering consulting and	Non-SME	Germany	Systems engineering, development and testing of complex electronic and mechanical systems	X	X		X	
Berthold Sichert	Manufacturer/Equipment		Germany	Structures in fibre optics, copper and broadband					

	producer			communication networks					
Birmingham University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Traction drives, Wireless TCMS, Car body shells, Doors, Traffic management systems, Tracks, DC/AC power systems, etc.	X	X	X	X	
BLS AG	Railway undertaking and/or Infrastructure manager	non-SME	Switzerland	BLS is a legally independent group of companies that operates mainly in the private sector. As an integrated rail company, it unites the core businesses of passenger Netz AG) under one roof transport, freight transport (BLS Cargo AG) and infrastructure					
Blue Engineering	Engineering and consulting		Italy	Project development (design, engineering, virtual prototyping, testing and validating)	X			X	X
Bochumer Verkehrstechnik Verein	Manufacturer/Equipment producer	non-SME	Germany	Wheels and wheelsets (production, maintenance, testing, consulting, training, spare parts, etc.)					
BOKU (Uni of Natural Resources, Vienna)	Research organisation (Universities/Research centres)	N/A to research centres	Austria	Development of simulation tools for analysing binnenland freight terminals and shunting yards					X
Böllhoff GmbH	Manufacturer/Equipment producer	non-SME	Germany	Supplier of fastening, assembly, and systems technology					
Bombardier	Manufacturer/Equipment producer	non-SME	Germany	Full spectrum of rail solutions, ranging from complete trains to sub-systems, maintenance services, system integration and signalling	X	X	X		
Bonatrans	Manufacturer/Equipment producer	non-SME	Czech Republic	Wheels and wheelsets					
Bosch	Manufacturer/Equipment producer	Non-SME	Germany	Automotive Technology, Industrial Technology, Consumer goods, Energy and Building Technology	X				X
Botto Ro	Manufacturer/Equipment producer		Italy	Design, production, cutting and sewing of technical fabrics for bus, aircraft, automotive,					

				train and ship interiors and upholstery					
BRC Bulgarian Railway Company AD	Railway undertaking and/or Infrastructure manager	non-SME	Bulgaria	First privately held rail freight company to obtain a license in Bulgaria					
Brot Technologies	Manufacturer/Equipment producer	SME	France	Windscreen wiping systems for railways					
Budapest University (BME)	Research organisation (Universities/Research centres)	N/A to research centres	Hungary	Expertise in composite materials, traffic management methods, cyber security and freight terminals	X	X	X	X	X
Cables de comunicaciones Zaragoza	Manufacturer/Equipment producer	non-SME	Spain	Design, manufacture, and commercialization of telecommunications cables, signalling and optical fibre					
CAF	Manufacturer/Equipment producer	non-SME	Spain	Manufacture and supply of high-tech rolling stock	X	X	x		
Calmell group	Manufacturer/Equipment producer	non-SME	Spain	Offering global services as cards manufacturing and customising or readers and couplers development					
Calpe Institute of Technology (CIT)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Acoustics and Vibration, industrial projects, numerical Methods	X		X		X
Canavera & Audi	Manufacturer/Equipment producer		Italy	Machined parts and assemblies for carriages, cars and bogies for the most important European producers and operators					
Cattron Theimeg Europe	Manufacturer/Equipment producer	non-SME	Germany	Production of radio data transmission systems, remote controls for locomotives and train radio systems					
CD České Dráhy	Railway undertaking and/or Infrastructure manager	non-SME	Czech Republic	Main railway operator in the Czech Republic					

CEA Tech	Research organisation (Universities/Research centres)	N/A to research centres	France	Expertise in embedded systems, advanced manufacturing and ambient intelligence	X	X	X	X	
CEFRIEL	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Competences covering all the Information and Communication Technology areas				X	
CEMES	Manufacturer/Equipment producer		Italy	Design and implementation of electric traction contact lines for railways networks					
CEMOSA	Engineering consulting and	Non-SME	Spain	Engineering consultancy and quality control company in the field of construction			X		
CENTRALP	Manufacturer/Equipment producer	non-SME	France	Embedded electronic systems					
Centro (Network West Midlands)	Urban operator	non-SME	United Kingdom	Local Government organisation (passenger transport executive) responsible for public transport services in the West Midlands county					
CFD Bagneres	Manufacturer/Equipment producer	non-SME	France	Construction and renovation of rolling stock					
CFL - Société Nationale des Chemins de Fer Luxembourgeois	Railway undertaking and/or Infrastructure manager	non-SME	Luxembourg	National railway company of Luxembourg					
CFR CALATORI - Societatea Nationala de Transport Feroviar de Calatori	Railway undertaking and/or Infrastructure manager	non-SME	Romania	State railway carrier of Romania					
Chalmers	Research organisation (Universities/Research centres)	N/A to research centres	Sweden	Expertise in Switches & Crossing, Tracks, Infrastructure maintenance, Brake systems and Running gear	X		X		
CHAPS	Manufacturer/Equipment producer	SME	Czech Republic	Development of software for railway (passenger information, timetable, ...)					

CIDAUT	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Traction drives, Car body shells, Running gears, Brakes, Doors, Tracks, Freight wagon, Propulsion, etc.	X		X	X	X
Cideon Engineering	Engineering consulting and	SME	Germany	Engineering services: Rail vehicle technology, Machine construction, special machinery and system construction, Resource and equipment construction					
CIESSE	Manufacturer/Equipment producer	SME	Italy	Production of railway Interiors					
CIM	Manufacturer/Equipment producer	non-SME	France	Installation of rail infrastructure, maintenance workshop equipment, supply of original parts and equipment, manufacture of automatic coupling systems, rehabilitation and modernisation of rolling stock					
CIT/UPC (University of Catalonia)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in materials technologies, ICT, energy technologies, advanced manufacturing technologies				X	
CKD Hutna	Manufacturer/Equipment producer	non-SME	Czech Republic	Steel castings and machining; welded/fabricated constructions of any complexity; own pattern shop and testing facilities					
Clearsy	Engineering consulting and	SME	France	Expertise in Systems, Software and Operational Safety		X	X	X	
CNC	Engineering consulting and		Italy	Development of simulators and other tools related to the training of staff, TCMS, communication networks aboard the train, diagnostic systems and tools supporting maintenance and assistance	X		X	X	
CNR (DIITET)	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in fluid moving block, switches and crossings, and infrastructure maintenance		X	X		

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

COET Elettrotecniche	Costruzioni	Manufacturer/Equipment producer		Italy	Designing and manufacturing switching devices for AC /DC Industrial Applications					
Colas Rail		Manufacturer/Equipment producer	non-SME	France	Track renewals, rail services, signalling, electrification, training					
Colway Ferroviaria		Manufacturer/Equipment producer		Spain	Design, engineering, manufacture, supply, installation and commissioning of turnkey railway vehicle interiors					
COMAU		Manufacturer/Equipment producer	non-SME	Italy	Arc welding, spot welding, subcomponents assembly, engine and transmission assembly, vehicle assembly and final fitting					
Comboios de Portugal, E.P.E		Railway undertaking and/or Infrastructure manager	non-SME	Portugal	State-owned company which operates freight and passenger trains in Portugal					
Comesvil		Manufacturer/Equipment producer	SME	Italy	Production of railway signalling and blocking systems					
Company Hellenic Institute of Transport (HIT) - Centre of Research & Technology Hellas (CERTH)		Research organisation (Universities/Research centres)	N/A to research centres	Greece	Expertise in Driver and Vehicle, Surface transport and Networks, and Transport economics		X		X	X
Comsa-Emte		Manufacturer/Equipment producer	Non-SME	Spain	Infrastructures and Engineering; Services and Technology; and Concessions and Renewable Energy			X		
Consorzio IBI		Logistics actor		Italy	Research and development in the transport and logistics sector					X
Constellium Valais SA LES Rail&Bus		Manufacturer/Equipment producer	non-SME	Netherlands	Semi-products for rail, Castings Rail system solutions, Rail components, Rail technology and services					
Contact		Manufacturer/Equipment producer	SME	Italy	Engineering, design, upgrading and rebuild activities to railway vehicles and components.					

Coras Iompair Éireann	Railway undertaking and/or Infrastructure manager	non-SME	Ireland	Infrastructure & Public Transportation State Administrator					
CORYS	Engineering consulting and	SME	France	Driver training simulators (high speed, passengers, freight, metro, LRV)		X			
Cranfield University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Mechatronics and Advanced Controls, Electric & Hybrid Vehicles, Engines, powertrain and alternative fuels, Integrated Vehicle Health Management, Manufacturing, Through-life Engineering Services, Industrial Automation, Sensor Technologies, Instrumentation, Sensors and Measurement Science, Systems Engineering		X	X		X
CREPIM	Manufacturer/Equipment producer		France	Developing, testing and certifying the fire performances of materials and assemblies for all concerned areas featuring the mass transportation sectors	X				
Critical Software Technologies Ltd.	Manufacturer/Equipment producer		United Kingdom	International company which specialises in the delivery of reliable solutions, services and technologies for business-critical information systems, providing software solutions and technologies that protect individuals, provide valuable insights, monitor the safety of equipment and guarantee business-critical processes are carried out securely and efficiently		X		X	
CRM	Manufacturer/Equipment producer	SME	France	Precision mechanics					
Crouzet Automatismes	Manufacturer/Equipment producer	non-SME	France	Manufacturing of electrical equipment for low voltage					
CSI	Manufacturer/Equipment producer		Italy	Safety and Security technologies for railways and metros					

Danobat	Manufacturer/Equipment producer	non-SME	Spain	Single machine and turn-key solutions for the manufacturing processes of rolling stock components such as axles, bogies and complete wheelsets					
D'Appolonia	Engineering and consulting		Italy	Multidisciplinary engineering consulting and design services (energy, environment, transport...)		X			
Dellner Group	Manufacturer/Equipment producer	non-SME	Sweden	Production of full Train Connection Systems including couplers, gangways, hatches, dampers, and crash management systems					
DeltaRail	Manufacturer/Equipment producer		United Kingdom	Expertise in signalling and traffic management technology		X		X	
DEUTA Werke	Manufacturer/Equipment producer	non-SME	Germany	Development of new components and systems centres mainly around train safety, vehicle availability and traceability as well as system technologies, such as odometry platforms, positioning systems and HMI –Human Machine Interfaces					
Deutsche Bahn	Railway undertaking and/or Infrastructure manager	non-SME	Germany	Passenger and logistics company	X	X	X		
DITECFER - Tuscan District for Rail Technologies, High Speed, Safety & Security	Cluster		Italy	110 Tuscan enterprises + 4 Tuscan Academic Excellences and several Laboratories for Rail Sector are part of it. Thanks to such a networking role played by the District, they all started to work together on R&D activities, innovation and technology transfer	X	X		X	X
DLR	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in Terrestrial Vehicles, Traffic Management and Transport System	X	X	X	X	X
Donetsk railway transport institute of Ukrainian state	Research organisation (Universities/Research)	N/A to research	Ukraine			X	X	X	

academy of railway transport	centres)	centres							
DR. GRABAND & PARTNER GmbH	Engineering consulting and		Germany	Services for technical and operational interests of local and long-distance railway traffic from development over assessment to project planning and management					
DSB Danske Statsbaner	Railway undertaking and/or Infrastructure manager	non-SME	Denmark	Danish train operating company					
Ducati Energia	Manufacturer/Equipment producer	non-SME	Italy	Capacitors, power factor correction and power electronics, wind power generators, alternators and ignition systems, electrical vehicles and charging stations, energy analysers, electric network tele-control systems, railway signalling systems, ticket issuing and transport automation systems					
Dupont de Nemours	Manufacturer/Equipment producer	non-SME	Switzerland	Coatings, paints & finishes, elastomers, engineering plastics, fibers & honeycombs, firefighting solutions, etc.					
Duro Felguera Rail	Manufacturer/Equipment producer	non-SME	Spain	Design, manufacture and supply of railway track components or elements, covering a wide range of applications from tramway to high speed turnouts, metros and conventional turnouts					
Durtrack	Manufacturer/Equipment producer	non-SME	Germany	Production of pre-stressed concrete sleepers for tracks and turnouts and for the production of masts					
ECA EN	Manufacturer/Equipment producer	SME	France	Research and experimental development on natural sciences and engineering					
ECM	Manufacturer/Equipment producer	Non-SME	Italy	Solutions and technologies for the safety, control and enhancement of railway infrastructures		X			
EDAG & Co	Manufacturer/Equipment	non-SME	Germany	Development and production, and offers forward-looking concepts with particular					

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

	producer			emphasis on lightweight construction					
EGIS Rail	Engineering consulting and	non-SME	France	Engineering, technical studies					
Eiffage rail	Manufacturer/Equipment producer	non-SME	France	Track works					
EKE Electronics	Manufacturer/Equipment producer	SME	Finland	Train automation and Train Management Systems	X				
ELCA	Manufacturer/Equipment producer		Italy	Maintenance and revamping of rolling stock					
ELH	Manufacturer/Equipment producer		Germany	Production of bogies for use in railway wagons and passenger cars as well as in special cars, such as railway track machinery					X
Elomatic	Engineering consulting and		Finland	Expertise in mechanical, process, energy and shipbuilding industries	X				
Elpro	Manufacturer/Equipment producer		Germany	Group of companies: plans, builds and supplies control and electrical systems for the sectors energy, natural gas, water, mining, cement and transportation					
Elta	Manufacturer/Equipment producer	non-SME	France	On-board equipment for railroad applications (fail-safe processors, data transmission, on-board power conversion)					
EMEF	Manufacturer/Equipment producer	non-SME	Portugal	Heavy Maintenance, Upgrading and Refurbishment processes on Railways Rolling Stock and its related Equipments; Preventive and Corrective Maintenance; Assembly Inspection, Tests and Commissioning; Freight Wagons Design, Manufacturing and Upgrading					
Engineering Informatica ingegneria	Engineering consulting and		Italy	Offer of business integration, application and infrastructure outsourcing, innovative solutions and strategic consultancy		X	X	X	X

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

ENOTRAC	Engineering consulting and		Switzerland	Technical advice and solutions, with an emphasis on electrical engineering	X	X	x		
EOMYS ENGINEERING	Engineering consulting and		France	Expertise in electrical engineering (electromechanics and electromagnetics), thermics, vibro-acoustics, structural mechanics and fluid mechanics	X		X		X
EPHY MESS Gesellschaft für Elektro Physikalische Meßgeräte	Manufacturer/Equipment producer	SME	Germany	Temperature sensors, speed sensors and oil level gauges					
Era-Contact	Manufacturer/Equipment producer	non-SME	Germany	Solutions for power and signal transmission, switchgear, heavy connectors and vehicle wiring for complex and simple requirements in international railway technology					
ETF	Manufacturer/Equipment producer	Non-SME	France	Construction and maintenance of national railway networks, urban transport networks and industrial sidings			X		
Europainting	Manufacturer/Equipment producer		Italy	Supplier to the railway constructors, with the manufactory of components and rolling stock painting					
European Technologies Advanced	Engineering consulting and		Italy	Design and development of integrated control systems, hardware and software, for the acquisition and processing of data in safety contexts and environmental monitoring		X			X
European Trans Energy	Manufacturer/Equipment producer	non-SME	Austria	Power transmission and distribution					
Euskotren	Railway undertaking and/or Infrastructure manager	non-SME	Spain	Commuter, inter-city and urban transit train operating company	X				
Evoleo Technologies	Engineering consulting and	SME	Portugal	Design of critical and complex electronic systems, embracing four areas of activity: Space, Transportation, Energy and Health	X	X	X		X

EVR Aktsiaselts Eesti Raudtee	Railway undertaking and/or Infrastructure manager	non-SME	Estonia	National railway company of Estonia					
EXA	Manufacturer/Equipment producer	non-SME	France	Modelling and simulations for industry					
Fachhochschule Brandenburg - University of Applied Sciences	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in Informatics and Engineering					
Fainsa	Manufacturer/Equipment producer	SME	Spain	Manufacture seats for passenger transport					
Faiveley	Manufacturer/Equipment producer	non-SME	France	Wide range of products related to the train equipment, such as cabin heating, ventilation and air conditioning (HVAC); HVAC system room, air distribution ducts, exhaust; pantographs and high voltage switches, energy meters, auxiliary power converters, master controllers and driver awareness system	X				X
FBO	Manufacturer/Equipment producer	SME	France	Manufacturing of hydraulic and pneumatic transmissions					
FCC Construction	Manufacturer/Equipment producer	Non-SME	Spain	Construction industry pacesetter with experience in civil engineering, building, refurbishing, industrial construction and concessions			X		
FCP	Engineering and consulting		Austria	Planning, static and structural design, project control, technical and financial control, check engineering, design management			X		
FEDERICO (University of Naples)	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in Construction Engineering, Transport Engineering and Material and Production Engineering					
Ferrovial	Manufacturer/Equipment	Non-SME	Spain	Transportation infrastructures with 4 business lines: services, toll roads, construction and			X		

	producer			airports					
Ferrovie dello Stato Italiane	Railway undertaking and/or Infrastructure manager	non-SME	Italy	Running more than 8,000 trains and managing a network of 16,700 kilometres		X	X	X	
FEUP (University of Porto - Faculty of Eng.)	Research organisation (Universities/Research centres)	N/A to research centres	Portugal	Expertise in Traction systems, Wireless TCMS, Carbody shells, running gears, doors, tracks, bridges and tunnels, infrastructure maintenance, travel shopping, ticketing, freight wagons, etc.	X	X	X	X	X
FHOO (Uni of Applied Sci. Upper Austria)	Research organisation (Universities/Research centres)	N/A to research centres	Austria	Expertise in Railway Automation and Traffic Telematics (train control systems, GNSS for railway applications...), in Logistics and in Non-destructive Testing	X	X		X	X
FIDAMC	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in in composite material technologies	X				X
FISA	Manufacturer/Equipment producer	SME	Italy	Design and production of seats for public transport vehicles on road and rail.					
FOGTEC	Manufacturer/Equipment producer	SME	Germany	Fire protection system solutions in railborn means of transport					
France signalisation	Engineering consulting and		France	Safety assurance for work sites					
Fraunhofer	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in Personal mobility, Freight mobility, Innovative vehicle technology and electromobility, Lightweight construction systems, Road safety, Automotive innovation, Networked research	X		X		X
Frenoplast	Manufacturer/Equipment producer	SME	Poland	Asbestos-free fractional materials: brake disk linings, composite brake inserts, sliding materials, etc.					
Frequentis		Non-SME	Austria	Supplier of communication and information					

				solutions for safety-critical applications					
Fretless Idea	Engineering consulting and		Italy					X	X
Freudenberg Schwab Vibration Control	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of vibration control components and system solutions					
Friedrich Hippe Maschinenfabrik	Manufacturer/Equipment producer	SME	Germany	Carrier systems and cases from steel, stainless steel and aluminium for rail vehicles. Manufactures a wide range of lighting masts, signal posts and other products for signaling equipment and railway infrastructure					
Fugro	Engineering consulting and	Non-SME	Netherlands	Interpreting earth and engineering data and supporting clients with the design, construction, installation, repair and maintenance of their infrastructure			X		
Funkwerk AG, Traffic & Control Communication	Manufacturer/Equipment producer	non-SME	Germany	Expert in professional communications systems		X			
Funor	Manufacturer/Equipment producer	SME	Spain	Castings in carbon steel, alloy steel and stainless steel					
FUTURE INTELLIGENCE	Engineering consulting and	SME	Greece	Expertise in wireless communications, sensor networking, air navigation systems and cloud computing				X	X
G.H.H Radsatz	Manufacturer/Equipment producer	non-SME	Germany	Axles, wheels & non-driven wheelsets, product design, approval and in-service support, consultancy on rolling stock operations and service improvement, monitoring systems for in-service wheel inspection					
Gamarra	Manufacturer/Equipment producer		Spain	Foundry producing low-alloy carbon steel castings for the rail, transport, lifting machinery, public works, weapons and general industry sectors					

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

GDF Suez	Manufacturer/Equipment producer	non-SME	France	Supply gas and electricity to manufacturers and networks. Industrial site services to reduce manufacturing cost and environmental footprint					
GE Transportation Systems SpA	Manufacturer/Equipment producer	non-SME	Italy	Signalling & communications, traffic control & dispatch systems					
Gebr Bode	Manufacturer/Equipment producer	non-SME	Germany	Door systems for track vehicles					
GEDACK Rohrsysteme GmbH	Manufacturer/Equipment producer	SME	Germany	Supplier of systems for track and road vehicle construction and for the construction of plant and specialist equipment	X				X
GEMMO	Manufacturer/Equipment producer	non-SME	Italy	Design, providing state-of-the-art solutions for substations, contact lines, safety plant and signalling/telecommunications systems					
GETA	Manufacturer/Equipment producer	SME	Germany	Producer of interior design elements and system components for rail-bound vehicles					
Getinsa	Engineering consulting and	non-SME	Spain	Experts on the comprehensive management of infrastructure in all its phases, starting from the preliminary design up to the operation and maintenance, including all the intermediary steps as profitability analysis, studies, projects, works control and supervision, as well as financial management					
Ghent University	Research organisation (Universities/Research centres)	N/A to research centres	Belgium					X	
Ghisalba	Manufacturer/Equipment producer	SME	Italy	Set-up of components dedicated to rail-way sector for use in alternative or direct current up to 1000V					
Gill Research & Development	Engineering consulting and		United Kingdom	Hardware, software and product design consultancy	X		X		

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

Gmeinder Getriebe und MaschinenFabrik	Manufacturer/Equipment producer	SME	Germany	Development, engineering, production and maintenance of gearboxes					
GMT Gummi Metall Technik	Manufacturer/Equipment producer	non-SME	Germany	Manufacturers of components and systems in the field of anti-vibration technology					
GMV Sistemas	Manufacturer/Equipment producer	non-SME	Spain	Developing and implementing intelligent transport systems based on GPS, mobile communications and GIS technology					
Go About			Netherlands	Journey planner				X	
GOAL SYSTEMS	Manufacturer/Equipment producer		Spain	Development and roll-out of advanced IT systems applying optimization techniques				X	X
Goldschmidt Thermit	Manufacturer/Equipment producer	non-SME	Germany	Products and services for the construction, renovation, maintenance and modernization of railway tracks					
Goriziane Group	Manufacturer/Equipment producer	SME	Italy	Development of an advanced maintenance system for rolling-stock: traditional maintenance and general overhaul, on board systems technological upgrade and services technical upgrade					
Greenbrier Europe/Wagony Swidnika	Manufacturer/Equipment producer	non-SME	Poland	Design, production & refurbishment of wagons					
Groupe Minerva	Manufacturer/Equipment producer	SME	France	Development and production of cooling solution for motors and heat exchangers					
Guidance Navigation Ltd	Manufacturer/Equipment producer		United Kingdom	World class centre for Microwave and Laser measurement and positioning technology		X	X		
H+R Riecken Maschinenbau	Manufacturer/Equipment producer	SME	Germany	Production of parts and components for railway switches, including points and tongues					
Hacon	Manufacturer/Equipment producer	SME	Germany	Creates and develops high-quality software solutions for traffic, transport and logistics		X		X	X

HANNING & Kahl	Manufacturer/Equipment producer	SME	Germany	Point setting systems, control and safety technology for freight traffic					
Harting Electric	Manufacturer/Equipment producer	non-SME	Germany	Electrical, electronic and optical connection, transmission and networking, as well as in manufacturing, mechatronics and software creation for rail companies					
Heriot Watt University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Railway Engineering, Ground Vibration, Environmental Assessment, High Speed Rail, Critical Velocity, Geotechnical Engineering, Geophysics, Ground-borne Noise, Structural Vibration, Railway Track Dynamics	X		X		
HFG transport Technik	Manufacturer/Equipment producer	SME	Germany	Specialist in the re-conditioning of roller bearings as well as the grinding of cylindrical and spherical roller bearings					
Hicasa	Manufacturer/Equipment producer		Spain	Storage, transformation, distribution and commercialisation of railway materials, rails and railway accessories					
HIMA Paul Hildebrandt	Manufacturer/Equipment producer	non-SME	Germany	Safety controllers, featuring intuitive programming and the capacity to be networked and integrated with cross-manufacturer communication interfaces					
Hirschman Control & Automation	Manufacturer/Equipment producer	non-SME	Germany	Communications systems, management and automation systems dynamic passenger information, customer information, video monitoring, switches, etc.					
Holding Bulgarian State Railways	Railway undertaking and/or Infrastructure manager	non-SME	Bulgaria	Bulgarian State Railways	X			X	X
Hoppecke Batterie Système	Manufacturer/Equipment producer	non-SME	Germany	Research/development/sales/manufacture of batteries & battery systems					

Hübner	Manufacturer/Equipment producer	non-SME	Germany	The range of products and services covers the design and production of folding bellows, vehicle articulation systems, flexible gangway systems, window systems, PUR molded foam components as well as products made of rubber and injection molded plastic					
Huddersfield University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Railway vehicle dynamics, Vehicle-track interaction dynamics, Wheel-rail interface engineering and management, Track and vehicle defect prediction and management, Integrating engineering, risks and economic models, Engineering and safety standards development and compliance	X		X		X
HZ-Cargo	Logistics actor	non-SME	Croatia	Cargo transport Division of the National railway company of Croatia					
HZ-Infrastruktura	Railway undertaking and/or Infrastructure manager	non-SME	Croatia	Railway Infrastructure Division of the National railway company of Croatia					
HZ-Passenger	Railway undertaking and/or Infrastructure manager	non-SME	Croatia	Passenger transport Division of the National railway company of Croatia					
Ibertest	Manufacturer/Equipment producer	SME	Spain	Design and execution of machines and solutions for testing over base materials, components and complete systems					
ICER RAIL , S.L.	Manufacturer/Equipment producer		Spain	Friction material manufacturer for automotive and railway applications	X				
ICOOR	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in traffic management system, virtually-coupled train sets, infrastructure maintenance, travel companion, trip tracker, freight operations and terminals		X	X	X	X
ICR	Engineering consulting and		Spain	Acoustic engineering dedicated to solving noise and vibrations problems					

Idom Ingeniera y Consultoria	Engineering consulting and	non-SME	Spain	Service, from the initial concept of the project to the commissioning and operation of railway systems providing consultancy services, projects and the supervision of railway construction infrastructures, as well as the multimodal transport of passengers and cargo, including studies to define High Speed Railway networks and the construction of urban tram and light railway systems					
IFSTTAR	Research organisation (Universities/Research centres)	N/A to research centres	France	Expertise in Transport and Mobility, Infrastructure, Hazards and the environment, Spatial planning	X	X	X	X	X
IK	Research organisation (Universities/Research centres)	N/A to research centres	Poland	Expertise in Rolling stock research (materials and construction elements, certification tests for rail passenger cars, freight wagon, locomotives and traction units) and Infrastructure research (tracks, control command and signalling, power supply systems)					
IK4	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in power electronics, electric motor, noise and vibration analysis, design of mechatronics systems, testing facilities for wheel to rail contact, etc.	X	X	X		
Ikusi	Manufacturer/Equipment producer	non-SME	Spain	Range of solution which cover the needs for information, entertainment, communications and security of railways, trams and metro, from the double perspective of ground installations at stations and on-board the trains					
iMinds	Cluster		Belgium	Flanders' digital research centre and business incubator				X	
Implaser	Manufacturer/Equipment producer		Spain	Manufacturer of photoluminescent security signs and signalling systems for installation in all types of buildings and industries					
Indra	Manufacturer/Equipment	non-SME	Spain	Solutions and services for the Transport and		X		X	

	producer			Traffic, Energy and Industry, Public Administration and Healthcare, Financial Services, Security and Defence and Telecom and Media sectors					
INDUSMeca	Manufacturer/Equipment producer	SME	France	Industrial mechanics					
Industrias e. Diaz	Manufacturer/Equipment producer		Spain	Manufactures side and cab windows for railways, metro and tram					
Ineco	Engineering and consulting	Non-SME	Spain	Transport engineering and consultancy		X	X		
INEO SCLE Ferroviaire	Manufacturer/Equipment producer	non-SME	Italy	Works on projects for industrial and tertiary-sector electrical installations, energy networks, public lighting, transportation and telecommunications infrastructures, overall security, energy production, information systems, and outsourcing					
Infoglobal	Manufacturer/Equipment producer	SME	Spain	Advanced telecommunications, control, video surveillance and security systems for complex infrastructures					
INFRABEL	Railway undertaking and/or Infrastructure manager	non-SME	Belgium	Builds, owns, maintains and upgrades the Belgian railway network, makes its capacity available to railway companies, and handles train traffic control					
Infranord	Manufacturer/Equipment producer	Non-SME	Sweden	Construction, extension and renovation projects related to railways			X		
Ingeteam Power Technology - Traction	Manufacturer/Equipment producer	non-SME	Spain	Specialised in Traction systems and Energy recovery systems			X		
Init Innovation in traffic Systems	Manufacturer/Equipment producer	SME	Germany	Supplier in Intelligent Transportation Systems (ITS) and fare collection systems					
Innovatrains Ltd	Engineering and		Switzerland	Engineering and design services enterprise			X		X

	consulting			developing, marketing and hiring out train concepts and transshipment systems for rail/road intermodal freight applications					
Inse Rail	Engineering consulting and		Spain	Specialists in Electrification and Substations, Signaling and Safety Installations, Telecommunications, Mechanical Installations, Instrumentation and Control, Civil and Fire Protection and Labour Risks Prevention					
Institute for Automation of Complex Power Systems at RWTH Aachen	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in power systems			X		
Institute for Meteorology, Freie Universität Berlin	Research organisation (Universities/Research centres)	N/A to research centres	Germany		X	X	X		
Institute for Research in Technology Comillas Pontifical University	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Continuum mechanics, Numerical methods in engineering, Earthquake engineering			X		
Institute GEMIT of University of Applied Sciences Niederrhein	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in Logistics, supply chain management					X
Instituto Superior Técnico (IST) - Uni. Lisbon	Research organisation (Universities/Research centres)	N/A to research centres	Portugal	Expertise in Mechanical Engineering	X		X	X	X
Instituto Tecnológico de Aragón (ITA)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in electrical engineering, materials engineering and advanced design of components	X	X			
Instituto Tecnológico de Informática (ITI)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Wireless TCMS, on-board train integrity, on-site testing, network attached object controller, energy for infrastructure, etc.	X	X	X	X	X
INTECS	Manufacturer/Equipment producer	non-SME	Italy	Safety-system software (basic level and application level) for railway signalling					

				applications					
Interporto Bologna	Logistics actor	Non-SME	Italy	Intermodal logistics platforms					X
IRMIE Impianti	Manufacturer/Equipment producer	SME	Italy	Special equipment for testing, produces static converters, battery chargers, automation panels and AT panels for DC and AC power system					
İSTANBUL ULAŞIM A.Ş.	Urban operator	Non-SME	Other	Istanbul Municipality Transportation Company		X	X		
ITK Ingeniera	Engineering consulting and		Spain	All aspects of a project, starting with the precise definition of the needs of the client to offer an integrated solution that brings together construction, production, environmental and personnel aspects via analysis, calculation and engineering					
IVU traffic technologies	Engineering consulting and	SME	Germany	Development and consulting capabilities; feasibility studies for refurbishment and newly developed railway cars					
JEZ Sistemas Ferroviarios	Manufacturer/Equipment producer		Spain	Design, production and sale of fixed track equipment					
Kelox	Manufacturer/Equipment producer	non-SME	Spain	Catering equipment for dining cars on long-distance lines					
Kirow Ardelt	Manufacturer/Equipment producer	non-SME	Germany	Production of railway cranes					
Klimat Fer	Manufacturer/Equipment producer	SME	Italy	Designs and produces air-conditioning systems for the rail, metropolitan, tram and aircraft transport sectors					
Knape Gruppe Holding	Manufacturer/Equipment producer	non-SME	Germany	Project planning and execution, conventional track laying, machine technology, welding, logistics or security					
Knorr-Bremse	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of braking systems for rail and commercial vehicles	X				X

KOLOWAG	Manufacturer/Equipment producer	non-SME	Bulgaria	Wheel Sets (Axle manufacturing), Freight and Passengers Wagons					
Koncar	Manufacturer/Equipment producer	non-SME	Croatia	Designs and manufactures electric locomotives, tramcars, EMUs and rolling stock components. Maintains, modernises and refurbishes various electric rolling stock					
Kontron Modular Computers	Manufacturer/Equipment producer	non-SME	Belgium	Train management, interlocking, control centre, video surveillance, information systems, etc.					
Konvekta	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of thermo systems for commercial vehicles					
KOVIS	Manufacturer/Equipment producer	non-SME	Slovenia	Production of high quality metal products for the railway vehicles, such as brake discs, axle boxes, brake pad and brake shoe holders					
Kouvola Innovation Ltd	Cluster		Finland	Economic development company whose aim is contribute to sustainable development of the business sector for Kouvola to become the most magnetic and dynamic business environment in south-eastern Finland			X	X	X
KTH	Research organisation (Universities/Research centres)	N/A to research centres	Sweden	Expertise in Holistic Transport Systems, Future Transportation Infrastructure, Innovative Vehicle Concepts, Transport in the Information Era	X		X		X
KU Leuven	Research organisation (Universities/Research centres)	N/A to research centres	Belgium	Expertise in the development of numerical prediction models for railway induced ground vibrations	X		X		X
Künstler Bahntechnik	Manufacturer/Equipment producer	SME	Germany	Machine Tools, Switch Building, Wagon Building, Structural Steelwork and Power Plant Engineering					
La Celsia Di E Bacchetta	Manufacturer/Equipment producer	SME	Italy	Produces, designs and regenerates contacts, and rigid and flexible connections for the industry and for the electrified transport sector					

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

La Sapienza (Università di Roma)	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in running gears, traffic management system, freight access and operations, freight terminals and marshalling	X	X			X
LDZ Valsts Akciju Sabiedriba "Latvijas Dzelzceļš"	Railway undertaking and/or Infrastructure manager	non-SME	Latvia	Management of railway infrastructure and logistics services					
Leo Express a.s	Railway undertaking and/or Infrastructure manager	non-SME	Czech Republic	Open-access train operator set up in 2010					
Leonhard Weiss	Manufacturer/Equipment producer	non-SME	Germany	Construction group and construction services provider					
Leonord Bauer & Co	Manufacturer/Equipment producer	SME	Germany	Develops, produces and markets devices and systems for measuring technology, open loop control and closed loop control in the field of motion automation					
LG - JSC "Lithuanian Railways"	Railway undertaking and/or Infrastructure manager	non-SME	Lithuania	National, state-owned railway company of Lithuania					
Liebherr transportation Systems	Manufacturer/Equipment producer	non-SME	Germany	Develops and manufactures air conditioning systems, actuating and power supply systems for all kinds of rail cars					
LIFT - Railway and Traffic Laboratory	Engineering consulting and		Italy	Consulting services in planning and scheduling of transport services, in particular on railway, for public and private companies and research and development projects in the same areas		X	X	X	
LKS Ingeniera	Engineering consulting and	non-SME	Spain	Rail transportation planning, demand studies, alternatives and information studies and project and construction layout and technical assistance to address or geotechnical work					
Loco2	Manufacturer/Equipment	SME	United	Online travel agent specialising in trains				X	

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

	producer		Kingdom						
LOGIPLUS	Manufacturer/Equipment producer		Belgium	Design and manufacture of railway and industrial electronic equipment				X	X
Lohr Industrie	Manufacturer/Equipment producer	non-SME	France	Designing, manufacturing, marketing, servicing of industrial vehicles and equipment for the transport of goods					
London Underground	Urban operator	non-SME	United Kingdom	Public rapid transit system serving a large part of Greater London					
Lucchini RS	Manufacturer/Equipment producer	Non-SME	Italy	Steel manufacturing group whose core business is the production of high-end railway components (wheels, axles and wheelsets)	X				X
Luleå Uni. of Technology	Research organisation (Universities/Research centres)	N/A to research centres	Sweden	Expertise in Mechanical and Materials Engineering and Civil Engineering					X
Lütze transportation	Manufacturer/Equipment producer	non-SME	Germany	Developing and manufacturing electronic and electrical engineering components for automation					
LuxMobility	Engineering and consulting		Luxembourg	Producing knowledge, solutions and consultancy for mobility challenges in the urban environment				X	
Luznor Desarrollos Electronicos	Manufacturer/Equipment producer		Spain	Design, manufacture and commercialization of professional torches (for railway industry)					
MAHLE Industrial Thermal Systems	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of components and systems for the internal combustion engine and its peripherals as well as vehicle air conditioning and engine cooling					
Manchester University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom		X				

Manifatturia Testori	Manufacturer/Equipment producer	SME	Italy	Manufacturers for the railway textile market					
Mann + Hummel	Manufacturer/Equipment producer	non-SME	Germany	Development partner and original equipment supplier to the international automotive and mechanical engineering industries					
Manusa Door Systems	Manufacturer/Equipment producer	non-SME	Spain	Design, production, installation and maintenance of automatic door systems					
Matisa Matériel Industriel	Manufacturer/Equipment producer	non-SME	Switzerland	Track construction & maintenance, track and fixed element monitoring					
MÁV Zrt	Railway undertaking and/or Infrastructure manager	non-SME	Hungary	Hungarian State Railways					
Max Bögl Bauunternehmung	Manufacturer/Equipment producer	non-SME	Germany	Building and traffic route construction, civil engineering and tunnel construction, steel and plant construction, prefabricated part construction as well as supply and disposal					
MB Sistemas	Manufacturer/Equipment producer	non-SME	Spain	Integration of automated solutions in the sector of railway rolling stock' manufacturing. The portfolio of services & products ranges from the analysis of production's needs, process's establishment and linked industrial solution, concept and detail design, manufacturing, start-up and try out of the installation, providing a service "turnkey" anywhere in the world					
MBD DESIGN	Engineering and consulting	SME	France	Engineering, technical studies					
MERCE (Mitsubishi Electric R&D Centre)	Research organisation (Universities/Research centres)	N/A to research centres	France	Developing innovative technologies for both communication systems and sustainable energy systems				X	
Mermec	Manufacturer/Equipment	non-SME	Italy	Design and development of end-to-end measurement, signalling and asset		X	X		X

	producer			management solutions for railways and rapid transits					
MessMa	Manufacturer/Equipment producer	SME	Germany	Supplier for speed indicators, driving systems, and factory terminals for light and heavy rail vehicles					
Metallurgica Bresciana	Manufacturer/Equipment producer	SME	Italy	High-technology cables for special applications					
Metalocaucho	Manufacturer/Equipment producer		Spain	Designs and produces rubber-metal parts for suspension and vibration control systems for the railway and automotive sectors					
Metro de Madrid	Urban operator	non-SME	Spain	Operation of the Metro network lines in service, planning and improvements related to the quality of the transport service, and the maintenance and optimisation of Madrid's underground network facilities					
MGN Transformaciones del Caucho	Manufacturer/Equipment producer		Spain	Activity both designing and manufacturing rubber-metal components, mainly for the railway industry					
MGT Maschinen und Gerätebau	Manufacturer/Equipment producer	SME	Germany	Manufacturers of welding-intensive products and components made of steel, stainless steel, aluminium, armor steel, austenitic manganese steel, and various other grades of structural and special purpose steel for machine building industry, plant engineering and construction, vehicle manufacturing and container construction industries					
Microelettrica Scientifica	Manufacturer/Equipment producer	non-SME	Italy	Development of solutions, systems and products in the field of safety, of communication and control systems and of electronics obsolescence					
Minilampe	Manufacturer/Equipment producer	SME	France	Electric lighting installation device					

Mipro Oy	Manufacturer/Equipment producer	SME	Finland	Company specialised in safety and environmental technology with a focus on safety, reliability and quality + developing and supplying solutions for railway interlocking and traffic control, industry safety automation, and water and energy management					
Mostostal	Manufacturer/Equipment producer	Non-SME	Poland	Polimex-Mostostal Steel Structures Division manufactures steel structures for the industries like power engineering, petrochemical, metallurgy, telecommunication, road construction					
Movares	Engineering consulting and	non-SME	Netherlands	Consultancy and engineering services covering the fields of infrastructure, public transport, mobility, power, waterways and urban development			X		
MULTITEL ASBL	Research organisation (Universities/Research centres)	N/A to research centres	Belgium	Expertise in voice technologies, data fusion, optic fibre applications, image processing, and computer network management		X		X	
National Railway Infrastructure Company (NRIC)	Railway undertaking and/or Infrastructure manager	non-SME	Bulgaria	Bulgaria's state-owned railway infrastructure company					
NBT Europe	Engineering consulting and		Belgium	Global energy solutions consulting services company	X		X	X	
NCB Lohmann	Manufacturer/Equipment producer	SME	Germany	Handles complex, custom powertrain-component machining projects in the rail transport technology and automotive-engineering sectors, as well as for general mechanical engineering ventures.					
Neelogy	Manufacturer/Equipment producer		France	Develops and markets magnetic sensors with no remanence for DC and DC+AC current measurements			X		
Network Rail	Railway undertaking	non-SME	United	Running, maintaining and developing Britain's	X	X	X		X

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

	and/or Infrastructure manager		Kingdom	rail tracks, signalling, bridges, tunnels, level crossings, viaducts and 19 key stations					
Newag	Manufacturer/Equipment producer	Non-SME	Poland	Manufacturing, modernising and repairing rolling stock	X				
NewRail	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in rail freight and logistics, rail infrastructure, rail systems and rail vehicles	X		X	X	X
NEXALA	Manufacturer/Equipment producer	SME	Ireland	Engineering Maintenance Management (E2M); Real-time Remote Diagnostic Monitoring (R2M); In-Service Performance Planning & Management (P2M); Component Condition Monitoring (C2M)					
Norwegian University of Science and Technology, NTNU	Research organisation (Universities/Research centres)	N/A to research centres	Norway	Expertise in building and construction, and geotechnical engineering			X		X
Nottingham University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in vehicle light-weightening, power conversion, power trains and transmission, advanced real time positioning systems, sustainable infrastructure materials, etc.	X	X	X	X	
NS (N.V. Nederlandse Spoorwegen)	Railway and/or Infrastructure undertaking manager	non-SME	Netherlands	Main public transport railway company in the Netherlands					
ÖBB Österreichische Bundesbahnen	Railway and/or Infrastructure undertaking manager	non-SME	Austria	Austrian Federal Railways					
OHL	Manufacturer/Equipment producer	Non-SME	Spain	Concession and construction group			X		
Oltis	Manufacturer/Equipment producer	SME	Czech Republic	Design, development and testing of information standards in area of railway transport				X	X
OMER	Manufacturer/Equipment	SME	Italy	Components and interior designing for general					

	producer			means of transport					
Optiplan GmbH	Manufacturer/Equipment producer	SME	Germany	Manufacturing and developing glass fibre reinforced plastics					
Orbital Aerospace Systems	Engineering consulting and		Spain	Expertise in systems engineering and specialisation in the design, development, verification, and integration of critical software, and has expertise in integrated modular technology (IMA) adapted to the avionics in any sector		X			
OSE Hellenic Railway Organization	Railway undertaking and/or Infrastructure manager	non-SME	Greece	Greek national railway company which owns, maintains and operates all railway infrastructure in Greece					
Panteia	Research organisation (Universities/Research centres)	N/A to research centres	Netherlands	Expertise in the field of modelling, forecasting and evaluation of international traffic flows					
Parros Obras	Manufacturer/Equipment producer		Spain	Civil construction and iron and steel industry for the railway sector					
Photon Laser Manufacturing GmbH	Manufacturer/Equipment producer		Germany	Manufacture of complex subassemblies made of steel, stainless steel, aluminium and composite materials	X		X		
Pilz	Manufacturer/Equipment producer	non-SME	Germany	Solutions for complete automation - from sensor technology to control and drive technology					
Pixy	Manufacturer/Equipment producer	SME	Switzerland	Train control, video solutions, Main line signalling, mass transit signalling and safety					
PKP - Polskie Koleje Panstwowe S.A	Railway undertaking and/or Infrastructure manager	non-SME	Poland	Largest railway operator in Poland					
PLASSER & THEURER	Manufacturer/Equipment producer	non-SME	Austria	Range of products: Machines and vehicles for installation, renewal and maintenance of tracks and overhead lines					

POLI	Manufacturer/Equipment producer	non-SME	Italy	Braking system of railway vehicles					
Polimi & Fondazione Politecnico di Milano	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in Dynamics and Vibrations; Electrical and electronic measurement; Electrical Machines, Converters and Drives; Ground Vehicles; Mechatronic design of automatic machines and rehabilitation devices	X	X	X	X	X
Politecnico di Torino	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in land and infrastructure engineering and in Electronics and Telecommunications					X
POSEICO	Manufacturer/Equipment producer		Italy	Research, design, manufacturing and trade of high power diodes, thyristors, power assemblies and traction rectifiers					
Prefarails S.A.	Manufacturer/Equipment producer		Belgium	Expertise in embedded rails	X	X	X	X	
PRORAIL	Railway undertaking and/or Infrastructure manager	non-SME	Netherlands	Government task organisation that takes care of maintenance and extensions of the national railway network infrastructure					
PSI Transcom	Manufacturer/Equipment producer	SME	Germany	Depot management and automatic vehicle management solutions for railway and local city transport companies					
PVI	Manufacturer/Equipment producer	SME	France	Vehicles construction					
Radsatzfabrik Ilsenburg	Manufacturer/Equipment producer	non-SME	Germany	Wheels & wheelsets					
Rail One	Manufacturer/Equipment producer	Non-SME	Germany	Manufacturing of concrete sleepers and delivering innovative track systems for mainline and urban transit			X		
Railenium	Research organisation (Universities/Research centres)	N/A to research centres	France	Research, development and innovation strategy	X	X	X	X	X

	centres)	centres		that targets railway infrastructure and systems					
RAILTECH INTERNATIONAL	Manufacturer/Equipment producer	non-SME	France	Manufacture of chemical products for industrial use					
Rapiscan Systems	Manufacturer/Equipment producer		France	Security screening provider				X	X
RATP	Urban operator	non-SME	France	Public transport company operating all modes of collective mobility – bus, metro, trains and trams		X			
REALITY SYS sa	Manufacturer/Equipment producer		Belgium	Products in the professional interactive sound systems				X	
REFER	Railway undertaking and/or Infrastructure manager	non-SME	Portugal	Public company responsible for providing the public service of managing the national railway network infrastructure in Portugal		X	X	X	
REGIOJET StudentAgency holding a.s	Railway undertaking and/or Infrastructure manager	non-SME	Czech Republic	Private passenger railway operator which operates in the Czech Republic and Slovakia					
RENFE	Railway undertaking and/or Infrastructure manager	non-SME	Spain	State-owned company which operates freight and passenger trains					
Rexxon	Manufacturer/Equipment producer		Germany	Specialist for air-conditioning technology, electronics as well as electro-technical equipment for mobile applications					
Rhomberg Rail	Manufacturer/Equipment producer	Non-SME	Austria	Planning and design, consulting, railway construction, electrification, prime and general contractor, slab track, mechanised track construction and maintenance, track system technology, Freight Rail Transport			X		
RINICOM	Manufacturer/Equipment producer		United Kingdom	Technology company specialising in providing state-of-the art solutions for wireless broadband communications, digital TV broadcasting and wireless video surveillance applications			X	X	

RISC Software GmbH	Engineering consulting and		Austria	International IT service company		X		X	
Robosoft	Manufacturer/Equipment producer		France	Providing B2B service robots					X
routeRANK Ltd	Manufacturer/Equipment producer		Switzerland	Travel search engine, corporate travel solutions for companies, Solutions to integrate door-to-door travel planning into consumer travel platforms				X	X
RPA (Railway Procurement Agency)	Urban operator		Ireland	State agency responsible for ensuring the provision of light rail and metro infrastructure while delivering top quality passenger services					
RSSB	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Interface issues (engineering and operational interfaces within the railway, and interfaces with other parts of the community and society); System issues (improving understanding of how the whole railway behaves and the interactions of its constituent parts); Strategic issues (to support cross-industry planning)	X	X	X	X	X
Sacatec	Manufacturer/Equipment producer	SME	France	Manufacturing of rubber pieces					
SafeRail	Engineering consulting and		France	Expertise from preliminary design to maintenance of signalling equipment following entry to service		X		X	
Saft	Manufacturer/Equipment producer	Non-SME	France	Designer and manufacturer of advanced-technology batteries for industry					X
SAIRA	Manufacturer/Equipment producer	non-SME	Italy	Integrated systems for on-board train control, monitoring, diagnosis, communication, and on-board-to-ground communication for remote maintenance and dynamic updating of the operational parameters					

SALCEF	Manufacturer/Equipment producer	non-SME	Italy	Renewal of railway tracks, replacing the entire railway line superstructure usually during partial railway traffic windows					
Salford University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in railway condition monitoring, control of vehicle dynamics and traction, train scheduling and time tabling, civil engineering, acoustics research	X	X	X		
SAPA Mass Transportation	Manufacturer/Equipment producer	non-SME	Sweden	Body sides, floor panels, roof panels, door sills, cant rail, can trail extensions					
Sateba	Manufacturer/Equipment producer	non-SME	France	Manufacturing of concrete parts for the construction					
SBF Spezialleuchten GmbH	Manufacturer/Equipment producer	SME	Germany	Development of ceiling and lighting systems for direct or indirect light with the appropriate luminous intensity and colour temperature					
Schaeffler	Manufacturer/Equipment producer	non-SME	Germany	Drive systems, chassis, mechatronics and vehicle bodies					
Schaltbau Holding	Manufacturer/Equipment producer	non-SME	Germany	Connectors, snap-action switches, contactors, electrics for rolling stock (driver's cab and passenger use, high-voltage switchgear and heaters, brakes)					
Scheidt & Bachman	Manufacturer/Equipment producer	non-SME	Germany	Signalling systems (level-crossing, interlocking system, consulting, installation & maintenance), fare collection systems					
SCHIENENVERKEHR SYSTEM TECHNIK	Manufacturer/Equipment producer	non-SME	Germany	Planning systems, operations control, signalling technology					
Schroff	Manufacturer/Equipment producer	non-SME	Switzerland	Outdoor and indoor cabinets, Subracks, Frontpanels and handles, Systems Backplanes and power supplies, 19"-chassis, wall mounted enclosures and climate control systems					

Sécheron Hasler Group	Manufacturer/Equipment producer	non-SME	Switzerland	Design and production of electric protection and switching devices used in railway applications: AC/DC circuit breakers, contactors, disconnect switches, etc.					
SEF Industrie	Manufacturer/Equipment producer	SME	France	Design, manufacture and sale of electronic and electrical equipment					
SEIB	Manufacturer/Equipment producer		Spain	Design of products and electronic processes to reduce the consumption of raw materials and processes, using components and cutting-edge techniques to increase functionality and reduce the cost of products shipped by rail					
Selectron Systems	Manufacturer/Equipment producer	SME	Switzerland	I&C systems and PLC control systems (for wider temperature range, resistant to shock, vibration, moisture and electromagnetic interference), time delay relays, monitoring relays, semiconductor relays, software tools; consulting & training					
Selex ES	Manufacturer/Equipment producer	non-SME	Italy	Electronic and information solutions for defence, aerospace, space, security, high-integrity surveillance, network management, information security and mission-essential services		X		X	
SELTA	Manufacturer/Equipment producer	non-SME	Italy	Solutions for line control and station systems in the rail sector					
SEMI	Manufacturer/Equipment producer	non-SME	Spain	Electrification and Traction Substations for AC and DC, Auxiliary Electrical Equipment, Engineering and Consulting, Maintenance of Catenary and Substations, Infrastructure for Railway Signaling and Communications					
Sener Ingenieria y Sistemas	Engineering consulting and	non-SME	Spain	Preliminary conceptual studies, basic and detailed engineering projects, quality control, etc.					
SGW Schaltgerätewerk Werder	Manufacturer/Equipment producer	SME	Germany	Machined pieces, simple welded components, components with electrical installations					

Sheffield University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Advanced manufacturing			X		
Siemens	Manufacturer/Equipment producer	non-SME	Germany	Multinational engineering and electronics conglomerate company	X	X	X		
SIFEL	Manufacturer/Equipment producer	non-SME	Italy	Design, installation and maintenance of systems for electric railway, tramway and subway traction systems. plant signalling railway tunnel safety of rail networks					
Silver Atena	Engineering consulting and	Non-SME	United Kingdom	Development of safety-critical systems, including systems engineering, hardware engineering, software engineering, and safety engineering		X			
SINTEF	Research organisation (Universities/Research centres)	N/A to research centres	Norway	Expertise in materials, building and infrastructure	X	X	X	X	X
Sirti	Engineering consulting and	Non-SME	Italy	Civil Engineering and Network Engineering		X			
SISCOG	Manufacturer/Equipment producer	SME	Portugal	Software company that provides decision support systems for resource planning and management in transportation companies, with special experience in the field of railways		X		X	
SKF	Manufacturer/Equipment producer	non-SME	Sweden	Wheelsets, bearings and housings equipped with sensors for speed, temperature and vibration detection, package supplier of bearing solutions for traction motor and gearbox applications, test centre for endurance and homologation testing, services					
Skoda	Manufacturer/Equipment producer	Non-SME	Czech Republic	Production of low-floor trams, electric locomotives, subway trains, suburban train units and trolleybuses, as well as traction motors or complete driving gears for transport systems					

SNCB/NMBS Société Nationale des Chemins de fer Belges	Railway undertaking and/or Infrastructure manager	non-SME	Belgium	National Belgian Railway Company					
SNCF	Railway undertaking and/or Infrastructure manager	non-SME	France	France's national state-owned railway company	X	X	X		
Souriau Esterline Connection Technologies	Manufacturer/Equipment producer	non-SME	France	Design, Manufacturing and selling of electromechanical devices for security applications					
Southampton University	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in infrastructure, noise and vibration, human factors, railway planning and operations, trilogy, signalling and on-board systems					
Spencer Moulton SARL	Manufacturer/Equipment producer	SME	France	Production of rubber to metal solutions and pieces					
SPII	Manufacturer/Equipment producer		Italy	Design and realization of integrated driver desks, control panels and components for trains, subways and trams					
Spitzke SE	Manufacturer/Equipment producer	non-SME	Germany	New build, renewal and corrective maintenance projects for railway facilities					
SQS, SA	Engineering consulting and		Spain	Software quality consultancy services		X		X	
St. Pölten University of Applied Sciences	Research organisation (Universities/Research centres)	N/A to research centres	Austria	Expertise in traffic management system, dynamic railway information management system, travel companion and trip-tracker		X	X	X	
Stadler	Manufacturer/Equipment producer	non-SME	Switzerland	Manufacturer of locomotives and other rolling stock					
Statens Järnvägar AB	Railway undertaking and/or Infrastructure manager	non-SME	Sweden	Government-owned passenger train operator in Sweden					

Strabag Rail	Manufacturer/Equipment producer	Non-SME	Austria	Railway construction business			X		
Stradal	Manufacturer/Equipment producer	non-SME	France	Manufacturing of concrete parts for the construction					
STRAGO Spa	Manufacturer/Equipment producer		Italy	Geognostic and geophysical investigations, applied mainly to civil engineering problems			X		
Strukton Rail	Manufacturer/Equipment producer	non-SME	Netherlands	Technology provider for rail systems	X		X		
Sweco Rail AB	Engineering consulting and	non-SME	Sweden	Expertise in Architecture and urban planning, Building service systems, Civil engineering, Energy systems		X	X		X
SYKO Gesellschaft für Leistungselektronik	Manufacturer/Equipment producer	SME	Germany	Production of switching regulators, regenerators, DC/DC converters, AC/DC power supply units, DC/AC power inverters and AC/AC frequency inverters					
Systra	Engineering consulting and	Non-SME	France	Consulting and engineering for public transport infrastructure		X	X		
SZ - Slovenske Železnice d.o.o	Railway undertaking and/or manager	non-SME	Slovenia	State railway company of Slovenia					
SZDC Správa Železnicí Dopravní Cesty	Railway undertaking and/or manager	non-SME	Czech Republic	SŽDC's main task is to fulfil the function of an owner/operator of the national and regional rail owned by the State					
Talgo	Manufacturer/Equipment producer	non-SME	Spain	Manufacturer of intercity, standard, and high speed passenger trains	X				
Talleres Alegria	Manufacturer/Equipment producer	SME	Spain	Manufactures among other turnouts for High Speed Lines, conventional Lines, subway and Tramway lines, as well as End Forged Switch Points and Track Vehicles					

Tallinn Science Park Tehnopol Foundation	Cluster		Estonia	Support the implementation of new and perspective technologies and accelerating the growth of technology based companies	X	X	X	X	X
Tampere University of Technology	Research organisation (Universities/Research centres)	N/A to research centres	Finland	Expertise in Intelligent Hydraulics and Automation	X				
Tata Steel	Manufacturer/Equipment producer	Non-SME	United Kingdom	Steel producer			X		
TEC (University of Maribor)	Research organisation (Universities/Research centres)	N/A to research centres	Slovenia	Expertise in transportation economics, brake mechanics, carbody-shells, intelligent system for infrastructure constructions, freight wagons propulsion systems, etc.	X	X	X	X	X
Techni Industrie	Manufacturer/Equipment producer	SME	France	Manufacturing of metallic structures and parts of structures					
Technical Research Centre of Finland (VTT)	Research organisation (Universities/Research centres)	N/A to research centres	Finland	Expertise in Vehicles, transport and logistics research	X	X	X	X	X
Technical University of Denmark (DTU)- Networks Technology Group -DTU Fotonik-	Research organisation (Universities/Research centres)	N/A to research centres	Denmark			X		X	
Technosite			Spain	ICT accessibility company				X	
Tecnia	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Smart transport systems, electrification, lightening, functional materials and function integration	X				
TECSA	Manufacturer/Equipment producer		Spain	Specialised in customized electric cables and simplifies the equipment manufacturing process by supplying finished cables ready to connect					
Teknorail	Engineering consulting and		Spain	All processes, from design, engineering, development, supply and commissioning, to renewal of cars; adapting to the needs of each					

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

				client and each project					
Thales	Manufacturer/Equipment producer	non-SME	France	Supplier of systems, solutions, equipment and services for mobility on railways, roads and public networks		X		X	
TITAGARH WAGONS AFR	Manufacturer/Equipment producer		France	Freight wagons manufacturer					X
Tor Vergata (University of Rome)	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in Freight electrification, brake and telematics		X			X
Trafikverket	Railway undertaking and/or Infrastructure manager	non-SME	Sweden	Swedish Transport Administration	X	X	X		X
TRAI NOSE	Railway undertaking and/or Infrastructure manager	non-SME	Greece	Railway company in Greece which currently operates all passenger and freight trains on OSE lines					
TRAM (Tramvia Metropolita - Barcelona)	Urban operator	non-SME	Spain	Public transport company that manages the two current tram networks that run throughout Barcelona's metropolitan area				X	
TRANSDEV GROUP	Urban operator	non-SME	France	International private public transport operator					
Transport Research Institute, J.S.C., Žilina, Slovakia - Výskumný ústav dopravný, a.s. Žilina	Research organisation (Universities/Research centres)	N/A to research centres	Slovakia	Engineering and technology, operation, infrastructure, economy, legislation, management and organisation, informatics and automation, environment, energy systems, transport safety and quality, transport services and tourism management, transport policy, certification and testing in the field of construction products, special products and interoperability			X	X	X
Transport Research Laboratory (TRL)	Engineering and consulting		United Kingdom	Research, consultancy, testing and certification for all aspects of transport				X	

Transport Systems Catapult	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Technology and innovation centre for Intelligent Mobility	X	X	X	X	X
Transrail B&V	Manufacturer/Equipment producer		France	Windings specialist supplying products in the field of electricity transformation	X				
TransTec Vetschau	Manufacturer/Equipment producer	SME	Germany	Production of bogies, manufacturing of assemblies and components for industrial applications, variety of services in the field of steel industry					
Transurb Technirail SA	Engineering consulting and		Belgium	Extensive experience and expertise in construction/restoration of complex railway and mass transit infrastructure projects, rolling stock refurbishment and procurement, works supervision and installation of signaling and telecommunication systems, information technology and electro-mechanical systems	X	X	X		
TRB Lightweight Structures	Manufacturer/Equipment producer		United Kingdom	Experience with both new train builds and refurbishment of existing trains	X		X		X
TSI	Engineering consulting and		Spain	Noise & Vibration Engineering solutions	X				
TSO	Manufacturer/Equipment producer	non-SME	France	Track works					
TU Delft	Research organisation (Universities/Research centres)	N/A to research centres	Netherlands	Expertise in wireless TCMS, brake systems, doors, running gears, traffic management system, tracks, infrastructure maintenance, freight wagons, etc.	X	X	X	X	X
TU Wien	Research organisation (Universities/Research centres)	N/A to research centres	Austria	Expertise in research and standardization for future mobile communications	X	X			
TU-Berlin Technische Universität Berlin, Department	Research organisation (Universities/Research centres)	N/A to research centres	Germany	Expertise in Track and Railway Operations	X	X	X	X	X

FOSTER RAIL / D5.5 - Database for potential Partners to the SHIFT²RAIL Innovation Programmes

of Railways (Fachgebiet Schienenfahrwege und Bahnbetrieb)	centres)	centres								
TWI	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in wireless TCMS, carbody shells, running gears, brake systems, doors, tracks, bridges and tunnels, infrastructure maintenance	X		X			
Tyco Electronics France	Manufacturer/Equipment producer	non-SME	France	Manufacture and sale of electrical and electronic connections						
TYPSA	Engineering and consulting	non-SME	Spain	Civil engineering, building technology, energy & industry and environment						
UDC (Universidade da Coruña)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in civil engineering, telecommunications and smart transport		X	X	X		
UNIBO (Università di Bologna)	Research organisation (Universities/Research centres)	N/A to research centres	Italy	Expertise in power electronics, telecommunications, risk evaluation and management, software engineering, mobile systems, etc.	X	X	X	X	X	
UniControls	Manufacturer/Equipment producer	SME (according to EU definition: less than 250 employees and less than € 50 M turnover)	Czech Republic	Development, production and installation of control systems and of electronic equipment in the fields of rail transportation	X					
UNIGE (University of Genova)	Research organisation (Universities/Research centres)	N/A to research centres	Switzerland	Expertise in Earth and Environmental Sciences			X			
Université Catholique de Louvain (UCL)	Research organisation (Universities/Research centres)	N/A to research centres	Belgium	Expertise in Mechanics, Materials and Civil Engineering	X	X	X	X	X	

University of Alcalá	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in Computer science					
University of Limerick	Research organisation (Universities/Research centres)	N/A to research centres	Ireland	Expertise in Physics and Mechanical Energy	X				
University of Pardubice, Jan Perner Transport Faculty	Research organisation (Universities/Research centres)	N/A to research centres	Czech Republic	Expertise in construction, modernization and reconstruction of railway, maintenance of railway, railway vehicles protection, etc.	X	X	X	X	X
University of Salford	Research organisation (Universities/Research centres)	N/A to research centres	United Kingdom	Expertise in Acoustics Research			X		X
University of Zagreb, Faculty of Transport and Traffic Sciences	Research organisation (Universities/Research centres)	N/A to research centres	Croatia	Expertise in Traffic and Transport, Intelligent Transport Systems and Logistics				X	
UNIZA (University of Zilina)	Research organisation (Universities/Research centres)	N/A to research centres	Slovakia	Expertise in means of transportation, transport networks, technologies, modelling, economics and optimization of transport processes, ICT and their applications, security and safety, etc.	X	X	X	X	X
UPM (Universidad Politécnica de Madrid)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in traffic management system, infrastructure maintenance, energy for infrastructure, IT solutions for passengers, logistics		X	X	X	X
Uppsala University	Research organisation (Universities/Research centres)	N/A to research centres	Sweden	Expertise in Signals and Systems		X	X		
UPV (Universitat Politècnica de València)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in carbody shells, running gears and infrastructure maintenance	X		X		X
UPV/EHU (University of the Basque Country)	Research organisation (Universities/Research centres)	N/A to research centres	Spain	Expertise in wireless TCMS, running gears, brakes, traffic management, tracks and freight	X	X	X		X

	centres)	centres		wagons					
Urbano Creativo srl	Engineering consulting and	SME	Italy	Urban planning strategies and creative services for Smart&Green Cities and Web&Media	X	X			X
Vapor Europe	Manufacturer/Equipment producer	non-SME	Italy	Components for locomotives and freight cars, including state-of-the-art electronic train-control systems, pneumatic, hydraulic and electro-pneumatic brake equipment, car couplers and current collectors					
VDS	Manufacturer/Equipment producer	SME	Italy	Train Backbone Routers, train Switches and Railway HMI					
VEM Sachsenwerk	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of technically sophisticated system and drive solutions, custom drives and single components					
VIAS	Manufacturer/Equipment producer		Spain	General construction company			X		
VibraTec	Engineering consulting and	SME	France	Helping to reduce machine design, development and test phases, anticipate start-up or launch problems and find the causes of mechanical failures or excessive noise levels.	X				
Virtual Vehicle (Vif)	Research organisation (Universities/Research centres)	N/A to research centres	Austria	Expertise in Mechanics and Materials, Information and Process management, Thermo and fluid dynamics, NVH and friction	X		X		X
Voestalpine	Manufacturer/Equipment producer	Non-SME	Austria	Turnout technology, special rails, tool steel, and special sections			X		
Voith Turbo	Manufacturer/Equipment producer	non-SME	Germany	Drive systems for rail vehicles, e.g. turbo transmissions, final drives, self-locking differentials, cardan shafts, cooling systems, Scharfenberg couplers (automatic, semi-permanent), impact protection systems as well as the diesel hydraulic locomotive families Voith Maxima and Voith Gravit					

Vossloh	Manufacturer/Equipment producer	non-SME	Germany	Positioned in certain niche markets such as rail fasteners or switch systems and in the manufacture of diesel locomotives and key electrical components for trams, metros, and trolleybuses	X		X		X
VR Group Ltd	Railway undertaking and/or Infrastructure manager	non-SME	Finland	State-owned railway company in Finland					
VÚKV	Engineering consulting and	SME (according to EU definition: less than 250 employees and less than € 50 M turnover)	Czech Republic	Development and testing of railway vehicles, their parts and other components from the area of transport engineering	X				
Wascosa	Logistics actor	Non-SME	Switzerland	Hiring out and management of freight cars for rail traffic					X
WAY	Manufacturer/Equipment producer		Italy	Design and construction of signaling systems and rail safety					
Weidmüller Interface	Manufacturer/Equipment producer	non-SME	Germany	Power, signal and data					
Wiebe	Manufacturer/Equipment producer	Non-SME	Germany	Track construction, high and civil engineering, turnkey construction, tunnel construction, project development, reconstruction of buildings, safety device and logistics			X		
Wiener Linien	Urban operator	non-SME	Austria	Vienna's public transport operator responsible for some 140 underground, tram and bus lines	X	X	X	X	
Winhoff Bahn und Anlagentechnik	Manufacturer/Equipment producer	non-SME	Germany	Design, manufacture and supply of a broad range of high-tech products, viz. from rail					

				vehicles to railway construction, railway depots and shunting technologies					
Winkler	Manufacturer/Equipment producer	SME	Germany	Heating Foils, Silicone Heaters, Seamless Heating Cable and Heated Hoses for rail applications					
Wirthwein AG	Manufacturer/Equipment producer	non-SME	Germany	Manufacturer of high-quality plastic components			X		
Zonegreen Ltd	Manufacturer/Equipment producer		United Kingdom	Bringing technologies to railway depots, workshops and freight yards through innovative, software, hardware and cloud computing offerings		X		X	
ZSR - Železnice Slovenskej Republiky	Railway undertaking and/or Infrastructure manager	non-SME	Slovakia	State-owned railway infrastructure company in Slovakia					
ZSSK	Railway undertaking and/or Infrastructure manager	non-SME	Slovakia	Slovak state-owned passenger trains operated company					
ZSSK CARGO	Logistics actor	non-SME	Slovakia	Provider of cargo services					

3. Description of Deliverable

It is important here to explain about the methodology used to create such a database. As previously mentioned, the pre-condition for drafting such a table has been to largely inform as many companies and Research organisations as possible on the whole continent about the future SHIFT²RAIL Programme.

A first way to inform companies and Research organisations (and thereby identify potential partners) has been to work together with International, European and National Associations that passed on the information to their numerous Members. We know that European and International associations such as UNIFE, EURNEX, UITP and UIC but also National Associations such as the Spanish Railway Association (MAFEX), the French *Fédération des Industries Ferroviaires* (FIF), the German *Verband der Bahnindustrie* (VDB) or the Italian *Associazione dell'Industria Ferroviaria* (ASSIFER) have been precious information relays in this regard. The table therefore lists a lot of entities that got the information through this channel.

However, we were fully aware that not all Research organisations and not all companies (be they suppliers, operators, infrastructures managers or logistics actors) are Members of these Associations. It was therefore essential to find another way to address these entities, especially in Member States where the affiliation to European and National Rail Associations might be less common (compared to France, Germany, Italy or Spain). In this regard, Foster Rail has played a considerable role as it made it possible to participate in 10 information workshops on SHIFT²RAIL in no less than 9 Member States between May 2013 and June 2014. Here is the list of these information events often organised by the Transport or Research Ministry of these Member States:

City	Country	Date
Vienna	Austria	22 May 2013
The Hague	The Netherlands	3 June 2013
Warsaw	Poland	23 September 2013
Bucharest	Romania	26 November 2013
Tallinn	Estonia	6 December 2013
Ljubljana	Slovenia	11 December 2013
Dublin	Ireland	16 December 2013
Zagreb	Croatia	6 February 2014
Bucharest	Romania	5 June 2014
Sofia	Bulgaria	6 June 2014

A lot of the companies and Research organisations listed in the database were met during these information workshops. The wide attendance of those confirms the great interest for SHIFT²RAIL all over Europe.

As far as the database is concerned, it was decided to provide information on:

- the type of entity (supplier, operator, infrastructure manager, logistics actor, R&D organisation)
- the size of the entity (SME or not in the case of enterprises)
- the country of location of the headquarter
- the core business

A fifth column was added for the entities (among the 482) which already officially expressed their interest in SHIFT²RAIL by:

- signing the Preparatory Phase Memorandum of Understanding for SHIFT²RAIL Promoters (150 entities in this case)
- contacting UNIFE as the Coordinator of the SHIFT²RAIL Preparatory Phase to know more about the initiative (after having participated in an information event or having consulted the SHIFT²RAIL

website) (125 entities in this case).

For those 275 entities, it was possible to already predetermine the exact area of interest within SHIFT²RAIL, in other words the Innovation Programme(s) they might be willing to participate in (see the crosses in the fifth column).

4. Examples of documents related to these SHIFT²RAIL information workshops

LIST OF PARTICIPANTS
SHIFT² RAIL meeting of 26 November 2013, Ministry of National Education,
Mendeleev Street 21-25, Bucharest, 10:00, meeting room 301

No	Name and Surname	Organisation	e-mail
1	Constantin Enachirici	Min. Ed. Nat. - actin. cercetare	constantin.enachirici@actin.ro
2	Stancescu George	UTCB	gstancescu@cfdp.utcb.ro
3	CATALIN ANDREI	UTCB	ANDREICATALIN@UTCB.RO
4	GATTOI MARIUS-ANDREI	UTCB	MARIUS-GATTOI@UTCB.COM
5	Dan CARAMAN	Integral Consulting R&D	dan.caraman@integralconsulting.ro
6	CLAUDIU SEICAN	ASOCIATIA INDUSTRIEI FEROVIARE ROMANE	CLAUDIU.SEICAN@THALESGROUP.COM
7	Jean-Philippe PEUZAT	UNIFE	jeanphilippe.peuzat@unife.org
8	Nicolas FURIO	UNIFE	nicolas.furio@unife.org
9	George Bala	Ministerul Educatiei, Cercetarii si Tineretului - AC	george.bala@mdc.ro
10	MARIAN DUTA	INCA-ICMIET CRIOVA	general.manager@icmet.ro
11	FLORIAN DAN	Electrical Engineering Faculty from UPE	dan.florian@upe.ro
12	VLADUT VALENTIN	INMA Bucharest	vladut@inma.ro
13	MATACHE MIHAI	INMA Bucharest	matache@inma.ro
14	DOGARU DAN-MIHAI	SC "Ateliera CAR Grivita" SA	dan.dogaru@grivita.ro
15	POPEVICI IULIU-ROMEO	INCBI "ICPE-CA"	iuliu.popevici@icpe-ca.ro
16	NEMTANU FLORIN	POLITEHNICA UNIVERSITY OF BUCHAREST TRANSPORT FACULTY, TELEMATICS DEPT.	florin.nemtanu@ieee.org
17	Beatrice PADURON	Ministry of National Education	beatrice.paduron@mdc.ro
18	Mihai NICULESCU	POLITEHNICA University of Bucharest Transport Faculty, Teleatics Dept.	mniculescu@rdslink.ro
19	Tudor PRIBECARU	Ministry of National Education	tudor.pribecaru@mdc.ro
20	Relouzo PREDESCU	Secretary of State	relouzo.predescu@mdc.ro
	Anda MEN - Research Dept.		relouzo.predescu@mdc.ro



SHIFT²RAIL Stakeholder Consultation Meeting

16th December 2013

Department of Transport

44 Kildare Street, Dublin 2

PROGRAMME

From 13.30h: Registration and Networking Coffee

14.00h: Welcome from Mr Leo Varadkar, Minister for Transport

14.15h: “SHIFT²RAIL - Objectives, Priorities & Opportunities” – Philippe Citroen, Director General of UNIFE (The Association of the European Rail Industry)

14.40h: “Opportunities for the Rail Sector in Horizon 2020” – Bob Flynn, Enterprise Ireland

15:00h – 16:00h: Question & Answer Session, moderated by Monica Wallace, Transport Attaché, Permanent Representation of Ireland to the EU

After the event, UNIFE representatives will be available to meet separately with interested parties (by prior arrangement via the Department of Transport)



**Information event for Bulgarian stakeholders on SHIFT²RAIL
The new Joint Undertaking for Rail Research and Innovation**

MINISTRY OF TRANSPORT, INFORMATION TECHNOLOGY AND COMMUNICATIONS
5TH floor
Sofia, 6 June 2014

11:00 – 11:15	Registration and Welcome coffee
11:15 – 11:45	<p>Welcome address</p> <p>Opening speech by:</p> <p>Mr Peter Kirov <i>Deputy-Minister of Transport, Information Technology and Communications</i></p> <p>Dipl. Eng. Milcho Lambrev <i>Director General, National Railway Infrastructure Company</i></p> <p>Dipl. Eng. Biser Minchev <i>Chief Safety Inspector, National Railway Infrastructure Company</i></p>
11:45 – 12:10	<p>General presentation of the SHIFT²RAIL initiative (background, promoters throughout Europe, objectives, research priorities)</p> <p>Mr Philippe Citroën <i>UNIFE Director-General</i></p>
12:10 – 12:30	<p>SHIFT²RAIL: how to participate?</p> <p>Mr Jean-Philippe Peuziat <i>Public Affairs Manager, UNIFE</i></p>
12:30 – 12:50	<p>Railway Infrastructure Priorities – 2014 – 2020</p> <p>Mr Nisim Primo <i>Head of "Monitoring" Unit, National Railway Infrastructure Company</i></p>
12:50 – 13:30	<p>Exchange with the audience (Industry, SMEs, universities, research centres, railway undertaking, freight operators, urban tram operators, infrastructure manager, public authorities)</p>
13:30 – 13:40	<p>Closing remarks by:</p> <p>Mr Ivan Krastev (tbc) <i>Deputy-Minister of Education and Science</i></p> <p>Dipl. Eng. Biser Minchev <i>Chief Safety Inspector, National Railway Infrastructure Company</i></p>
13:40-	Sandwich Break

5. Conclusion

As mentioned in the Executive Summary, this tool is not intended as an exhaustive list but rather as a living instrument which could continue to develop in the course of SHIFT²RAIL. We can be sure that even more companies and Research centres could be interested in Europe and therefore added to this list.

For the time being, this extensive mapping confirms:

- that the whole sector is interested in SHIFT²RAIL (Cf. the column on the type of entity which clearly shows that not only suppliers but also operators, infrastructure managers, logistics actors and R&D organisations have an interest in the initiative);
- that a lot of SMEs have now been informed about SHIFT²RAIL and would be willing to participate in future R&D activities;
- that the interest in Europe is very widespread geographically.