

KEY ACHIEVEMENTS IN 2019



Together with Partners, ERTICO works on topics related to four focus areas: **Connected and Automated Driving, Clean Mobility, Urban Mobility and Transport and Logistics**. Here is a highlight of 2019's activities in these areas:

Connected and Automated Driving (CAD)

ERTICO is preparing the way forward for the convergence of C-ITS, cellular connectivity and the evolution of road infrastructure that will support connected and automated driving.

The ERTICO-led project **ARCADE** brought together 700 European and national political leaders, high-level industry representatives and road authorities at the unique EUCAD conference to discuss major challenges related to vehicle automation.

AUTOPILOT is using IoT to advance vehicle automation and has demonstrated automated valet parking and urban driving use cases on public roads in July in Vigo, Spain.

CONCORDA prepares European motorways for connected and automated driving and high-density truck platooning. The project demonstrated truck platooning in a real-life environment at the ITS European Congress in Brainport. The project successfully tested information exchange between cars and road infrastructure in Amsterdam including technologies such as GLOSA.

5G-MOBIX is testing connectivity for autonomous driving and showcased 5G for CCAM across borders with TURKCELL at the Mobile World Congress in Barcelona, attracting interest from industry.

InterCor, coordinated by ERTICO Partner Rijkswaterstaat, validated cross-border C-ITS interoperability of seven services, including logistics. The project delivered common specifications for C-ITS services and a roadmap on hybrid communications to achieve harmonisation at European level.

ICT4CART, coordinated by ERTICO Partner ICCS, brings together telecommunication, automotive and IT industries to build ICT infrastructure for connected and automated driving. In 2019, the project delivered specifications and architecture to collect data related to drivers, vehicles, vulnerable road users and infrastructure.

C-Mobile, coordinated by ERTICO Partner IDIADA, is delivering large scale deployment of C-ITS services in urban areas to improve safety and mobility. This year the project cross-tested C-ITS services and back-office interoperability for continuous services through ITS G5 and cellular communication, and is gearing up for large-scale deployment in participating cities and regions.

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SAFESTRIP is improving road safety by embedding C-ITS applications in roads with low-cost, integrated strip markers. Road testing of the full installation is currently underway in Patras, Greece.

TN-ITS GO is currently piloting update services for static map data in nine Member States to make maps more reliable.

In January 2020 **SHOW** will begin and support sustainable urban transport by deploying shared, connected, cooperative, electrified fleets of autonomous vehicles in 20 cities across Europe.

Clean Mobility

In Clean Mobility, ERTICO is developing solutions and standards that make mobility greener and sustainable.

NeMo, coordinated by ERTICO Partner ICCS, successfully developed and validated a blockchain-based Hyper-Network for electromobility services. The project tested the interoperability of charging networks with e-roaming by driving 5,000 km across nine European countries.

ELVITEN, coordinated by ERTICO Partner ICCS, promotes the use of light electric vehicles for personal mobility, business trips and urban deliveries in six cities in Italy, Spain, Greece and Germany. Over 17,000 trips have already been made with over 200 light electric vehicles provided by the project.

ERTICO-led, **MODALES** began in September 2019 and will look at how to modify driver behaviour to substantially reduce the emissions from three different sources: powertrain, brake wear and tyre wear.

optiTruck was completed in August 2019 and brought together the most advanced technologies from powertrain control and ITS to cut truck fuel consumption by over 10%.

Urban Mobility

In Urban Mobility, ERTICO engages all Partnership sectors to bring smart mobility solutions to cities and the daily lives of their citizens.

The first **Global MaaS Summit**, co-organised by ERTICO, the Singapore Land Transport Authority, ITS America and ITS Australia addressed business models for Mobility as a Service (MaaS) and their potential for integration within and across various sectors. ERTICO cooperates with ITS America and ITS Asia-Pacific to set a global agenda to push MaaS forward.

SOLUTIONSplus, a new flagship project on international cooperation, will start in January 2020. It will support the electrification of road transport and MaaS in developing economies for a smarter mobility.

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CAPITAL designed and delivered a collaborative capacity-building programme for ITS and C-ITS, with ten courses now available on the online training platform its-elearning.eu. ERTICO will build on the experience accumulated in CAPITAL to build the ERTICO Academy. ERTICO supports urban planners and local decision makers in the integration of ITS and MaaS in their Sustainable Urban Mobility Planning (SUMP) by contributing to SUMP guidelines.

Transport & Logistics

ERTICO is working to overcome the existing fragmentation in the freight and logistics sector by developing solutions for connecting logistics systems in the immediate exchange of information.

AEOLIX has built a cloud-based, multi-enterprise “many-to-many” network platform. It provides a unique business model for connecting an unlimited number of supply chain parties and giving an overview of operations in real time.

FENIX began in September 2019, expands on the work of AEOLIX to offer interoperability between multiple existing logistics platforms in Europe.

ENSEMBLE, coordinated by ERTICO Partner TNO, promotes European excellence in inter-brand, ad-hoc and cross-border platooning of trucks, generating the necessary technical inputs for setting a common standard.

Innovation platforms

The **MaaS Alliance** retains a high profile, expanding its membership to 90 organisations including new members from the US and Asia-Pacific regions Australia, Korea and Japan. In October, the fifth MaaS Summit addressed sustainability.

TISA delivered a white paper on the impact of automation on traffic and commuter information from both a business and technical perspective.

ADASIS is releasing the new ADASIS v3.1 specification for Automated Driving, engaging global stakeholders, including Japanese, Chinese and Korean counterparts.

SENSORIS released a new specification v1.1.0 for vehicle-to-cloud sensor data exchange closing the loop with request messages from the Cloud to the vehicle.

eMI3 released the update of its first standard specification: version v1.1. **TM2.0** released a number of new Task Force reports including one on the interdependence between interactive traffic management and Mobility as a Service and the important concept of Trust. The Platform has entered its implementation phase.