Level crossing safety in the EU

Where do we stand and where are we heading, in Europe?





- Almost 300 people die annually in accidents at level crossings in the EU¹
- Total costs estimated at €1 billion per year²
- LC users fatalities represent 31 % of railway fatalities, but only 1 % of road fatalities > Urgency perception gap
- Diverging interests/priorities of responsible agents > Intersection of interests

2) Of which €850 million for casualties alone, Unit costs from *Handbook on the external costs of transport, CE Delft 2019*



Main safety outcomes

Level crossing accidents and resulting casualties

Significant accidents, fatalities and serious injuries, EU-28





Source: Common Safety Indicators (CSIs) as reported by National Safety Authorities (NSAs) to the Agency, published in ERAIL



Significant accidents at level crossings



Source: CSI (ERAIL)



Member States insight (2)



Source: CSI (ERAIL)



LC types and significant accidents on them

Significant acccidents per LC type (EU-28, average (2016-2018))



Odds ratios: LC accidents per LC type





Deep dive in statistics

Road and user attributes available at the EU level provide very limited insight as they poorly represent known risk contributing factors > low learning potential.





Prospects

- 105.300 level crossings in the EU-28 in 2018
- Passive LCs and LCs in general disappear at a low pace
 - Still some 35.000 LCs by the end of century, of which 5.000 passive!





Problem and problem drivers





Problems turned into actions

1. Eliminate LCs, upgrade with protective devices	2. Collect and analyze data and information from LC accidents	3. Use of risk assessment and management techniques	4. Improving safety culture
Credible plan: target, strategy, actions, measures	Better statistical and in-depth investigation data	Knowledge and capacity building, methods and tools	Raising awareness of genuine underlying causes, just and reporting culture
A goal without a plan is just a wish.	We do not know what we do not know.	Do have experts on yesterday, do we have	What is not "taken for granted" yet?
		ones for tomorrow?	



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