

# PROSPECT

## PROactive Safety for PEdestrians and CyclistsTs



### MOTIVATION AND OBJECTIVES

Accidents involving pedestrians and cyclists still remain a pending issue for road safety. Pedestrians and cyclists fatalities account for 28% of road fatalities in the EU. This fact shows the magnitude of the problem.

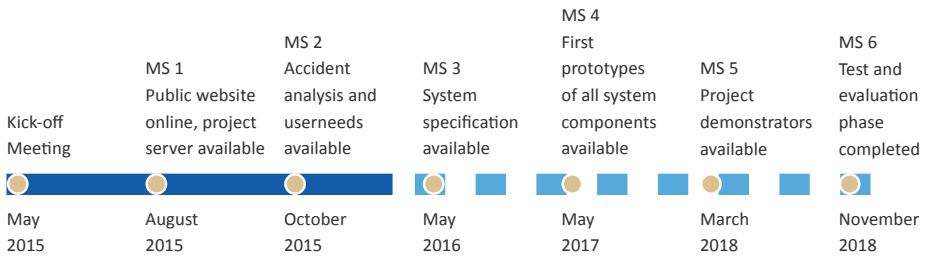
The first Autonomous Emergency Braking (AEB) systems that avoid and mitigate Vulnerable Road Users (VRU) accidents have been recently introduced in the market. The PROSPECT project aims to improve the effectiveness of active VRU safety systems compared to current systems by expanding the scope of accident scenarios addressed and improving the overall system performance.



AEB System: Road scene analysis and recognition of Vulnerable Road Users

### PROJECT PLAN, MILESTONES AND DELIVERABLES

The following figure summarises the timeline of the project work and its milestones:



### TECHNICAL APPROACH

PROSPECT 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 standardisation.

### 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

<b>Budget</b>	6.9 M€	<b>Funding</b>	6.9 M€
<b>Duration</b>	42 months	<b>Start</b>	May 2015
<b>DG</b>	MOVE	<b>Contract n°</b>	634149
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<b>Website</b>	www.prospect-project.eu		

