

PROJECT

## **BRAVE**

### **BRidging gaps for the adoption of Automated VEHicles**

**Funding:** European (Horizon 2020)

**Duration:** Jun 2017 - Feb 2021

**Status:** Complete

**Total project cost:** €2,990,539

**EU contribution:** €2,990,539



[CORDIS RCN : 210132](#)

#### **Objectives:**

New technologies in transport enabled systems with the capacity to improve safety, efficiency, sustainability and comfort.

Advances in vehicle automation allow the circulation of vehicles with minimal human intervention in the near future. However, this irruption brings new technical and non-technical challenges that are to be addressed to ensure safe adoption of level 3 automated vehicles.

Based on existing prototypes of automated vehicles (provided by the consortium), will perform multidisciplinary research to ensure the needs of the users (drivers), other road users (other drivers and Vulnerable Road Users (VRUs)), and the perspectives of stakeholders (driving instructors, insurance companies, authorities, certifiers, policy makers and regulators), as a key for obtaining viable and market-ready products. This main objective is further detailed in the following ones:

1. Multidisciplinary (human, social, economic, security, legal and ethical considerations) study of the requirements and expectations of the drivers, VRUs, and stakeholders to assure safety and adoption of automated vehicles.
2. Turning requirements into innovative interaction and monitoring concepts for driver-vehicle interaction in order to bridge the gap between users and automation technologies while assuring safe vehicles handling with reduced driver attention.
3. Turning requirements into innovative monitoring concepts for vehicle-environment interaction, enhancing current Advanced Driving Assistance Systems (ADAS) through the inclusion of predictive capabilities for better and faster ADAS reactions (nominal and emergency).
4. Validating requirements, user acceptance and impact assessment through realistic user-centric testing exercises under different scenario conditions.
5. Paving the way for the further adoption of the technology by the automation industry, by evolving on testing and pre-validation protocols, proposing advancements on the regulation and consumerist assessment.

#### **Parent Programmes:**

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

**Institute type:** Public institution

**Institute name:** European Commission

**Funding type:** Public (EU)

#### **Lead Organisation:**

**Treelogic Telematica Y Logica Racional Para La Empresa Europea SI**

**Address:**

Parque Tecnológico De Asturias  
33428 Llanera Asturias  
Spain

**EU Contribution:** €440,625

## Partner Organisations:

### Union Technique De L'automobile, Du Motorcycle Et Du Cycle

**Address:**

Autodrome De Linas-Montlhéry  
91311 Montlhéry  
France

**EU Contribution:** €406,250

### Fraunhofer Gesellschaft Zur Foerderung Der Angewandten Forschung E.v.

**Address:**

HANSASTRASSE 27C  
80686 MUNCHEN  
Germany

**Organisation Website:**

<http://www.fraunhofer.de>

**EU Contribution:** €401,250

### Statens Geotekniska Institut

**Address:**

Olaus Magnus Vag 35  
58193 Linkoping  
Sweden

**Organisation Website:**

<http://www.vti.se>

**EU Contribution:** €436,675

### The University Of Sydney

**Address:**

The University of Sydney  
SYDNEY 2006  
Australia

**Organisation Website:**

<http://www.usyd.edu.au/>

**EU Contribution:** €0

### Universidad De Alcala

**Address:**

PLAZA DE SAN DIEGO  
28801 ALCALA DE HENARES/MADRID  
Spain

**Organisation Website:**

<http://www.uah.es>

**EU Contribution:** €318,000

### Mov'eo

**Address:**

AVENUE GALILEE  
76800 SAINT ETIENNE DU ROUVRAY  
France

**Organisation Website:**  
<http://www.pole-moveo.org>

**EU Contribution:** €203,750

### **The Regents Of The University Of California**

**Address:**  
FRANKLIN STREET 1111, 12 FLOOR  
OAKLAND CA, 94607  
United States

**Organisation Website:**  
<http://www.universityofcalifornia.edu/>

**EU Contribution:** €0

### **Avto Moto Zveza Slovenije**

**Address:**  
DUNAJSKA CESTA 128  
1000 LJUBLJANA  
Slovenia

**EU Contribution:** €122,739

### **Automobil Club Assistencia Sa**

**Address:**  
AVENIDA DIAGONAL 687  
08028 BARCELONA  
Spain

**Organisation Website:**  
<http://www.fundacionracc.es>

**EU Contribution:** €212,500

### **Gesellschaft Fur Empirische Soziologische Forschung Ev**

**Address:**  
MARIENSTR. 2  
90402 NURNBERG  
Germany

**EU Contribution:** €448,750

### **Technologies:**

Advanced driver assistance systems  
ADAS learning and harm prevention platforms

**Development phase:** Research/Invention

**STRIA Roadmaps:** Cooperative, connected and automated transport

**Transport mode:** Road transport

**Transport sectors:** Passenger transport

**Transport policies:** Other specified

**Geo-spatial type:** Other

