PROSPECT

Proactive Safety for Pedestrians and Cyclists

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Accidents involving pedestrians and cyclists still remain a pending issue for road safety. Pedestrians and cyclists fatalities account for more than 25% of road fatalities in EU. This fact shows the magnitude of the problem.

The PROSPECT project aims to improve the effectiveness of active VRU safety systems compared to current systems by expanding the scope of accident scenarios addressed and improving the overall system performance.

The project will pursue the following approach:

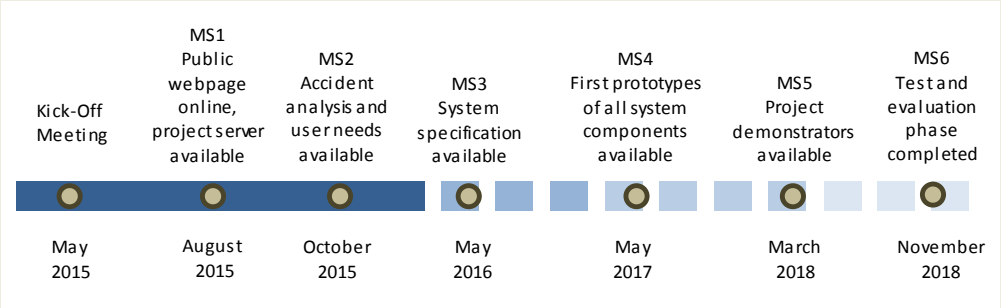
- Better understanding of relevant VRU scenarios by means of statistical accident studies and naturalistic urban observations.
- Improved VRU sensing using enlarged VRU sensor coverage as well as improved sensor and situational analysis.
- Advanced system control strategies such as combined steering and/or braking and advanced actuator concepts.
- Project demonstrators that integrate the previous concepts.
- Validation in realistic traffic scenarios, user acceptance tests and test methodologies that will be proposed to Euro NCAP for standardization.

Project facts

Budget: 6.931.978 EUR Funding: 6.931.978 EUR

Start: 01/05/2015 Duration: 42 months

The research leading to the results of this work has received funding from the European Community's Eighth Framework Program (Horizon2020) under grant agreement n° 634149.



Expected achievements

- New sensor concepts and operation modes for AEB VRU systems.
- New generation of AEB VRU systems fitted into passenger cars.
- Test and assessment methods for Euro NCAP AEB VRU systems.
- Test tools for AEB VRU development and testing.

Keywords

Vulnerable Road Users; Active Safety; VRU protection system; Autonomous Emergency

Partners

Applus IDIADA, Audi, Bosch, BMW, Chalmers, Budapest University of Technology and Economics, Continental, Daimler, IFSTTAR, bast, Toyota, vti, 4active Systems, TNO, Volvo, University of Amsterdam, The University of Nottingham

Website: http://www.prospect-project.eu/