

PROJECT

TAURO

Technologies for Autonomous Rail Operation

Funding: European (Horizon 2020)

Duration: Dec 2020 - May 2023

Status: Ongoing

EU contribution: €1,955,261



Call for proposal: H2020-S2RJU-CFM-2020

[CORDIS RCN : 232534](#)

Objectives:

The high-level objective of TAURO is to identify, analyse and finally propose suitable founding technologies for the future European automated and autonomous rail transport, to be further developed, certified and deployed through the activities planned for the European Partnership for Transforming Europe's Rail System.

To achieve this, TAURO is divided into four technical WPs, following the scope of the call, that each deal with separate system elements, with each contributing to the overall goal of the project. These four areas of work are:

1. Environment perception for automation
2. Remote driving and command
3. Automatic status monitoring and diagnostic for autonomous trains
4. Technologies supporting migration to ATO over ETCS

These technical WPs will be supported by a comprehensive dissemination and exploitation WP that will guarantee the results from TAURO are communicated to the necessary stakeholders, standards and regulatory bodies. This ensures that future policy and technical decisions are taken on the basis of the science and research performed in TAURO. More importantly, it guarantees coherence with other Shift2Rail ongoing activities and assures a seamless bridging between TAURO and the next initiative within Horizon Europe, Transforming Europe's Rail System.

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)

Other programmes: S2R-CFM-IPX-01-2020 Advanced Functions towards Autonomous Trains

Lead Organisation:

Construcciones Y Auxiliar De Ferrocarriles Investigacion Y Desarrollo SI

Address:

JOSE MIGUEL ITURRIOZ 26
20200 BEASAIN
Spain

Organisation Website:

<http://www.caf.net>

EU Contribution: €344,112

Partner Organisations:

Thales Deutschland Gmbh**Address:**

THALESPLATZ 1
71254 DITZINGEN
Germany

Organisation Website:

<http://www.thalesgroup.com/germany>

EU Contribution: €222,200

Hitachi Rail Sts Spa**Address:**

VIA MANTOVANI 3/5
16151 GENOVA
Italy

Organisation Website:

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

EU Contribution: €62,216

Deutsche Bahn Ag**Address:**

Postdamer Platz 2
10785 BERLIN
Germany

Organisation Website:

<http://www.deutschebahn.com>

EU Contribution: €99,330

Societe Nationale Sncf**Address:**

2 PLACE AUX ETOILES
93200 ST DENIS
France

Organisation Website:

<http://www.sncf.fr>

EU Contribution: €99,206

Deutsches Zentrum Fr Luft Und Raumfahrt E.v**Address:**

Linder Hoehe
51147 KOELN
Germany

Organisation Website:

<http://www.dlr.de>

EU Contribution: €23,328

Siemens Mobility Gmbh**Address:**

OTTO-HAHN-RING 6
81379 MUNCHEN
Germany

EU Contribution: €160,453

Indra

Address:

Avenida de Bruselas, 35
Alcobendas Madrid
Spain

Organisation Website:

<http://www.indra.es>

EU Contribution: €130,375

Mer Mec Spa

Address:

VIA OBERDAN 70
70043 MONOPOLI
Italy

Organisation Website:

<http://www.mermecgroup.com>

EU Contribution: €106,988

Bombardier Transportation (Switzerland) Ag

Address:

BROWN-BOVERI-STRASSE 5
8050 ZURICH
Switzerland

EU Contribution: €185,293

Knorr Bremse Systeme Fr Schienenfahrzeuge Gmbh

Address:

Moosacher Strasse 80
401060 MUNCHEN
Germany

Organisation Website:

<http://www.knorr-bremse.com>

EU Contribution: €215,062

Railenium

Address:

180 RUE JOSEPH-LOUIS LAGRANGE TECHNOPOLE TRANSALLEY
59300 FAMARS
France

Organisation Website:

<http://www.railenium.eu>

EU Contribution: €30,000

Faiveley Transport Italia Spa**Address:**

VIA VOLVERA 51
10045 PIOSSASCO TO
Italy

Organisation Website:

<http://www.faiveleytransport.com>

EU Contribution: €88,101

Azd Praha Sro**Address:**

ZIROVNICKA 3146/2, ZABEHLICE
106 00 PRAHA
Czech Republic

Organisation Website:

<http://www.azd.cz>

EU Contribution: €30,300

Alstom Transport Sa**Address:**

48 RUE ALBERT DHALENNE
93400 SAINT OUEN
France

Organisation Website:

<http://www.alstom.com>

EU Contribution: €133,296

Kontron Transportation Austria Ag**Address:**

LEHRBACHGASSE 11
1120 WIEN
Austria

EU Contribution: €25,000

Technologies:

Connected and automated vehicles
Autonomous vehicle technologies

Development phase: Validation

STRIA Roadmaps: Cooperative, connected and automated transport

Transport mode: Rail transport

Transport sectors: Passenger transport, Freight transport

Transport policies:

Societal/Economic issues, Environmental/Emissions aspects, Safety/Security, Digitalisation, Deployment planning/Financing/Market roll-out

Geo-spatial type: Other