



SAFER-LC Workshop 2, Paris, 27 March 2018

Overview

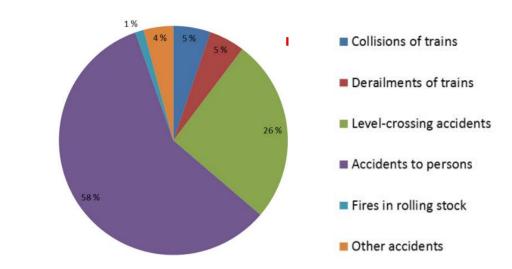
Marie-Hélène Bonneau



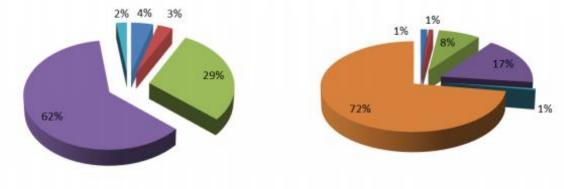


Background

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



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



Fatalities on railways disregarding railway suicides Fatalities on railways including railway suicides



■ Passengers ■ Employees

Level crossing users

Other persons

Suicides

■ Unauthorised persons



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.





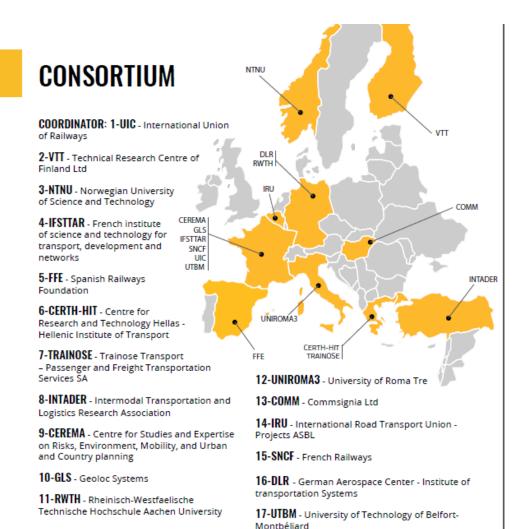
Key facts

- ▲ 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
 - 4888927€
- ▲Total effort
 - 487,75 MM





Consortium



- ▲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





Work achieved

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

Deliverables available at http://safer-lc.eu/deliverables-publications-5





Selected scenario

- △Scenario for risk assessment:
 - A 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

Mid-term conference	Wednesday 10 October 2018	Madrid
Workshop 3 on the toolbox evaluation	December 2019	Paris
Final conference and workshop 4 on the toolbox training	April 2020	Paris







Website available at

www.SAFER-LC.eu

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