AUTOC-ITS

Regulation Study for Interoperability in the Adoption of Autonomous Driving in European Urban Nodes

Funding: European
Duration: Nov 2016 - Dec 2018
Status: Complete

Background & policy context:

AUTOCITS is an European Project coordinated by INDRA, co-financed by the European commission under the CEF programme, which aim is to contribute to the deployment of CITS in Europe by enhancing interoperability for autonomous vehicles as well as to boost the role of C-ITS as catalyst for the implementation of autonomous driving. Three pilots are implemented in three major European cities to do this: Paris, Madrid and Lisbon, located along the Atlantic Corridor.

Objectives:

The aim of the Action is to contribute to the deployment of C-ITS in Europe by enhancing interoperability for autonomous vehicles as well as to boost the role of C-ITS as catalyst for the implementation of autonomous driving.

The Action consists of Analysis and design, Pilots deployment and assessment, Dissemination and communication as well as Project Management and Coordination. It includes activities covering from the definition of specification to pilot deployment and validation, including analysis of the different national regulations.

The pilots will be implemented in three major Core Urban nodes (Paris, Madrid, Lisbon) located along the Core network Atlantic Corridor in three different MS. The three pilots will test and evaluate the deployment of C-ITS services in autonomous vehicles under the applicable traffic regulation. These pilots include testing of autonomous driving supported with C-ITS in open and closed traffic to check the applicable traffic rules. In concrete, the Action will conduct a study on traffic regulation for autonomous vehicles aimed primarily at urban nodes connected to the main transport network.

Aspects of real-time monitoring, communications infrastructure, guiding strategies for complex manoeuvres and high-level strategies for management of the autonomous vehicle from traffic control centres will also be addressed.

The action will also study the extension of the results and large scale deployment in other European countries and contribute to initiatives such as the C-Roads and C-ITS platforms and other European standards organizations.

The Action contributes to the enhance deployment of Intelligent Transport Services for Road. It also contributes to optimizing the integration and interconnection of transport modes, enhancing the interoperability of transport services while ensuring the accessibility of transport infrastructures.

Related Projects:

AUTOCITS is participating in the C-ROADS Platform

Parent Programmes:
CEF - Connecting Europe Facility

Funding type: Public (EU)

Partners:

Inria : Inventeurs du monde numerique
• Inria : Inventeurs du monde numerique
• INDRA
• INSIA
• DGT : Direcccion General de Trafico
• Universidade de Coimbra
• Instituto Perdo Nunes
• Autoridade Nacional Seguraca Rodoviaria

**Organisation:** Indra Sistemas, S.A.
**City:** Madrid
**Contact country:** Spain

**STRIA Roadmaps:** Cooperative, connected and automated transport
**Transport mode:** Road transport
**Transport sectors:** Passenger transport
**Transport policies:** Safety/Security, Deployment planning/Financing/Market roll-out