JRC cooperation with EU candidate, potential candidate and Horizon 2020 associated countries

Enlargement and Integration Action 2019

Workshop on "The impact of Connected and Automated Vehicles on road capacity and transport efficiency" ZalaZone Proving ground.

Feszek u. 4. - 8900 Zalaegerszeg (HU), October 07-08, 2019

Background

Road transport has changed more in the last 10 years than in the previous 50 years, namely after the widespread of the car as the main personal mobility option worldwide. The advent of electrification, communication and automation technologies together with new social trends such as the sharing economy, are driving the change at a pace which was difficult to imagine just a few years ago.

Since mobility expresses a human need and transport represents the available opportunities to achieve that need, a change in the transport sector impacts heavily our lives both individually and collectively within the society. These implications and the interlinkages with other dimensions of our society make transport a complex system, meaning that the effect of any change to it can have non-linear wider consequences that are difficult to predict.

At the same time, the transport sector needs to be transformed to reduce its unsustainable externalities. Global challenges such as climate change and other sustainable development goals cannot be achieved without touching the transport sector[1]. Policy needs to ensure that the potential benefits that the transformation of the transport sector promises to bring to the society are not counterbalanced by other unexpected negative effects. Loss of competitiveness of the European industry, employment reduction and lack of required skills to cover new jobs, reduction in social equity, loss of privacy, new urban sprawl, higher energy consumption are only some of the possible threats that a transformation pushed by significant financial interests may bring.

In the last years the JRC has built significant expertise in the field to support the European Commission in developing the future policy tools to steer the transformation of road transport.

([1]) https://www.eesc.europa.eu/en/our-work/opinions-information-reports/opinions/role-transport-realising-sustainable-development-goals-and-consequent-implications-eu-policy-making-own-initiative

Motivation and objectives

The innovation of road transport is a global trend. It is pushed by technology providers all around the world and governments need to be prepared in order to properly steer the transition. New technologies and solutions are not only provided by traditional big players operating in the transportation field, but are often coming from a constellation of innovative start-ups which are providing their products to the global market usually with limited interactions with local governments, which then need to cope with any negative effect the products themselves may bring.

For this reason, the Sustainable Transport Unit of the JRC organizes a two-day workshop with the objective to update professionals and practitioners from E&I countries on the current evolution in road transport, to present the scientific evidence available up to now on the main issues at stake, and to discuss the main policy initiatives in the European Union and in other international contexts.

The two-day workshop will take place in the premises of ZalaZone, a test centre for advanced vehicle technologies currently under construction by the Hungarian government to support field testing of future road transport solutions. A visit to ZalaZone test-track is part of the workshop.

The target audience of the workshop is composed by researchers and practitioners in the fields of automotive/transport/energy/mechanical/electric engineering and by employees in Transport/Industry/Environment Ministries from the E&I countries.

Activities

The two-day workshop will be mainly structured in frontal lectures and open discussions. The following draft agenda is proposed:

Day 1	Day 2

- ***Morning session***
  ○ Introduction. The future of road transport.
  ▪ Technology outlook
  ▪ Policy outlook
  ▪ Citizen perspective
 	
- ***Afternoon session***
  ○ The need for testing and real-world experiences: test-tracks and living-labs as powerful policy and technology tools
  ○ Policy initiatives in E&I countries
  ○ Co-creation session: what future for local transport systems?
 	
- ***Networking Dinner***
	- ***Morning session***
	  ○ Connected and Automated Vehicles and transport efficiency
	  ▪ Impact on road capacity
	  ▪ Advanced traffic management
	  ▪ Impact on energy consumption
	
	- ***Afternoon session***
	  ○ Visit to ZalaZone test-track
	  ○ Conclusions and final remarks

Organisers:
Joint Research Centre of the European Commission and Automotive Proving Ground Zala Ltd.

Dates and Venue:
07-08 October, 2019 – ZalaZone Proving Ground
The training will develop over two full days. More information on time and venue of the workshop will be provided to the selected applicants.

Useful Dates:
Deadline for Applications: 15 July 2019
Communication of Acceptance: 30 July 2019

Planned participants:
30

Participants profile:
Professionals, academics, policy officers or any person whose field of work is in the automotive/transport/energy/mechanical/electric engineering sector.

Country of origin of participants:
Countries associated to Horizon 2020.

Grants:
Grants covering cover travel and accommodation expenses will be available to a maximum of **30 selected participants**.

Contacts:
To apply please send your CV and motivational letter to: JRC-EI-CCAM@ec.europa.eu