

PROJECT

## FR8RAIL

# Development of Functional Requirements for Sustainable and Attractive European Rail Freight

**Funding:** European (Horizon 2020)

**Duration:** Sep 2016 - Aug 2019

**Status:** Complete

**Total project cost:** €3,478,223

**EU contribution:** €3,478,223



**Call for proposal:** H2020-S2RJU-CFM-2015-01-1

[CORDIS RCN : 205695](#)

### Objectives:

The FR8RAIL project proposal is submitted as part of the Shift2Rail Research and Innovation Action. Within the FR8RAIL project proposal there are eighteen European partners. The main aim of the FR8RAIL project proposal is the development of functional requirements for a sustainable and attractive European rail freight.

These objectives of FR8RAIL are:

1. A 10% reduction in the cost of freight transport measured by tonnes per Km
2. A 20% reduction in the time variations during dwelling
3. increase attractiveness of logistic chains by making available 100% of the rail freight transport information to logistic chain information systems

The objectives of the FR8RAIL project will be achieved by developing a number of vital areas within freight rail. There are six main areas of work that form the backbone of this proposal's approach in achieving the development of functional requirements for a sustainable and attractive European rail freight. The work areas are

1. Business Analytics, KPIs, Top Level Requirements
2. Condition Based and Predictive Maintenance
3. Telematics & Electrification
4. Running Gear, Core and Extended Market Wagon
5. Automatic Coupling
6. High level System Architecture and Integration.

The outcome of FR8RAIL and its deliverables are expected to positively contribute to and support the Shift2Rail goals set out in the Strategic Masterplan and the Multi Annual Action Plan viz. to strengthen the role of rail in the transport system, and in particular freight rail transport.

### Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)  
[Shift2Rail - Shift2Rail](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

### Partners:

ANSALDO STS S.p.A. - Italy

Construcciones y Auxiliar de Ferrocarriles, S.A. - Spain

BOMBARDIER TRANSPORTATION GMBH - Germany

DEUTSCHE BAHN AG - Germany

Kompetenzzentrum - Das Virtuelle Fahrzeug, Forschungsgesellschaft mbH - Austria

INDRA SISTEMAS SA - Spain

TATRAVAGONKA AS - Slovakia

KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH\*KB - Germany

SCHWEIZERISCHE BUNDESBAHNEN SBB AG - Switzerland

CONTRAFFIC GMBH - Germany

DEUTSCHES ZENTRUM FUER LUFT - UND RAUMFAHRT EV - Germany

WBN WAGGONBAU NIESKY GMBH - Germany

AC2T RESEARCH GMBH - Austria

ASOCIACION CENTRO TECNOLOGICO CEIT-IK4 - Spain

VERBAND DER BAHNINDUSTRIE IN DEUTSCHLAND (VDB) EV - Germany

MATERIALS CENTER LEOBEN FORSCHUNG GMBH - Austria

PJ MESSTECHNIK GMBH - Austria

**Organisation:** TRAFIKVERKET - TRV

**Address:** RODA VAGEN 1

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**City:** Borlange

**Contact country:** Sweden

**Organisation Website:** [TRAFIKVERKET - TRV](#)

### **Technologies:**

Unclassified Non-technology
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**STRIA Roadmaps:** Network and traffic management systems, Infrastructure

**Transport mode:** Rail transport

**Transport sectors:** Freight transport

**Transport policies:** Other specified

**Geo-spatial type:** Other