Research & Development Request

H2020: Next Generation Navigation System by exploiting real-time crowdsourcing of transport and sensory data

Summary

Greek company active in environmental consulting and IT services is looking for partners (research institute, SME and Municipality), in order to submit a proposal under the H2020 Mobility for Growth (MG) topic: Demonstrating and testing innovative solutions for cleaner and better urban transport and mobility. The project aims to demonstrate under real-life conditions an innovative mobility solution for environmentally-aware mobility management, by exploiting real-time crowdsourcing of transport.

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Reference RDGR20140506002

Details

Description

According to the call the specific challenge of the action is to address the transport-related difficulties that many Europe's urban areas are facing. The project objective is to demonstrate and test, under real-life conditions, an innovative mobility solution for environmentally-aware mobility management. The project will introduce the Next Generation of Navigation systems, by exploiting real-time crowdsourcing of transport and sensory data, combined with cloud services, advanced mobile technologies and high-precision GNSS-assisted navigation. The project will take advantage of recent innovations used in smart phone applications, crowdsourcing and sensor technologies, in order to develop an extensible, scalable architecture that will facilitate citizens' engagement in monitoring of urban environment and promotion of environmental sustainability. These technologies will be empowered by affordable and easy to use networks of environmental sensor mechanisms for management, process, interpretation and exploitation of environmental data, for the empowerment of decision making at local level. The role of the Greek company in the consortium will be to enhance conventional navigation and mobility devices with environmental capabilities, making them able to measure a number of environmental parameters such as CO2/CO data, light, humidity, temperature and air quality and produce environmental information valuable for mobility awareness. The Greek company is looking for a research institute specialising in impact assessment of the demonstration as well as an SME, which will technically support the pilot operation and a municipality, which will establish a living laboratory where the innovative mobility solution can be implemented.

Stage of Development

Proposal under development

Keywords

Technology

001003003	Applications for Transport and Logistics
001003006	Environment Management Systems & Documental Management Systems
001005008	SatelliteTechnology/Systems/Positioning/Communication in GPS - Global Positioning System

Market

001005001	Satellite services/carriers/operators

NACE

H.49.3.1	Urban and suburban passenger land transport
H.49.3.9	Other passenger land transport n.e.c.

Network Contact

Issuing Partner
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Dissemination

Send to Sector Group
Automotive, Transport and Logistics

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2000

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

Yes

Certification Standards

Langages Spoken

English
Greek
French
Spanish

Client Country

Greece

Partner Sought

Type and Role of Partner Sought

The Greek company is looking for three different partners: Research insitution, an SME and a Municipality. In detail: - Type of Partner Sought (1): Research Institution -Specific Area of Activity of the Partner (1): Experience in urban planning and policy is required. Task to be performed by the partner sought (1): The partner will perform the impact assessment of the demonstration and formulate policy recommendations. - Type of Partner Sought (2): SME -Specific Area of Activity of the Partner (2): Experience in information / mobile technologies is required. Task to be performed by the partner sought (2): Technical support of the pilot operation in China, setup mobile devices, collect and process data. - Type of Partner Sought (3): Municipality -Specific Area of Activity of the Partner (3): Municipalities with a population higher than 5 million will be preferred. -Task to be performed by the partner sought (3): The partner will establish a living laboratory, where the innovative mobility solution can be implemented.

Type of Partnership Considered

Research cooperation agreement