SafetyCube

Safety CaUsation, Benefits and Efficiency

George Yannis, National Technical University of Athens
Pete Thomas, Loughborough University

SafetyCube International Stakeholders Workshop
Ljubljana - 14 October 2015

Co-funded by the Horizon 2020
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10/10/2016

SafetyCube project

Funded by the European Commission under the Horizon 2020 research framework programme

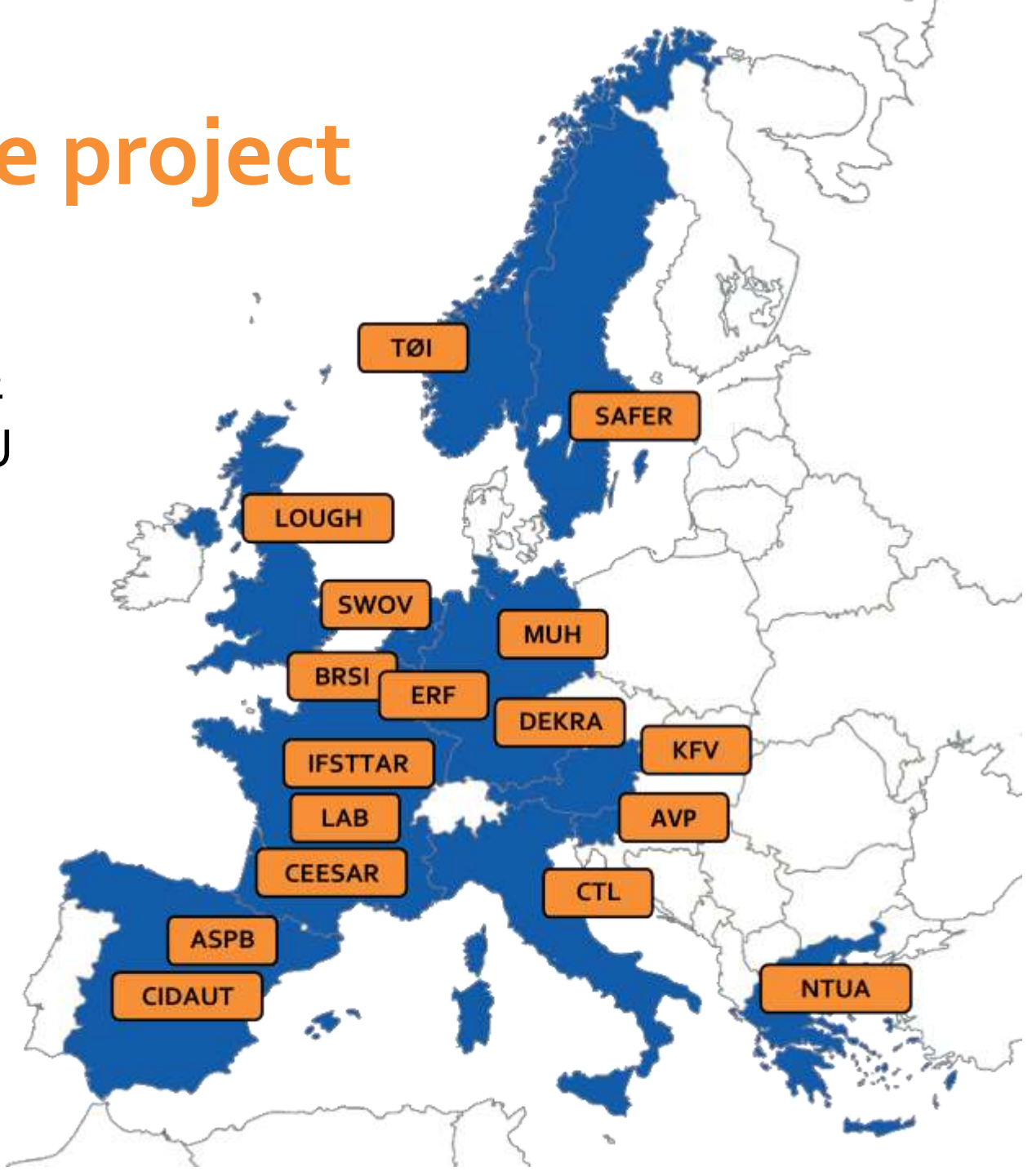
Coordinator: Pete Thomas, Loughborough University

Start: May 2015

Finish: April 2018

SafetyCube project

17 partners from 12 countries within EU



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 incorporated in the

  European Road Safety Observatory

Policy-making – challenges of the evidence base

1. How do we identify and quantify the risk factors and problem areas *(eg. Distraction)?*
2. How do we select the most appropriate measures?*(eg speed – enforcement, infrastructure or vehicle measures)*
3. How do we estimate the likely safety benefits and costs?
4. How do we make decisions when there is a lot of conflicting evidence?
5. How do we make decisions when there is little or no evidence?

SafetyCube primary objective

Road Safety
Decision **S**upport **S**ystem

→ **Risks**

→ **Measures**

Policy-makers & stakeholders

- ❑ strategies
- ❑ measures
- ❑ cost-effective approaches

Reduce casualties
- All road users
- All severities

SafetyCube aims

1) To **develop** new analysis methods for

(a) Priority setting

(b) Evaluating the effectiveness of measures

(c) Monitoring serious injuries and assessing their socio-economic costs

(d) Cost-benefit analysis taking account of human and material costs

This will allow to collect and compile information more efficiently

SafetyCube aims

2) **Apply** the new analysis methods to safety data to identify:

- key accident causation mechanisms
- risk factors
- most cost-effective measures for fatally and seriously injured casualties

Using these new techniques will support decision makers to apply the right solutions for the identified problem.

SafetyCube aims

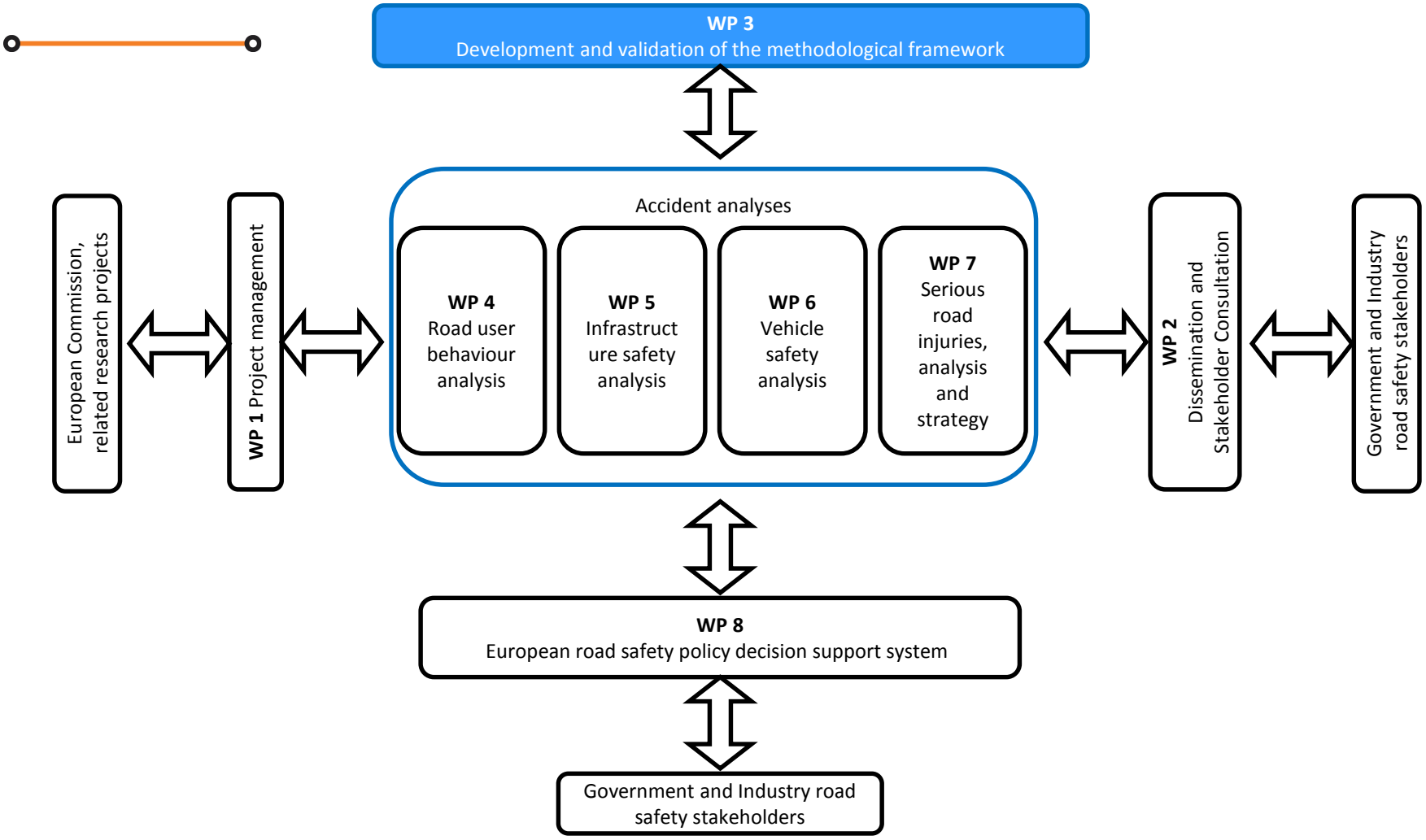
3) Develop an web-based **Road Safety Decision Support System**

which will remain operational and be accessed and updated beyond the completion of the SafetyCube project.

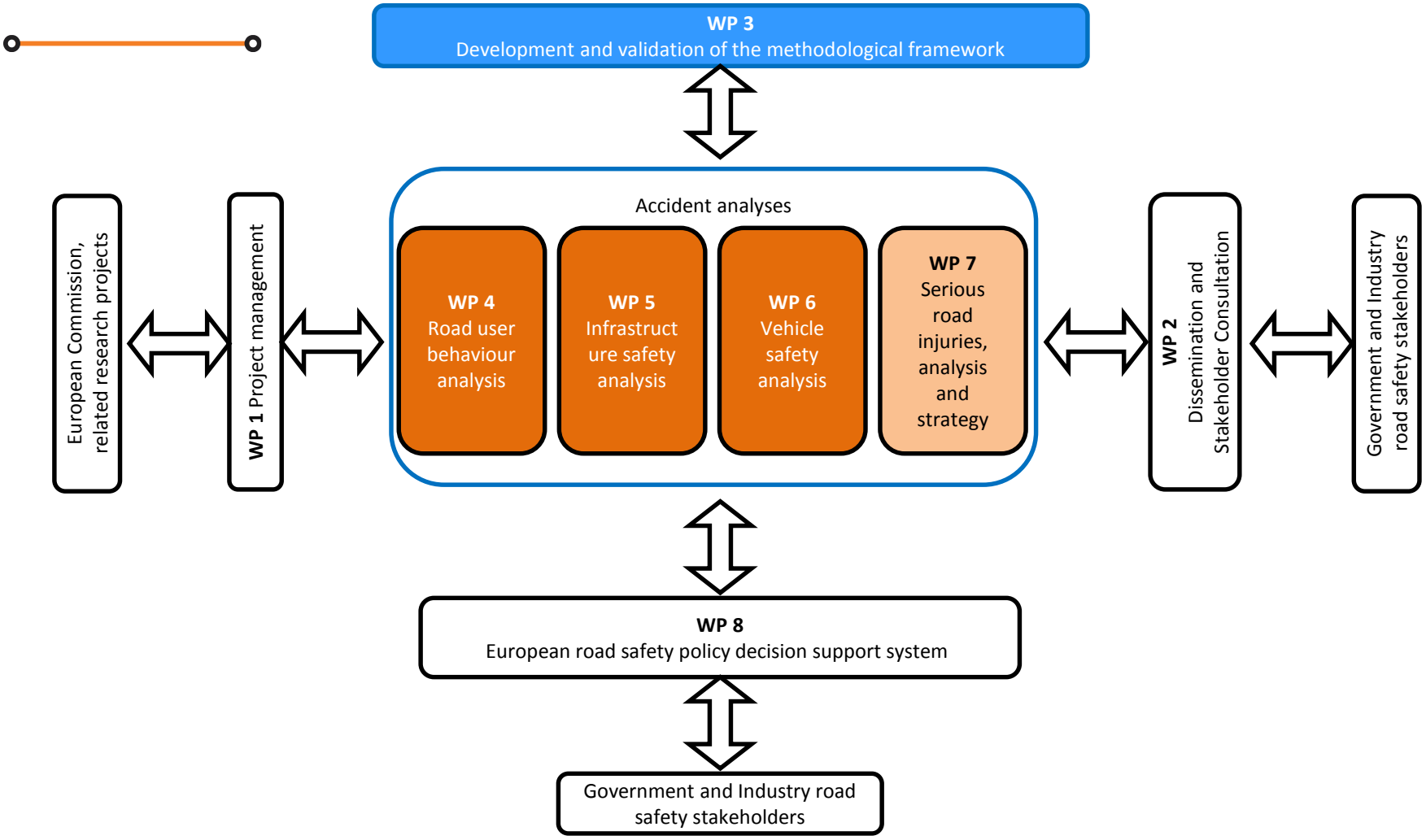
SafetyCube aims

4) Enhance the European Road Safety Observatory and work with road safety stakeholders to ensure the results of the project can be implemented as widely as possible

Project structure



Project structure



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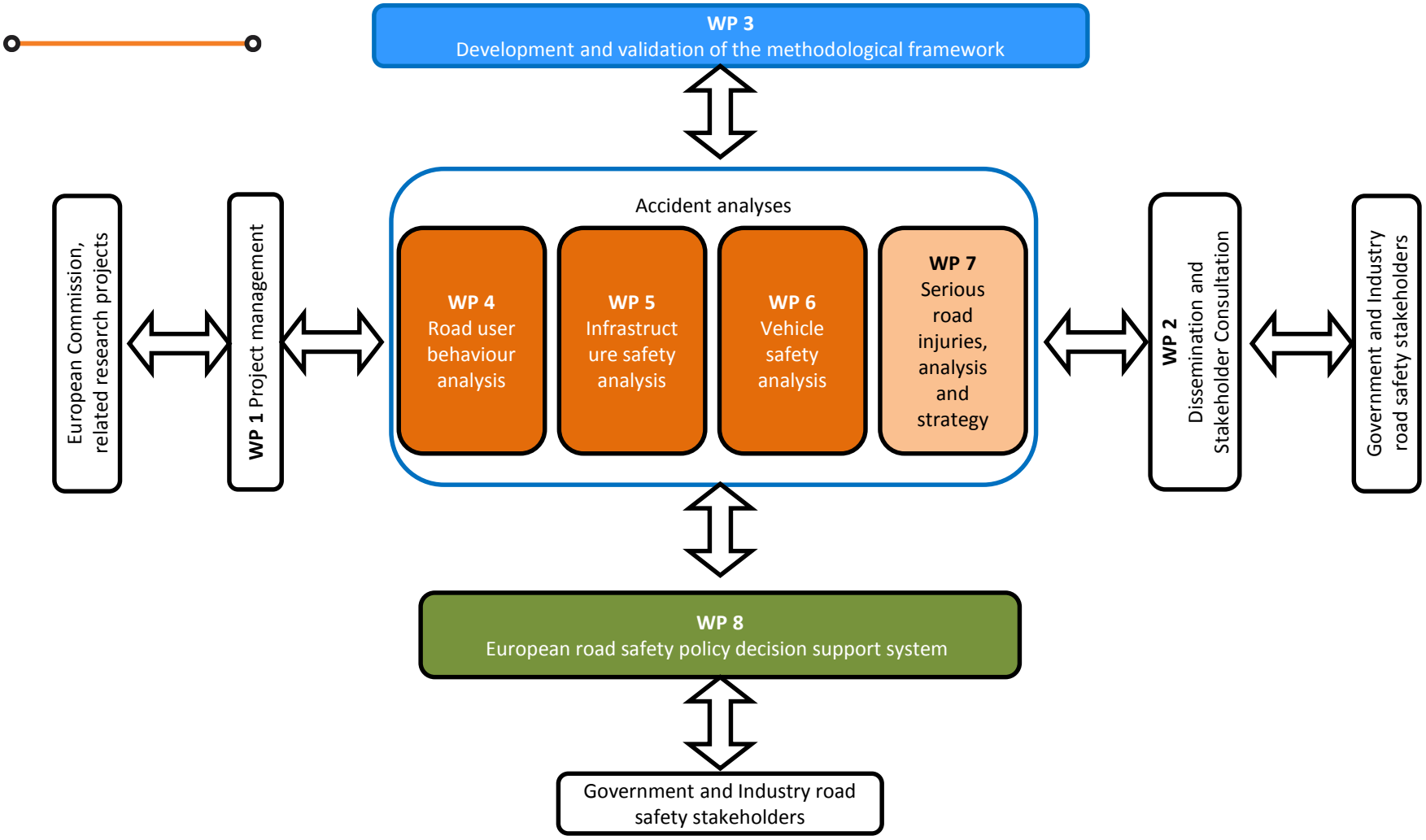

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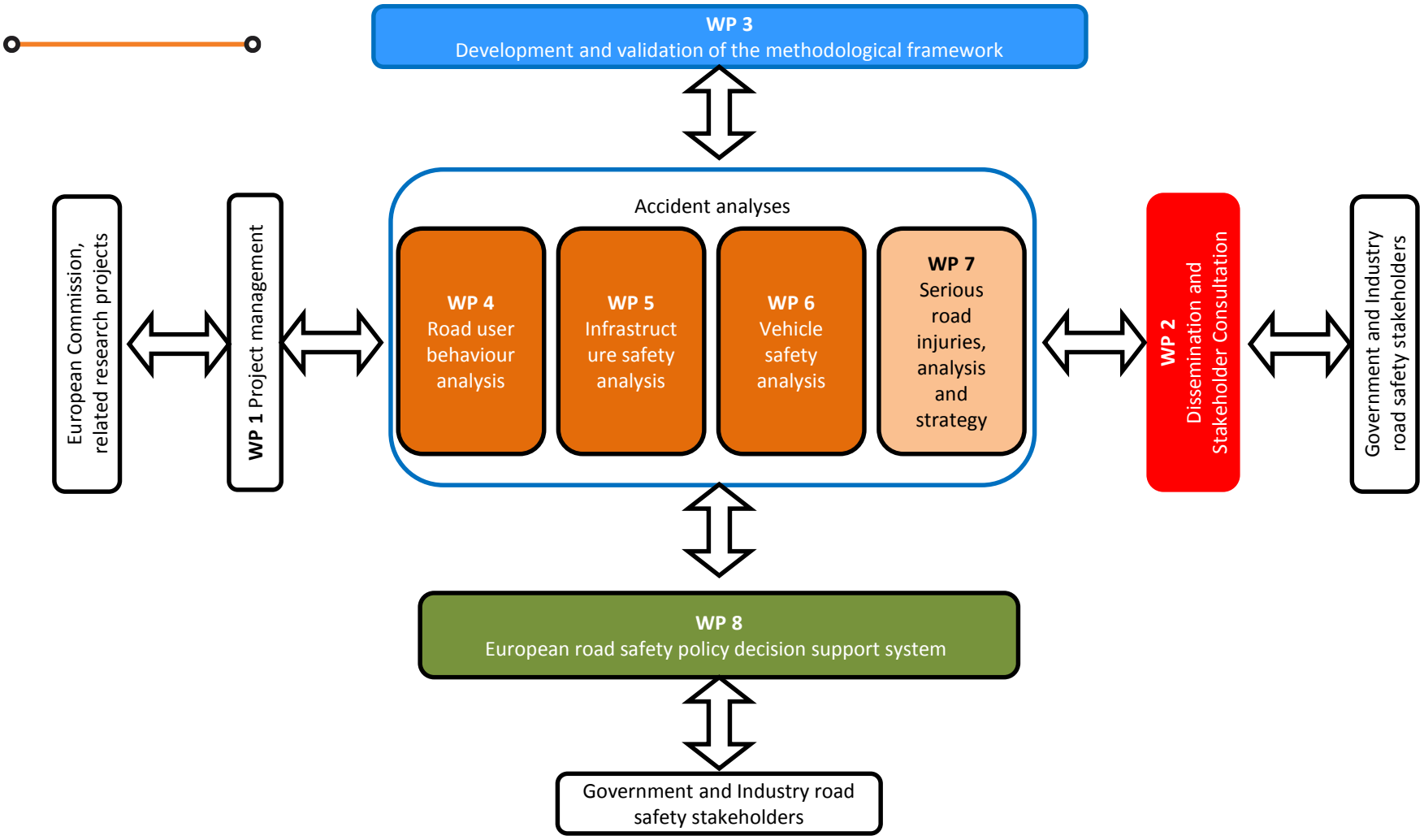

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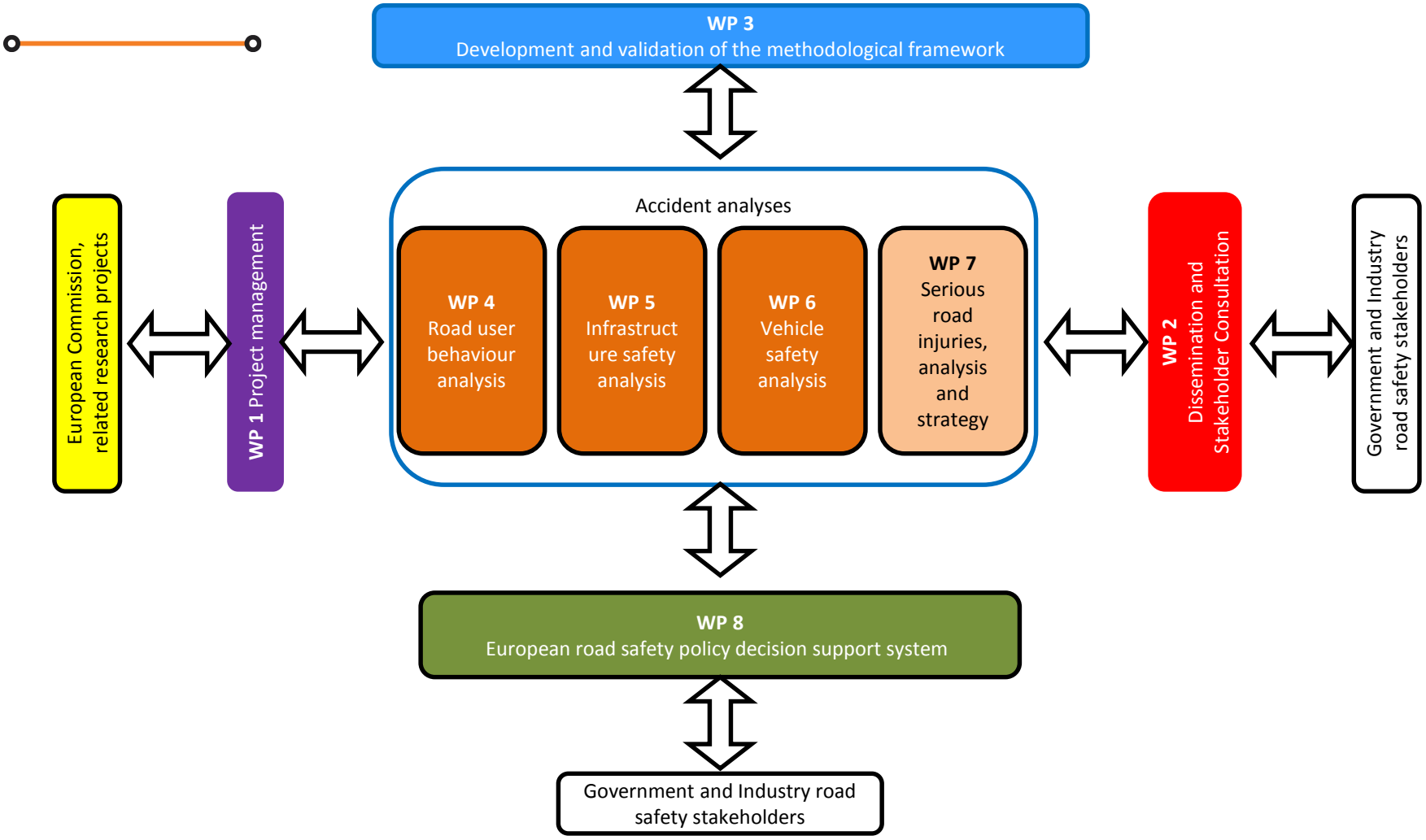

Contact

www.SafetyCube-project.eu

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