



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

INFRALERT Deliverable D4.1

Summary Sheet

DELIVERABLE TITLE:

D4.1 Database relevant to alert estimation

WORK PACKAGE:

WP4. Alert management

- **T4.1.** Implementing an asset's alert level estimator.

Deliverable Leader:

Universidad de Sevilla

Contributing Partners:

CEMOSA, Fraunhofer IVI

EXECUTIVE SUMMARY:

The INFRALERT project aims to develop an expert-based information system to support and automate linear asset infrastructure management from measurement to maintenance. For this purpose, one of the pillars of the project is WP4, aimed at the development of an alert management system. An alert is generated when the condition of an infrastructure asset crosses a threshold limit value defined by a standard in a specific forecasted scenario. The Alert System will analyse asset condition and operational information to provide alerts whenever the infrastructure reaches, or is close to reaching, a critical level in the present time or in the near future. Therefore, it will be able to combine the current and predicted asset condition with operational and historical maintenance data, to get information about the maintenance tasks that are necessary to avoid later severe degradation or mismatching of safety and/or comfort conditions. All this input information will be available from other WPs in the project. By means of data mining methodologies, this WP will generate a prioritised listing (ranked on severity level) corresponding to the alerts generated by all assets of a linear transport infrastructure, as well as the related historical failures and related historical maintenance interventions.

This deliverable is intended to provide a general description of the main tables and fields for the input data to accomplish the tasks of WP4, as well as the output data of this work package. In this regard, the deliverable also describes the relevant information needed to generate the prioritised listing corresponding to the alerts generated by all assets of a linear transport infrastructure, as well as details of the prioritised list itself.

This deliverable will be subject to revision during the progress of this WP in order to be in tune with the requirements from all WPs in the Project. Therefore, the information and specifications outlined herein might suffer alterations and extensions.

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