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Technology Watch Report

13TH ITS EUROPEAN CONGRESS EINDHOVEN

19 AOUT 2019

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Interreg
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DESCRIPTION

- **Objet :** Report on the visit of 13th ITS European Congress
- **Location:** Eindhoven – Netherland
- **Date:** 03 to 06 June 2019
- **Web site:** https://2019.itsineurope.com/
- **Participant:** Anthony Auert, Cluster Manager – AutoMobility, Luxinnovation
- **Report version:** version #1

OBJECTIVES

- Improve market intelligence in emerging technologies in the field of vehicle-connectivity, autonomous driving, smart city and smart infrastructure.
- Participation in congresses related to above-mentioned topics.
- Visit technical exhibition; detect new technologies that could contribute to the development of the Luxembourg and Greater Region automotive eco-system.

SUMMARY

For people interested in the latest trends in smart mobility, the last ITS European Congress held in Brainport-Eindhoven was an excellent opportunity to increase knowledge about the latest technologies and policy developments through various technical conferences and exhibitions.
In Helmond, the nearly 20 demos “pushing the boundaries of modern and future mobility” showcased vehicles with various driver assistance systems, V2X connectivity, smart data exchange, intelligent infrastructure, and also drone deliveries.

As part of the data-driven innovation strategy to support the emergence of a sustainable and trusted economy, the Ministry of the Economy of Luxembourg was represented on 3 June for the meeting of the European Working Group “Data for Road Safety”. Bringing together representatives of different EU Member States, OEM and service providers, this meeting was the starting point for a demonstration at European level of the online sharing of data generated by vehicles and road infrastructure with the ultimate goal to improve road user safety

The presence of 2 Luxembourg local actors, Motion-S and UFT, reinforces the strong interest and competences of the local eco-system for data analytics and advanced services on driver profiling.

ABOUT THE ITS EUROPEAN CONGRESS

The 13th European ITS Congress was held in the Evoluon (Eindhoven) and at Helmond’s Automotive Campus last June, offering visitors a vision of the future of mobility.
The Europe’s largest conference in the smart mobility sector, focused on 7 main subjects such as:

- decarbonisation of transport
- CCAM (cooperative connected & automated mobility)
- new mobility services
- freight transport
- digital infrastructure
- transport networks

- workforce of the future.

The latest Intelligent Transportation Systems (ITS) achievements were showcased through life demos including vehicles with driving assistance systems, fully automated vehicles, and smart infrastructures connecting cars with roadside equipment.
To encourage and enable the exchange of information on ITS deployment, technical and scientific conferences were provided by international experts.

ATTENDED CONFERENCES

1. SIS29 - STATUS OF LARGE SCALE C-ITS DEPLOYMENTS ACROSS EUROPE

- **Speakers:**
  Eric Ollinger, Chair C-Roads Platform, French Ministry of Transport, France
  Torsten Geissler, Chairman, Amsterdam Group, Germany
  Erik Olsen, NordicWay 2 Coordinator, Norwegian Public Roads Administration, Norway
  Máté Verdes, Project Manager, Hungarian Public Road Non-profit PLC, Hungary
  Manfred Harrer, Abteilungsleiter Telematische Dienste, ASF, Austria
  Ricardo Tiago, Senior Adviser, Institute for Mobility and Transport, Portugal
- **Description:**
  This session delt with the status of large scale ts from 6 out of 16 EU Member States that are working together on the deployment of harmonised C-ITS services. Answers on the current status of deployments and future plans were given. An additional focus was made on the stakeholder involvement and collaboration within the single deployment sites.
  The speakers stressed the importance of a well-defined regulatory framework in order to clearly specify the appropriate infrastructure material deployment (C-ITS G5 versus cellular 5G).
  For the countries not having started yet C-ITS pilot (likewise Luxembourg), it was recommended to start with a small project easy to implement to build on experience (learn by doing).

2. TS29 - TRIALS OF NEW CONNECTED AND AUTOMATED SERVICES - STATUS OF LARGE SCALE C-ITS DEPLOYMENTS ACROSS EUROPE

- **Speakers:**
  Hettie Boonman, TNO
  Sven Vlassenroot, Tractebel-Engie
  Lionel Prevors, Cerema Sud-Ouest
  Jos van Vlerken, city of Copenhagen

- **Description:**
  1) A field test and simulation study with CACC and smart intersections in the Province of Noord Holland (NL):
  A pilot study has been performed with seven automated vehicles with ACC and CACC between regular traffic, and communication with smart intersections. Time-to-green was communicated, as well as an extension of green time for platoons of CACC vehicles. Results from this pilot study were upscaled to higher penetration rates of (C)ACC vehicles in a simulation study which was calibrated and validated

with data from the field test. The aim of this study was to analyse driver experience and the impact of large scale introduction of ACC and CACC and intelligent intersections on traffic flow and safety.

2) C-ITS initiatives in Wallonia: Evaluation methodology of the Walloon C-Roads Project
The main objectives were to operate and assess the deployment of a cloud-based solution for co-operative ITS services, to connect road users with Traffic management centres (TMC) and allowing TMC to directly interact with the end users. The pilot brought the opportunity to expand or upgrade Traffic Information Services and Traffic Management Services offered today, building on a digital 'virtual infrastructure', feed and support a discussion on the future role of the public road operator. The speaker described the evaluation approach.

3) C The Difference : An experimentation to deploy innovative driver assistance services in Bordeaux
The objective of the project was to advance knowledge about the capability of C-ITS to meet the needs of cities in terms of mobility and sustainability. The project has shown that sustainable, robust and reliable C-ITS services can be deployed at the scale of a large metropolitan area in a short time and at a modest cost. The different operators now have a better understanding of the obstacles to overcome during deployments.

4) C-Mobile: Deploying GLOSA for cyclist in Copenhagen
The city of Copenhagen is always expanding its cycling infrastructure including ITS technologies and digital services. The project C-Mobile was experimenting with Green Light Optimal Speed Advisory (GLOSA) services the reduction of hard stops to enhance cyclists speed and convenience, and thus reinforce the attractiveness of this transportation mode. By introducing cycling transport into the C-ITS deployment agenda, the city of Copenhagen wanted to underpin the importance of cycling as an environmentally friendly mode of transportation.

LUXEMBOURG PRESENCE

1. MOTION-S (TECHNICAL EXHIBITION)

- **Offering:**
  Motion-S is a data analytics company which provides advanced services on profiling for accident risks, car wear and energy consumption to its clients. To shape next generation mobility, Motion-S objectively assess driving behaviour using heterogeneous data to determine TCM. They provide risk assessments that are used by insurers, fleet managers, car sharing and leasing companies and OEMs worldwide.
  http://www.motion-s.com/
- **Main products:**
  - Data collection platform: Data Augmentation, Objective Scoring, Reporting
  - MOTION-S API
  - Software Development Kit

2. UFT (TECHNICAL EXHIBITION)

- **Offering:**
  UFT manage on-demand ride sharing services. Through the advanced DRT platform they enable bus operators and authorities to build flexible transit systems, providing passengers with a personalised and convenient service even in low density areas.
  http://www.vedecom.fr/?lang=en
- **Main products:**
  - Powerful optimisation engine to master demand-responsive bus transit
  - User-oriented applications (passengers, drivers, transit agents)
  - Customisable tools for mobility data-analytics.

3. MINISTRY OF THE ECONOMY

- **"Data for Road Safety"**
  Following the collaboration agreement signed on 03 June in Eindhoven, the Ministry of the Economy from Luxembourg is now engaged into the EU project "Data for Road Safety".
  Thanks to the latest technological developments, cars are able to detect and alert passengers in case of dangerous road conditions, for example when roads are slippery. Supported by a decentralized data collection & cooperation architecture, the proof of concept will consist on sharing alerts generated by vehicles and infrastructure, particularly between different countries and OEMs.
  The MOU signed by the Working Group sets the framework for this feasibility demonstration and aims to build a strong and trustful partnership between the various stakeholders.
  This project is part of the data-driven innovation strategy of the Ministry of the Economy of Luxembourg, which supports digital transformation and the emergence of a sustainable, data-driven economy. It fosters as well the development of the Luxembourg-France-Germany digital cross-border test bed enabling the test and validation of connected & automated mobility.

IMPRESSIONS

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