

Institut "Jožef Stefan"

**GMES Operational Capacity Workshop
Sofia, Bulgaria, 25 – 26 March 2009**

Institut "Jožef Stefan"

GMES AND EARTH OBSERVATION ACTIVITIES IN SLOVENIA

Institut "Jožef Stefan"

BORIS PUKL, PhD

**Member of the Programme Committee Space (FP7)
and Slovenian Space NCP**

CONTEXT

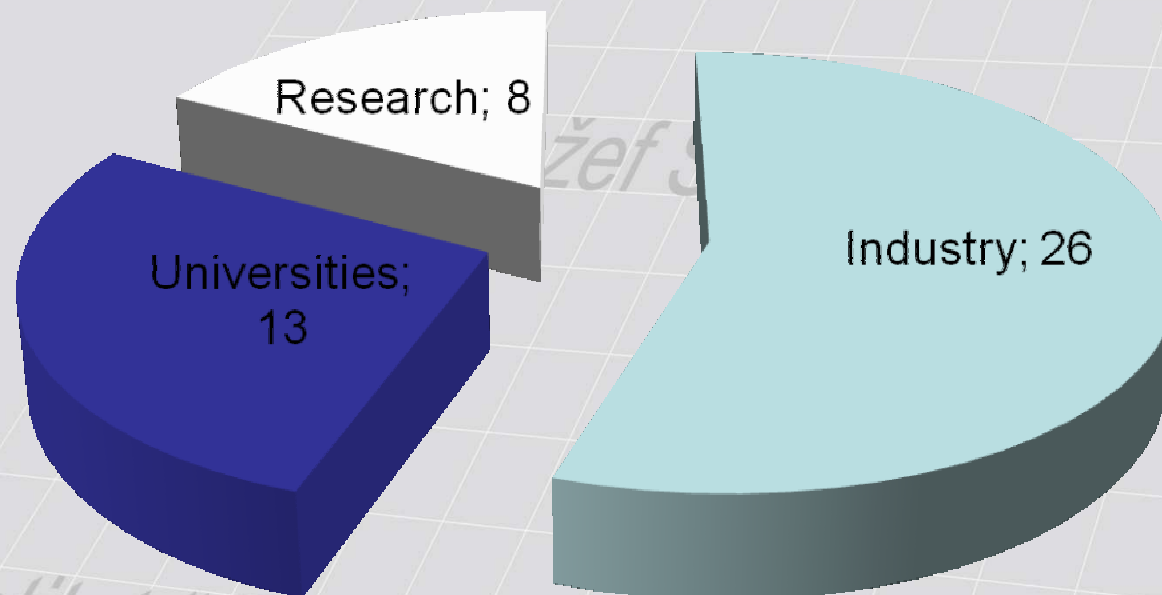
- Slovenia does not have tradition in space activities, nor experience in this field from the past;
- Slovenia is not yet a member of the European Space Agency ESA;
- Slovenia does not have specific institutions in the field of space (national space office, national space agency or similar);
- Slovenia does not have specific research or similar programmes in the field of space;

However it has recognized and is aware of the growing importance of space activities and GMES for the social and economic growth, as well as for the development of (new) high technologies, new services and for the global security.

INSTITUTIONAL SETTING

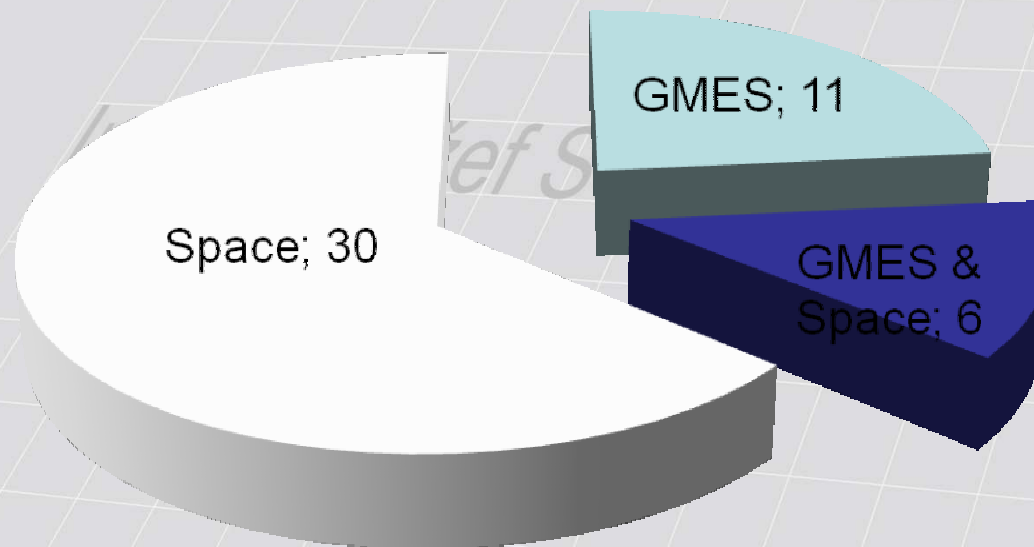


KEY PLAYERS IN SPACE ACTIVITIES



Total: 47

KEY PLAYERS BY TYPE OF ACTIVITY



COOPERATION WITH ESA

- On 22 January 2010 the Republic of Slovenia signed the Agreement with the European Space Agency (ESA) in Noordwijk in the Netherlands and obtained the status of European Cooperating State.
- Slovenia's status as the Participating Country in ESA is an opportunity for industry and knowledge institutions.
- The acquired status will enable the Slovenian companies and research institutions to collaborate with ESA and participate in its projects and programmes.
- The new collaboration with ESA will also require that adequate national institutions in Slovenia are established with the objective to coordinate space activities on the national level (e.g. national space office).

CENTRE OF EXCELLENCE: SPACE.SI (1)

Eight Centres of Excellence were established in September 2009

Duration: **2010-2013**

Total budget **84 MEUR**

European funding: **85%**

National funding: **15%**

Centre of excellence: **SPACE.SI**

European funding: **9.966.506 EUR**

Number of partners: **11**

CENTRE OF EXCELLENCE: SPACE.SI (2)

1. University of Ljubljana, Faculty of Natural Sciences and Engineering
2. University of Ljubljana, Faculty of Electrical Engineering
3. University of Ljubljana, Faculty of Mathematics and Physics
4. Scientific Research Centre of the Slovenian Academy of Sciences and Arts Ljubljana, the Institute of Anthropological and Spatial Studies
5. JOŽEF STEFAN Institute, Ljubljana
6. DEWESOFT d.o.o., Trbovlje
7. SINERGISE, GIS Laboratory, d.o.o., Ljubljana
8. TIC - LENS Laser Technologies, d.o.o., Celje
9. IMPOL d.o.o. Slovenska Bistrica
10. ISKRA TELA, d.d. Ljubljana
11. MARIBOR INSURANCE COMPANY d.d., Maribor

CENTRE OF EXCELLENCE: SPACE.SI (3)

The consortium of eleven partners (academic institutions, high-tech SMEs and large industrial and insurance companies) along with 46 researchers and engineers will join forces in the following areas: MEMS based micro propulsion; functional graded materials for small satellites; integrated structural design and thermal management; attitude control, scientific payloads; communications and ground station operation; virtual modeling and optimization of subsystems; remote sensing, meteorology, astrophysics, data and image processing.

CE Space.si will enable Slovenia to efficiently join international state-of-the-art in space RTD. This effort will be strongly supported within the *CE Space.si* by the network of strategic EU partners from Sweden, Germany, France, the Netherlands, UK and Austria who will ensure RTD access to the most advanced space missions including PRISMA, LAPAN-TUBSAT, VENUS and GAIA.

Institute of Anthropological and Spatial Studies

Research program: [Anthropological and Spatial Studies](#) (2009-2013)

ModeLTER: [LEA ModeLTER – European Laboratory for Modelling of Landscapes and Territories over the Long Term](#) (2007-2011)

Current projects

2009-2013: [Centre of Excellence Space.si](#)

2009-2011: [Harmonization of object detection on optical satellite images](#)

2009-2011: [Europeanization and emerging of "new" regionalisms on the "edges" of Europe: Case study Himar/Himarë in southern Albania](#)

2009-2011: [ArchaeDyn II – Spatial dynamics of territories from Prehistory to Middle Age](#)

2009-2010: [DEDI II - Expansion of the Natural and cultural heritage encyclopaedia](#)

Institute of Anthropological and Spatial Studies

2008-2011: [Feasibility study of a remote sensing micro-satellite with innovative propulsion for precise manoeuvring of the orbital platform](#)

2007-2010: [The application of lidar remote sensing in the study of past cultural landscapes](#)

Selected accomplished projects

2008-2009: [GMES – DSL \(Downstream Service Land\) Austria-Slovenia-Andalusia: Concept for a Harmonized Cross-border Land Information System](#)

2006-2009: [caENTl - The Coordination Action of the European Network of Territorial Intelligence](#)

2006-2008: [Metodology for production of detailed digital maps of vegetation height and forest density](#)

2007: [Mapping of the flooding on September 18th 2007](#)

My Ocean Project



NATIONAL INSTITUTE OF BIOLOGY

Marine Biology Station

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