

WORKING GROUP 5: Connectivity and digital infrastructure for cooperative, connected and automated mobility

Motivation

Cooperative, connected and automated mobility (CCAM) requires reliable telecommunication infrastructure with high coverage. The European Commission favours a hybrid approach where satellite, long-range and short-range communication operate in a seamless manner.

Various discussions, tests and pre-deployment activities are ongoing to establish an interoperable framework for connectivity. In addition, large scale pilots pre-deploy relevant infrastructure.

Beyond connectivity, other elements are of utmost importance for CCAM: the internet of things, artificial intelligence and data storage (cloud technology). Online platforms have dramatically changed the digital economy over the last two decades. Information and communication technology (ICT) platforms that support CCAM falls also within the scope of this subgroup.

Scope

This working group will focus, inter alia, on the following matters:

- To support the coordination of activities that focus on telecommunication infrastructure including satellites and cellular networks, the internet of things, data storage, and information and communication technology (ICT) platforms that support CCAM and related services, and identify those hurdles that need to be overcome (e.g. spectrum, silo approaches);
- To identify how satellite navigation, notably Galileo and the European Geostationary Navigation Overlay Service (EGNOS), as well as satellite communication, can support the pre-deployment of automated vehicles; monitor progress and propose new activities for research and pre-deployment;
- To gather and exchange experiences, best practices and knowledge on how spectrum can be efficiently allocated to various technologies;
- To promote collaboration between the various actors of the CCAM community regarding communication technology, both long-range and short-range; to coordinate testing and pre-deployment activities;
- To address technical and legal issues that are relevant to data storage and cloud access in the testing and pre-deployment phase;
- To carry out an assessment of the state-of-play how online platforms influence communication technologies.