Safety CaUsation, Benefits and Efficiency

www.SafetyCube-project.eu

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Transport Research Arena

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SafetyCube project

17 partners from 12 countries within EU
(May 2015 - April 2018)
European Road Safety Observatory
A publicly accessible repository of data and knowledge developed to scientific standards
SafetyCube concept

- **Problem**
  - Evidence based road safety policies are becoming more usual and there is much better availability of national data and state of the art knowledge
  - Effective road safety policies need good information about accident risk factors and about measures

- SafetyCube will meet this need by generating new knowledge about **accident risk factors** and the **effectiveness of measures** relevant to Europe

- It will structure this information so it can be readily accessed at both top level and in-depth to meet the needs of all stakeholders
Evidence-based policy-making

1. Identify and quantify risk factors
2. Select potential measures
3. Estimate expected costs and benefits
4. Implement interventions
5. Evaluate safety effects
6. Long-term follow up

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What is a risk?

- “Risk factor” denotes any factor that contributes to accidents or injuries.
- There are risk factors related to all elements of the road system and the interactions between these elements.
- The importance of a risk factor can be defined as the size of the contribution it makes to accidents or injuries.
What is a measure?

- A measure is any action intended to reduce the numbers of accidents or injuries.
  - *May reduce the risk of a crash*
  - *May reduce the risk of injury*
  - *May reduce exposure to risk*
Challenges in evidence based approaches

• Do we have a comprehensive method to identify risks?
  – Road, road users and vehicles
• Do we have a comparable method to evaluate measures?
  – Road, road users and vehicles
• How do we estimate the likely casualty reduction of a measure that has not been introduced to the real-world?
• Do we have a comprehensive method to evaluate cost-effectiveness?
• How do we handle the situation where there are many measures of effectiveness but they disagree?
Challenges to access the evidence base

• Much of the evidence on risks and measures is in the research literature – how can it be brought together?
• How can we assess transferability of measures from one country to another?
• How can the available information and data be synthesised?
SafetyCube will meet these challenges

SafetyCube will

• Provide new information about the **effectiveness** of measures by bringing together published information
• Produce a comprehensive method to evaluate the **costs and benefits** of measures
• Produce new information about **seriously injured casualties**
• Produce a new **Decision Support Tool** that will enable easy access to information on risks and measures
SafetyCube will

- Improve the evidence base for road safety policy-making
- Develop a new Decision Support System
- Bring together data about risks, measures and cost-effectiveness within a single comprehensive framework
Serious injuries

- Assess and improve the estimation of the numbers of serious road injuries
  - Trauma registers
  - Correction factors
  - Record linkage
- Determine and quantify health impacts of serious road injuries
- Estimate economic and immaterial costs related to serious road injuries
- Identify key risk factors related to serious injuries and their health impacts.
Contact

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