RISEN

Project ID: 691135
Funded under: H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge

Rail Infrastructure Systems Engineering Network

From 2016-04-01 to 2020-03-31, ongoing project | RISEN Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tr>
<td>EUR 1 170 000</td>
<td>MSCA-RISE-2015 - Marie Skłodowska-Curie Research and Innovation Staff</td>
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<td>Exchange (RISE)</td>
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<td>EU contribution:</td>
<td>Call for proposal:</td>
</tr>
<tr>
<td>EUR 1 057 500</td>
<td>H2020-MSCA-RISE-2015</td>
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<tr>
<td>Coordinated in:</td>
<td>See other projects for this call</td>
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<td>United Kingdom</td>
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<table>
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<th>Funding scheme:</th>
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<td>MSCA-RISE - Marie</td>
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<tr>
<td>Skłodowska-Curie</td>
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<td>Research and Innovation Staff Exchange (RISE)</td>
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Objective

Social and economic growth, security and sustainability in Europe are at risk of being compromised due to aging and failing railway infrastructure systems. This partly reflects a recognised skill shortage in railway infrastructure engineering. This project, RISEN, aims to enhance knowledge creation and transfer using both international and intersectoral secondment mechanisms among European Advanced Rail Research Universities/SMEs and Non-EU, world-class rail universities including the University of Illinois at Urbana Champaign (USA), Massachusetts Institute of Technology (USA), Southwest Jiaotong University (China), Tsinghua University (China), University of California Berkeley (USA), Railway Technical Research Institute (Japan), University of Sao Paulo (Brazil), Iranian University of Science and Technology (Iran) and University of Wollongong (Australia). This project adds research skill mobility and innovation dimension to existing bilateral collaborations between universities through research exchange, joint research supervision, summer courses, international training and workshops, and joint development of innovative inventions. It spans over 4 years from April 2016 to March 2020.

RISEN aims to produce the next generation of engineers and scientists needed to meet the challenge of providing sustainable, smart and resilient railway infrastructure systems critical for maintaining European competitiveness. The emphasis will be placed on the resilience and adaptation of railway and urban transport infrastructures using integrated smart systems. Such critical areas of the research theme will thus be synergised to improve response and resilience of rail infrastructure systems to climate change, extreme events from natural and human-made hazards, and future operational demands. In addition, researchers will benefit from the co-location of engineering education, training and research alongside world-class scientists and industry users through this initiative. Lessons learnt from rail infrastructure management will be shared and utilised to assure integrated and sustainable rail transport planning for future cities and communities.

Related information

Report Summaries

Periodic Reporting for period 1 - RISEN (Rail Infrastructure Systems Engineering Network)
Coordinator

THE UNIVERSITY OF BIRMINGHAM
Edgbaston
B15 2TT BIRMINGHAM
United Kingdom

EU contribution: EUR 265 500

Activity type: Higher or Secondary Education Establishments
Contact the organisation

Participants

POLITECNICO DI MILANO
PIAZZA LEONARDO DA VINCI 32
20133 MILANO
Italy

EU contribution: EUR 108 000

Activity type: Higher or Secondary Education Establishments
Contact the organisation

UNIVERSIDADE DO PORTO
PRACA GOMES TEIXEIRA
4099 002 PORTO
Portugal

EU contribution: EUR 162 000

Activity type: Higher or Secondary Education Establishments
Contact the organisation

TECHNISCHE UNIVERSITEIT DELFT
STEVINWEG 1
2628 CN DELFT
Netherlands

EU contribution: EUR 112 500

Activity type: Higher or Secondary Education Establishments
Contact the organisation

KUNGLIGA TEKNISKA HOEGSKOLAN
BRINELLVAGEN 8
100 44 STOCKHOLM
Sweden

EU contribution: EUR 90 000

Activity type: Higher or Secondary Education Establishments
Contact the organisation
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33720 TAMPERE
Finland

Activity type: Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 0

KALEVANTIE 4
33100 TAMPERE
Finland

Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 45 000

NORGES TEKNISK-NATURVITENSKAPELIGE UNIVERSITET NTNU
HOGSKOLERINGEN 1
7491 TRONDHEIM
Norway

Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 94 500

CAMINO DE VERA SN EDIFICIO 3A
46022 VALENCIA
Spain

Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 9 000

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601 90 BRNO STRED
Czechia

Activity type: Higher or Secondary Education Establishments

Contact the organisation

EU contribution: EUR 49 500
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3 RUE MARC DONADILLE LES BARONNIES BAT A TECHNOPOL GOMBERT
13013 MARSEILLE
France
EU contribution: EUR 0
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

ROADSCANNERS OY
VARASTOTIE 2
96100 ROVANIEMI
Finland
EU contribution: EUR 27 000
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

EVOLEO TECHNOLOGIES LDA
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4425 656 MAIA
Portugal
EU contribution: EUR 94 500
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Evoleo Technologies GmbH
PRINZENSTR. 22
80639 MUNCHEN
Germany
EU contribution: EUR 0
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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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Partner organisations

THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
1901 SOUTH FIRST STREET SUITE A
618207406 CHAMPAIGN
United States
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Activity type: Higher or Secondary Education Establishments
Contact the organisation
SOUTHWEST JIAOTONG UNIVERSITY

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610031 CHENGDU
China
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

University of Wollongong

NORTHFIELDS AVENUE
2522 WOLLONGONG NSW
Australia
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

MASSACHUSETTS INSTITUTE OF TECHNOLOGY MIT CORPORATION

MASSACHUSETTS AVENUE 77
02139 CAMBRIDGE
United States
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

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NARMAK TEHRAN 1684613114
16845 163 TEHRAN
Iran
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation

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RUÃ¡ DA REITORIA 109 BUTANTA
05508 900 SAO PAULO SP
Brazil
See on map

**Activity type:** Higher or Secondary Education Establishments

Contact the organisation