TRANSPORT RESEARCH ARENA

VIENNA 2018

A digital era for transport

solutions for society, economy and environment

Towards efficient linear transport infrastructure maintenance

H2020-project INFRALERT

The main objective of INFRALERT is to develop and implement intelligent solutions that improve infrastructure's capacities, given the growing traffic demands and limited budget to construct and maintain the existing assets. For this purposes, it focuses on the development of an ICT platform (the expert-based Infrastructure Management System, eIMS) to support and automate linear asset infrastructure management from measurement to maintenance. The concept and the scope of INFRALERT have been conceived using a modular approach to facilitate its flexibility and applicability. In particular, it includes a data management system (the Data Farm) and a set of toolkits for data analytics (Asset Condition, Alert Management and the RAMS & LCC), together with a decision support tool which receives the results of these toolkits and optimises maintenance interventions to be done. In particular, it aims to optimize simultaneously the costs, quality indexes and the availability of the network.

The development of the INFRALERT project has been implemented and validated in two real pilots: a meshed road network in Portugal under the jurisdiction of Infraestruturas de Portugal (IP) and a freight railway line in Northern Europe managed by Trafikverket. This poster presents the concept and scheme covered by INFRALERT project, and introduces the methodologies and results of the developed system.

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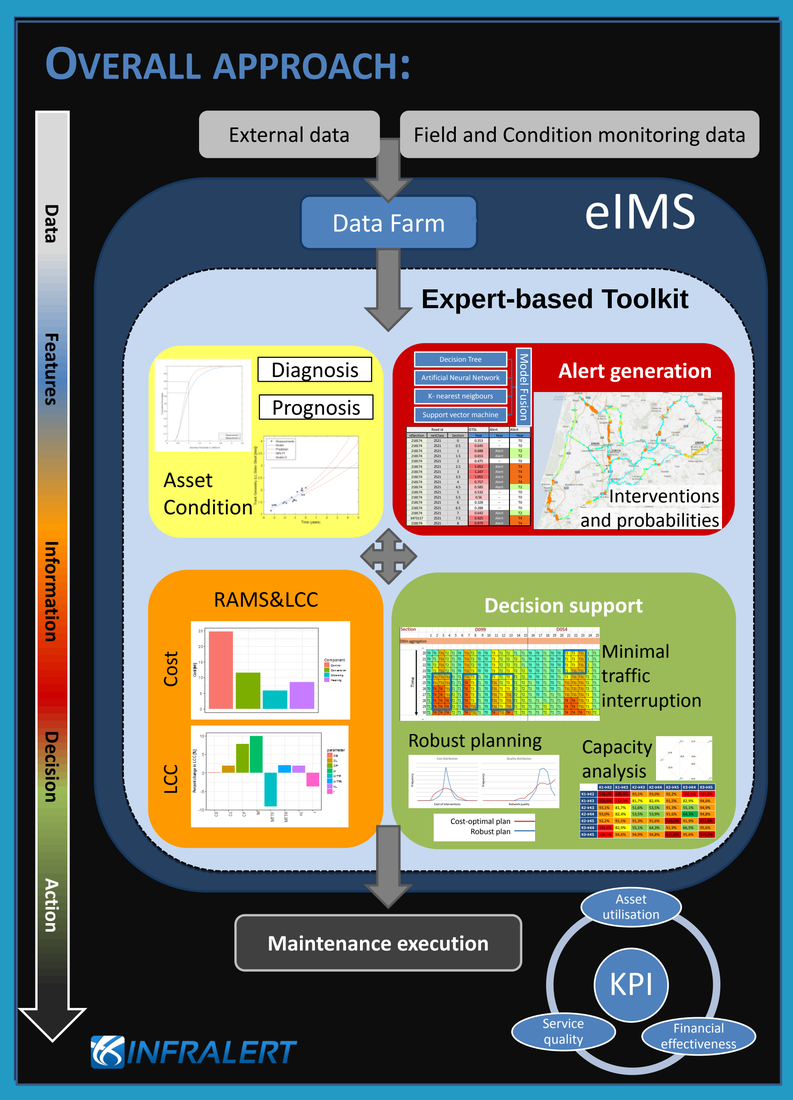

Open Workshop

A more detailed explanation of the methodologies and results derived from INFRALERT will be presented in a **special session organized at TRA2018** on **Tuesday, 17 April 2018, open to all TRA 2018 attendees.**

Room: Galerie 9+10
Time: Session 1 8:15 – 12:00
Session 2 13:15 – 14:45

Jacobo Peralta-Escalante, Noemi Jiménez-Redondo, CEMOSA, Spain
Antonio Reyes, Noelia Caceres, Universidad de Sevilla, Spain
Ute Kandler, Axel Simroth, Fraunhofer-IVI, Germany
András Juszt, Tamás Hanák, REGENS, Hungary
João Morgado, Emanuel Duarte, Infraestruturas de Portugal, Portugal
Johan Odelius, Adithya Thaduri, Lulea Tekniska Universitet, Sweden
Marco Fruttero, Daniele Iorio, DMA, Italy

INFRALERT
Linear infrastructure efficiency improvement by automated learning and optimized predictive maintenance techniques

Horizon 2020 Programme

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