

# Safety Performance data 2014 (EU + TU)

Seventh Session of GE.1 on Level Crossing Safety

21/03/2016

# EU/ERA Accident data

- Significant accidents (all LCs)
  - Directive 2014/88/EU - significant accidents per LC type
- Fatal injuries (all LCs)
- Serious injuries (all LCs)

# GE.1 Proposal

## **Accidents (A.2)**

- Fatal accidents (per International road traffic statistics)
- Significant accidents (per EU/ERA and UIC)
- Other\* accidents

(\* should involve moving rail vehicle and harmful consequence)

## Breakdown

- By type of LC

# GE.1 Proposal

## **Injury (A.3)**

- Persons killed and seriously injured

### Breakdown

- Type of person involved
  - LC user
    - + **pedestrian**
    - + **cyclist**
    - + **motor vehicle user**
    - + **other LC user**
  - Railway passenger
  - Railway employee
  - Other person (not trespasser)

# GE.1 proposal

## **Normalising data**

### (A.4) Extent of operations and assets

- train-km
- line-km
- number of LCs

### (A.1) Type of LC

- passive
- active
  - manual
  - automatic warning
  - automatic protection
  - rail-side (full signal) protection

# EU/ERA+TU data 2014

CSI - 2014	RO	SE	SI	SK	UK		TUR
Total level crossings	5225	7892	787	2131	6142		2875
Passive level crossings	3515	4812	451	1052	4514		2042
Active level crossings	1710	3080	336	1079	1628		833
Active level crossings - Manual	602	80	31	192	728		
Active level crossings with automatic user-side warning	912	753	21	431	195		
active level crossings with automatic with user side protection	196	2166	284	374	641		
Active level crossings with automatic user-side protection and warning, and rail-side protection	0	81	0	82	64		

# EU/ERA+TU data 2014

CSI 2014	RO	SE	SI	SK	UK	TUR
Level-crossing accidents - significant	50	13	9	20	11	37
on passive LCs	36	7				21
on manual LCs	0	1				3
on LCs automatic with user-side warning	12	1				4
on LCs automatic with user-side protection	2	4				9
on rail-side protected LCs	0	0				
Level-crossing accidents - fatal						26
on passive LCs						18
on manual LCs						2
on LCs automatic with user-side warning						2
on LCs automatic with user-side protection						4
on rail-side protected LCs						
Level-crossing accidents - all						
on passive LCs						
on manual LCs						
on LCs automatic with user-side warning						
on LCs automatic with user-side protection						
on rail-side protected LCs						

# EU/ERA+TU data 2014

CSI 2014	RO	SE	SI	SK	UK	TUR
Level-crossing users killed in all accidents	19	9	3	9	9	
Persons killed in level-crossing accidents	20	10	3	9	9	43
Level-crossing users seriously injured in all accidents	70	4	7	12	0	
Persons seriously injured in level-crossing accidents	71	5	7	20	0	
Persons killed in level-crossing accidents on						
Level crossing accidents on passive LCs						24
Level crossing accidents on manual LCs						10
Level crossing accidents on LCs automatic with user-side warning						2
Level crossing accidents on LCs automatic with user-side protection						5
Level crossing accidents on rail-side protected LCs						

# EU/ERA+TU data 2014

<b>CSI 2014</b>	<b>RO</b>	<b>SE</b>	<b>SI</b>	<b>SK</b>	<b>UK</b>	<b>TUR</b>
Persons killed in level-crossing accidents						
Level crossing user						
Pedestrian						
Cyclist						
Motor-vehicle user						
Other user						
Railway passenger						
Railway employee						
Other person						