

PROJECT

DESERVE

DEvelopment platform for Safe and Efficient dRiVE

Funding: European

Duration: Sep 2012 - Feb 2016

Status: Complete



Background & policy context:

DESERVE aims to design and develop a tool platform for embedded Advanced Driver Assistance Systems (ADAS) to exploit the benefits of cross-domain software reuse, standardised interfaces, and easy and safety-compliant integration of heterogeneous modules to cope with the expected increase of function complexity and the urgent need to reduce costs.

Objectives:

The main objectives include designing and building an ARTEMIS Tool Platform which will be based on the standardization of the interfaces, software reuse, development of common non-competitive software modules, and easy and safety compliant integration of standardized hardware or software from different suppliers. It will also achieve to 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.

The DESERVE key innovation aspects are:

- A standard platform for development of a new generation of ADAS
- Natural active support as the standard intervention
- Vehicle-Driver sharing control
- Actual deployment of model-based approach including a holistic driver - vehicle- scenario
- Easy extension towards cooperative systems
- Flexibility at sensors/actuators/vehicles/architecture/HMI levels
- High reliability and Fail Safe
- Low cost via SW reuse and sharing of HW (i.e. standard components and interfaces)
- Decision support on heterogeneous system-on-chip-architectures (cost modelling on basic building blocks for next generation implementations)
- Virtual testing of the applications

Related Projects:

InteractiVe

SafeCer

Other funding sources: ARTEMIS Call 2011 Project 295364

Partners:

- TEKNOLOGIAN TUTKIMUSKESKUS VTT - Finland
- CONTINENTAL AUTOMOTIVE FRANCE SAS- France
- FICOMIRRORS SA- Spain
- AVL LIST GMBH- Austria
- ROBERT BOSCH GMBH- Germany
- NXP SEMICONDUCTORS NETHERLANDS BV- Netherlands
- INFINEON TECHNOLOGIES AG- Germany
- DAIMLER AG- Germany
- VOLVO TECHNOLOGY AB- Sweden

- CONSORZIO INTERUNIVERSITARIO PER L'OTTIMIZZAZIONE E LA RICERCA OPERATIVA - Italy
- RE:LAB S.R.L.- Italy
- UNIVERSITA DEGLI STUDI DI PARMA- Italy
- INSTITUT DE RECHERCHE EN SYSTEMES ELECTRONIQUES EMBARQUES- France
- DSPACE DIGITAL SIGNAL PROCESSING AND CONTROL ENGINEERING GMBH- Germany
- INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE- France
- APPLICATION SOLUTIONS (ELECTRONICS AND VISION) LTD- United Kingdom
- RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN- Germany
- FUNDACION PARA LA PROMOCION DE LA INNOVACION, INVESTIGACION Y DESARROLLO TECNOLOGICO EN LA INDUSTRIA DE AUTOMOCION DE GALICIA- Spain
- CENTRO RICERCHE FIAT SCPA- Italy
- ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS- France
- TYOTEHOSEURA RY- Finland
- INTEMPORA- France
- RAMBOLL FINLAND OY- Finland
- TECHNOLUTION BV- Netherlands
- GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER- Germany

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Documents:

 [deserve_flyer.pdf](#)

STRIA Roadmaps: Cooperative, connected and automated transport

Transport mode: Road transport

Transport sectors: Passenger transport
Societal/Economic issues, Deployment planning/Financing/Market roll-

Transport policies: out