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: 1-UIC - International Union of Railways
2-VTT - Technical Research Centre of Finland Ltd
3-NTNU - Norwegian University of Science and Technology
4-IFSTTAR - French Institute of science and technology for transport, development and networks
5-FFE - Spanish Railways Foundation
6-CERTH-HIT - Centre for Research and Technology Hellas - Hellenic Institute of Transport
7-TRAINOSE - Trainose Transport – Passenger and Freight Transportation Services SA
8-INTADER - Intermodal Transportation and Logistics Research Association
9-CEREMA - Centre for Studies and Expertise on Risks, Environment, Mobility, and Urban and Country planning
10-GLS - Geotoc Systems
11-RWTH - Rheinisch-Westfälische Technische Hochschule Aachen University
12-UNIROMA3 - University of Roma Tre
13-COMM - Commissaria Ltd
14-IRU - International Road Transport Union - Projects ASBL
15-SNCF - French Railways
16-DLR - German Aerospace Center - Institute of transportation Systems
17-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
Structure

**WP7 (MGT) led by UIC**
Management and coordination

**WP1 (RTD) led by VTT**
LC in Europe and beyond: Rail and Road safety management requirements

**WP2 (RTD) led by FFE**
Human factors at LC: design for self explaining and forgiving infrastructure

**WP3 (RTD) led by NTNU**
Smarter LC: development and Integration of technical solutions

**WP4 (DEM) led by CERTH-HIT**
Lab tests, field implementation and evaluation

**WP5 (RTD) led by IFSTTAR**
Cost benefit analysis and final recommendations towards LC safety standards

**WP6 (OTHER) led by UIC**
Dissemination and exploitation of the results
Next Events

▲September 2017 : Workshop 1 on end-users requirements in September at UIC HQ

▲October 2018 : Mid term conference in Madrid
▲ Website soon available
www.SAFER-LC.eu

▲ Contact
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