



## Search for Partners

*Modular ITS platform providing innovative services with real-time dynamic information to enhance road users' driving experience in terms of comfort, safety and energy savings*

Last update: 17/02/2014

## Business Offer

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### **Organisation**

Please contact us for more information about the consortium

### **Business Area**

Intelligent Transport Systems (ITS)

### **Technology / Market**

Electronics, Telecom, Car-to-car communication, Car-to-infrastructure communication

### **European Action Idea**

The consortium aims to implement an ITS platform “to facilitate the movement of road users in urban and suburban areas” by way of transmitting real-time dynamic information to optimise their travel.

Road users will be provided by a communication systems, such as smartphone, vehicle display or voice synthesis, with recommended driving options to better match road conditions while enhancing their driving experience in terms of comfort, energy savings and safety (especially in the event of an emergency). Vehicles will feature smart sensors, like video cameras and radars, to allow the in-depth analysis of their location and immediate environment, and will be connected in order to transmit real-time data to a central system. In return, road users will receive tailor-made information to guide their movements and support an efficient and safe driving.

Dynamic information will be specific to its route and nearby environment. The ITS platform will require data enrichment and processing throughout the seamless communication process.

### **Targeted Call for Projects**

HORIZON 2020 / MG.3.5a-2014 “Cooperative ITS for safe, congestion-free and sustainable mobility”

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2632-mg-3.5a-2014.html>

Closing Date: 18/03/2013 (2 stages)

Type: Research and Innovation Action

### **General Background**

As today's societies increase their demand for connectivity, the vehicle becomes a mobile device that is asked to link road users to the world around them. The benefits of connectivity shall be enlarged to address road safety, congestion and eco-driving issues by combining various sources of data (vehicles / infrastructure) with powerful, smart data processing and IT solutions alike.

ITS can provide road users with interactive information that will improve their journey in terms of traffic management, energy consumption and pollution, like best dynamically route choice, car park-related services such as available parking spaces in the area of destination, dynamic information about traffic delays or road works, suggestion of alternative routes, road accident alert system, location and booking of available charging stations for alternatively fuelled vehicles like electric cars, guidance to eco-driving behavior, etc.

The modular ITS platform shall be built upon the open system already developed and installed in France by some partners of the consortium. However, it needs to be enriched with software modules providing additional services in conjunction with intelligent embedded or road infrastructure systems. The overall approach is an integrated system with multimodal interfaces.

## Expected Partners

In order to finalise the proposal under development the consortium is looking for research laboratories and private businesses, especially SMEs, with an expertise at least in one of the following topics:

- Vehicle mobile communication (VANET);
- Artificial intelligence;
- Data and image processing;
- Human language technology;
- Radar detection technology;
- Electronic engineering;
- Real-time simulation;
- DATEX 2 standard;
- Software development;
- HMI and ergonomics.

Pôle Véhicule du Futur automotive / mobility cluster has an extensive experience of European Actions and will assist the consortium in developing the project proposal in conjunction with other European partners.

## Contact

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### European Actions with Pôle Véhicule du Futur

Pôle Véhicule du Futur is one of the leading automotive / mobility clusters in Europe. It was founded in 2005 and is located in the Eastern part of France. It acts as a non-profit organisation for the benefit of its 265 cluster members, mainly industrial players.

The cluster's overall objective is to create solutions for tomorrow's vehicles and mobility with a view to achieve sustainable development and job creation in Alsace and Franche-Comté regions.

Pôle Véhicule du Futur addresses 4 strategic business areas in the development of collaborative research projects:

- Energy and Propulsion;
- Materials and Life Cycle;
- Infrastructure and Car-to-X Communication;
- Mobility Services.

Since 2005, Pôle Véhicule du Futur helped 109 innovation projects to get funding, for a total budget of 318 M€, including 20 European projects (FP7, INTERREG, EUROSTARS...).

[www.vehiculedufutur.com](http://www.vehiculedufutur.com)

## Contact

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