Increasing Capacity 4 Rail networks through enhanced infrastructure and optimised operations

Fact Sheet

Project Information

CAPACITY4RAIL
Grant agreement ID: 605650
Status
Closed project
Start date
1 October 2013
End date
30 September 2017
Funded under
FP7-TRANSPORT
Overall budget
€ 14 878 030,93
EU contribution
€ 9 890 105
Coordinated by
UNION INTERNATIONALE DES CHEMINS DE FER
France

Objective

In 2011, the White Paper on European Transport reasserted how fundamental transport was for society, for the mobility of European citizens and for the growth and vitality of the European economy.
CAPACITY4RAIL will deliver research that is innovative, prepares rail for the future and takes into account results from previous research projects and programmes. The project builds on previous useable results and will deliver both technical demonstrations and system wide guidelines and recommendations that will be the basis for future research and investment, increasing the capacities of rail networks in the future.
The time used for infrastructure monitoring, maintenance and renewal means ‘down time’. New concepts for low maintenance infrastructure, using standardized and “plug-and-play” concepts will be proposed. Non-intrusive innovative monitoring
techniques or self-monitoring infrastructure will be investigated, allowing low or no impact on train operations. The fragility of some key component of the infrastructure system (especially in extreme weather conditions) such as switches may impact the efficiency of the whole system. The resilience of switches to any kind of known failure will be reinforced, as well as the ability of the operation system to recover from incidents. Capacity enhancements will also be achieved by higher speed freight vehicles, allowing an optimized interleaving of freight trains into mixed traffic, and improved planning models for operation. Intermodal integration within the global transport system will be improved through enhanced transhipment of passengers and freight. CAPACITY4RAIL will also look towards 2030/2050, by proposing guidelines for future deployments in the mid-term, recommendations for technologies to be developed and deployed in the long term and investigating the key opportunities for funding these within national and EU funding schemes.

Field of science
/social sciences/social and economic geography/transport

Programme(s)

Topic(s)

Call for proposal
FP7-SST-2013-RTD-1

Funding Scheme
CP - Collaborative project (generic)

Coordinator

UNION INTERNATIONALE DES CHEMINS DE FER

Address
Rue Jean Rey 16
75015 Paris
France

Activity type
Other

EU contribution
€ 717 064,15

Website
Contact the organisation
Participants (46)

**ARTTIC**

- **Country:** France
- **EU contribution:** € 288 670
- **Address:** Rue Du Dessous Des Berges 58A, 75013 Paris
- **Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative Contact**
- Aline Wego (Mrs.)

**Website**
- Contact the organisation

**TRAFIKVERKET - TRV**

- **Country:** Sweden
- **EU contribution:** € 331 464,60
- **Address:** Roda Vagen 1, 781 89 Borlange
- **Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**Administrative Contact**
- Jan Bergstrand (Mr.)

**Website**
- Contact the organisation

**SYSTRA SA**

- **Country:** France
- **EU contribution:** € 274 872
- **Address:** Rue Henry Farman 72-76, 75015 Paris
- **Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative Contact**
- Paul Crompton (Mr.)

**Website**
- Contact the organisation
<table>
<thead>
<tr>
<th>Establishment</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEUTSCHE BAHN AG</td>
<td>Germany</td>
<td>€ 626 123</td>
<td>Potsdamer Platz 2, 10785 Berlin</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>NETWORK RAIL INFRASTRUCTURE LIMITED</td>
<td>United Kingdom</td>
<td>€ 263 478</td>
<td>1 Eversholt Street, NW1 2DN London</td>
<td>Other</td>
</tr>
<tr>
<td>ADMINISTRADOR DE INFRAESTRUCTURAS FERROVIARIAS</td>
<td>Spain</td>
<td>€ 230 380,35</td>
<td>Calle Hiedra Est Chamartin, Edificio 23 S, 28036 Madrid</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
</tr>
</tbody>
</table>
Administrative Contact
Miguel Aparicio Aparicio (Mr.)

FUNDACION DE LOS FERROCARRILES ESPANOLES
Spain
EU contribution
€ 57 928

Address
C Santa Isabel 44
28012 Madrid

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Milagros Conde (Ms.)

INSTYTUT KOLEJNICTWA
Poland
EU contribution
€ 127 296

Address
Chlopickiego 50
04 275 Warszawa

Activity type
Research Organisations

Website
Contact the organisation

Administrative Contact
Witold Olpinski (Mr.)

VOESTALPINE RAILWAY SYSTEMS GMBH
Austria
EU contribution
€ 90 000

Address
Kerpenlystrasse 199
8700 Leoben

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Erik Stocker (Mr.)
ACCIONA CONSTRUCCION SA
Spain
€ 289 324,50

Address
Avenida De Europa 18 Parque Empresarial
28108 Alcobendas

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)

Contact the organisation

Administrative Contact
Miguel Angel Paris Torres
(Mr.)

INSTITUTO SUPERIOR TECNICO
Portugal
€ 343 060,75

Address
Avenida Rovisco Pais 1
1049-001 Lisboa

Activity type
Higher or Secondary Education Establishments

Website

Administrative Contact
Olga Ribeiro (Ms.)

UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA
Italy
€ 243 072

Address
Piazzale Aldo Moro 5
00185 Roma

Activity type
Higher or Secondary Education Establishments

Website

Administrative Contact
Stefano Ricci (Mr.)

HITACHI RAIL STS SPA
Italy
EU contribution
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE</td>
<td>€ 121 200</td>
<td>Avenue Louise 221, 1050 Bruxelles</td>
<td>Other</td>
</tr>
<tr>
<td>UNIVERSITY OF NEWCASTLE UPON TYNE</td>
<td>€ 483 406</td>
<td>Kings Gate, NE1 7RU Newcastle Upon Tyne</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td>INGENIERIA Y ECONOMIA DEL TRANSPORTE SME MP SA</td>
<td>€ 189 756</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CENTRO DE ESTUDIOS DE MATERIALES Y CONTROL DE OBRA SA
Spain
EU contribution
€ 310 913
Address
Calle Benaque 9
29004 Malaga
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Contact the organisation
Administrative Contact
Noemi Jiménez-Redondo (Dr.)

NEW OPERA AISBL
Belgium
EU contribution
€ 406 720
Address
Rue Montoyer 31
1000 Bruxelles
Activity type
Research Organisations
Website
Contact the organisation
Administrative Contact
Franco Castagnetti (Mr.)

OLTIS GROUP AS
Czechia
EU contribution
€ 155 340
Address
Activity type
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Address</th>
<th>EU contribution</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Milady Horakove</td>
<td>1200/27A 77900 Olomouc</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KUNGLIGA TEKNISKA HOEGSKOLAN</td>
<td>Brinellvagen 8 100 44 Stockholm</td>
<td>€ 407 110</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHALMERS TEKNISKA HOEGSKOLA AB</td>
<td>- 41296 Goeteborg</td>
<td>€ 346 780,80</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>THE UNIVERSITY OF BIRMINGHAM</td>
<td>Edgbaston B15 2TT Birmingham</td>
<td>€ 444 322</td>
<td>Higher or Secondary Education Establishments</td>
</tr>
</tbody>
</table>
TRL LIMITED
United Kingdom
EU contribution
€ 477 812.50
Address
Crowthorne House Nine Mile Ride
RG40 3GA Wokingham
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Administrative Contact
May Chung (Ms.)

VOSSLOH FASTENING SYSTEMS GMBH
Germany
EU contribution
€ 17 029.80
Address
Vosslohrstrasse 4
58791 Werdohl
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Website
Administrative Contact
Vijay Ramdas (Dr.)

UNIVERSITY OF HUDDERSFIELD
United Kingdom
EU contribution
€ 344 132.80
Address
Queensgate
HD1 3DH Huddersfield
Activity type
Higher or Secondary Education Establishments
Website
Administrative Contact
Denise Oden (Ms.)
TECHNISCHE UNIVERSITAET DRESDEN
Germany
EU contribution
€ 242 184,80
Address
Helmholtzstrasse 10
01069 Dresden
Website
Administrative Contact
Christina Bogacz (Mrs.)

UPPSALA UNIVERSITET
Sweden
EU contribution
€ 73 614
Address
Von Kraemers Alle 4
751 05 Uppsala
Website
Administrative Contact
Olof Jonsson (Mr.)

TURKIYE CUMHURIYETI DEVLET DEMIR YOLLARI ISLETMESI GENEL MUDURLUGU
Turkey
EU contribution
€ 82 800
Address
Talatpasa Bulvari 5 Gar
Altindag
06330 Ankara
Website
Administrative Contact
Salih Akbaykal (Mr.)

INFRAESTRUTURAS DE PORTUGAL SA
**INFRAESTRUTURAS DE PORTUGAL SA**

Portugal  
EU contribution  
€ 102 533  

Address  
Praca Da Portagem  
2809 013 Lisboa  

Activity type  
Private for-profit entities (excluding Higher or Secondary Education Establishments)  

Website  
[Contact the organisation](#)  

Administrative Contact  
Leonor Beja Da Costa (Mrs.)

---

**UNIVERSIDADE DO PORTO**

Portugal  
EU contribution  
€ 82 236  

Address  
Praca Gomes Teixeira  
4099 002 Porto  

Activity type  
Higher or Secondary Education Establishments  

Website  
[Contact the organisation](#)  

Administrative Contact  
Mafalda Marques Moreira Soeiro (Ms.)

---

**VAN DIEREN SWEDEN AB**

Sweden  
EU contribution  
€ 21 690  

Address  
Tappetleden Horna Ind Om 1  
296 41 Ahus  

Activity type  
Private for-profit entities (excluding Higher or Secondary Education Establishments)  

Website  
[Contact the organisation](#)  

Administrative Contact  
Lars Lerstorp (Mr.)

---

**CENTRO DE ESTUDIOS Y EXPERIMENTACION DE OBRAS PUBLICAS - CEDEX**

Spain
<table>
<thead>
<tr>
<th>Organisation</th>
<th>EU contribution</th>
<th>Address</th>
<th>Activity type</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCIÉTÉ NATIONALE SNCF</td>
<td>€ 5 000</td>
<td>2 Place Aux Étoiles 93200 St Denis</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
</tr>
<tr>
<td>Adevice Solutions S.L.</td>
<td>€ 112 683,80</td>
<td>Calle Leonardo Da Vinci 18 Edificio Marie Curie Planta 3 Puerta B 4 Parque C Ientifico Y Tecnologico Cartuja 93 41092 Sevilla</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
</tr>
<tr>
<td>LINKOPINGS UNIVERSITET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation Name</td>
<td>Country</td>
<td>EU Contribution</td>
<td>Address</td>
</tr>
<tr>
<td>----------------------------------------------------------------------------------</td>
<td>-------------</td>
<td>-----------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>EUROPEAN FEDERATION OF RAILWAYS TRACKWORKS CONTRACTORS</td>
<td>Luxembourg</td>
<td>€ 61 440</td>
<td>Rue Eucosider 2, 4714 Petange</td>
</tr>
<tr>
<td>FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT</td>
<td>Spain</td>
<td>€ 33 375,75</td>
<td>Address</td>
</tr>
<tr>
<td>VOSSLOH COGIFER</td>
<td>France</td>
<td>€ 201 000</td>
<td>21 Avenue Colmar, 92500 Rueil Malmaison</td>
</tr>
</tbody>
</table>

Administrative Contact

Anders Peterson (Dr.)

Imrich Korpanec (Mr.)

Raymond Schnepp (Mr.)
**CARGOSPED SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA**

**Poland**

**Address**  
Powazkowska 44C  
01 797 Warsawa

**Activity type**  
Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Website**

**Administrative Contact**  
Magda Wieczorkiewicz (Ms.)

---

**THE UNIVERSITY OF SHEFFIELD**

**United Kingdom**

**EU contribution**  
€ 139 798,80

**Address**  
Firth Court Western Bank  
S10 2TN Sheffield

**Activity type**  
Higher or Secondary Education Establishments

**Website**

**Administrative Contact**  
Joanne Watson (Ms.)

---

**COMSA SAU**

**Spain**

**EU contribution**  
€ 62 700

**Address**  
Calle Viriato 47  
08014 Barcelona

**Activity type**  
Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Website**

**Administrative Contact**
SOCIETE DE TRANSPORTS DE VEHICULES AUTOMOBILES SA

France
EU contribution
€ 61 386

Address
Impasse Chalabre 5 Immeuble Le
75828 Paris Cedex 17

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Bertrand Feurprier (Mr.)

KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH

Germany
EU contribution
€ 38 784,60

Address
Moosacher Strasse 80
80809 Munchen

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website
Contact the organisation

Administrative Contact
Gert Fregien (Dr.)

SNCF RESEAU

France
EU contribution
€ 111 899,80

Address
15-17 Rue Jean-philippe Rameau
93418 La Plaine Saint-denis

Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Website
Contact the organisation
INSTITUT FRANÇAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMENAGEMENT ET DES RESEAUX

Australia

EU contribution
€ 98 652

Address
Boulevard Isaac Newton 14
Cite Descartes 14-20
77447 Marne La Vallee Cedex 2

Activity type
Research Organisations

Contact the organisation

Administrative Contact
Philippe Guiliana (Mr.)

NTNET AB

Sweden

EU contribution
€ 99 360

Address
Radshallagatan 3
212 30 Malmo

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

Administrative Contact
Molinari Fabienne (Ms.)

Last update: 7 December 2017
Record number: 110284

Permalink: https://cordis.europa.eu/project/id/605650/

© European Union, 2020