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

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

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
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Italy

EU contribution: EUR 108 000

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 162 000

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 112 500

Activity type: Higher or Secondary Education Establishments
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EU contribution: EUR 90 000

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

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EU contribution: EUR 0

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Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 45 000

HOGSKOLERINGEN 1
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Activity type: Higher or Secondary Education Establishments

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EU contribution: EUR 94 500

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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
EU contribution:
EUR 0

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13013 MARSEILLE
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Activity type: Other
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EU contribution:
EUR 27 000

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Activity type: Other
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EU contribution:
EUR 94 500

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Activity type: Other
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80639 MUNCHEN
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Activity type: Other
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Partner organisations

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Activity type: Other
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THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

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Activity type: Higher or Secondary Education Establishments
Contact the organisation

TSINGHUA UNIVERSITY

QING HUA YUAN
100084 BEIJING
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Activity type: Higher or Secondary Education Establishments
Contact the organisation

Railway Technical Research Institute

2-8-38 Hikaricho
185-8540 Kokubunjishi
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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

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