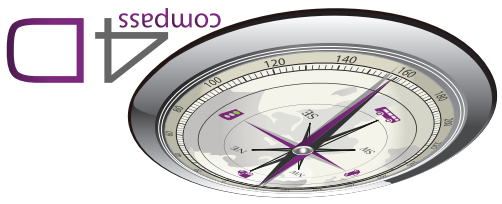
Concrete and sustainable deployment of Cooperative Intelligent Transport Systems in 7 European cities

Piloting Cooperative Services for Deployment

compass4D



About Compass4D

The Compass4D pilot project will implement three ITS services to improve road safety, increase energy efficiency and reduce congestion for road transport. Compass4D services will be piloted for at least one year in seven European cities equipping a total of 334 vehicles.

Duration:

January 2013 – December 2015

Total budget:

9.996.000 €

Partners:

ERTICO (Coordinator), City of Copenhagen, City of Helmond, City of Newcastle, City of Vigo, City of Verona, Region of Central Macedonia, Centre for Research and Technology Hellas - CERTH; Automotive Technological Centre of Galicia - CTAG; Equipos de Señalización y Control - ESYCSA; EUROTAXI; Federation Internationale de l'Automobile - FIA; GEOLOC Systems; Institute of Communication and Computer System - ICCS; IDIADA Automotive Technology; French Institute of Science and Technology, Developments and Networks - IFSTTAR; IMTECH Traffic & INFRA B.V.; INFOTRIP; IRU Projects; MAT Traffic; Traffic, Ministere de l'Ecologie, du Développement Durable et de l'Energie - MEDDE; PEEK Traffic B.V.; PEEK Denmark; Siemens; Swarco Mizar; Telecom Italia; TOPOS Aquitaine; TNO; University of Newcastle; Vialis; Vitrasa; Volvo; V-TRON.

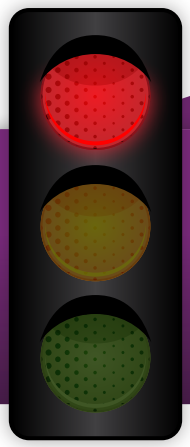
Find out more

Visit Compass4D website: **www.compass4d.eu**

Contact Compass4D coordinator: **Pierpaolo Tona, p.tona@mail.ertico.com**

Follow Compass4D on twitter: **@Compass4D**

Compass4D Services

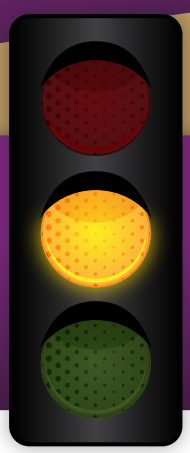


Red Light Violation Warning

This service will increase drivers' alertness at signalised intersections in order to reduce the number and severity of collisions.

The RLVW service will also address situations involving emergency vehicles, such as alerting other vehicles at relevant crossroads.

One advantage of the RLVW service is that it can react before, rather than after, an event occurs because it uses infrastructure-to-vehicle communication instead of conventional repressive solutions.

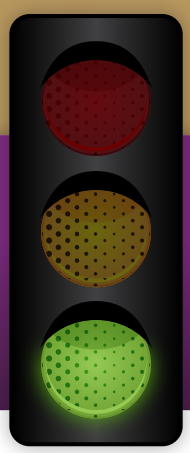


Road Hazard Warning

This service will reduce the number and the severity of road collisions by sending drivers warning messages which will raise their attention level.

It will be also be able to inform drivers of the most appropriate behaviour in regards to the hazards they face.

The advantage of the RHW service employing infrastructure-to-vehicle communication is twofold. The use of cooperative technology instead of expensive vehicle-sensors, enables many more vehicles to be informed of road hazards. Also, the service would only need a minor market penetration in order to have a positive impact since the hazards would be detected and announced by the infrastructure.



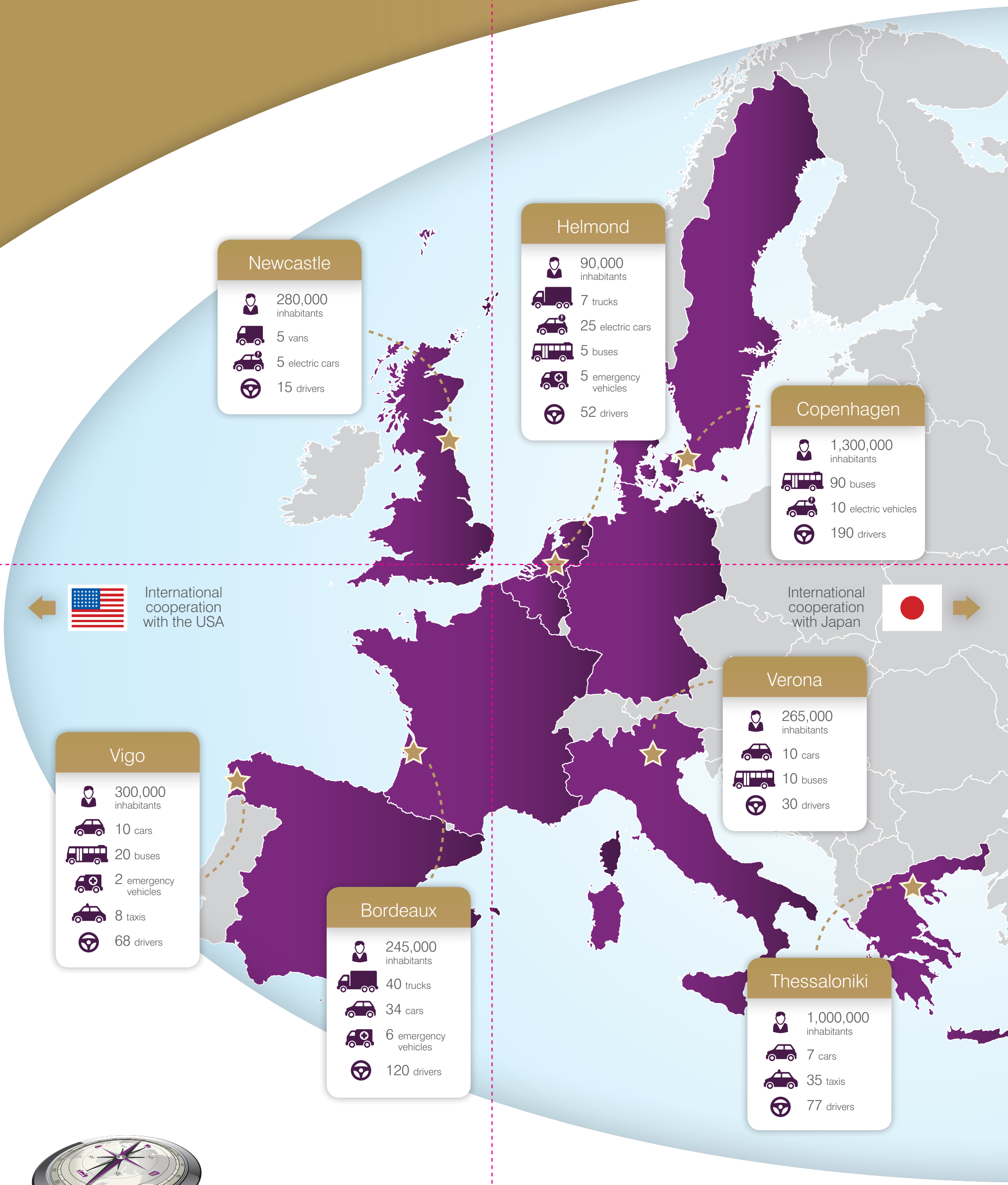
Energy Efficiency Intersection

This service will reduce energy use and vehicle emissions at signalised intersections.

The major advantage of the cooperative EEI service using infrastructure-to-vehicle communication is the availability of 'signal phase and timing information' (SPaT) in the vehicle. Presenting this information to drivers enables them to anticipate current and upcoming traffic light phase and adapt their speed accordingly.

Moreover, different levels of green priority can be used depending on the vehicle type (e.g. HGV or emergency vehicle) and status (e.g. public transport vehicle on-time or behind schedule).

Compass4D cities



Newcastle

- 280,000 inhabitants
- 5 vans
- 5 electric cars
- 15 drivers

Helmond

- 90,000 inhabitants
- 7 trucks
- 25 electric cars
- 5 buses
- 5 emergency vehicles
- 52 drivers

Copenhagen

- 1,300,000 inhabitants
- 90 buses
- 10 electric vehicles
- 190 drivers

International cooperation with the USA

International cooperation with Japan

Vigo

- 300,000 inhabitants
- 10 cars
- 20 buses
- 2 emergency vehicles
- 8 taxis
- 68 drivers

Verona

- 265,000 inhabitants
- 10 cars
- 10 buses
- 30 drivers

Bordeaux

- 245,000 inhabitants
- 40 trucks
- 34 cars
- 6 emergency vehicles
- 120 drivers

Thessaloniki

- 1,000,000 inhabitants
- 7 cars
- 35 taxis
- 77 drivers

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