



ECA 2030 Turin Moving Towards Human Centered Mobility 04./05.07.2018

Background and Purpose Statement

- ECA2030 is the interactive arena where the automotive community and policy makers meet and discuss about the next evolution cycles, technology gaps and limits of today's technologies in order to pave the way for the Electric, Connected, Automated car for the 2030 customer (ECA-cars).
- In 2030, the electric, connected and automated car will become Mainstream. On a global scale, today's yearly manufacturing volume of more than 80 Mio conventional cars will contain a share of estimated 40 Mio ECA-cars in 2030, which have to be produced in a sustainable way.
- As a consequence of this disruptive change, we need to define not only the needed technology basis, but also to identify possible gaps to gain and keep the sovereignty and the IP to build our cars in and for Europe.
- The new ECA2030 event in Turin will be principally focused on the "human centric design approach", which has gradually gained importance in Europe in the last years. This approach will be analysed and discussed by experts coming from different scientific disciplines (e.g. engineering, medical, etc.).
- We will discuss how new technologies will address relevant societal challenges, such as aging population and urbanisation, with the aim of improving the quality of life of European citizens.

Expected Outcome

- The goal is to find European strength and gaps in respect of required technologies when the electric, connected and automated car becomes Mainstream, as well as to facilitate cross domain expertise.
- We will challenge the inspiration and contributions from different transportation domains. Cross domain knowledge shall facilitate a roadmap for mutual understanding among the disciplines to build the ECA-car2030.
- We will stimulate communication to align the understanding of the next evolution cycles, technology gaps and limits of today's technologies in a top-down approach.



- The discussion is an experiment to understand and translate our vision into the right research and to position this in a **Strategic Research Roadmap**.
- At Turin, a recognized automotive and technological hub nested into an historical city, we expect to have stimulating presentations to pave our way towards a successful implementation of our Lighthouse Mobility.E, based on our EV- projects.

Workshop Implementation, Agenda scheme and Invited Audience

- Speakers from inside and outside of the involved H2020- and ECSEL-projects (AutoDrive, 3Car, OSEM-EV, SilverStream, STEVE, Demobase and others) are asked to stimulate the discussion.
- We will invite decision makers from the automotive industry (OEM's, Tier1's, Semiconductors) contributing as partner to the research projects above. We will also invite the Funding partner in the sense of public private partnerships to share opinions and strategies.
- It shall be a working event to bring cross transportation domain requirements and expertise together.
- In particular the final results from the SilverStream project will be presented to the wide audience and there will be the opportunity to assess the technological implementation on the demo vehicle.
- A sort of red wire will then connect R&D, industrial exploitation of the results and vision ahead.

Framework provided by the Lighthouse Mobility.E

In the frame of the ECSEL Lighthouse Mobility.E, driven by the AutoDrive project, and in cooperation with the ECSEL JU, we like to invite you for this roadmap workshop:

- We'll build a creative environment on how to apply and understand European objectives down to relevant technologies: Facilitate the Vision Zero accidents by automated driving and EV as mainstream
- The Lighthouse Mobility.E facilitates and organises the roadmap contributions
- Voice of industrial stakeholders, funding organisations and public audience
- The event is organized in the format of a Workshop



Venue: Politecnico of Turin

Turin was chosen as venue due to the following reasons and benefits:

The event is organized by the SilverStream project consortium, which benefits from the participation of several partners located nearby Turin. The SilverStream project has strongly contributed to the preparation and definition of the STEVE project as well as other R&D initiatives in Europe. The City of Turin (CoT) and the City of Venaria (CoV) are active partners in H2020 STEVE.

The ECA 2030 will be held at the Politecnico of Turin (POLITO), where both comfortable locations are available. Moreover POLITO has already successfully managed international events and will take care about organisational aspects supported by the Innovation Cluster for Mechatronics and Advanced Production Systems (MESAP).

Relevant media coverage (e.g. radio and television) is planned.

- Turin offers direct transport links from numerous European airports and can be easily and economically accessed from many cities in less than 2.5 hours.
- Due to the excellent infrastructure and available hotel capacity, a straightforward and successful conduction of the workshop can be expected.

