
SAFE-10-T Final Conference – VIRTUAL EVENT

Safety of Transport Infrastructure on the TEN-T Network

17th April 2020

The rapid development of information technology, including the widespread deployment of wireless sensor networks, as well as other innovative monitoring methods, is resulting in vast quantities of data in relation to transport infrastructure assets. The proliferation of data provides a unique opportunity for infrastructure safety management to take a significant evolutionary step towards 'smart infrastructure'. By implementing novel data analysis techniques for transport infrastructure, the SAFE-10-T project developed novel solutions for transport safety and reliability.

The European transport infrastructure network is a vast collection of interacting components and represents a complex adaptive system. One of the features of complex systems is that they can learn from their performance and improve. The **SAFE-10-T** (Safety of Transport Infrastructure on the TEN-T Network) project is taking advantage of this feature of transport networks through the implementation of machine learning algorithms that aim to enhance the safety of EU transport infrastructure implemented through an online, multimodal, safety (decision support) tool.

The H2020-funded **SAFE-10-T project** (www.safe10tproject.eu/) developed a Decision Support Tool (DST) that can be employed to support decision-making regarding the management of transport infrastructure along the European TEN - T network. These decisions primarily relate to medium to long - term interventions on road, rail, and inland waterway transport infrastructure, to increase safety and maximise network capacity.

In order to ensure that all SAFE-10-T products respond efficiently to the actual needs of end-users (citizens, groups and organisations) and that they are equipped to accommodate future needs and scenarios, the **SAFE-10-T project** aimed to:

- Identify the demands (current and future) of different transport users (freight, commute, leisure) of multi-modal transport networks;
- Identify current infrastructure capacity.

The SAFE-10-T final conference will present the main results of the Bridge Reliability Model, Multi-Model Traffic Modelling, Whole Life Cycle Model, integration of Big Data, Decision Support Tools & Global Safety Framework as well as two of the three demonstration projects.

Programme

Time	Item	Speaker
10:00 – 10:05	<i>Opening of event</i>	<i>Paul Doherty, GDG</i>
10:05 – 10:10	<i>Welcome Speech</i>	<i>Claudia Ciuca, EC, INEA</i>
10:10 -10:20	<i>General overview of SAFE-10-T project</i>	<i>Paul Doherty, GDG</i>
10:20 – 10:30	<i>Bridge Reliability Model</i>	<i>Lorcan Connolly, RODIS</i>
10:30 – 10:40	<i>Multi-Modal Traffic Modelling</i>	<i>Marieke van der Tuin, TU DELFT</i>
10:40 – 10:50	<i>Whole Life Cycle Model</i>	<i>Irina Stipanovic, INFRA PLAN</i>
10:50 – 11:00	<i>Integration of Big Data from and to open source</i>	<i>Stephen Wells, Virtus</i>
11:00 – 11:10	<i>Global Safety Framework and Decision Support Tool</i>	<i>Rade Hajdin, IMC</i>
11:10 to 11:50	<i>Demonstration projects (DEMO)</i>	
11:10 – 11:40	<ul style="list-style-type: none"> – <i>Results of Demo project 1 – Port of Rotterdam, Netherlands</i> – <i>Demonstration of the DST application on the Demo Project 1</i> 	<i>Marieke van der Tuin, TU DELFT</i> <i>Nikola Tanasic, IMC</i>
11:40 – 11:50	<ul style="list-style-type: none"> – <i>Results of Demo project 2 – Port of Rijeka, Croatia</i> 	<i>Irina Stipanovic, INFRA PLAN</i>
11:50 – 12:30	<i>Q/A</i>	<i>All participants</i>
12:30	<i>End of the Final event</i>	<i>Paul Doherty, GDG</i>