

Plenary Presentation of Working Group Activities



EPoSS WG Transportation Riccardo Groppo Ideas & Motion

EPoSS General Assembly 2017, Graz, 2017-10-18

The EPoSS SRA





Purpose of EPoSS SRA

- Recommend Smart Systems
 Integration topics for
 Horizon 2020 WP 2018-20
- Contribute to ECSEL MASRIA
- Give advise for EGVI PPP calls
- Prepare for discussion about next framework program
- Strengthen links to applicationrelated ETPs
- Take into account what exists
- A concise strategy document and roadmap

WG Automotive: ECSEL MASRIA, H2020 projects and collaboration



- Strategic activities and collaborations with ERTRAC, EUCAR and CLEPA (e.g. automated driving and electrification of road transport)
- "Transport & smart Mobility" chapter of the ECSEL Multiannual Research and Innovation Agenda (MASRIA) 2018





Main target:

- to promote innovation and awareness regarding smart systems
- to prepare road maps, to recommend standards, regulations, business cases and R&D priorities
- to encourage and consolidate a "smart system ecosystem"
- to support a marketing strategy and a brand identity
- to support the development of a "human centric" mobility



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WG Transportation Active participation in congress/meetings

- Smart Systems Integration Conference, Cork March 2017
- Connected and Automated Driving Conference, Brussel Apr 2017
- Digital Innovation Forum, Amsterdam May 2017
- AMAA 2017 Berlin, Sept 2017
- EuWoRel 2017 Berlin, Sept 2017



Addressing the next big challenge: data science (data mining, machine learning)





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(Green Vehicles) - Building a low-carbon, climate resilient future



LC-GV-01-2018: Integrated, brand-independent

architectures, components and systems for next generation

electrified vehicles optimised for the infrastructure

LC-GV-02-2018: Virtual product development and production of all types of electrified vehicles and components

LC-GV-03-2019: User centric charging infrastructure

LC-GV-04-2019: Low-emissions propulsion for long-distance trucks and coaches



MG-2-3-2018: Airworthiness of mass-market drones

Scope:

Gather comprehensive global information on on-going and planned work on technical rules, standards and procedures for civilian markets and/or use in civilian airspaces;

Critically assess and benchmark the gathered information, providing a knowledge-base of "best practice" and data aimed at supporting the EASA's regulatory due-process; particular emphasis shall be given to the provision of data for purposes of validation of specific product or technical requirements;



MG-2-3-2018: Airworthiness of mass-market drones Scope:

Contribute to the development and subsequent validation of a well-reasoned set of technical standards that are appropriate for all relevant categories of drones.

Consortia should include organisations from all parts of the drone value-chain – drone/part suppliers, operators, academia, and safety regulators – to ensure the triplet of user-producer-oversight competences required for full performance and swift delivery of the work.

Addressing new domains: DT-ICT-08-2019 - Agricultural digital integration platforms



Scope: Pilots should address all of the below aspects:

- 1. Building platforms integrating different technologies like Internet of Things (IoT) devices, cloud, photonics, networks, geolocalisation (including through Galileo and EGNOS) and robotics combined with applications based on data analytics and knowledge management.
- 2. Sharing data and generating knowledge via capturing and translating more and precise information.
- 3. Developing decision support systems that will include, but are not restricted to, a benchmarking system on the productivity and sustainability performance of farms, services, technologies and practices.