

Research & Development Request

Horizon 2020 call SCC1 partner search: Creation of integrated mobility environment (lighthouse project) using Mass Transit, Electric Vehicles (bikes and/or small four-wheelers), Photovoltaic generation and Smartphones.

Summary

The project proposed shall allow commuters of the greater Athens area to use the sub-urban railway and other mass transport media and shared electric vehicles (two or four wheelers) to reach their destination in the centre of the city using minimum footprint vehicles and producing zero emissions. Partners sought are other European cities interested in the lighthouse project and related technology providers. A proposal will be submitted under Horizon 2020 SCC-1-2015. Deadline for EoI's: 3/02/2015.

Creation Date	28 April 2014
Last Update	20 May 2014
Reference	RDGR20140228001

Details

Description

An initial agreement has been reached by the City of Athens and other five Greek organisations, institutes and SMEs to propose Athens as one of the lighthouse municipalities to be considered under SCC-1-2015. The project proposed shall allow commuters of the greater Athens area to use the sub-urban railway and other mass transport media and shared electric vehicles (two or four wheelers) to reach their destination in the centre of the city using minimum footprint and producing zero emissions. By using their smartphones and suitable software the citizens will be able to have an electric bike (or small electric car) allocated to them at suburban railway stations and other key locations of Athens of their choice for travelling to their end destination. A mobile payments platform will be used for the transactions which shall cover both the railway fare and the rental of the electric vehicle. Electric vehicles will be parked in bespoke shelters and will be charged by photovoltaic panels installed on location. The system will be based on a combination of existing technologies (electric bikes/small cars, PV cells, smartphones) and will have a positive impact on the city environment in terms of the traffic, air quality and energy demand.

Technical Specification or Expertise Sought

Looking for cities that would be interested in becoming partners, as well as research institutes/organisations that could act as scientific coordinators in the proposal.

Stage of Development

Concept stage

Keywords

Technology

001005003	Mobile Communications
002009004	Road Vehicles
002011002	System and transportation

Market

003003	Power Supplies
006005014	Photovoltaics
006015	Energy for Transport

NACE

C.30.9.2	Manufacture of bicycles and invalid carriages
H.49.3.1	Urban and suburban passenger land transport
M.71.1.2	Engineering activities and related technical consultancy

Network Contact

Issuing Partner

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Dissemination

Send to Sector Group

Intelligent Energy

Restrict Dissemination to Specific Countries

Austria,
Norway,

Belgium,
Spain,

Finland,
Sweden,

France,
United Kingdom,

Germany,

Italy,

Netherlands,

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

1987

Already Engaged in Trans-National Cooperation

Yes

Langages Spoken

English
German

Client Country

Greece

Partner Sought

Type and Role of Partner Sought

Due to the requirement of at least three municipalities and at least three participating countries the Greek team seeks other European city partners to team up and submit a common proposal. Due to its comprehensive setup and specialized human resources would be an ideal partner for any major candidate for this attractive Call.

Type and Size of Partner Sought

>500

Type of Partnership Considered

Research cooperation agreement