

# The Rail Accident Statistics Pilot Questionnaire

Working Party on Transport Statistics (WP.6)

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*Working Party on Transport Statistics (WP.6)*

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# Overview

- **Mandate for pilot questionnaire**
- **Responses and data availability**
- **Basic analyses**
- **Complementary data sources**
- **Next steps**



# Mandate

- Decision of WP.6 in 2016 to send pilot questionnaire on rail traffic accidents
- Questionnaire format as suggested in ECE/TRANS/WP.6/2016/4. Structure completely in line with ERA.



# Questionnaire Disseminated

- Splits numbers killed and injured (+total)
- Type of accident: collisions, derailments, accidents involving level crossings, to persons caused by rolling stock in motion, fires in rolling stock, others
- Victims broken down by passengers, employers, others
- **Important: suicides excluded**



# Data Results

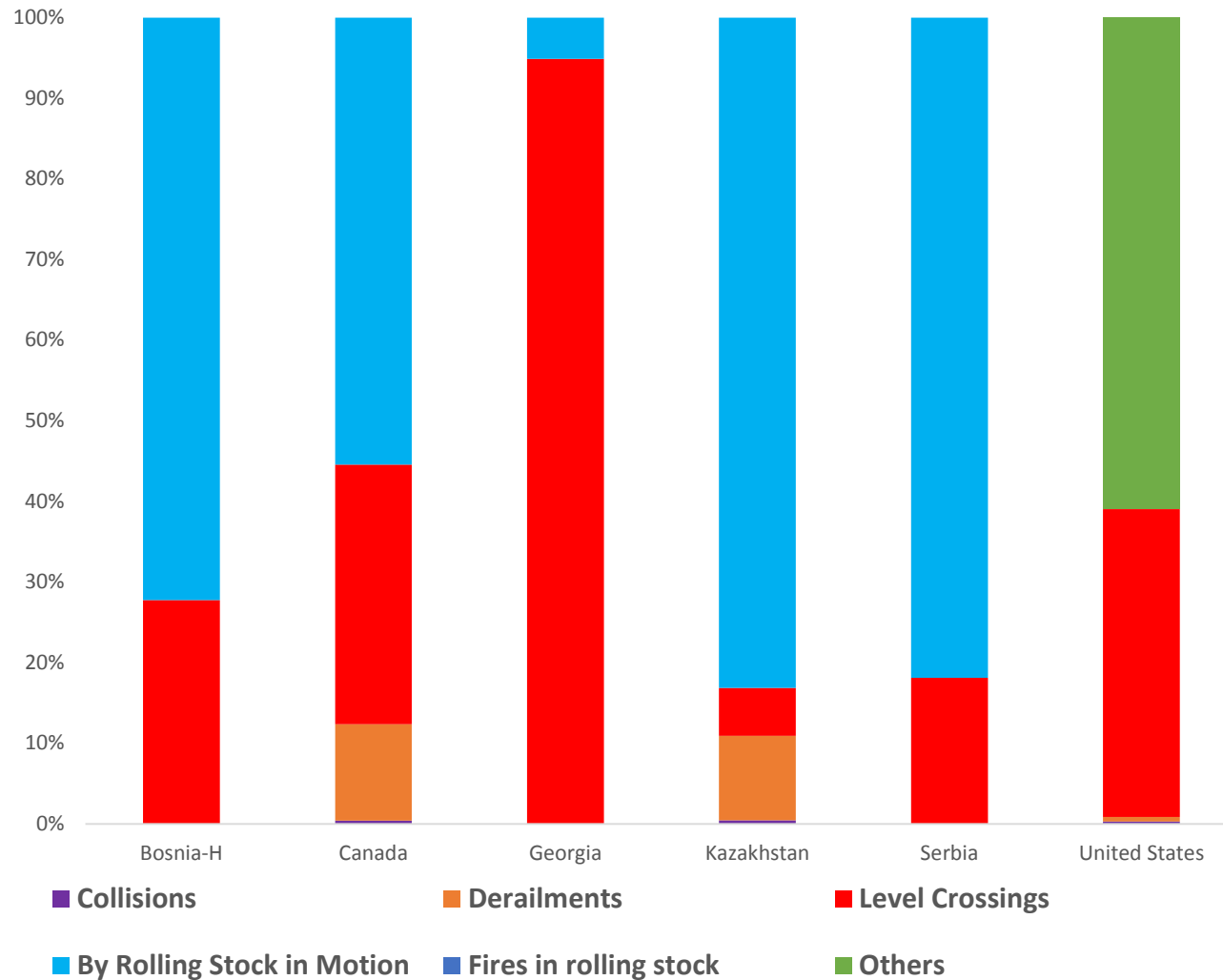
- Data requested for 2010-2015.
- Questionnaire sent to all non-EU countries on 7-8 February 2017, with 31 March deadline
- As of this meeting, data received from: Armenia, Bosnia and Herzegovina, Canada, Georgia, Kazakhstan, Russian Federation, Serbia, United States.
- No accidents reported in Azerbaijan and Moldova

# Data Quality

- Data reasonably complete
  - most countries have at least partial breakdown by type of accident
  - All countries split killed versus injured
  - Most report passengers versus employees versus other.
- Data broadly comparable, though definitions vary, e.g.
  - Armenia: accidents includes subways for 2015 (and previously only referred to goods trains)
  - USA: seriously injured=24 hours in hospital
- Data sometimes collected by non transport ministries
- Most countries did not provide any metadata at all.



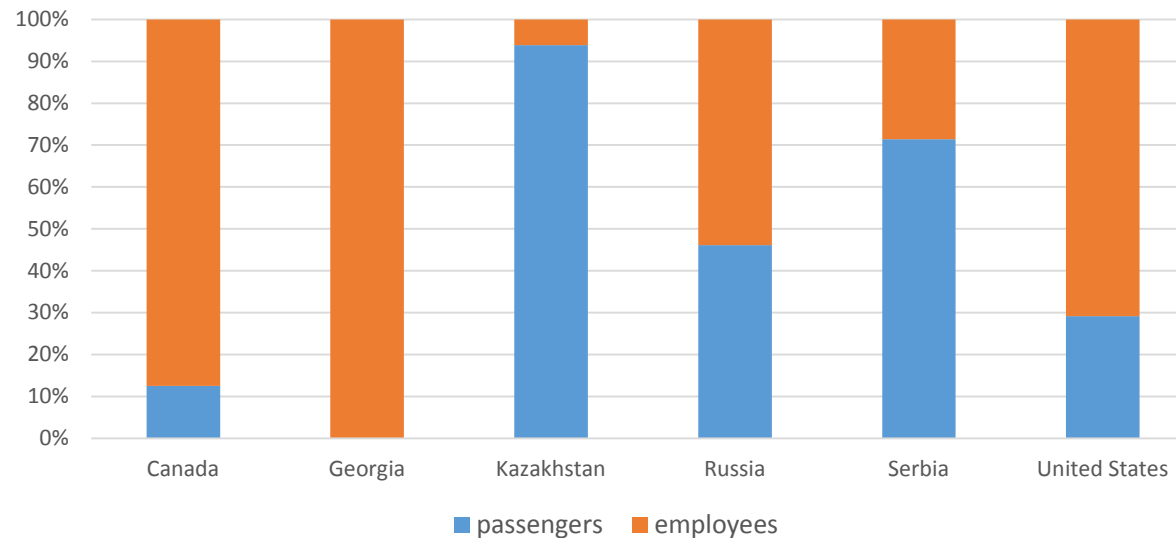
# Accidents by type, 2010-2015



- In most countries, accidents caused by rolling stock in motion or at level crossings form the majority of fatalities
- Note: USA appears to be a classification issue, as their online data show majority of “Other” as caused by rolling stock in motion (trespassers etc.)

# Fatalities by victim type

- Most countries report vast majority (89-100%) of fatalities in Other, mainly due to people on the track (pedestrians and drivers)
- After this, there is much more variability in the split between passenger and employee fatalities across countries





# Accidents mapped, USA



Geospatial coordinates of each incident (and broken down by incident nature, type of injury, time of day etc) allow various mapping possibilities, can highlight dangerous intersections and allow corridor-specific safety fixes

Type of Person	Reporting Railroad	Reporting Railroad Code	Days At
2015 Trespassers	Amtrak [ATK ]	ATK	
2015 Worker on duty - employee	Amtrak [ATK ]	ATK	
2015 Trespassers	Amtrak [ATK ]	ATK	
2015 Trespassers	Amtrak [ATK ]	ATK	
2015 Worker on duty - employee	Metro North Commuter RR Co. [MNCW]	MNCW	
2015 Trespassers	Metro North Commuter RR Co. [MNCW]	MNCW	
2015 Worker on duty - employee	Delaware Lackawanna RR [DL ]	DL	

Taken from <https://data.transportation.gov/Railroads/Rail-related-Injuries-Illnesses-Fatalities/6cse-juc3/data#column-menu>

# Possible next steps

- Requested data are available and seem good quality
- WP.6 can decide to collect these again/permanently
- Can be disseminated through online database if desired
- Ensure all countries' data are in line with Glossary definitions, and document differences where necessary






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Reduced air / noise pollution

Increased P.T. Mobility Choices

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