Augmented Usage of Track by Optimisation of Maintenance, Allocation and Inspection of railway Networks

Fact Sheet

Project Information

AUTOMAIN

Grant agreement ID: 265722

Status
Closed project

Funded under
FP7-TRANSPORT

Overall budget
€ 4 077 603,20

EU contribution
€ 2 499 971

Coordinated by
PRORAIL BV
Netherlands

Start date
1 February 2011
End date
31 January 2014

Objective

Rail traffic has increased much in the last decade. This development and the need for model shift from road to rail to decrease CO2 emission, creates a challenge for the railway industry to improve capacity in the network while the need of capacity for maintenance also increases.

The challenge of the project is to do more effective inspection and maintenance in less time.

Therefore the project focus is to optimise and automate maintenance & inspection where possible, also to introduce new planning & scheduling tools and methodology. The project aims to reduce the possession time around 40%.

To achieve this five objectives are set:

1: adopting best practice from other industries in maintenance optimisation (e.g. highways, aerospace).
2: developing novel track inspection approaches for freight routes with a scope on in-train measuring and self inspecting switch.
3: researching and assessing innovations that can improve the effectiveness and efficiency of large
and assessing innovations that can improve the effectiveness and efficiency of large-scale inspection & maintenance processes with a scope on track and switch maintenance, track inspection; 4: further developing of key technologies that will drive the development of modular infrastructure design. 5: developing a new maintenance planning and scheduling tool that is able to optimise the maintenance activities, taking account of the benefits brought about by other improvements in this project.

To achieve these objectives, the project will be organised into 8 Work Packages (WP): WP1: benchmark & evaluation criteria; WP2: improvement specifications for WP3 : improve inspection; WP4:improve maintenance; WP5:improve planning & scheduling and WP6: demonstration. WP7 manages dissemination, exploitation and training. WP8 manages the project.

The Consortiums’ composition covers the whole railway maintenance and inspection field: infrastructure managers, contractors, train operating companies, railway component industry, research organisations, SME’s and railway industry interest organisations.

Programme(s)

Topic(s)

Call for proposal

FP7-SST-2010-RTD-1

Funding Scheme

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

Coordinator

PRORAIL BV

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Moreelsepark 3
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Activity type

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

EU contribution

€ 260 468

Website

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<table>
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<th>Country</th>
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<th>Activity Type</th>
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<td>Trafikverket - TRV</td>
<td>Sweden</td>
<td>€ 95,412</td>
<td>Roda Vagen 1, 781 89 Borlange</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
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<td>Per-Olof Larsson-Kraik</td>
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<td>STRUKTON RAIL BV</td>
<td>Netherlands</td>
<td>€ 110,352</td>
<td>Westkanaaldijk 2, 3542 DA Utrecht</td>
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<td>Nick Oversier (Mr.)</td>
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<td>EURO DECISION</td>
<td>France</td>
<td>€ 162,636</td>
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Last update: 29 May 2017
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