**TrustVehicle**

**Project ID:** 723324

**Funded under:** H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

**Improved trustworthiness and weather-independence of conditional automated vehicles in mixed traffic scenarios**

**From 2017-06-01 to 2020-05-31, ongoing project | TrustVehicle Website**

**Project details**

<table>
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<th><strong>Total cost:</strong></th>
<th><strong>EU contribution:</strong></th>
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<td>EUR 4 998 903,75</td>
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**Coordinated in:** Austria

**Topic(s):**

- ART-04-2016 - Safety and end-user acceptance aspects of road automation in the transition period

**Call for proposal:**

- H2020-ART-2016-Two-Stages

**Funding scheme:**

- RIA - Research and Innovation action

**Objective**

Automated driving can be implemented with relatively simple controllers if the current location of the ego vehicle and the current and future locations of other road users are known without uncertainty. However, this is not going to happen in the initial stages of the introduction of automated driving systems into the market. As a consequence, system and human driver uncertainty pose a significant challenge in the development of trustable and fault-tolerant automated driving controllers, especially for conditional automation (SAE level 3) in mixed traffic scenarios. The TrustVehicle consortium brings together participants from the whole vehicle value chain to enhance safety and user-friendliness of level 3 automated driving systems.

The main objectives are: (i) the systematic identification of critical road scenarios based on in-depth analysis of possible traffic situations and human behaviour; (ii) the setup of new tools for the cost- and time-effective assessment of driver-in/off-the-loop situations; (iii) design of controllers and sensor fusion systems capable of dealing with complex, uncertain and variable road scenarios to enhance road safety; (iv) the implementation of intuitive human-machine interfaces for the safe management of the transition phases taking into account user acceptance and gender-specific aspects; and (iv) the establishment of an adaptive and agile vehicle validation based on self-diagnostics and data logging to steadily extend the list of relevant scenarios and test cases. The outputs of the TrustVehicle project will be extensively assessed in real-world operating conditions on four demonstrators representing four vehicle classes. End users of the technology will systematically and thoroughly express their requirements, expectations, and concerns during the consortium activity. Special focus will be put on the demonstration of the fault-tolerant and fail-operational system behaviour at any time and for different kinds of weather conditions.

**Related information**

**Report Summaries**

- Periodic Reporting for period 1 - TrustVehicle (Improved trustworthiness and weather-independence of conditional automated vehicles in mixed traffic scenarios)
Coordinator

Kompetenzzentrum - Das Virtuelle Fahrzeug, Forschungsgesellschaft mbH
Infeldgasse 21 A
8010 Graz
Austria

**EU contribution:** EUR 390 000

Activity type: Research Organisations
Contact the organisation

Participants

VALEO VISION SAS
RUE SAINT ANDRE 34
93012 Bobigny
France

**EU contribution:** EUR 450 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

UNIVERSITY OF SURREY
Stag Hill
GU2 7XH GUILDFORD
United Kingdom

**EU contribution:** EUR 388 528,75

Activity type: Higher or Secondary Education Establishments
Contact the organisation

AVL LIST GMBH
HANS-LIST-PLATZ 1
8020 GRAZ
Austria

**EU contribution:** EUR 427 325

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

INFINEON TECHNOLOGIES AUSTRIA AG
SIEMENSSTRASSE 2
9500 VILLACH
Austria

**EU contribution:** EUR 440 041,25

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
Teknologian tutkimuskeskus VTT Oy
VUORIMIEHENTIE 3
02150 Espoo
Finland
EU contribution: EUR 400 133,75

Activity type: Research Organisations
Contact the organisation

FORD OTOMOTIV SANAYI ANONIM Sirketi
AKPINAR MAH HASAN BASRI CAD NO 2 SANCaktepe
34885 ISTANBUL
Turkey
EU contribution: EUR 540 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

IDEAS & MOTION SRL
VIA SANTA MARGHERITA 8
12051 ALBA
Italy
EU contribution: EUR 300 625

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

TOFAS TURK OTOMOBIL FABRIKASI ANONIM Sirketi
BUYUKDERE CAD TOFAS HAN 145 KAT 4-5 ZINCIRLIKUYU
34394 SISLI ISTANBUL
Turkey
EU contribution: EUR 480 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

CISC SEMICONDUCTOR GMBH
LAKESIDE B07
9020 KLAGENFURT
Austria
EU contribution: EUR 315 000

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
LINKKER OY
KORITIE 2
15540 VILLAHDE
Finland
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

VOLVO PERSONVAGNAR AB
AVD 50090 HB3S
405 31 GOTEBOURG
Sweden
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

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