GoSAFE RAIL

Project ID: 730817
Funded under: H2020-EU.3.4.8.6.

GoSAFE RAIL – Global Safety Management Framework for RAIL Operations

From 2016-10-01 to 2019-09-30, ongoing project

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
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<tbody>
<tr>
<td>EUR 1 298 750</td>
<td>S2R-OC-CCA-04-2015 - Safer infrastructure – improved object detection and prevention of safety critical events and integrated mobility</td>
</tr>
<tr>
<td>EU contribution:</td>
<td>Funding scheme:</td>
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<tr>
<td>EUR 1 298 750</td>
<td>Shift2Rail-RIA - Research and Innovation action</td>
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<tr>
<td>Coordinated in:</td>
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<tr>
<td>Ireland</td>
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Objective

The GoSAFE RAIL project will be transformative for asset safety in the rail sector. It will bring together inter-disciplinary experts from Risk based asset assessment of infrastructure, Artificial Intelligence (AI), object detection and data management sectors with leaders in network micro-simulation modelling to deliver a Decision Support Tool that will allow a step change for infrastructure safety. The involvement of Infrastructure Managers and Railway Undertakings will ensure the R&D performers have access to data and through collaboration with the Shift2Rail initiative and complementary H2020 projects, access to demonstration sites (a number of preferred tunnel and bridge monitoring locations have already been selected) necessary to develop the tool and a ready market to commercialise it. Through the development of a Network Decision Support Tool the project will provide integrated solutions to issues related to infrastructure safety and planning considering a number of common problems faced by EU infrastructure managers.

The project aligns directly with the Shift2Rail (S2R) masterplan and the three technology demonstrator projects in the Intelligent Asset Maintenance pillar (TD 3.6, 3.7 and 3.8). In particular it will address (i) Integration of Open-Linked Data from a range of sources and transformation to allow for direct use in a safety framework incorporating network modeling, (ii) Real-time methods for object detection will be developed and demonstrated, (iii) Analytical models incorporating Artificial Intelligence (AI) algorithms will be developed to predict asset degradation and (iv) The safety framework can be used to plan maintenance and intervention strategies with the lowest whole life cycle cost.

Related information

<table>
<thead>
<tr>
<th>Report Summaries</th>
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<tr>
<td>Periodic Reporting for period 1 - GoSAFE RAIL (GoSAFE RAIL – Global Safety Management Framework for RAIL Operations)</td>
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</table>
Coordinator

GAVIN AND DOHERTY GEOSOLUTIONS LTD
KILLACLORAN UPPER - AUGHRIM WICKLOW
Ireland
EU contribution: EUR 281 250

KILLACLORAN UPPER - AUGHRIM WICKLOW
Ireland
EU contribution: EUR 74 375

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

Participants

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1 DUBLIN
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EU contribution: EUR 144 375

AMIENS STREET CONNOLLY STATION
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EU contribution: EUR 80 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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EU contribution: EUR 35 000

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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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EU contribution: EUR 101 250

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OPENTRACK RAILWAY TECHNOLOGY GMBH
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1190 WIEN
Austria
EU contribution: EUR 208 125

VIRTUS IT LIMITED
STERLING HOUSE 20 STATION ROAD
SL98EL GERRARDS CROSS
United Kingdom
EU contribution: EUR 130 000

INFRA PLAN KONZALTNIG JDOO ZA USLUGE
LUKE KALITERNE 7
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Croatia
EU contribution: EUR 122 500

Activity type: Other
Contact the organisation

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

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