SAFER-LC Workshop 3, Madrid, 05 February 2020

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 crossings

▲ 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)

▲ Duration: 3 years
  • 1st May 2017 – 30 April 2020

▲ Budget
  • 4,888,927 €
Consortium

**CONSORTIUM**

- **COORDINATOR**: UIC - International Union of Railways
- **VTI**: Technical Research Centre of Finland Ltd
- **NTNU**: Norwegian University of Science and Technology
- **IFSTTAR**: French institute of science and technology for transport, development and networks
- **FFE**: Spanish Railways Foundation
- **CERTH-HIT**: Centre for Research and Technology Hellas - Hellenic Institute of Transport
- **TRAINOSE**: Trainose Transport - Passenger and Freight Transportation Services SA
- **INTADER**: Intermodal Transportation and Logistics Research Association
- **CEREMA**: Centre for Studies and Expertise on Risks, Environment, Mobility, and Urban and Country planning
- **GLS**: Geoloc Systems
- **RWTH**: Rheinisch-Westfälische Technische Hochschule Aachen University
- **UNIRoma3**: University of Roma Tre
- **COMM**: Comsignia Ltd
- **IRU**: International Road Transport Union - Projects ASBL
- **SNCF**: French Railways
- **DLR**: German Aerospace Center - Institute of transportation Systems
- **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
  ▲ Analysis of the differences in LC environments between countries
  ▲ In depth review of LC accident data
  ▲ Identification of most dangerous situations at LC

▲ Development of innovative measures
  ▲ Human centered low cost measures: how measures can be better adapted from a user perspective?
  ▲ Technical solutions

▲ Field-test and evaluation of the measures
▲ Elaboration of recommendations and guidelines
▲ Collection of all results in a toolbox
Where we are?

▲ Technical work, field tests and evaluation of the measures are completed

▲ On-going work
  ▲ Cost benefit analysis
  ▲ Recommendations
    ▲ for standardisation
    ▲ for policy makers
  ▲ Update of SAFER-LC Toolbox
### Organisation of the day - Morning Session

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>9.45 – 10.15</td>
<td>Presentation of the SAFER-LC toolbox - G. Havarneanu (UIC)</td>
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<tr>
<td>10.15 – 11.15</td>
<td>Evaluation group exercise</td>
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<td>11.15 – 11.45</td>
<td>Coffee break</td>
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<td>11.45 – 12.15</td>
<td>Individual evaluation session</td>
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<td>12.15 – 13.00</td>
<td>Interactive session</td>
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<td>- Debriefing and reporting from each group</td>
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### Organisation of the day - Afternoon Session

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>14.00</td>
<td>SAFER-LC key results, recommendations and next steps</td>
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<td>- WP1 – LC in Europe and beyond (VTT)</td>
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<td>- WP2 – Human Factor at LC (FFE)</td>
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<td>- WP3 – Innovative Technical solutions (CEREMA)</td>
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<td>- WP4 – Pilot testing (CERTH-HIT)</td>
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<td>- WP5 – Cost-Benefit Analysis (IFSTTAR)</td>
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<td>- WP6 – Final dissemination event (UIC)</td>
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<td>Discussion and conclusions</td>
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<td>16.30</td>
<td>End of the workshop</td>
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