SAFEWAY

GIS-based Infrastructure Management System for Optimized Response to Extreme Events on Terrestrial Transport Networks

1st Open Workshop

October 6, 2020
14:00h CEST (8:00h GMT-4)

Welcome and Introduction, by Belén Riveiro, Project Coordinator, University of Vigo

RESEARCH PROGRESS – 14:10-15:45h

14:10h ***Assessment of direct losses of terrestrial transportation lines due to floods***, by Norwegian Geotechnical Institute

14:25h ***Point cloud to IFC: generation of IFC Alignment entities for road and railway infrastructures using 3D point cloud data***, by University of Vigo

14:40h ***Stochastic deterioration prediction and maintenance prioritization for networks of bridges***, by University of Cambridge

14:55h ***Reliability-based Bayesian updating methodology for transport infrastructures,*** by University of Minho

15:10h ***Characterization of iron-based shape memory alloys (SAMs) for resilience structures***, by University of Vigo

15:25 ***Questions and answers***

IT TOOLS & SERVICES – 16:00-17:15h

16:00h ***Integration of an interoperational data model for critical infrastructures in the management application MSManager,*** by Insitu Engineering:

16:15h ***Crowd sourced data and evacuation service***, by Ben Rutten and Innovactory

16:30h ***DS tool for planning optimal maintenance of infrastructure in multi/modal transportation networks exposed to extreme events,*** by IMC

16:45h ***RE on-site, a GIS based toolkit for efficient asset management,*** by DEMO

17:00h ***Rheticus® Safeway -Inspection priority insights for roads and railways operator, by Planetek Italia***

PANEL DISCUSSION – 17:15-18:00h

Envisioned direct impacts of SAFEWAY IT developments towards resilient infrastructure networks. Moderator: Pedro Arias (University of Vigo)

Panelists: Infraestruturas de Portugal, Ferrovial, Network Rail

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No769255