PROJECT

SMARTCARS 2

Low Cost Advanced Driver Assistance Systems (ADAS): A cost affordable solution for improved road safety (2)

Funding: European (Horizon 2020)

Duration: Jul 2017 - Mar 2020

Status: Complete

Total project cost: €2,844,500

EU contribution: €1,991,150

Call for proposal: H2020-SMEINST-2-2016-2017

CORDIS RCN : 211128

Objectives:

Road safety is a mayor societal issue, with road accidents being the main cause of death in industrial countries. According to the World Health Organization, the total number of road traffic deaths remains unacceptably high at 1.24 million per year, occupying the 9th position in the list of top leading causes of death in the world. Advanced driver assistance systems (ADAS) can contribute to a possible solution.

ADAS are systems developed to automate, adapt and enhance vehicle systems for safety and better driving. Since 2000, the automotive industry has gradually introduced new ADAS features in vehicles. The progress in this field has been enormous and it has been demonstrated that the most advanced ADAS systems can contribute to reducing fatal road accidents by a factor of more than 40%. However, in spite of the huge progress so far, relatively few vehicles on the road today have these systems, and their share of the market is growing at only 2-5% annually.

The major problem preventing large-scale ADAS implementation is that these systems are only offered to the drivers when purchasing a new vehicle as embedded solutions, and the most advanced (securest ADAS) are found only in the high price vehicle segment. This implies that the improved driving safety is restricted to the high purchasing power consumers and only when replacing their old car, whilst being unaccessible to the lower-middle class consumers.

The SMARTCARS project is aimed at making the most advanced ADAS systems accessible to everyone. Our technology is not based on an embedded system but on an external hardware solution which can be integrated to any car manufactured after the registration year 2000 by a simple USB connection. SMARTCARS will enable any car owner who pays just 550€ and 30€/year for system maintenance to enjoy the improved driving safety offered by the most advanced ADAS, which nowadays can only be enjoyed when purchasing a new car of the premium-high price segment.

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:

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Address:
AVENIDA CORVACEIRAS 48 1C
36002 PONTEVEDRA
Spain

EU Contribution: €1,991,150

Technologies:

Advanced driver assistance systems
ADAS learning and harm prevention platforms

Development phase: Implementation

STRIA Roadmaps: Cooperative, connected and automated transport

Transport mode: Road transport

Transport sectors: Passenger transport

Transport policies: Other specified

Geo-spatial type: Other