



# European Surface Transport Road Safety Research & Innovation

SafetyCube Workshop

27 September 2016



HORIZON 2020



## Today's roadmap

*Transport safety challenges*

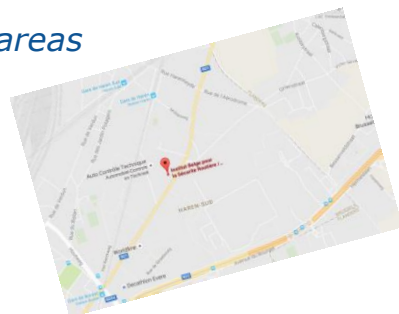
*The policy context*

*Transport safety research areas*

*H2020*

*International cooperation*

*The future*



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## The extent of the problem for surface transport

*Road fatalities in EU27 (2012) 54 439*

*Key challenges:*

- High risks for **Vulnerable Road Users** (2-wheelers, Pedestrians)
- Increasingly **unsafe behaviour** (drugs, medicines, distraction, use of mobile phones while driving, etc.)
- Growing number of **serious injuries**
- **Missing investment** in road infrastructure maintenance and construction
- **New generation of** alternatively powered, sub-compact **vehicles** (EV)
- **Incompatibility** of vehicles and structures
- **Ageing population**

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## Policy Initiatives

### **Transport White Paper 2011**

*Roadmap to a Single European Transport Area:*

*Towards a competitive and resource efficient transport system*

- **Move close to zero fatalities in road transport by 2050**



### **EU Road Safety Action Plan 2011-2020**

- **aiming for a 50% reduction in fatalities between 2010 and 2020**





## PROS



- *PROS* - Priorities for Road Safety Research in Europe
- *Objectives:*
  - identification of **future safety research** needs based on a review of **future societal scenarios** as well as existing research activities, agendas and roadmaps
  - an integrated approach covering **human, vehicle and infrastructure aspects** and **all phases** from preventive to post-crash safety
  - to establish a **pan-European network** to develop **commonly agreed priorities** in road safety research and **overcome** the current **fragmentation** in relevant stakeholder groups
- *Results:*
  - **Elements input to H2020 WP 2014-2017**



## Horizon 2020

### 'Smart, Green, Integrated Transport'

**The challenge: achieve a transport system that is...**

- Resource efficient
- Environmentally friendly
- **Safe and seamless**
- Beneficial for the citizens, the economy and society

**and promotes globally competitive transport industries**

**The logic: a holistic approach which...**

- Recognises modal specificities
- Responds to policy requirements
- Is focused on the **societal challenges**
- Reconciles competitiveness and **sustainability**



7

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## Transport Safety Conference Genoa December 2014

Organised by *Italian Presidency, DG RTD and DG MOVE*

*First time transport modes had come together to discuss & agree transport research priorities...*

*Declaration identified:*

- Need for a **multi-modal approach** to safety
- Research needed on **risk perception & impairment**
- Increased support for **automation**
- **Harmonised management of safety related data**
- Safer **infrastructure**
- Concentrate on **low hanging fruit**
- **Road safety** warrants particular attention

Transport safety: societal challenges, research solutions

An event of the Italian EU Presidency

Genoa, 9-10 December 2014



*Subsequently "Transport safety" identified as separate theme in Mobility for Growth Work Programme*

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## Safety in H2020 - the story so far



### 2014 Call

- Two projects approved on **accidentology** (**SafetyCube**, **InDev**) & also three on **VRUs** (**Seniors**, **Prospect**, **Xcycle**)



### 2015 Call

- No direct subject but **distraction** covered under CNCT topic on automation

### 2016/17 Calls

- Group of topics on **Transport Safety** for the first time
- Addresses aviation safety, **protection of road users (2017)**, maritime safety, infrastructure safety, transport safety from a behavioural standpoint, **EU-Africa road safety** initiative
- Behavioural aspects for safer transport 2<sup>nd</sup> stage closure date **29 September 2016**
- Group of topics on **Automated Road Transport** launched

9



## MG 3.4 2014 **Traffic safety analysis** and integrated approach towards the safety of Vulnerable Road Users

### Challenge:

*Vulnerable road users are a particularly serious safety concern – a disproportionately high %age of road fatalities and serious injuries*

*Measures aimed at improving safety imply significant cost*

*Update existing knowledge of accident causation in Europe for all road users*

### Scope:

*Propose advanced safety measures to reduce the number & severity of accidents involving VRUs*

*Develop an in-depth understanding of accident causation for all road users which would facilitate a comprehensive assessment of socio-economic costs of accidents*

### Impact:

*Design & implementation of an **efficient strategy** to make Europe's roads safer*

*Promote the development of the **European Road Safety Observatory***





## International cooperation

*EU-Africa Road Safety collaboration*

- *SaferAfrica* project launches 11 October 2016
- Incorporates *accidentology* & targets *exchange* information and *experience* between the two continents
- Workshop in conjunction with *IRTAD* on EU-Africa Road safety collaboration 12 October 2016

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## What next?

*H2020 Work Programme for 2018/2019/2020  
under development*

*Will cover transport safety and automated road  
transport*

*FP9 under consideration but no news yet...*

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**Thank you for your attention!**



*Directorate-General for Research & Innovation*  
*Surface Transport Unit*  
[william.bird@ec.europa.eu](mailto:william.bird@ec.europa.eu)