



TER4RAIL
Transversal Exploratory
Research Activities for Railway



SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (1/6)

Year	Acronym	Title	Web
2014	eco-railjacket	Total Full Ecologic Embedded Railways Jacket System	Cordis
2014	Greenrail	Greenrail: sustainability, safety and saving in the railroad sleeper of tomorrow	Cordis / Web
2014	LCODA	Electronic scanning MIMO Radar for railway level crossing obstruction detection alerting	Cordis
2014	OpticTrainDetection	Optical and Acousto-optic Sensor Technology for Railway-Applications	Cordis
2014	OTR	Off The Rails	Cordis
2014	Tunnelsafe2020	Road and rail tunnel fire protection	Cordis
2014	TRANSFARE	Transport System with Artificial Intelligence for Safety and Fare Evasion	Cordis



Elaborated by TER4RAIL Project (G.A. #826055). More info: www.ter4rail.eu



SME INSTRUMENT: <https://ec.europa.eu/easme/en/eic-sme-instrument>



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SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (2/6)

Year	Acronym	Title	Web
2014	ITECCO	Innovative Transport Equipment for Coal, Coke and Ore	Cordis
2014	SEEABLE	An Innovative ICT Solution for Providing Bespoke Safety and Health Training to Workers in the Construction and Transportation Sectors	Cordis
2015	DIGITALIA	Disruptive process for the construction of railway transition zones, reducing drastically construction and maintenance costs	Cordis
2015	FAST-TRACKS	Fast radio technologies for uninterrupted Train to trackside communications	Cordis
2015	SAFT	Ultrasonic Inspection Solution for railway crossing points.	Cordis
2015	smARtAIL	Smart protective coatings on classic materials for a new generation of ecologically sustainable 'green' railway vehicles	Cordis
2015	tCat WorkStation	New adaptable equipment for geometric auscultation of railways and overhead lines	Cordis



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SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (3/6)

Year	Acronym	Title	Web
2015	TRACKSCAN	A practical, portable and robust scanning system using infrastructure inspection radar (IIR) for the investigation of rail track substructure, ballast and tunnel infrastructure	Cordis
2015	CALIPRI	CALIPRI - an easily customisable all purpose optical gauge for 2D-profiles	Cordis
2015	DIDSON	Paracoustics : System active sound reducing system against noise pollution due to transport	Cordis
2015	D3IMPACT	Data-driven decisions for intelligent management of public transportation	Cordis
2015	NET4TRAIN	Revamping trains with the most advanced broadband communication system	Cordis
2016	DiGas Dual fuel	A novel dual fuel system for diesel locomotive modernisation to CNG or LNG operation	Cordis / Web
2016	DTD SYSTEM	A disruptive innovation for the minimisation of railway maintenance costs	Cordis



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SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (4/6)

Year	Acronym	Title	Web
2016	GRAILS-SWE	Greater RAIL Safety using the Smart Washer Ecosystem	Cordis
2016	POWERVE	Portable Weigher for Railway Vehicles	Cordis / Web
2016	Skylynx	Upgrading Railways from the Air	Cordis
2016	ReVibe	Vibration energy harvesters to power the IoT revolution	Cordis / Web
2016	TADIL and DITEL	TADIL and DITEL	Cordis
2017	IntelHeat	Intelligent control system for railway points heating with supreme saving of electricity	Cordis
2017	LEDVAR-Z	A New Paradigm for Efficient and Modern Rail Signalling	Cordis



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SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (5/6)

Year	Acronym	Title	Web
2017	Railscope	Improving Railway Safety Through Innovative Sensor System	Cordis
2017	SPEED-EU	Damping device to solve the pantograph-line capture problems, especially for the EU high-speed railways lines	Cordis
2017	VERT	Vertex switch – the foundation for a more sustainable and reliable railway transport system	Cordis
2017	MOTIONPult	Advanced composites for lightweighting land transport structures using pultrusion process	Cordis
2017	RPS	Disruptive Radar Positioning System for trains	Cordis
2017	OMNISCIENT	Prediction and optimisation platform for the mobile assets management	Cordis
2017	DIAG-PANTOGRAPH	Train Pantograph equipped with diagnostic system for reduction of faults and maintenance cost	Cordis



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SME INSTRUMENT – PHASE 1 – RAILWAY PROJECTS (6/6)

Year	Acronym	Title	Web
2018	DETER	A Decision Support Tool to Manage Earthworks along Road and Rail Networks	<u>Cordis</u>
2018	Endive Container	The 1st turnkey container solution for organic ENDIVE growing based on cost-efficient rail gutters.	<u>Cordis</u> / <u>Web</u>
2018	vmRail	The on-board railway track & vehicle monitoring system	<u>Cordis</u>

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H2020 RAIL PROJECTS

Funding Programmes / Calls included:

- Shift2Rail *Call for Members: 27 projects; Open Calls: 36 projects*
- Horizon2020 – Societal Challenges
 - ✓ Smart, green and integrated transport *27 projects*
 - ✓ Secure societies - protecting freedom and security of Europe and its citizens *4 projects*
 - ✓ Secure, clean and efficient energy *1 project*
- Excellent Science – Marie Skłodowska-Curie Actions *9 projects*
- Applications in Satellite navigation *5 projects*
- Industrial Leadership *7 projects*
- SME Instrument *55 projects: 38 Phase I; 17 Phase II*
- Fast Track to Innovation *5 projects*
- 5G PPP *1 projects*
- ECSEL *2 projects*

179 rail projects
identified!



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This information has been identified by **TER4RAIL - WP1 – Rail Innovative Research Observatory**. It presents information compiled by 29/03/2019.

Full information on projects, latest news and updated information available at: www.ter4rail.eu

Is your project not in the list?

Has this information been useful?

Any suggestion?

→ Let us know! aherranz@ffe.es / eprieto@ffe.es

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