

## Expression of Interest / Partner offer

FP7 Call:	<b>FP7-SPACE-2012-1</b> <b>9.1.1. Space-based applications at the service of European Society</b> SPA.2012.1.1-01 Testing and validating the intelligence-driven and high time-critical scenarios of the CONOPS
Company Name:	EMA d.o.o.
Address:	Mariborska 1, 3000 Celje, Slovenia
Tel:	+386 3 42 84 800
Website:	www.blutraker.com
Brief Description:	SME, with the following relevant activities within the context of the project: <ul style="list-style-type: none"> <li>• AIS – Automatic Identification system</li> <li>• VMS – Vessel Monitoring System</li> </ul>
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Topics within SPA.2012.1.1-01	1) Tracking vessels on the high seas 2) Punctual monitoring of selected neighbouring third-country ports and coasts
Topics within the Document: Application of surveillance tools to Border Surveillance »Concept of Operations««	5.1 Maritime phases 5.1.1 Maritime surveillance – Phase 1 Platform/sensor selected: <ul style="list-style-type: none"> <li>- Satellite</li> <li>- Transponder based (AIS, LRIT)</li> </ul> 5.2 Maritime surveillance – Phase 2 & 3 Platform/sensor selected <ul style="list-style-type: none"> <li>- UAV – Unmanned Aerial Vehicles</li> <li>- Visual spectrum camera</li> <li>- Infrared camera</li> <li>- Transponder based (AIS); additional</li> </ul> 5.3. Maritime Surveillance – In designated area <ul style="list-style-type: none"> <li>- UAV- Unmanned Aerial Vehicles</li> <li>- Visual spectrum camera</li> <li>- Infrared camera</li> <li>- Transponder based (AIS); additional</li> </ul>
Role in the project:	SME, performing R&D activities SME, performing DEMO activities

# enterprise europe

## Partner Search

### 1. Call Information

<b>Call for proposal</b>	FP7-SPACE-2012-1
<b>Topic</b>	9.1.1 Space-based applications at the service of European Society/Preoperational validation of GMES services and products
<b>Funding Scheme</b>	Collaborative Project (Small or medium scale focused research project)
<b>Deadline</b>	23 November 2011
<b>Internal Deadline</b>	30 October 2011

### 2. Target Partner

<b>Target Partner</b> <i>(Research Institute University...)</i>	Maritime Faculty Maritime Research Institute IT Faculty/ Research Institute
<b>Partner profile sought</b> <i>(further description of the requested partner)</i>	Maritime Legislation Software programming
<b>Preferred countries EU</b>	
<b>Role of the partner within the project</b>	Project Leader R&D partner
<b>Partners already involved</b>	EMA, Slovenia

### 1. Project Information

**Project Title: SatAIS**

**Abstract of the project** (max. 500 characters):

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**What do we want to achieve?** With this project we want to improve all AIS system (Automatic Identification System) technical characteristics. This system is designed to send position and characteristic data about the ship, directly from the ship via VHF, sending this information to other ships and AIS base stations. AIS is mandatory equipment for all ships over 300 GT, sailing on international seas.

Satellite device will be integrated with AIS system and will take up transferring data when AIS land base stations will not be receiving data from the ship anymore. AIS land base stations are not receiving data from the ship as VHF data transfer is limited to data transfer of AIS transponder (maximum 40 nautical miles/70 km).

**What is SataIS project?** Main mission of the SataIS pilot project is to figure out how the integrated system - Satellite and VHF communication devices work together in practice.

With the development of electronics, international organizations (particularly IMO- International Maritime Organization, which is under United Nations) have started with procedures for increasing safety on sea. This is how the SSAS (Ship Security at Sea) system has been created – SSAS system is the alarm system, which enables sending SOS messages (accident, terrorist and pirates attack,...) via the satellite connection.

Rapid development of technology enables continuing improvement of communication devices. At EMA we are going to develop electronic communication devices, which will upgrade existing systems for displaying AIS data that are in use at the moment.

**System components** Core system components include: AIS transponder, satellite communication device BlueTraker and special graphical application to display movement of the ship.

### **Acquisitions**

- Global tracking of ships, without the requirements and needs to report position with other means of communication. (AIS is visible only close to shore).
- Automatic transmissions in periodical intervals defined in advance.
- Integration of the radio and satellite communications technology.
- Additional functionalities added to the existing technology at minimal cost.
- Automatic transmission of ship positions in danger situations (loss of communication with the ship, ship hijacking).
- Increased safety of navigation (the ship is always visible).
- In areas where the threat of piracy (the coast of Somalia) exists, the ship AIS transponder is switched off to become "invisible" to pirates. The SAT AIS system remain visible client service since satellite tracking takes place on. Thus, locating the ship itself and rescue of kidnapped ship becomes much easier. A system becomes a supplement to SSAS alert system.

Further Information

*Please, describe or add important information about your project idea / proposal.*