

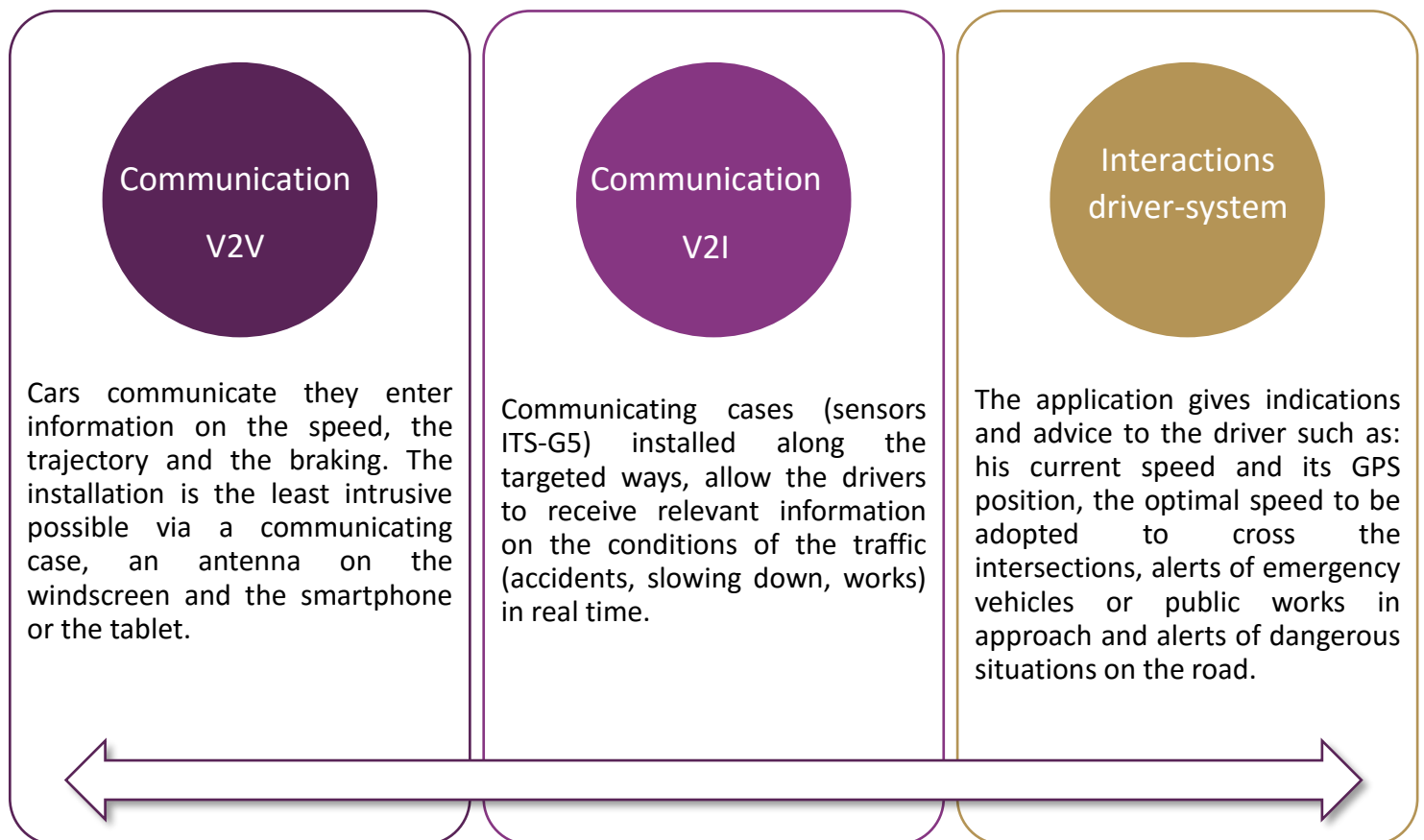


The Cooperative Intelligent Transport Systems (C-ITS) represent today a domain in full excitement in the sector of transport. The C-ITS allows the vehicles to communicate with the other vehicles (V2V) and with the road infrastructure (V2I). The C-ITS services also notify the driver on the attitude to be adopted in specific situations.

The Compass4D services were put to the test during one year in seven cities: Bordeaux, Copenhagen, Helmond, Newcastle, Thessalonica, Verona and Vigo. Before the experimental operations, the phase of implementation lasted more than year and is the result of a teamwork involving all the partners of the consortium. Geoloc Systems is in charge of the experimental site of Bordeaux. This program concerns 120 drivers in Bordeaux :

- ⌋ Bordeaux Métropole,
- ⌋ SDIS33,
- ⌋ Mairie de Bordeaux,
- ⌋ GT Location,
- ⌋ Geodis,
- ⌋ Stef,
- ⌋ CEREMA Dter Sud-Ouest,
- ⌋ DIR Atlantique

HOW?



GOALS AND BENEFITS

« The cooperative systems join the era of "quite connected" and allow unmistakably to improve the experience of driving for the road users. The C-ITS also allows to impact positively on the quality of the urban services, as long on the redundancy, economic plans, that environmental.» André PERPEY, CEO at Geoloc Systems.

Goals

Improve road safety

- Information on the state of traffic lights.
- Information about accidents in the real time.
- Alert public and emergency transport vehicles in approach and in intervention.

Optimize the management of the fleets and the freight

- Optimization of the time of delivery.
- Reduction of the consumption of fuel and costs in energy.

Join a logic of sustainable development

- Start/stop idling and shear thinning of main highway.
- Reduction in the energy consumption, the pollutant emissions in town and the CO2 impact.

Benefits

Reduction of the accidents and their severity
Decrease of the bottlings

Positive impact at the levels:
Economic
Social
Environmental

Estimation of the reduction of fuel of 10 %

Encouragement of the international cooperation

- Use of short-range communications dedicated (ETSI G5) and of cellular networks (3G, LTE) by adopting the standards ETSI TC ITS.
- Implementation of a link between the road events with the European standard DATEX 2 and the standard STI-C DENM for the management of events.

OUR EMBARKED SOLUTIONS

GLOSA



Green Light Optimal Speed Advice is a service which indicates to the driver the optimal speed permitting to have a green light. It is quite easy, when your car is about 300 meters away from the traffic light, it will send the speed advice at which you should drive in order to reach the light at green. Like this, you will consume less fuel, CO2 and your global driving time will be lower. This information is provided through an intuitive smartphone application.

START/STOP IDLING

When your car stops at a red light and it is equipped with the start/stop idling option it is sometimes frustrating to have to re-start the engine just a few seconds after you stopped. Furthermore, stopping the engine is profitable if it lasts more than 7 seconds. Our smartphone application will tell you if it is worthwhile to cut the engine. This will be the case if the time to green is superior to 7 seconds.



EMERGENCY VEHICLE ALERT



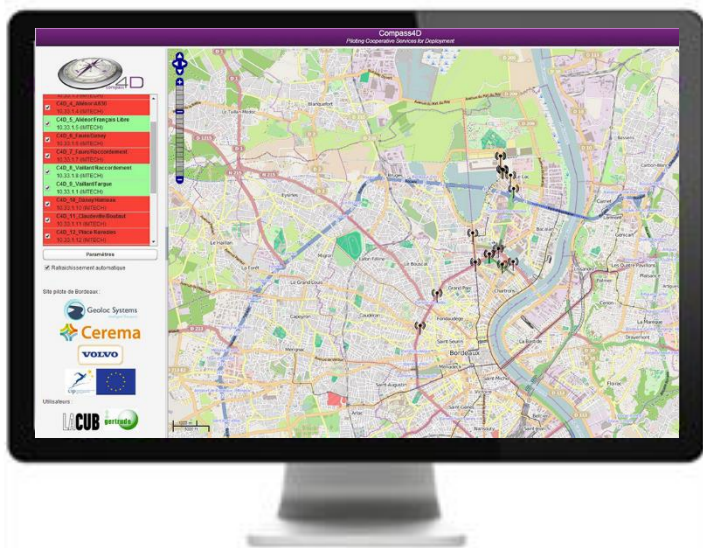
When an emergency vehicle belonging to the fire department from Bordeaux and equipped with Compass4D approaches and is on intervention it will send an alert signal which can be received by another vehicle equipped by Compass4D. An alert message saying that an emergency vehicle is approaching will appear on the smartphone.

ROAD EVENTS ALERT

You will receive in real time road events located on the ring road of Bordeaux. Accidents, traffic jams, roadworks, incidents, weather events are part of the numerous types of events managed and provided by the Traffic Management System TIPI managed by the CEREMA dTerSO and the French Ministry of Transport (Medde). The smartphone application proposes 3 views (map view, radar view and proximity event alert).



OUR SOLUTION OF MONITORING & MANAGEMENT



The FULLWEB platform permits the management and supervision of all the elements used for the operation of cooperative systems in Bordeaux. Especially the supervision of the Road Side Units and On Board Units but also the connections with the different data servers like TIPI for the road events and GERTRUDE for the information concerning the traffic lights. Another module permits the management of statistics and the evaluation of the efficiency of the system.

THE CONSORTIUM

Consortium



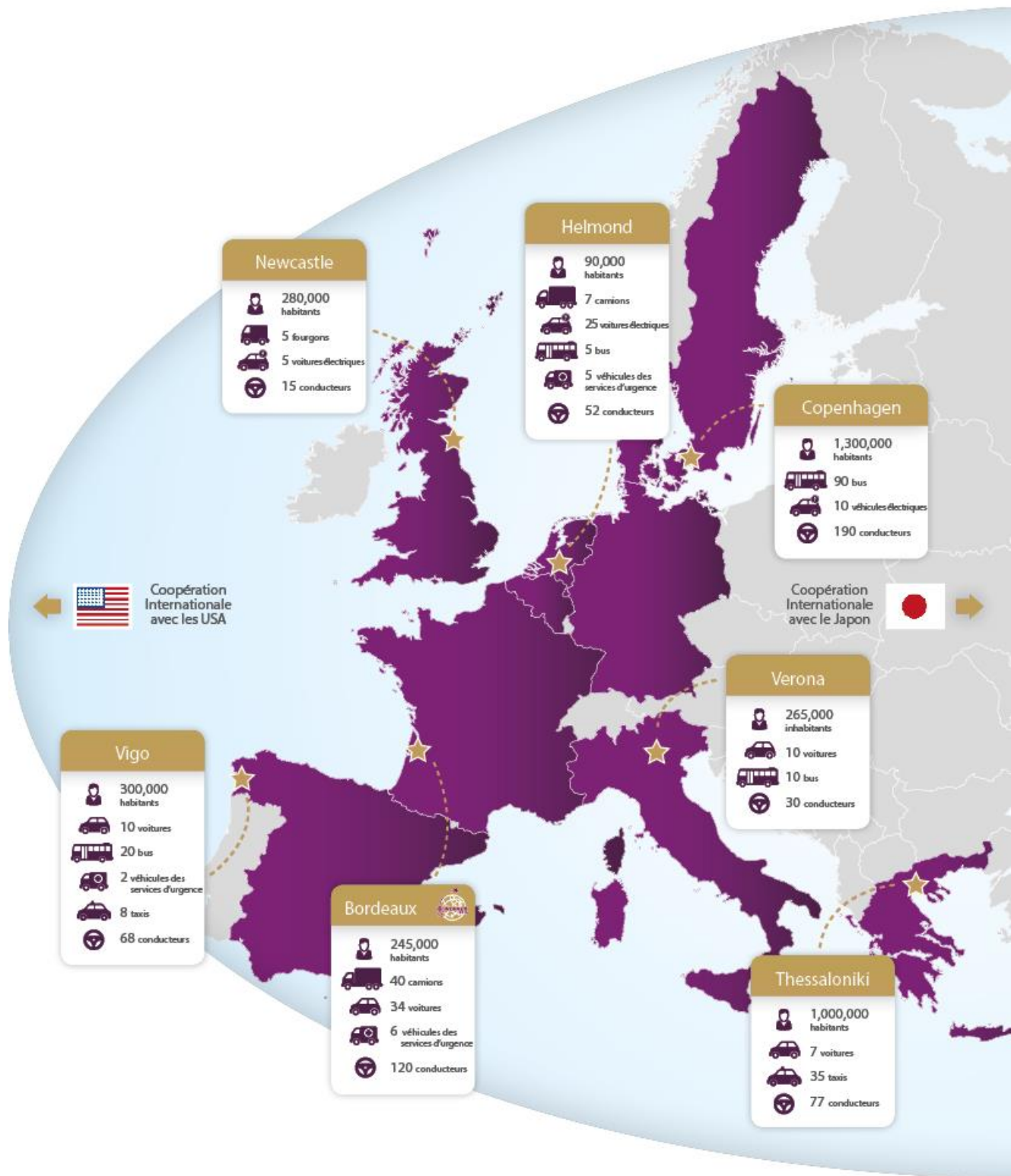
Associated Partners



Associated Cities



Geoloc Systems and Bordeaux city participate since 2013 in the European operation Compass4D, with six other European cities.

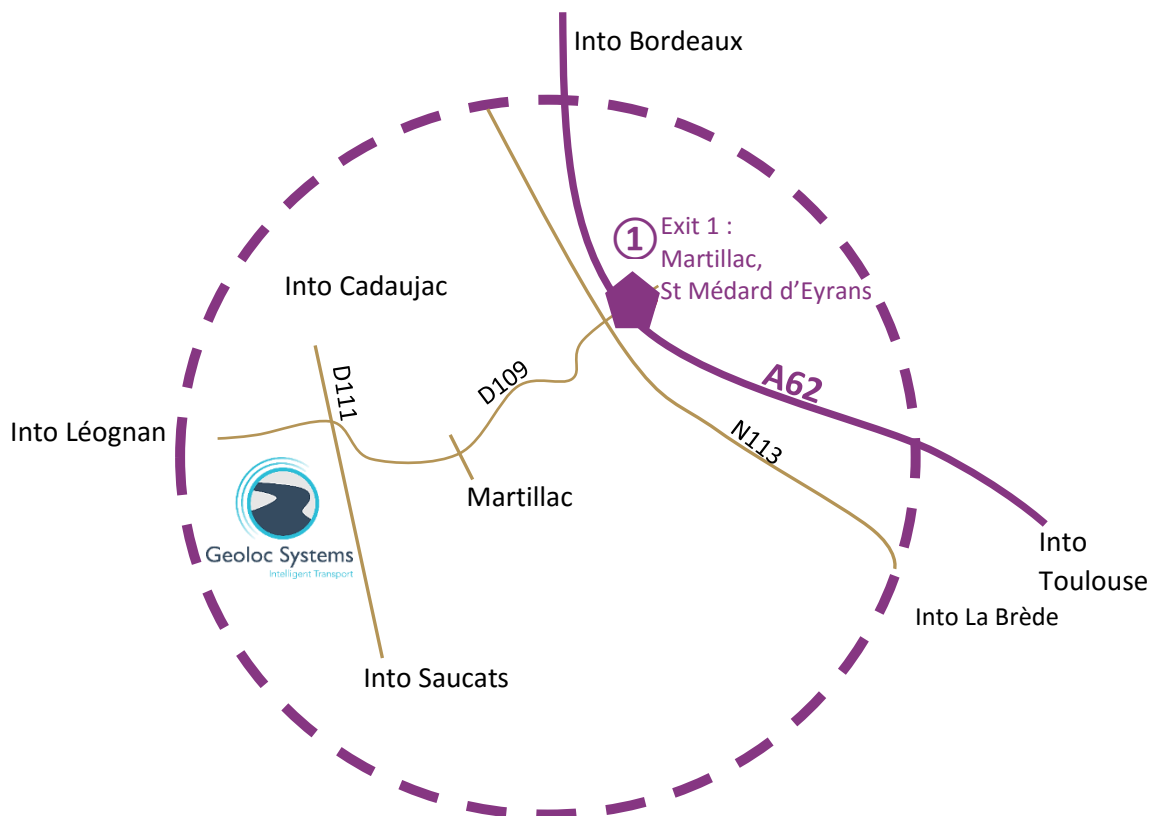


In October, 2015, the partner of Compass4D decided to continue to run the C-ITS services in 2016-2017, beyond the duration of the project financed by the EU and for at least one year, with the objective to pass of a pilot project towards a large-scale deployment of a been self-financed market.

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L'avenir sur le terrain