

Safety CaUsation, Benefits and Efficiency

www.SafetyCube-project.eu

Pete Thomas, George Yannis, Eleonora Papadimitriou

Transport Research Arena

18 April 2016

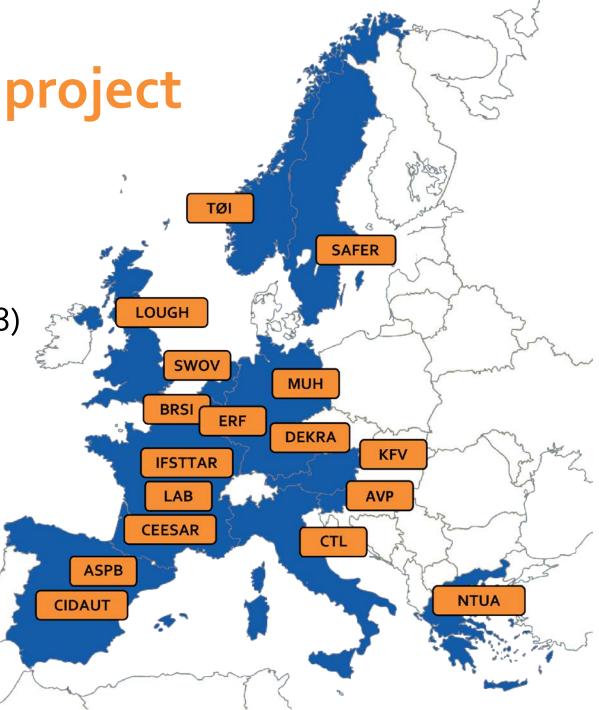


Co-funded by the Horizon 2020 Framework Programme of the European Union

06-Mar-17

SafetyCube project

17 partners from 12 countries within EU (May 2015 - April 2018)





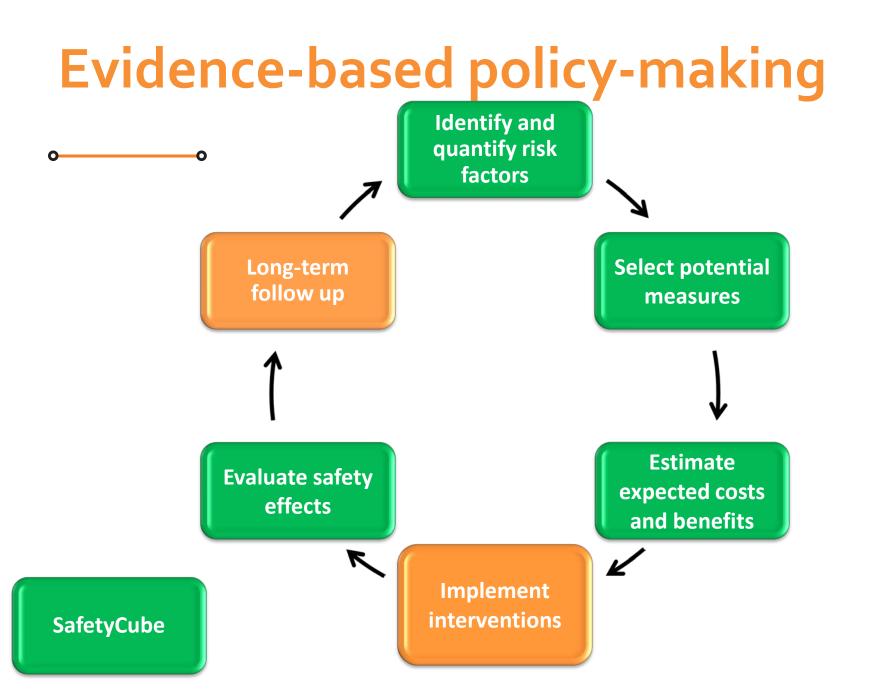
A publicly accessible repository of data and knowledge developed to scientific standards



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





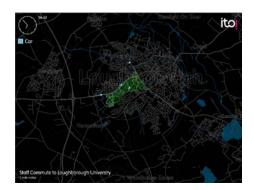
What is a risk?

- "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 costeffectiveness?
- 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 costeffectiveness 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

www.SafetyCube-project.eu

- Pete Thomas
- Professor of Road and Vehicle Safety
- p.d.thomas@lboro.ac.uk



- Smart and Safe Mobility Research Cluster
- Loughborough University
- Leicestershire
- LE11 3TU
- United Kingdom
- Tel: +44 (0)1509 226931