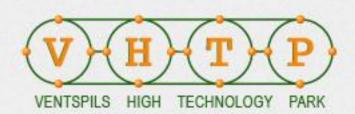


Latvian space activities Satellite Venta-1

Eva Daigina, Ventspils High Technology Park, Latvia

Ventspils High Technology Park



Date of registration: February, 2005

Legal status: Foundation (non-profit

organisation)

Location:

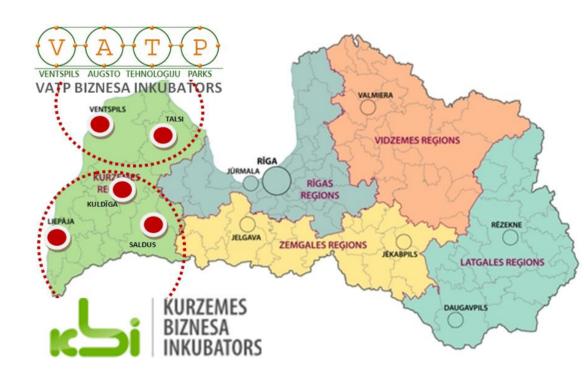
Ventspils

Business incubator branch in Talsi

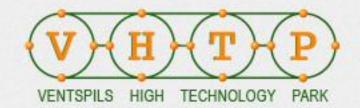
Joint venture "Kurzemes biznesa inkubators" Ltd. Location: <u>Liepāja, Kuldīga, Saldus</u>

Priority areas:

information technologies, telecommunications, electronics, engineering, industrial automation, computer aided design and space technologies.



VHTP structural units



IT, TELECOMUCATION,
ELECTRONIC, ENGINEERING,
INDUSTRIAL AUTOMATION,
COMPUTER AIDED DESIGN, SPACE
TECHNOLOGIES



Ш

BUSINESS

INCUBATOR

C) inspecta

NOTICE TO NACIONAL

NOTICE TO NAC

TECHNOLOGY PARK



PRE-INCUBATOR

Ventspils University
College

Education and preparation for Business

For start-ups (the first 3 years)

For expanding companies and research centers

SIEMENS





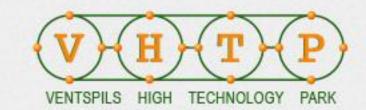








VHTP services

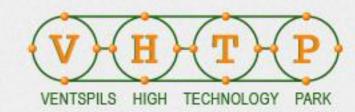


| Business Incubator | Technology Park |
|--|--|
| 1. Legal address and support to start a business in Latvia | Technical design and construction of premises |
| 2. Infrastructure (premises, office equipment, access to laboratories) | 2. Renting office and production premises |
| 3. Front desk and secretariat | 3. Acess to laboratories/ projects with research institutions |
| 4. Consultancy services: | 4. Organisation of training programmes for engineers/ technicians |
| - Marketing services | 5. Consultancy services: |
| - Capital attraction services | - Assistance with initial team building/ local headhunting |
| - Local headhunting | - Development projects |
| - Development and testing of the first technologies/ products | - Networking |
| - Other (incl. training, accounting and legal services, networking) | |





VHTP activities





PILOT ACTIVITIES NANO-SATTELLITE DEVELOPMENT

- "VENTA-1" PILOTPROJECT
- AIS APPLICATIONS
- TRAINING OF STUDENTS AND ENGINEERS



INDUSTRY AND RESEARCH CENTRE

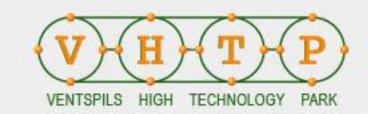
- INNOVATION CENTRE: INFRASTRUCTURE FOR FINE ELECTRONICS AND SMALL/MEDIUM SIZE SPACE PROJECTS
- THE COMPETENCY CENTRE FOR LATVIAN ELECTRICAL AND OPTICAL EQUIPMENT MANUFACTURING INDUSTRY, INCLUDING RESEARCH AND NEW PRODUCTS AND TECHNOLOGY DEVELOPMENT PROJECTS IN SATELLITE TECHNOLOGIES

STRATEGY AND POLICY



- PARTICIPATION IN THE DEVELOPMENT OF NATIONAL SPACE STRATEGY
- PARTICIPATION IN SPACE WORKING GROUP, FOSTERING ESA COOPERATION AGREEMENT LATVIAS SPACE TECHNOLOGY CENTRE STRATEGY DEVELOPMENT
- SPACE CLUSTER INITIATIVE
- SPACE AWARENESS ACTIVITIES

PILOT ACTIVITIES SATELLITE DEVELOPMENT



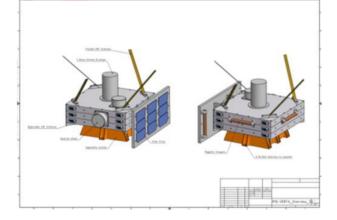


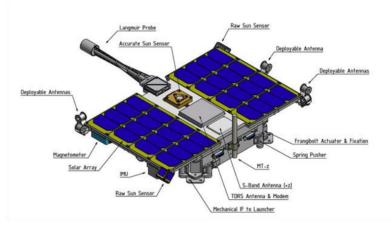




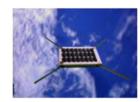
VENTA-1











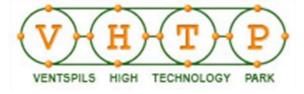


Tests

Frequencies

2008 2009 2010 2011













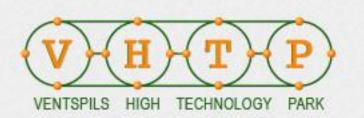




University Nanosatellite from Bremen for Maritime Space and AIS Technology Development AISat

INDUSTRY AND RESEARCH CENTRE

Project «SmartRegions – expert support to establishment of the Latvian Satellite Technology Centre»



Implementation period:

01.12.2008.-31.08.2009.

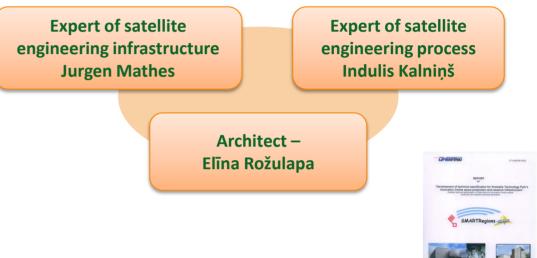
Activities

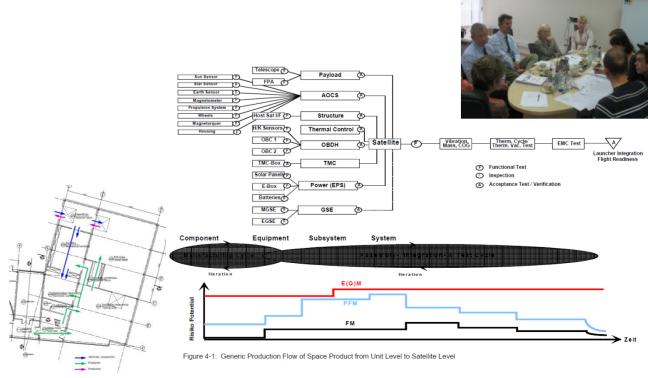
Identification of space production and research area at VHTP

AIS micro satellite, AIS service development, Participation in AIS satellite system

 Development of technical specification for VHTP space production and research infrastructure.

Project experts



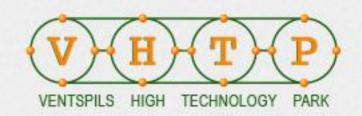






INDUSTRY AND RESEARCH CENTRE

Project « Cooperation between Ventspils and Tartu in space technologies research and training»



Implementation period:

01.08.2009. - 28.12.2010.

Activities, results:

- ✓ Development of space technology infrastructure the "Clean-room" (ISO7, 50m²)
- ✓ First Satellite Technology Summer School (August 2010, Ventspils)
- ✓ Partner involvement in small satellite building

7 students involved in "Venta-1" building, Praxis organised in Bremen and in Ventspils





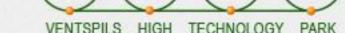






STRATEGY AND POLICY

VHTP -CO-ORDINATOR OF LATVIAN SPACE



TECHNOLOGIES CLUSTER

Since 2009 VHTP is a space technologies cluster coordinator in Latvia.

- 1) Cluster development projects financed by the Ministry of Economy and the Ministry of Education and Science of the Republic of Latvia;
- 2) Direct contacts with more than 40 companies, 20 research institutes, 4 NGOs and 13 state institutions involved in space industry in Latvia, partnership agreements for Cluster co-ordination activities with 25 institutions;
- 3) Involvement in the development of National Space Strategy.

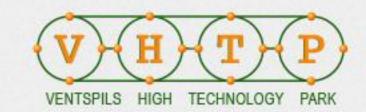






STRATEGY AND POLICY

Project «NordicBaltSat»



Implementation period:

01.03.2010.-28.02.2012.

Activities:

- To identify space potential and create joint technology programme;
- To identify **technologies** that would be necessary for the European market;
- To build capacity and develop cooperation between emerging space countries and ESA;
- To shape national space governance systems in emerging space countries.

European Space Technology Platform (ESTP)

Pillar 1: Non-

dependence

Pillar 2: Multiple-use and Spin-in

ESA Technology Programmes

Pillar 3: Enabling technologies

National Space Administration Organisations

esa

NordicBaltSat

project





Space potential and joint technology programme

Joint-technology Programme

WP 2: Capacity building and cooperation between emerging space countries and ESA

WP 3: Shaping national governance systems in emerging space countries



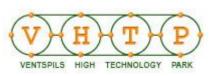










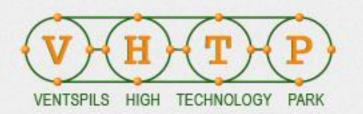






SPACE AWARENESS ACTIVITIES

Project «Space Technologies – potential of education and economy»



Implementation period:

02.2009. - 09.2010.

Results:

- Gathered information on Latvian historical achievements in space, excisting situation and development perspectives in Latvia
- Cooperation with Latvian policy makers and preparation of recomendations for space field development
- Informative events for pupils, students, organisations
- Competition for Latvian pupils "We own the sky!"



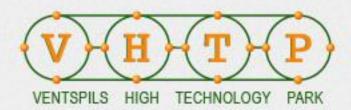






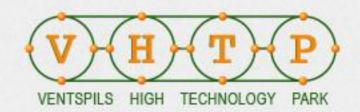


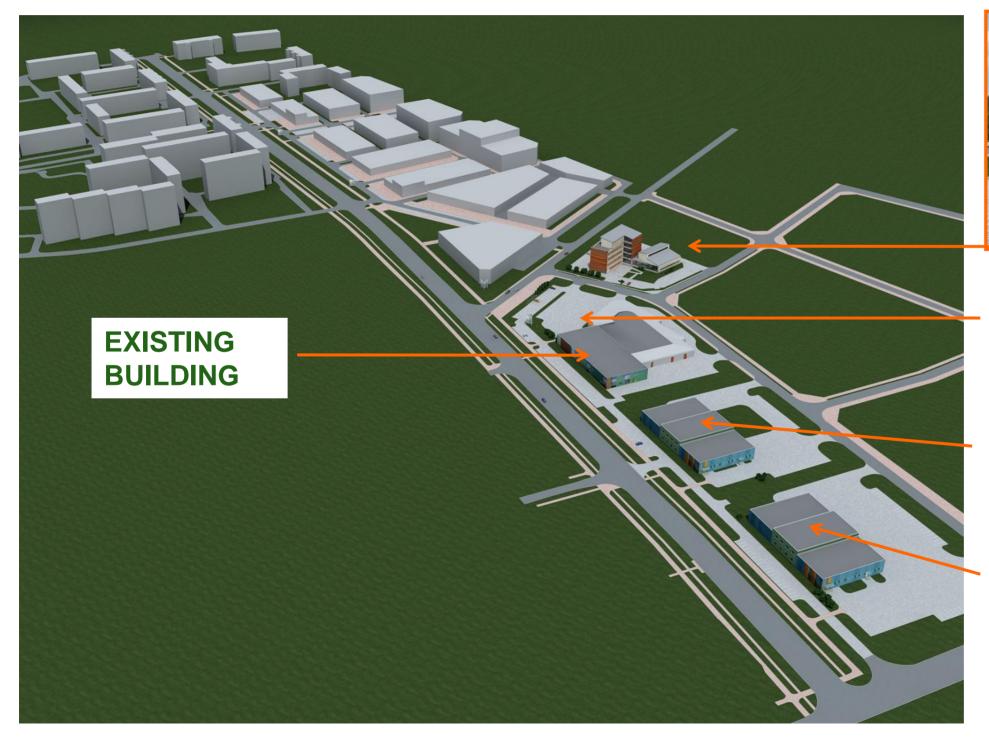
Different activities done by VHTP





VHTP future activities TECHNOLOGY PARK





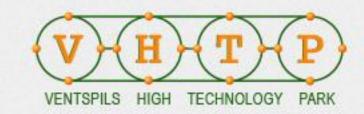


INTERACTIVE SCIENCE CENTRE

LCD MODULES ASSEMBLY

PROJECTED
BUILDING FOR
ELECTRONICS
MANUFACTURER

VHTP future activities



Interactive Demonstration centre

BI, Space, Virtual demonstration centre

- Annual participation in International Space camp in USA Space
 & Rocket centre
- Annual Satellite Technology Summer schools
- Competence centre

2 million EUR for 5 years for the projects related to space technologies

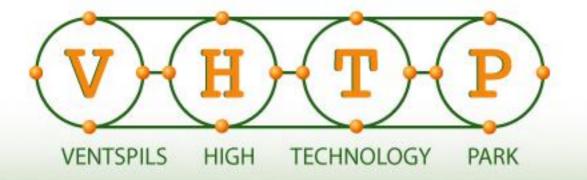
Participation in «European Satellite Navigation competition»











Reach the goals others are only thinking of!

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