Consortium

AUSTRIA

Kompetenzzentrum - Das virtuelle Fahrzeug, Forschungsgesellschaft mbH („VIRTUAL VEHICLE")

AVL List GmbH

CISC SEMICONDUCTOR GMBH

Infineon Technologies Austria AG

FINLAND

LINKKER OY, Finland

VTT Technical Research Centre of Finland Ltd. , Finland

FRANCE

VALEO VISION SAS, France

ITALY

IDEAS & MOTION SRL, Italy

SWEDEN

VOLVO PERSONVAGNAR AB, Sweden

TURKEY

FORD OTOMOTIV SANAYI ANONIM SIRKETI

TOFAS TURK OTOMOBIL FABRIKASI ANONIM SIRKETI

UNITED KINGDOM

University of Surrey, UK

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TRUSTVEHICLE

www.trustvehicle.eu

IMPROVED TRUSTWORTHINESS AND WEATHER-INDEPENDENCE OF CONDITIONALLY AUTOMATED VEHICLES IN MIXED TRAFFIC SCENARIOS

TRUSTVEHICLE

Reliability and Trustworthiness

TrustVehicle aims at advancing technical solutions for automated driving to better assess critical situations in mixed traffic scenarios and even under harsh environmental conditions, hence increasing safety far beyond the current levels.

The project follows a user-centric approach and will provide solutions which significantly increase reliability and trustworthiness of automated vehicles and contribute to end-user acceptance.

Project Facts

Call:	ART-04-2016 – Safety and end-user acceptance aspects of road automation in the transition
Duration:	Jun 2017 – May 2020 (36 months)
Budget:	4.9 Mio EUR (RIA, 100% EC Funding)
Partners:	12 Partners from 7 Nations

Fault-Tolerant and Fail-Operational

The output of the TrustVehicle project is extensively assessed in real-world operating conditions on three demonstrators representing three vehicle classes. Special focus will be put on the demonstration of the fault-tolerant and fail-operational system behaviour, as well as 24/7 availability. End-users of the technology will systematically and thoroughly be involved to express their requirements, expectations, and concerns.

Project Partners

AVL, CISC, Ford Otosan, i&m Ideas&Motion, Infineon, Linkker, Jeep, University of Surrey, Valeo, virtual vehicle, VTT, Volvo

Expected Impact

- Verify and extend the catalogue of critical scenarios of L3AD.
- Collect real-world data of evolving scenarios and predict failures/situations in scenarios.
- Consider interactions of humans with all aspects of an automated road transport system using knowledge from social sciences.
- Reducing the number of accidents caused by human errors.
- Highlighting gender issues in disaggregated data collection and analysis.

Interdisciplinary Knowledge Building

The success of TrustVehicle is based on the excellent combination of expertise from key industry players and research partners.

There are partners from 6 different EU member states, as well as OEMs from Turkey. This leads to a geographical coverage that is excellent for ensuring validity of the results and enabling interdisciplinary knowledge building throughout Europe.