VENTSPILS HIGH TECHNOLOGY PARK

GMES experience and current activities in Latvia

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LATVIAN SPACE TECHNOLOGIES CLUSTER

Latvian Space Technology Cluster

- As a result of a pre-research done in 2008 on creating a cluster, in 2009 several Latvian companies together with research institutions agreed on creating Latvia's Space Technology Cluster and signed cooperation agreements on participation in cluster activities.

- At the moment, 44 organizations participate in the cluster. The initiator of Space Technology Cluster is Ventspils High Technology Park.

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Latvian Space Technology Cluster

The task of the Space Technologies and Services Cluster mainly is to:

- Promote cooperation of cluster participants working together on new projects, products, and innovations,
- Raise competitiveness and export volumes of both the cluster and its members,
- Ensure international marketing.

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Latvian Space Technology Cluster

Activities planned within the cluster are divided in four strategic directions:

- Stable basis for the industry and support to small and medium-sized enterprises,
- Engaging in the main markets in the space technologies industry,
- Development of space technologies use and services,
- Technological competence growth.

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Current activities of GMES in Latvia

University of Latvia is participating in implementation of different FP7 projects, e.g.:

- "My Ocean" - development of GMES infrastructure and services for protection of oceans and seas
- "GMOS" - development of world scale research system to measure atmosphere of Mercury
- "PANGEO" - ensuring free access to information and data for GMES geological researches.

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Current activities of GMES in Latvia

Association of 3 University of Latvia's Institutes (**Institute of Atomic Physics and Spectroscopy, Institute of Astronomy and Institute of Geodesy and Geoinformatics**):

- „Unlocking and Boosting Research Potential for Photonics in Latvia” - consolidation of Latvia's intellectual and industrial potential and promotion of world level transdisciplinary researches in this growing field.

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Current activities of GMES in Latvia

Latvian Environment, Geology and Meteorology Centre has participated in FP6 programme**:**

- „GMES network of users” - identifying GMES system user needs for new products and technologies regarding environmental issues.

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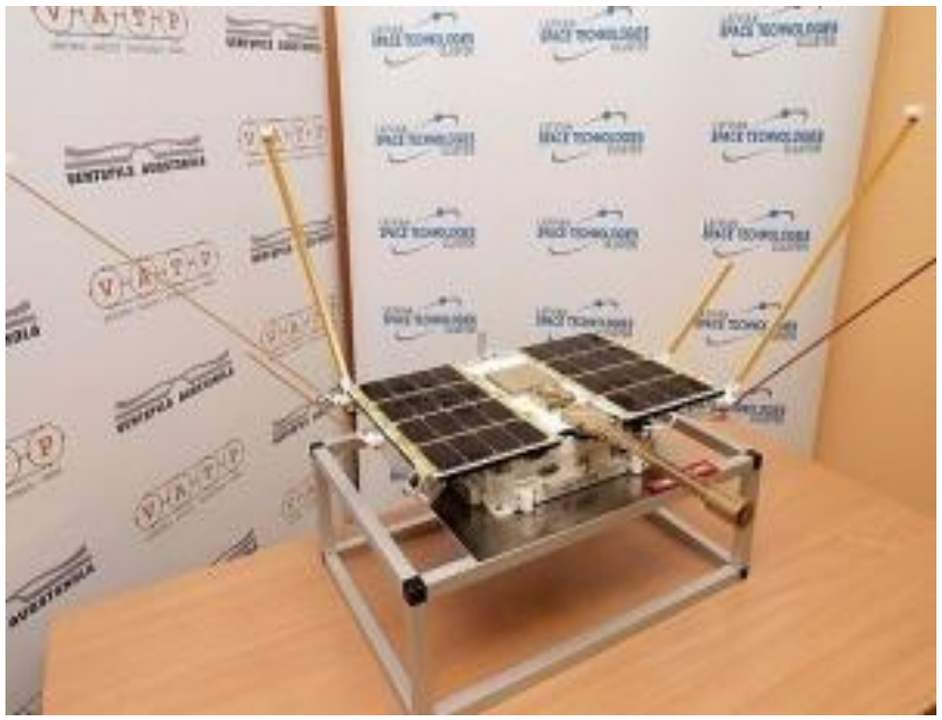
Latvia’s first satellite Venta-1

- Latvia’s first satellite Venta-1 is being developed as an educational project, and is implemented by Ventspils High Technology Park, Ventspils University College and University of Applied Sciences Bremen in collaboration with specialists of the University of Latvia and the Riga Technical University.



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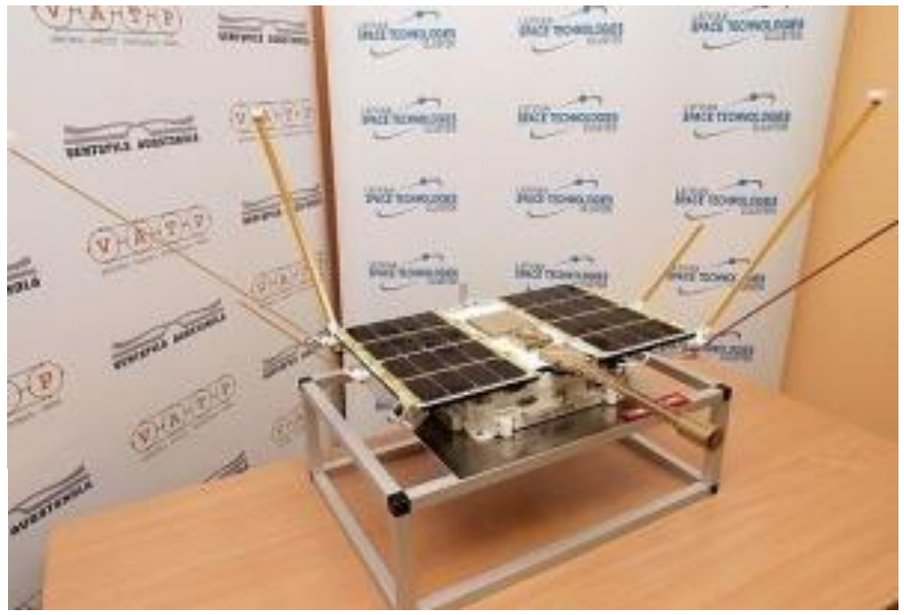
Latvia’s first satellite Venta-1

- Basic equipment on the Venta-1 will be two receivers of Automatic Identification System (AIS) that will receive ship transmitted wireless signals in seas and oceans and will determine the identity and location of the ship, its direction of movement and speed.
- Artificial satellite will test the operational possibilities of commercially manufactured AIS receivers in space.



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Planning and developing of new GMES applications and services

The aim of this activity is to improve the existing and develop new GMES applications and services to promote their export and to expand the applicability in the market.

Possibilities of new GMES applications and services in Latvia:

- Identification of new solutions in distant research,
- Development and implementation of a system to coordinate and exchange high detail topographic and land surveying data,
- Planning and preparing of projects to develop new products and services.

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Reach the goals
others are only thinking of!

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