

TrustVehicle Consortium & Hard Facts



- **Full Project Name:** Improved Trustworthiness and Weather-Independence of Conditionally Automated Vehicles in Mixed Traffic Scenarios
- **PROJECT COORDINATION:** Dr. Daniel Watzenig, VIRTUAL VEHICLE Research Center (Austria)
- **START:** 1st June 2017
- **DURATION:** 36 months
- **WEBSITE:** www.trustvehicle.eu
- **NUMBER OF PARTICIPATING ORGANIZATIONS:** 12
- **NUMBER OF PARTICIPATING COUNTRIES:** 7

Findings of the Survey “Public Opinion on Level 3 Autonomous Vehicles”

Objective

The aim of the survey was: i) to explore concerns and expectations of the users regarding the L3AD, and ii) to examine whether individual behaviours and characteristics could significantly predict acceptance and purchasing intentions regarding L3AVs.

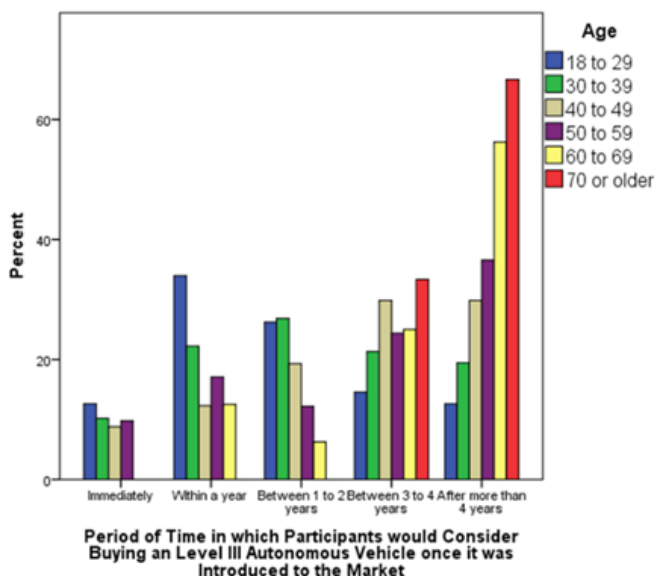
Method

The online questionnaire was distributed via the TrustVehicle partners and the project website. Non-parametric statistical analyses and descriptive and inferential analyses were performed.

Results

The survey captures the concerns and the expectations of the public from 7 different EU countries. The results have

shown that understanding how the general population perceives L3AVs is complicated. It has also shown that the heterogeneous nature of how the general population perceives both the benefits, and concerns regarding L3AVs. According to the results, the variance among all countries, genders and age groups itself is vast. For instance, in terms of purchasing L3AVs, results have shown that age plays an important part in the timeframe with younger individuals willing to buy L3AVs sooner than older participants.

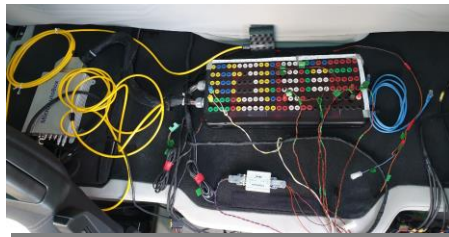
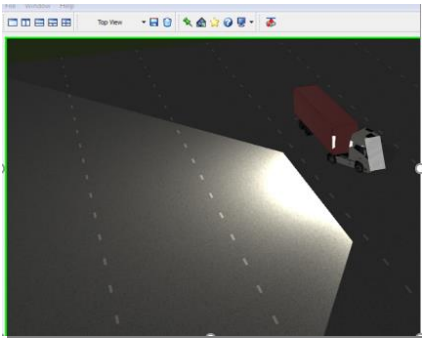


WP6 – Implementation and Vehicle Demonstration

The implementation and vehicle demonstration of our *TrustVehicles* has officially started now and things are getting excited.

Ford Otosan's TrustVehicle

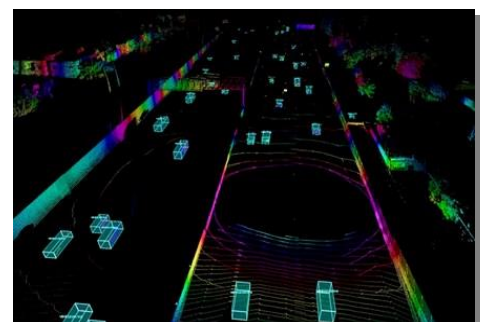
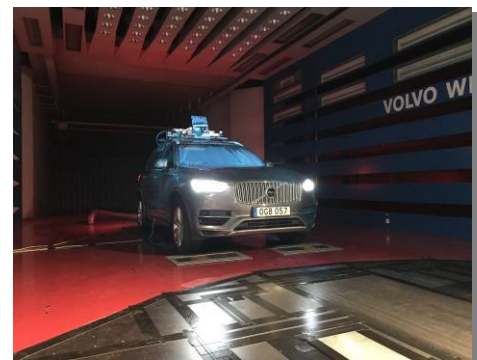
The Ford Otosan team was on the field for testing the longitudinal controllers of the vehicle. While first 18 months of the project was carried out with the Ford Cargo 1848T, the new F-Max has been released and the TrustVehicle demonstration vehicles are updated to the latest truck that Ford Otosan developed. The TrustVehicle project vehicle has been instrumented, correlation studies are being conducted on Ford Otosan's Inonu test track. Simulation studies of the autonomous back-parking feature are also ongoing. Some specific sensors are modelled within the simulation environment but more outputs that are detailed will be published after the whole sensor suit is decided and acquired.



Volvo's TrustVehicle

Volvo Cars sensor teams are carrying out tests to identify the critical driving scenarios where sensor availability will be limited. From computer simulations to wind tunnel testing and complete vehicle testing at Volvo Cars proving ground.

With focus on harsh weather conditions, prototype equipment is designed to emulate weather conditions in order evaluate the performance a LIDAR sensor in different environmental conditions. By studying the test results, the sensor teams recommend solutions, such as sensor cleaning, to reduce sensor degradation and improve availability of the sensor, hence the availability of the automated driving function.

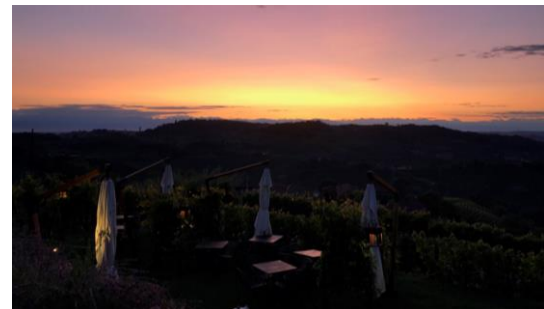


Year 2 F2F Meeting in Cherasco

Our Year 2 meeting at Ideas&Motion in Cherasco, Italy is officially over! After successful and fruitful discussions as well as some socializing in a very nice location,



the consortium is looking forward to an exciting last project year with a lot of testing and demonstration activities going on!



Dissemination Events

EUCAD 2019 & ARCADE stakeholder workshop, Brussels, April 2-4, 2019

Together with BRAVE and interACT, we presented the TrustVehicle project at an information stand at EUCAD 2019, the conference on Connected and Automated Driving in Brussels. We were happy to spread the idea of TrustVehicle to a very interested community.



ITS Europe, Eindhoven, June 4-5, 2019

- Special interest session entitled SIS43 "Human-centred design of automated vehicle for a safe integration into mixed traffic"
- Technical session entitled TS36 "HMI – Human Factors"
Paper: ["Automated driving and HMI design for city bus and truck with professional drivers"](#)

TrustVehicle was at Autonomous Vehicle Expo 2019, Telford, June 27, 2019

On June 27th, TrustVehicle partner University of Surrey attended the “Autonomous Vehicle Expo 2019” event which was held at International Centre, Telford, UK. The event was an opportunity to connect with autonomous vehicle experts to discover advanced concepts, and technologies as well as enabling to get the results to market faster.



TrustVehicle partner University of Surrey shared the hall with the leading exhibitors from across the UK and Europe showcasing the very latest technologies.



Also, the 2nd round of the KPI survey was initiated at the event, which can be used by the OEMs for assessing the 4 different types of Level 3 Autonomous Vehicles considering the user acceptance. Throughout the course of the day, University of Surrey met with the experts at the Autonomous Vehicle Expo 2019 to fill the new KPI survey. The survey will be used to the selection of KPIs for 4 different types of vehicles ranging from a passenger up to a heavy-duty vehicle.

UPCOMING: The 8th IEEE International Conference on Connected Vehicles and Expo, Graz, November 4-8, 2019

- Dedicated TrustVehicle special session on November 7th, 2019



2019 IEEE ICCVE | The 8th IEEE International Conference on Connected Vehicles and Expo (ICCV) | November 4-8, 2019 - Graz | Austria

2019 IEEE ICCVE Organizers: IEEE INSTRUMENTATION & MEASUREMENT SOCIETY, TU Graz, virtual vehicle

2019 IEEE ICCVE Patrons: IEEE, IEEE SCC42 Transportation, ITSS, AVL, Infineon, NVIDIA, ROBORACE

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 723324.

