



European
Commission

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Piloting Cooperative Services for Deployment

Compass4D

Cooperative Mobility Pilot on Safety and Sustainability Services for Deployment

Compass4D pilot project to target the improvement of road safety, increased energy efficiency and reducing congestion for road transport. Compass4D is supported by the European Commission under the Competitiveness and Innovation Programme (CIP).

AT A GLANCE

Project:

Concrete and sustainable deployment of Cooperative Intelligent Transport Systems in 7 European cities aiming to enhance road safety, reduce CO₂ emissions and improve traffic flows.

Project coordinator:

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Partners:

ERTICO (Coordinator), City of Copenhagen, City of Helmond, City of Newcastle, City of Vigo, City of Verona, Region of Central Macedonia, CERTH, CTAG, ESYCSA, EUROTAXI, FIA, GEOLOC, ICCS, Idiada, IFSTTAR, INFOTRIP, IRU, MAT Traffic, MEDDE, PEEK, Siemens, Swarco Mizar, Telecom Italia, TOPOS, TNO, Vialis, Vitrasa, Volvo, V-TRON, UNEW

Duration: 3 years

Total budget: 9.996.000 €

Programme: Competitiveness & Innovation Programme (CIP)

Website: www.compass4d.eu

Compass4D in brief

Seven European cities (Bordeaux, Copenhagen, Helmond, Newcastle, Thessaloniki, Verona and Vigo) have joined forces with the shared objective of substantially improving road safety, increasing energy efficiency and reducing level of congestions for road transport. In order to address these challenges, the cities and industrial partners will jointly implement three cooperative services, Forward Collision Warning, Red Light Violation Warning and Energy Efficient Intersection. These services will be tested over one year of real life driving. Each of the pilot sites includes all the partners for a successful after-project life, from public authorities to infrastructure suppliers and users. The user groups will include commercial users, such as bus, emergency vehicle, truck and taxi drivers, as well as private drivers. The consortium will test at least 334 cooperative vehicles with more than 550 users.

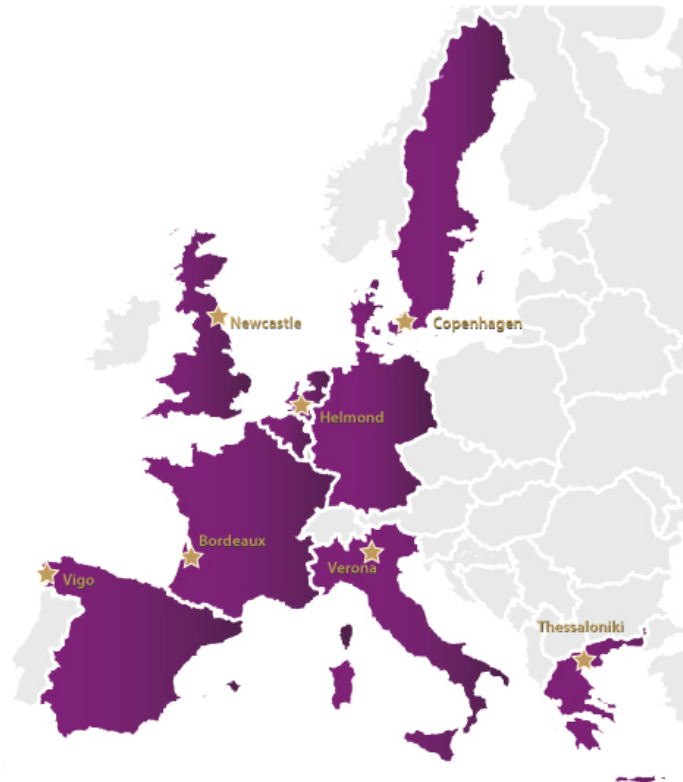
In addition to proving the benefits of its services, Compass4D aims to identify implementation opportunities and to offer solutions to any deployment barriers. Therefore an important part of the work will focus on defining business models, cost-benefit analysis and exploitation plans. Based on proven benefits from the pilot phase, the cities/public road authorities participating in the project will maintain and further develop the infrastructure.

Another aspect that is of crucial importance for effective deployment is the global harmonisation of services. Solid links with US and Japan are already well established by Compass4D partners, both individually and in the wider framework of the EU-US-Japan cooperation. Compass4D consortium will continue to work with these global partners during the all length of the project.

Cooperation with the European Standardisation Organisations ETSI and CEN will be essential towards standardisation which is required, along with the certification framework, for pan-European and global deployment of the services.

Objectives

Compass4D will work with the European cities, road operators, vehicle fleets and all road transport stakeholders to navigate their way to the sustainable deployment of cooperative services.



Services

Forward Collision Warning (FCW) reducing road accidents by warning drivers about queuing traffic or other vehicles suddenly breaking/decelerating ahead.

Red Light Violation Warning (RLVW) reducing the number of red light violations and to minimise the impacts of such violations (such as emergency vehicles crossing).

Energy Efficiency Intersection Service (EEIS) allowing the driver to choose a fuel-saving and comfortable speed profile to cross the intersection efficiently.

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