

Telecomunicazioni

# PARTNER SEARCH PMI7-EU-BSGSME-8

01 dicembre 2017

Oggetto: PARTNER SEARCH PMI 7-EU-BSGSME-8

Richiesta di impresa francese alla ricerca di partner italiani da includere in un loro progetto da presentare nel programma CAPACITIES tematica RICERCA PER LE PMI

Di seguito, una breve descrizione del progetto e le caratteristiche del partner richiesto.

Per informazioni sul progetto contattare [tegas@apre.it](mailto:tegas@apre.it) facendo riferimento al codice PARTNER SEARCH PMI7-EU-BSGSME-6

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<Reference n.: PMI7-EU-BSGSME-6>  
<Deadline: 04/09/2007>  
<Programme: CAPACITIES>  
<Project Title: Long Range FSO for telco networks>  
<Financial Scheme: >

<Description: Considering Free-Space Optics (FSO) state of the art, the objective of this proposal is to identify and solve the main technical challenge through appropriate technology/network design and planning in order to meet telco networks requirements. Due to the use of light rather to radio spectrum, the key benefit of optical wireless is to be totally free of license restriction. As a wireless solution, it bypasses the regulatory and construction problems that dog copper and cable connections. As a result, optical wireless is the one broadband internet solution that can be deployed immediately. The object of

the proposal is to get over the hindrances of the current FSO system when dealing with long range application namely in the 3-5 km range. The main technical challenges being on one hand, the reduction of performances due to atmospheric conditions: beam wander (turbulence), beam spreading, absorption, and on the other the alignment issues (building sway, seismic activity,) that will strive on pointing and tracking systems. Project will include design, prototyping and field trials. Duration should not exceed one year.

#### Key Words

Free Space Optics, mobile telecom, core network, last mile access>

<Organisation Type: Impresa>

<Partner Sought: Partner Profile Sought:

#### Required Expertise

There are already three partners in the proposal :

- o (leading the project)
- o ONERA (French Aeronautics Research Agency)
- o FOI (Swedish Defense Research Agency)

We are in search of 3 other partners (One mobile or fixed telecom operator and two SME's partners) who are willing to do research and/or to acquire or enhance their know-how as FSO equipment end-users.

Two types of profile are requested for the SMEs: network planning software editor, telco network integrator. We will give preferences to Southern European located partners, others being not excluded.

#### Work to be carried:

The requested partners should be able:

- o To contribute to specifications overall definition (equipment, installation, network management) and validation process)
- o To improve state of the art of network planning tools when considering FSO technology
- o To contribute to field trials operations
- o To contribute to results delivery and dissemination>