

Personal Injuries

Assessment Board

The Evolving Personal Injuries Landscape in Ireland

Developments in vehicle safety technology Laurence Atchison ETSC, Brussels

DEVELOPMENTS IN VEHICLE

SAFETY TECHNOLOGY

PIAB Conference

Dublin, 10th April 2019

.



European Transport Safety Council

Laurence Atchison

Project Officer



- \checkmark A science based approach to road safety
 - Secretariat in Brussels
- ✓ 60 member organisations from across Europe
- ✓ More than **200 experts** contributing to ETSC's work
- The European Commission, Member Organisations, Member States and corporate sponsors are funding our work

ETSCRK



ETSCIES



Monitoring EU transport safety policy



Road Safety Performa nce Index 'PIN)





IMPROVING POST-COLLISION RESPONSE AND EMERGENCY CARE IN EUROPE



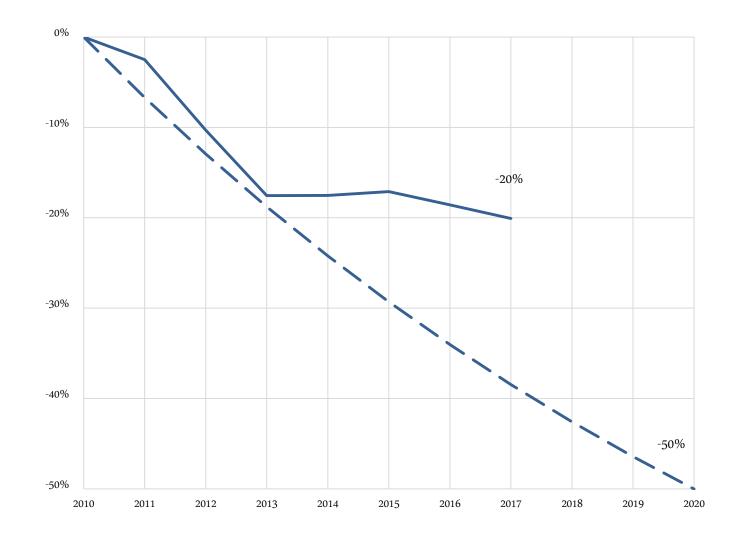






25,10 people died in road traffic in the EU in 2018

CHANGE IN ROAD DEATHS (%) 2010-2017



135,00



seriously injured in road traffic in the EU in 2016 according to MAIS3+ definition

*MAIS3+ estimates by the European Commission

17 MAY 2018: 3rd MOBILITY PACKAGE PUBLISHED BY

THE EUROPEAN COMMISSION Two legislative proposals:

- Revision of the General Safety 2009/661 (and Pedestrian Safety 2009/78 Regulations)
- Revision of the Road Infrastructure Safety Management Directive 2008/96

Two communications

- Strategic Action Plan on Road Safety
- Strategy on Automated Driving

https://ec.europa.eu/transport/modes/road/news/2018-05-17-europe-on-the-move-3_en

GENERAL SAFETY

- Type-approval system before vehicle go on the road
- Exclusive competence of the EU
- Significantly improved vehicle safety and road safety
 - International recognition
- Protection of occupants and vulnerable road users

Proposed Revision

- 17 Measures to improve vehicle safety
- Focus on 'advanced driver assist

EUROPEAN COMMISSION	Brussels, 17.5.2018 COM(2018) 286 final 2018/0145 (COD)	
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What's included?





Intelligent Speed



INTELLIGENT SPEED ASSISTANCE (ISA)

- Speed is a primary contributory factor in 1/3 of fatal collisions
- ISA actively helps the driver to keep to the speed limit
- Overridable
- 20% reduction in road deaths, 30% reduction of collisions ____

How does the system know the speed limit

- Speed sign recognition and/or
- Digital maps and/or
- Cooperative-ITS



Event Data

Event Data Recorders (EDRs)

- A few seconds of data before, during and after a collision will be recorded.
- The data will be anonymous
- Accessible only by approved authorities
- Purpose is collision investigation to help prevent future collisions



Privacy concerns

- Taken into consideration by the European
 Parliament in particular
- Car data is subject to EU data protection legislation (GDPR)

Combined Benefits



 When there are crashes, occupant protection systems will have a greater chance of preventing harm

What next?

- Package of measures was approved by the European Parliament earlier this year
- Provisionally approved in Trilogue negotiations two weeks ago.
- Next steps:
 - Potentially adopted before European Page
 elections this May
 - If not, by the end of 2019.
- Mandatory in 2022/2024



• Later dates for some measures e.g. Direct Vision.

TELEMATICS

- Becoming increasingly common
 - Professional vehicle fleets (esp. in UK/IE)
- Insurance packages for young
 A useful driver monitoring tool:
 - Safety implications
 - Financial benefits (fuel/repairs/insurance)
 - Research (in-house and external)
 - Collision and incident investigation
- Data and privacy issues abound

"It is unfortunate that there has been so little evaluation of an intervention that has such potential for research"

USING

TELEMATICS IN

PROFESSIONAL

VEHICLE FLEETS

AUTOMATION AND THE

- Automated driving technologies already preventing collisions and deaths on our roads
 - This will continue to increase with the new raft c
 - But be wary of overestimates!



- The theoretical safety benefits are huge, but unknown if emerge
 - Scenario we likely face is one of shared roads (automated/regular)
 - Implications for this for safety and "responsibility"

AUTOMATION AND THE

- How will regulators respond?
 - Difficult to keep up with the progress of change
 - A lot of push-back from vehicle manufacturers
 - Happy to innovate, less so to regulate...

- A lot of work is ongoing into the C-ITS required for automation
- Latest vehicle technology measures are a step on t
- Cautious optimism.... Let's not forget about the pre



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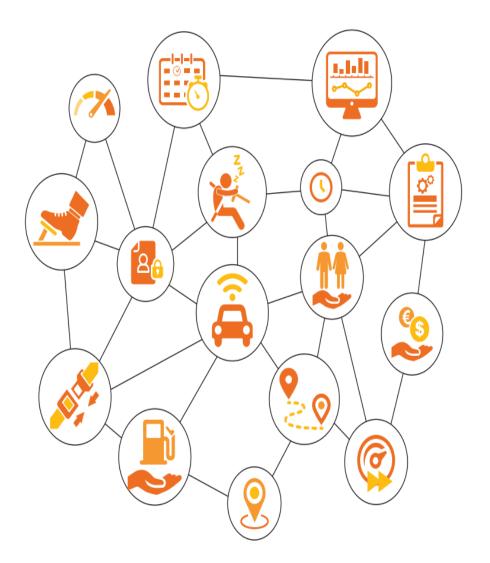
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ANY QUESTIONS?



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