

**Short presentation of an expertise profile for the
5th call Space in FP7**

Space and Solar-Terrestrial Research Institute
SSTRI-BAS
Bulgaria



COSMOS Matchmaking Event
18th March 2011, Sofia, Bulgaria

Draft Call Topics that we are interested in*

Space-based applications at the service of European Society (GMES)

- ***Pre-operational validation of GMES services and products***
 - Testing and validating the intelligence-driven and high time-critical scenarios of the CONOPS
 - Tracking vessels on the high seas
 - Punctual monitoring of selected neighbouring third-country ports and coasts
 - Testing and validating the low time-critical components of the CONOPS
 - Punctual monitoring of selected neighbouring third-country ports and coasts
 - Situation monitoring of the pre-frontier area at the external land borders
 - GMES Security – Support to EU External Actions
 - Support to emergency response management
 - Preparing take-up of GMES Sentinel data
- ***Support to the coordinated provision of observation data***
 - Research and development for In-situ component
 - Climate Change – GMES service coordination
 - Consolidation of user requirements for GMES

Strengthening the foundations of Space science and technology (SSF)

- ***Research to support space science and exploration***
 - Exploitation of space science and exploration data
- ***Research to support space transportation and key technologies***
 - Key technologies enabling observations in and from space
 - Key technologies for in-space activities

Cross-cutting activities

- ***SME specific research***
 - Bringing terrestrial SME research into the space domain
- ***Studies and events in support of European Space Policy***
 - Studies and events in support of European Space Policy
 - Research agenda definitions and research activity road-maps
 - New emerging research needs - reduction of vulnerability of space infrastructure

*Please chose the topics from the list, erase the others and adapt the letter size ²adequately.

Presentation of **the organisation***

- Structure of the organisation
- Short history of the organisation and / or working group
- Experience with the EU Framework Programme

Competencies

- Software development,
- IS/GIS Software Training,

- Reference projects
 - GIS for Ministry of Regional development and Public Works
 - IS/GIS for Bulgarian Society for the Protection of Birds
 - eGIS, eGIS+ Leonardo da Vinci projects

Intended Role in a Consortium

- Coordinator / partner
 - Work package leader (**which work package?**)
 - End user / market access
 - ...

Contact and further information

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GIS for Ministry of Regional Development and Public Works

<http://gis.mrrb.government.bg/MRRB/> - Online WEB GIS developed for Ministry of Regional Development and Public Works

System is Developed in four years under the Security Direction part of Ministry of Regional Development and Public Works. At the moment six subsystem make system operational in wide range of tasks inside and outside ministry.

Fully operational WEB based IS/GIS for Ministry of Regional Development and Public Works.

Designed and build according ISO/OGC SOA standards. Open Source based using series of tools and libraries around Python and C brunch of software. As base RDBMS was used PostgreSQL/PostGIS, As essential universal translator was used GDAL/OGR. Specific tools for data handling of local formats was developed through development process.

- Land Slide System

Internal IS/GIS for BSPB

<http://78.90.16.151:8111/> - Geographic Information System with Ornithological Information of BSPB

Internal IS/GIS for Data Collecting, Management, Querying. Several OGC/ISO Standards are implemented as WMS, WFS, WCS, GML, KML. SOA and XML are realised.

Multilingual system with two languages by now for all valuable information in Bulgarian and English.

The System is developed for 11 months using Open Source software and tools as Python, GDAL, PostgreSQL/PostGIS.

Data overview

More than 65 000 complex observation of birds for last 10 years in whole Bulgaria are stored with more than 220 000¹³ single bird observation description in 4000 point of observation

eGIS+

<http://www.e-gis.org/>

eGIS+ is Leonardo Da Vinci project for vocational training.
There are 10 partners from 8 Europe Countries.

