SAFER-LC Workshop 2, Paris, 27 March 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

Coordinator: UIC

17 partners

8 European Union countries

2 associate countries

SAFER-LC Second Workshop, Paris, 27 March 2018
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
Work achieved

- Analysis of level crossing safety in Europe and beyond (D1.1 – FFE)

- Level crossing accidents and factors behind them (D1.2 – VTT)

- Needs and requirements for improving level crossing safety (D1.3 – UIC)

- State of the art of LC safety analysis: identification of key safety indicators concerning human errors and violation (D2.1 – FFE)

Selected scenario

▲ Scenario for risk assessment:
  ▲ Risk evaluation based on user behaviors using automatic video data analysis

▲ Scenario for Smart detection system:
  ▲ Car stuck or stopped at LC.
  ▲ Information sharing in case of a train approaching

▲ Scenario for early detection of failures on the LC’s equipment

▲ Scenario for surveillance of the road and rail surface at the LC

▲ Scenario for Optimized closure time

▲ Communication system for information sharing
### Next Events

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<td>Wednesday 10 October 2018</td>
<td>Madrid</td>
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<td>Workshop 3 on the toolbox evaluation</td>
<td>December 2019</td>
<td>Paris</td>
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<td>Final conference and workshop 4 on the toolbox training</td>
<td>April 2020</td>
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Website available at
www.SAFER-LC.eu

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