INNOvative monitoring and predictive maintenance solutions on lightweight WAGon

Fact Sheet

Project information

INNOWAG

Grant agreement ID: 730863

Project website

Status

Closed project

Start date

1 November 2016

End date

30 June 2019

Funded under:

H2020-EU.3.4.8.5.

Overall budget:

€ 1 500 562,50

EU contribution

€ 1 500 562,50

Coordinated by:

UNIVERSITY OF NEWCASTLE UPON TYNE

United Kingdom

Objective

This proposal responds to the first Open Calls issued by the Shift2Rail Joint Undertaking, as part of Shift2Rail Horizon 2020 programme. It specifically addresses the topic S2R-OC-IP5-03-2015: Intelligent freight wagon with predictive maintenance. This topic is complementary with topic S2R-CFM-IP5-02-2015: Start-up activities for Freight Automation.

The INNOWAG project will work towards increasing rail freight competitiveness and the development of the next generation of lightweight and intelligent freight wagons by addressing specific challenges in the three essential areas, identified by the call, through three subsequent work streams, namely:

- Work Stream 1 (WS1): Cargo condition monitoring;
- Work Stream 2 (WS2): Wagon design; and

Moreover, INNOWAG will consider the compatibility between the solutions proposed and researched in the three areas, as well as their integration into a novel concept of wagon.

The aim of the proposed INNOWAG project is to develop intelligent cargo monitoring and predictive maintenance solutions integrated on a novel concept of lightweight wagon, which would respond to major challenges in rail freight competitiveness, in relation to the increase of trans

The INNOWAG project will determine how to effectively integrate innovative technologies for cargo condition monitoring into a novel high performance lightweight freight wagon, supported by effective
health monitoring technologies, and predictive maintenance models for sustainable and attractive European rail freight. The development of novel technology concepts and predictive maintenance models and procedures will be separately addressed by the INNOWAG work streams. The concept underpinning the INNOWAG project relies on the actual needs of rail freight for increasing its competitiveness and attractiveness. The INNOWAG project therefore aims at developing a rail freight service that fits the needs of modern manufacturing and supply chain.

**Field of Science**

/social sciences/sociology/industrial relations/automation

**Programme(s)**

**H2020-EU.3.4.8.5. - Innovation Programme 5: Technologies for sustainable and attractive European rail freight**

**Topic(s)**

**S2R-OC-IP5-03-2015 - Intelligent freight wagon with predictive maintenance**

**Call for proposal**

H2020-S2RJU-OC-2015-01-2

See other projects for this call

**Funding Scheme**

Shift2Rail-RIA - Research and Innovation action

**Coordinator**

**UNIVERSITY OF NEWCASTLE UPON TYNE**

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<th>Address</th>
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<th>EU Contribution</th>
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<td>Kings Gate Ne1 7ru Newcastle Upon Tyne United Kingdom</td>
<td>Higher or Secondary Education Establishments</td>
<td>€ 370 000</td>
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</tbody>
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**Website**

**Contact the organisation**

**Participants (10)**
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<th>Organisation</th>
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<th>Activity type</th>
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<td>Inertia Technology B.V.</td>
<td>€ 112 000</td>
<td>Offenbachlaan 2 522 Jt Enschede</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<tr>
<td>HAVELLANDISCHE EISENBAHN AKTIENGESELLSCHAFT</td>
<td>€ 97 125</td>
<td>Schonwalder Allee 51 13587 Berlin</td>
<td>Private for-profit entities (excluding Higher or Secondary Education Establishments)</td>
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<tr>
<td>LUCCHINI RS SPA</td>
<td>€ 86 000</td>
<td>Via Oberdan 6/A 25128 Brescia</td>
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<tr>
<td>NEW OPERA AISBL</td>
<td>€ 51 062,50</td>
<td>Rue Montoyer 31 1000 Bruxelles</td>
<td>Research Organisations</td>
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<td>PERPETUUM LIMITED</td>
<td>€ 143 750</td>
<td>Enterprise Road Epsilon House, So16 7ns Southampton</td>
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<tr>
<td>POLITECNICO DI MILANO</td>
<td>€ 133 125</td>
<td>Piazza Leonardo Da Vinci 32, 20133 Milano</td>
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<tr>
<td>TECHNISCHE UNIVERSITAT BERLIN</td>
<td>€ 173 500</td>
<td>Strasse Des 17 Juni 135, 10623 Berlin</td>
<td>Higher or Secondary Education Establishments</td>
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<tr>
<td>UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE</td>
<td>€ 67 500</td>
<td>Avenue Louise 221, 1050 Bruxelles</td>
<td>Other</td>
</tr>
</tbody>
</table>
UZINA DE VAGOANE AIUD SA
Romania

Address
Vulcan 2-10
515200 Aiud

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

EU Contribution
€ 157 000

Website
Contact the organisation

VYZKUMNY USTAV ZELEZNICNI, AS
Czechia

Address
Novodvorska 1698
14201 Praha Branik

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

EU Contribution
€ 109 500

Website
Contact the organisation

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