

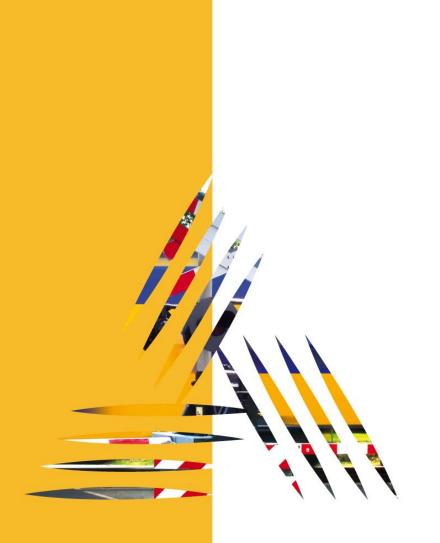
# SAFER-LC Workshop 1, Paris, 28 September 2017

Overview

Marie-Hélène Bonneau



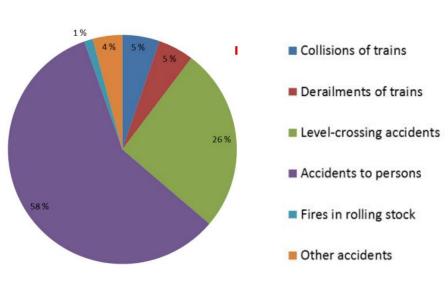
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723205



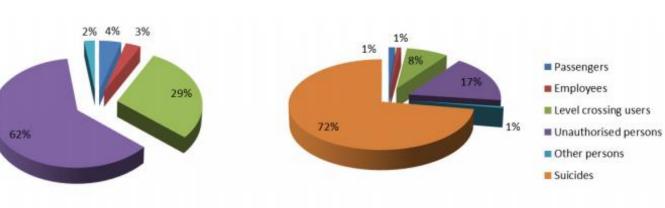


# Background

 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



# 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

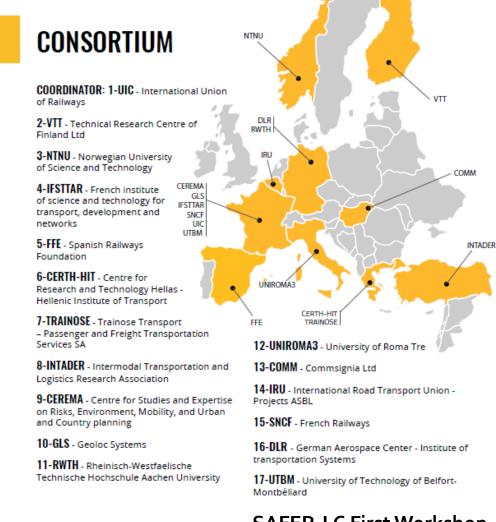
## ▲ Framework : H2020 Call 2016-2017 Mobility for Growth

- 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



## Advisory Board

- ▲ composed of 20 members
  - A Rail infrastructure managers in Europe
  - A Road and rail safety organisation
  - Transport authorities (from Europe and USA)
  - Universities
  - Expert for Standardisation

provide inputs, advice or assessment for the project work, cooperation on events and workshops





## 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

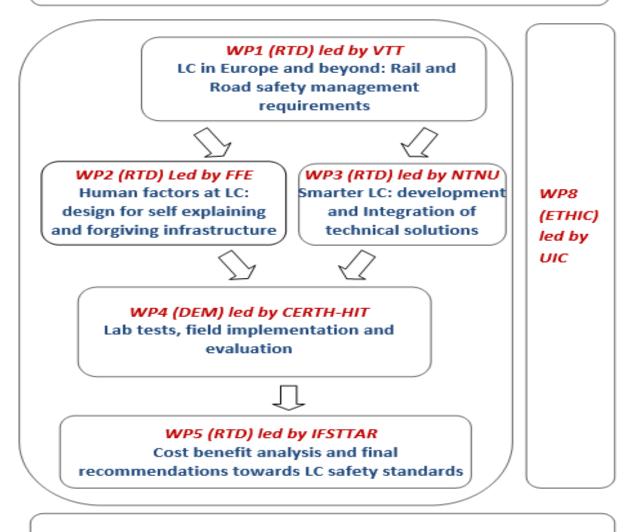




#### WP7 (MGT) led by UIC

#### Management and coordination





WP6 (OTHER) led by UIC

Dissemination and exploitation of the results

	WP1 - LC in Europe and beyond: Rail and road safety management			
Rail and road	requirements (led by VTT)			
requirements	quirements T1.1 : Analysis of LC safety in Europe and beyond			
	T1.2 : Identification of typical factors behind LC accidents T1.3 : Summary of needs and requirements for safe LC management			
	WP2 - Human Factor at LC: Design for	WP3 - Smarter LC: development and		
	self-explaining and forgiving	Integration of technical solutions		
	infrastructure (Led by FFE)	(Led by NTNU)		
Design, development	T2.1 : Analysis of Human Factors in LC	T3.1 : Risk evaluation		
and integration	safety systems	T3.2 : Smart detection system		
	T2.2 : "Human factor" methodological	T3.3 : Monitoring and remote		
	framework	maintenance		
	T2.3 : Design and evaluation of human	T3.4 : Communication systems for		
	centred low cost measures	cross-modal information sharing		
	WP4 - Lab tests, field implementation and evaluation (Led by CERTH)			
	T4.1 : Testing framework			
Test and evaluation	T4.2 : Execution and evaluation of simulation and controlled tests			
	T4.3 : Execution and evaluation of field implementations			
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	WP5 - Cost- benefit analysis and final recommendations for Safer LC (led			
	by IFSTTAR)			
Recommendations	T5.1 : Harmonised Cost Benefit Analysis approach.			
	T5.2 : Business Models for the deployment of the suggested solutions			
	T5.3 : Recommendations and	guidelines.		
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Management	WP7 - Management (led by UIC) T7.1 : Scientific and technical coordination T7.2 : Administrative and financial management T7.3 : Quality assurance	
Dissemination	WP6 - Dissemination and exploitation of the results (led by UIC) T6.1 : Communication and Dissemination Strategy T6.2 : Involvement of the Stakeholders T6.3 : ToolBox development T6.4 : Exploitation Strategy T6.5 : Clustering and liaising with other relevant RDI projects	SAFER-LC TOOLBOX
Ethics	WP8 - Ethical Requirements (led by UIC) T8.1 : Ethical framework for humans T8.2 : Ethical framework for data protection T8.3 : Follow up of the ethical requirerements	



## Next Events

Workshop 2 on Human factor at LC	March 2018	Paris
Common workshop with other related projects	June 2018	Brussels
Mid-term conference	October 2018	Madrid
Workshop 3 on the toolbox evaluation	December 2019	Paris
Final conference and workshop 4 on the toolbox training	April 2020	Paris









### www.SAFER-LC.eu

▲ Contact Info@safer-lc.eu

