

CODECS at a glance

COoperative ITS **DE**ployment
COordination **SU**pport (CODECS)

Duration

May 2015 to April 2018

Funding Scheme

Coordination and Support Action

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For a concerted roll-out of C-ITS applications across Europe

Initial C-ITS deployment is realised in corridor projects and pilots all over Europe. Harmonisation and alignment of roll-out plans between stakeholders and regions is inevitable to let traffic participants experience the benefits of C-ITS seamlessly.

CODECS acts as a nodal point for stimulating a **transparent information exchange between deployment front runners**. The project team invites stakeholder to a series of public workshops and webinars to discuss the implementation approaches for V2V and V2I communication applications in the different hot spots, stakeholder roles and responsibilities, preferences, perceived challenges and requirements for strategic decision making.

Through interactive discussion, CODECS develops a **V2I/I2V standards profile, white papers closing gaps in standardisation, and a blueprint for deployment** to ensure the interoperability of systems and services across deployment hot spots.

To give guidance for a future concerted C-ITS roll-out also for later innovation phases with corresponding research, testing and standardisation, CODECS transforms the fused stakeholder preferences in an **aligned use case road map and recommendations for strategic decision making**.

With these objectives, CODECS supports the Amsterdam Group, the C-ITS Deployment Platform of the European Commission, Standards Setting Organisations and other key deployment players to come to a concerted C-ITS roll-out across Europe.

CODECS Partners



CODECS

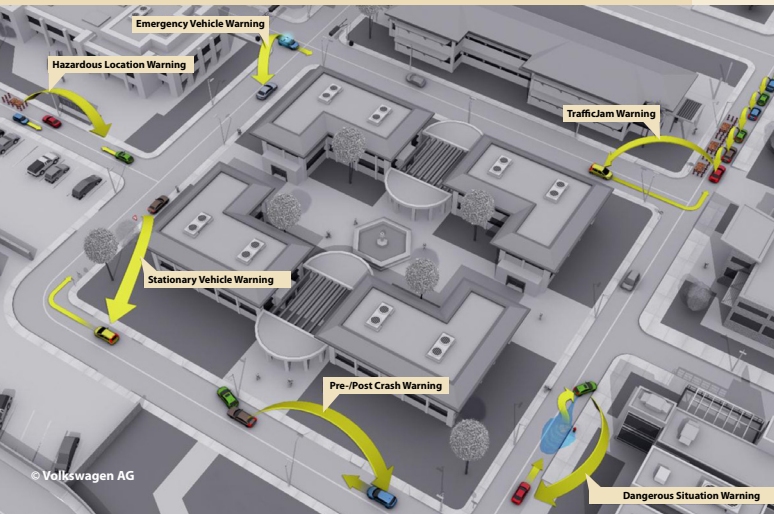
COoperative ITS DEployment Coordination Support



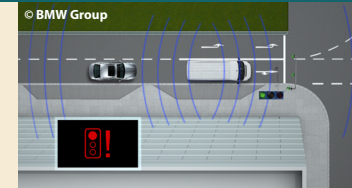
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C-ITS – enhancing traffic safety, efficiency and driving comfort

Vehicles and ITS road side stations wirelessly exchanging data among each other provide traffic participants with a wide array of safety-relevant information and warning services.



These communication processes in a local wireless ad-hoc network (ITS G5) are broadly known as V2V and V2I/I2V communication. They support foresighted driving as they make traffic participants aware of each other's behaviour – to motivate a cooperative comportment and avoid collisions.

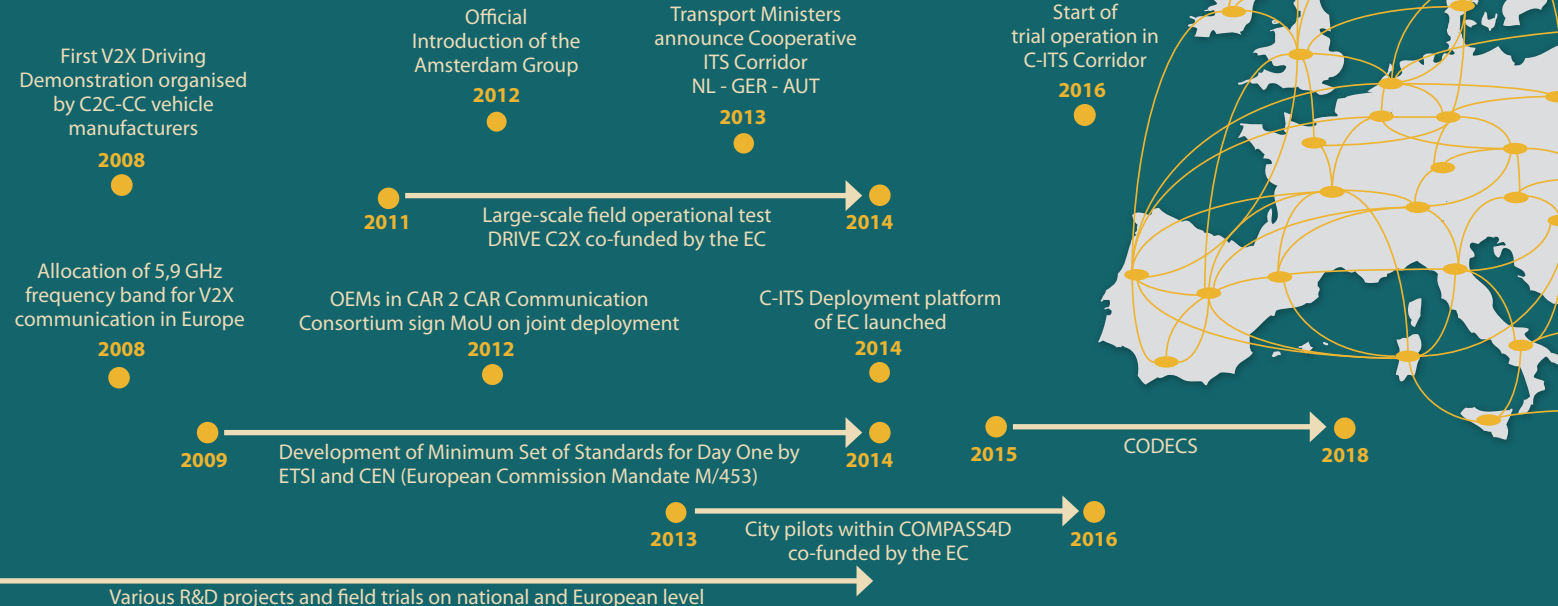


Vehicles equipped with C-ITS on-board units permanently provide data about e.g. their position, speed and driving direction, and about incidents like an emergency brake, a malfunction or the activation of safety-assistance systems. ITS road side stations in traffic infrastructure transmit data about e.g. the signal phases of traffic lights, current speed limits or road works.

By analysing the data basis, cooperative systems get a comprehensive overview on the current traffic situation and possible hazards in real time, and provide traffic participants with information and warnings, immediately affecting them and their driving route, via a human machine interface (HMI).

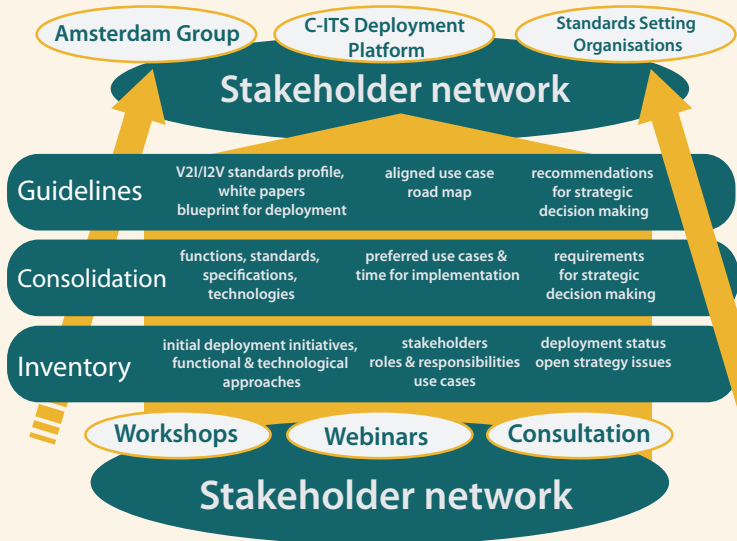
C-ITS in this way unfold wide potentials for supporting safer and more efficient traffic and transport, intelligent traffic management, intermodal travel and transport as well as autonomous driving functions being equally a major trend for future mobility.

V2X deployment preparation in Europe



Join our Network! ...to actively shape future C-ITS-implementation

Bottom-up study logic...



...with the goal of

► coordinating initial deployment activities

...for ensuring the interoperability of systems and services across front runner regions to let end-users experience applications in a coherent manner and quality, with positive effects on the penetration rates

► aligning implementation road maps

...to ensure that C-ITS in vehicles and traffic infrastructure serve the same use cases and to give guidance to research, testing and standardisation future innovation phases.

► giving strategy coordination support

...to bring stakeholder requirements up for discussion in high-level decision making councils

► raising awareness for the idea of cooperative road traffic

...to enhance knowledge and acceptance by the end-users