"MAINtenance, renewal and Improvement of rail transport infrastructure to reduce Economic and environmental impacts"

Fact Sheet

Project Information

**MAINLINE**

Grant agreement ID: 285121

Status
Closed project

Start date
1 October 2011

End date
30 September 2014

Funded under
FP7-TRANSPORT

Overall budget
€ 4 331 915,88

EU contribution
€ 2 972 953

Coordinated by
UNION INTERNATIONALE DES CHEMINS DE FER

France

Objective

"Growth in demand for rail transportation across Europe is predicted to continue. Much of this growth will have to be accommodated on existing lines that contain old infrastructure. This demand will increase both the rate of deterioration of these elderly assets and the need for shorter line closures for maintenance or renewal interventions. However, interventions on elderly infrastructure will also need to take account of the need for lower economic and environmental impacts. This means that new interventions will need to be developed. In addition tools will need to be developed to inform decision makers about the economic and environmental consequences of different intervention options being considered. MAINLINE proposes to address all these issues through a series of linked work packages that will target at least €300m per year savings across Europe with a
reduced environmental footprint in terms of embodied carbon and other environmental benefits. It will:
- Apply new technologies to extend the life of elderly infrastructure
- Improve degradation and structural models to develop more realistic life cycle cost and safety models
- Investigate new construction methods for the replacement of obsolete infrastructure
- Investigate monitoring techniques to complement or replace existing examination techniques
- Develop management tools to assess whole life environmental and economic impact.

The consortium includes leading railways, contractors, consultants and researchers from across Europe, including from both Eastern Europe and the emerging economies. Partners also bring experience on approaches used in other industry sectors which have relevance to the rail sector.

Project benefits will come from keeping existing infrastructure safely in service through the application of technologies and interventions based on life cycle considerations. Although MAINLINE will focus on certain asset types, the management tools developed will be applicable across a broader asset base."

Field of science

/ engineering and technology/civil engineering/transportation engineering/railroad engineering

Programme(s)

Topic(s)

Call for proposal

FP7-SST-2011-RTD-1

Funding Scheme

CP-FP - Small or medium-scale focused research project

Coordinator

UNION INTERNATIONALE DES CHEMINS DE FER

Address

Activity type

EU contribution

R

Oth

€373800
Participants (20)

SERVICE D'ETUDES TECHNIQUES DES ROUTES ET AUTOROUTES

France
EU contribution
€ 76 320

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

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NETWORK RAIL INFRASTRUCTURE LIMITED

United Kingdom
EU contribution
€ 58 800

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1 Eversholt Street
NW1 2DN London

Activity type
Other

Administrative Contact
David Castlo (Mr.)

COWI AS

Denmark
EU contribution
€ 308 350

Address
Parallelvej 2

Activity type
Private for-profit entities
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
<th>EU Contribution</th>
<th>Address</th>
<th>Activity type</th>
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<tr>
<td>MOUCHEL LIMITED*</td>
<td>United Kingdom</td>
<td>€ 322 280</td>
<td>Export House, Cawsey Way, GU21 6QX Woking</td>
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<td>UNIVERSITY OF SURREY</td>
<td>United Kingdom</td>
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<td>Stag Hill, GU2 7XH Guildford</td>
<td>Higher or Secondary Education Establishments</td>
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<td>TWI LIMITED</td>
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<td>€ 207 000</td>
<td>Granta Park Great Abington, CB21 6AL Cambridge</td>
<td>Research Organisations</td>
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</table>

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Maria Sega-Buhalis (Ms.)
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EU contribution

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EU contribution

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EU contribution

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Turkey

EU contribution

€ 72 480
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Damill AB
Sweden
EU contribution
€ 43 200

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COMSA SAU
Spain
EU contribution
€ 60 000

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TRAFIKVERKET - TRV
Sweden
EU contribution
€ 79 980
**CENTRE D'ETUDES ET D'EXPERTISE SUR LES RISQUES L'ENVIRONNEMENT LA MOBILITE ET L'AMENAGEMENT**

France

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

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France

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€ 168 000

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

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**SKANSKA AS**

Czechia

**EU contribution**
€ 23 000

**Address**
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**Activity type**
Private for-profit entities
SINCLAIR KNIGHT MERZ (EUROPE) LIMITED

United Kingdom

€ 315 581

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