SAFER-LC Mid-Term Conference, Madrid, 10 October 2018

Overview

Marie-Hélène Bonneau
Background

▲ Breakdown of significant accidents (2012-2014) – ERA Figures

▲ Relative share of victims per category of persons (2012-2014) - ERA Figures
Objectives

▲ Improve safety and minimize risks at and around level crossings (LCs)
  • by developing innovative solutions and tools to detect as early as possible potentially
dangerous situations leading to collisions at LCs and to prevent incidents at level crossing

▲ Focus both on technical solutions and on human processes
  • to adapt infrastructure design to end-users
  • to enhance coordination and cooperation between different stakeholders from different
  transportation modes.

▲ Develop a toolbox which will integrate all the project results and solutions to help both rail and road managers to improve safety at level crossings.
Key facts

△ Framework: H2020 Call 2016-2017 Mobility for Growth
  • Topic: MG-3.4-2016: Transport infrastructure innovation to increase the transport system safety at modal and intermodal level (including nodes and interchanges)

△ Project submitted in September 2016 and selected in January 2017

△ Starting date
  • 1st May 2017 for 3 years

△ Budget
  • 4,888,927 €

△ Total effort
  • 487,75 MM
Consortium

CONSORTIUM

COORDINATOR: 1-UIC - International Union of Railways
2-VIT - Technical Research Centre of Finland Ltd
3-NTNU - Norwegian University of Science and Technology
4-INFSTAR - French Institute of Science and Technology for Transport, Development and Networks
5-CERTH-HIT - Centre for Research and Technology Hellas - Hellenic Institute of Transport
6-TRAINOSE - Trainose Transport - Passenger and Freight Transportation Services SA
7-INTADER - Intermodal Transportation and Logistics Research Association
8-CERMA - Centre for Studies and Expertise on Risks, Environment, Mobility, and Urban and Country Planning
9-GLS - Geoloc Systems
10-RWTH - Rheinisch-Westfälische Technische Hochschule Aachen University
11-UNIROMA3 - University of Roma Tre
12-COMM - Comsigne Ltd
13-IRU - International Road Transport Union - Projects ASBL
14-SNCF - French Railways
15-DLR - German Aerospace Center - Institute of Transportation Systems
16-UTM - University of Technology of Belfort-Montbéliard

▲ Coordinator: UIC
▲ 17 partners
▲ 8 European Union countries
▲ 2 associate countries
Approach

▲ Analysis of LC safety systems and definition of needs and requirements of the rail and road users for safer level crossings
▲ Development of innovative measures
  ▲ Human centered low cost measures
  ▲ Technical solutions
▲ Field-test and evaluation of the measures
▲ Elaboration of recommendations and guidelines
▲ Collection of all results in a toolbox
<table>
<thead>
<tr>
<th>Morning session</th>
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<tbody>
<tr>
<td><strong>SAFER-LC Project achievements:</strong></td>
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<tr>
<td>• Human Factor at Level Crossings (<em>WP2</em>)</td>
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<td><strong>SAFER-LC on-going and Next steps</strong></td>
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<tr>
<td>• Technical solutions for Level Crossings (<em>WP3</em>)</td>
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<td>• Lab tests and Field implementation (<em>WP4</em>)</td>
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<td><strong>Spanish experience with Level Crossings</strong></td>
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<td>• Evolution of automatic protection systems in railways level crossings - ADIF</td>
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<td>• Level crossing protection integration into connected car technologies – INSPIDE/DGT</td>
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SAFER-LC Mid term conference (1/2)

Afternoon session

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<thead>
<tr>
<th>National experiences</th>
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<tr>
<td>• Czech Republic, CDV</td>
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<td>• Croatia, FPZ and HZ</td>
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<td>• The Netherlands, PRORAIL</td>
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<th>Other related projects</th>
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<tr>
<td>• Safe Strip EU project</td>
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<td>• Proof of Concept to enhance safety LC in Canada - UIC</td>
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