



HORIZON 2020

H2020 project PRoPART develops Accurate and Robust Positioning for Automated Transports

PRoPART is a H2020 project, funded by the European Global Navigation Satellite System Agency (GSA), focusing on automated vehicles and advanced driver assistance systems. The main purpose of the project is to develop and enhance an RTK (Real Time Kinematic) software solution by both exploiting the distinguished features of Galileo signals as well as combining it with other positioning and sensor technologies. RTK gives the possibility of cm-level accuracy using correction data from reference stations.

Automated vehicles and advanced driver assistance systems contribute towards “Vision Zero”, i.e. a future where no humans are killed or impaired by accidents. Predictions indicate that these technologies will also contribute to reduced traffic density through increased road efficiency and will create new business models for mobility. High accuracy and robust positioning is a required key technology in both advanced driver assistance systems and connected autonomous vehicle applications.

Today, there are several types of sensors used in autonomous vehicles such as cameras, laser scanners, ultrasonic, radar etc. The connected and automated vehicle applications currently under development are based on the cooperation between different solutions to determine the absolute position of the vehicle on the road and relative to any obstacles. No single technology can solve this in all situations, and when combining different technologies it is vital to understand the integrity of the available information. PRoPART will demonstrate the developed positioning solution in a truck capable of automated driving in motorway conditions.

PRoPART has seven partners from four European countries; Sweden, Germany, Spain and Hungary. The kick-off took place in December 2017 at the European GNSS Agency in Prague. The project has a total budget of 3,5 M€ and will run from December 1, 2017 until November 30, 2019. The PRoPART partners are RISE, AstaZero, Scania, Waysure, Fraunhofer IIS, Ceit-IK4, Baselabs and Commsignia.

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