

PROJECT

IN2TRACK2

Research into enhanced track and switch and crossing system 2

Funding: European (Horizon 2020)

Duration: Nov 2018 - Apr 2021

Status: Complete

Total project cost: €29,676,015

EU contribution: €13,188,021



Call for proposal: H2020-S2RJU-CFM-2018

[CORDIS RCN : 221611](#)

Objectives:

The IN2TRACK2 proposal addresses the topic of “Research into optimised and future railway infrastructure” of the 2018 HORIZON 2020 SHIFT2RAIL Call for proposals for the Joint Undertaking Members (S2R-CFM-IP3-01-2018).

IN2TRACK2 deals with rail infrastructure sub-system and covers all the works on Switch & Crossing (S&C), Track and Structures (Bridges and Tunnels) included in the SHIFT2RAIL Innovation Programme 3 (including the project IN2TRACK) and contributes to the full longer-term SHIFT2RAIL objectives. IN2TRACK2 represents the opportunity to choose some high-risk, innovative activities from the current SHIFT2RAIL work programme for development under intensive collaboration as the right path for success.

IN2TRACK2 aims to reduce lifecycle costs, improve reliability and punctuality, whilst increasing capacity, enhancing interoperability and improving the customer experience. The structure of the work plan is designed around the development of a certain number of well-focused technological innovations in several areas (S&C, Track and Structures), each and all together, will contribute to achieve the desired impact at the overall railway system level.

The IN2TRACK2 proposal is organised around three technical sub-projects, which are interconnected: S&C, Track and Structures. S&C activities aim at both improving the operational performance of existing S&C and providing radical new S&C system solutions that deliver a step-change in performance of the asset. The IN2TRACK2 Track activities aim at both exploring new track construction to optimise the today track system and improving the track system substantially to provide a step change in performance.

The IN2TRACK 2 Bridges and Tunnels activities aim at improving methods and repair techniques to reduce costs, improve quality and extend the service life of structures. By enhancing S&C, Track and Structures, IN2TRACK2 contributes to all of the expected impacts identified in the Shift2Rail Annual Work Plan 2018.

Parent Programmes:

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

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Network Rail Infrastructure Limited

Address:

1 Eversholt Street
London
NW1 2DN
United Kingdom

EU Contribution: €4,584,887

Partner Organisations:

Centro De Estudios De Materiales Y Control De Obra Sa

Address:

CALLE BENAQUE 9
29004 MALAGA
Spain

Organisation Website:

<http://www.cemosas.es>

EU Contribution: €134,387

Universidade Do Minho

Address:

The Rectory, Largo do Paco
4704553 BRAGA
Portugal

Organisation Website:

<http://www.uminho.pt>

EU Contribution: €193,479

Plasser & Theurer Export Von Bahnbaumaschinen Gesellschaft Mbh

Address:

JOHANNESG 3
1010 WIEN
Austria

EU Contribution: €164,481

Hitachi Rail Sts Spa

Address:

VIA MANTOVANI 3/5
16151 GENOVA
Italy

Organisation Website:

<http://www.ansaldo-sts.com/it/index.html>

EU Contribution: €102,212

Turkiye Cumhuriyeti Devlet Demir Yollari Isletmesi Genel Mudurlugu

Address:

Talatpasa Bulvari 5 Gar Altindag
6330 Ankara
Turkey

EU Contribution: €47,862

Deutsche Bahn Ag**Address:**

Postdamer Platz 2
10785 BERLIN
Germany

Organisation Website:

<http://www.deutschebahn.com>

EU Contribution: €177,928

Fcp Fritsch, Chiari & Partner Ziviltechniker Gmbh**Address:**

MARXERGASSE 1 B
1030 WIEN
Austria

EU Contribution: €27,883

Trafikverket**Address:**

RodaVagen 1
781 89 BORLANGE
Sweden

Organisation Website:

<http://www.trafikverket.se>

EU Contribution: €3,228,122

Ac2T Research Gmbh**Address:**

VIKTOR KAPLAN STRASSE 2
2700 WIENER NEUSTADT
Austria

Organisation Website:

<http://www.ac2t.at>

EU Contribution: €400,960

Infraestruturas De Portugal Sa**Address:**

PRACA DA PORTAGEM
2809 013 LISBOA
Portugal

Organisation Website:

<http://www.infraestruturasdeportugal.pt>

EU Contribution: €129,765

Kompetenzzentrum - Das Virtuelle Fahrzeug Forschungsgesellschaft M.b.h.**Address:**

Inffeldgasse 21a / 1. Stock
8010 GRAZ
Austria

Organisation Website:

<http://www.v2c2.at>

EU Contribution: €393,791

Slovenske Zeleznice Doo**Address:**

Kolodvorska Ulica 11
1000 Ljubljana
Slovenia

EU Contribution: €57,654

Prorail B.v.**Address:**

MOREELSEPARK 3
2038 NL-3511 EP UTRECHT
Netherlands

Organisation Website:

<http://www.prorail.nl>

EU Contribution: €192,570

Vossloh Cogifer**Address:**

21 AVENUE COLMAR
92500 RUEIL MALMAISON
France

Organisation Website:

<http://www.vossloh-cogifer.com>

EU Contribution: €70,082

Materials Center Leoben Forschung Gmbh**Address:**

ROSEGGERSTRASSE 12
8700 LEOBEN
Austria

Organisation Website:

<http://www.mcl.at>

EU Contribution: €75,992

Voestalpine Schienen Gmbh**Address:**

KERPELYSTRASSE 199
8700 LEOBEN
Austria

Organisation Website:

<http://www.voestalpine.com/schienen>

EU Contribution: €161,155

Kirchdorfer Fertigteilverteilung Gmbh

Address:

KIRCHDORFER PLATZ 1
2752 WOLLERSDORF
Austria

EU Contribution: €106,688

Sncf Reseau**Address:**

15-17 Rue Jean-Philippe Rameau
93418 La Plaine Saint-Denis
France

EU Contribution: €742,148

Universidade Do Porto**Address:**

Praca Gomes Teixeira
4099 002 Porto
Portugal

EU Contribution: €248,543

Getzner Werkstoffe Gmbh**Address:**

Herrenau 5
6706 Bürs
Austria

EU Contribution: €98,208

Wiener Linien Gmbh &co Kg**Address:**

Erdbergstrasse 202
1031 Wien
Austria

EU Contribution: €49,708

Voestalpine Vae Gmbh**Address:**

Rotenturmstrasse 5-9
1010 Wien
Austria

EU Contribution: €175,982

Tata Steel France Rail Sa**Address:**

RUE DU MARECHAL FOCH 164
57700 HAYANGE
France

EU Contribution: €106,656

Obb-Infrastruktur Ag

Address:

PRATERSTERN 3
1020 WIEN
Austria

Organisation Website:

<http://www.oebb.at/infrastruktur>

EU Contribution: €359,389

Railenium**Address:**

180 RUE JOSEPH-LOUIS LAGRANGE TECHNOPOLE TRANSALLEY
59300 FAMARS
France

Organisation Website:

<http://www.railenium.eu>

EU Contribution: €642,295

Universidad Del Pais Vasco/ Euskal Herriko Unibertsitatea**Address:**

Barrio Sarriena S N
48940 Leioa
Spain

EU Contribution: €74,081

Acciona Construccion Sa**Address:**

Avenida De Europa 18
28108 Alcobendas
Spain

Organisation Website:

<http://www.acciona-infraestructuras.es>

EU Contribution: €441,114

Technologies:

Infrastructure management
Railway technological infrastructure

Development phase: Research/Invention

STRIA Roadmaps: Infrastructure

Transport mode: Rail transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Other specified

Geo-spatial type: Other