

PROJECT

InDeV

InDeV: In-Depth understanding of accident causation for Vulnerable road users

Funding: European (Horizon 2020)

Duration: May 2015 - Oct 2018

Status: Complete

Total project cost: €5,470,000

EU contribution: €4,900,000



Call for proposal: H2020-MG-2014_TwoStages

[CORDIS RCN : 193358](#)

Objectives:

The InDeV project addresses the second bullet point of the topic MG.3.4. i.e. "... in-depth understanding of road accident causation...". The main objective of the project is to develop a tool-box for in-depth analysis of accident causation for Vulnerable Road Users (VRU) based on a combined use of accident databases, in-depth accident investigations, surrogate safety indicators, self-reported accidents and naturalistic behavioural data. The tool-box will help to link accident causation factors to VRUs' accident risk, and provide a solid basis for developing preventive countermeasures and a better input for socio-economic cost calculations of VRU accidents. The proposed approach is to reveal the causal factors by focusing on the process of accident development, thus overcoming the main weakness of the traditional accident data based approach that might find correlations between various factors and accident frequency, but not show the causation chains. It will also employ, to a larger extent, observation of critical traffic events that are similar in process to real accidents, but are relatively more frequent and easier to collect in sufficient quantities.

The InDeV project includes the following steps: i) review of methods and identification of the critical sites and road user groups; ii) observation studies at the selected sites; iii) development of technical tools for automated behaviour data collection; iv) analysis of the socio-economical costs; v) compilation of the project results and development of the safety analyst tool-box.

The project has a clear focus on VRUs and the course of events in accidents they get injured in. It will provide solid knowledge, help to avoid a skewed view on the problem of VRUs' safety, and facilitate the proposed tailor-made countermeasures for these groups. Moreover, with the use of surrogate safety indicators, there will be no need to wait for accidents to happen in order to learn how to prevent them from happening.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Lund University, Department Of Technology And Society

Address:

Paradisgatan 5

22100 LUND
Sweden

Organisation Website:

<http://www.lu.se>

EU Contribution: €1,644,000

Partner Organisations:

Universiteit Hasselt

Address:

Agoralaan Gebouw D
3590 Diepenbeek
Belgium

Organisation Website:

<http://www.uhasselt.be>

EU Contribution: €594,375

Corporation De L Ecole Polytechnique De Montreal Association

Address:

BLVD EDOUARD MONTPETIT 2900
MONTREAL, H3T 1J4
Canada

EU Contribution: €0

Nederlands Organisation For Applied Scientific Research

Address:

Schoemakerstraat 97
6060 DELFT
Netherlands

Organisation Website:

<http://www.tno.nl>

EU Contribution: €311,000

Transportokonomisk Institutt

Address:

GAUSTADALLEEN 21
0349 OSLO
Norway

Organisation Website:

<http://www.toi.no>

EU Contribution: €0

Politechnika Warszawska

Address:

Plac Politechniki 1
00 661 Warszawa
Poland

Organisation Website:

<http://www.pw.edu.pl>

EU Contribution: €230,000

Ingenieria De Trafico SI

Address:

DIPUTACIO 211 ENTRESOL
BARCELONA
Spain

EU Contribution: €317,500

Bundesanstalt Für Strassenwesen (Federal Highway Research Institute)

Address:

Brüdenstrasse 53
51427 BERGISCHE GLADBACH
Germany

Organisation Website:

<http://www.bast.de>

EU Contribution: €504,375

Aalborg Universitet

Address:

FREDRIK BAJERS VEJ 5
9220 AALBORG
Denmark

Organisation Website:

<http://www.aau.dk>

EU Contribution: €1,298,750

Technologies:

Safety systems
Vulnerable road users' protection systems

Development phase: Research/Invention

STRIA Roadmaps: Smart mobility and services

Transport mode: Road transport

Transport sectors: Passenger transport, Freight transport

Transport policies: Safety/Security

Geo-spatial type: Other