

DESERVE

Development platform for Safe and Efficient dRiVE



Development Platform for Safe and Efficient Drive

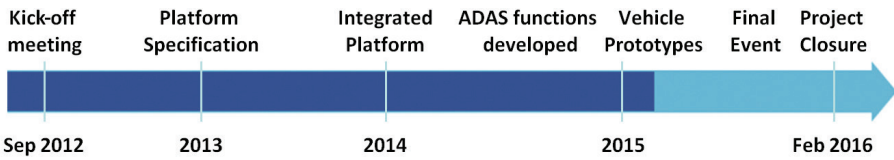
MOTIVATION AND OBJECTIVES

DESERVE aims at developing a Tool Platform for embedded Advanced Driver Assistance Systems (ADAS) to exploit the benefits of cross-domain software, standardised interfaces, and easy and safety-compliant integration of heterogeneous modules to cope with the expected increase of functions complexity and reduction of costs.

The main objectives are:

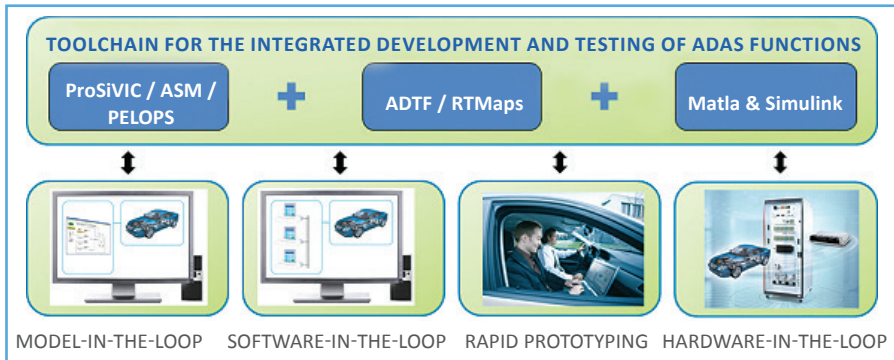
- Design and build an ARTEMIS Tool Platform based on the standardisation of the interfaces, software reuse, development of common non-competitive software modules, and easy and safety compliant integration of standardised hardware or software from different suppliers.
- Build an innovation ecosystem for European leadership in ADAS embedded systems, based on the automotive R&D actors, with possible applications in other industrial domains.

PROJECT PLAN, MILESTONES AND DELIVERABLES



TECHNICAL APPROACH

- Apply a holistic approach, which foresees the easy integration of different software and hardware solutions as well as the validation of each function as a module and as a part of the entire system.
- Allow the design, implementation and integration of brand-new components and embedded modules for the consistent interpretation of the vehicle’s surroundings and the driver’s behaviour.
- Provide methods and tools to implement a dynamic adaptation of sensor fusion modules and HMI systems.
- The design of the validation framework will be based on consolidated methodologies (such as the well known V-model) to test and develop new embedded components.



ACHIEVEMENTS

- Implementation of requirements and specification for a common software platform for the selected embedded automotive modules
- Design of development tools and development of software of the main components
- Definition of HMI concept and of driver model
- The design of the functionalities of the four prototypes (two passenger cars, two heavy good vehicles) is the major on-going work

Budget	25 M€	Funding	4.2 M€ (EU), 7.2 M€ (National)
Duration	42 months	Start	September 2012
DG	ECSEL Joint Undertaking	Contract n°	295364
Coordinator	Matti Kutila, VTT	Contact	matti.kutila@vtt.fi
Partners	24 partners from 8 countries, among them CRF, Daimler, Volvo Technology		
Website	www.deserve-project.eu		

