Latvian space activities
Satellite Venta-1

Eva Daigina,
Ventspils High Technology Park, Latvia
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: Liepāja, Kuldīga, Saldus

Priority areas:
information technologies, telecommunications, electronics, engineering, industrial automation, computer aided design and space technologies.
VHTP structural units

- IT, TELECOMMUNICATION, ELECTRONIC, ENGINEERING, INDUSTRIAL AUTOMATION, COMPUTER AIDED DESIGN, SPACE TECHNOLOGIES

- **PRE-INCUBATOR**
  - Ventspils University College
  - Education and preparation for Business

- **BUSINESS INCUBATOR**
  - For start-ups (the first 3 years)

- **TECHNOLOGY PARK**
  - For expanding companies and research centers
## VHTP services

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

VHTP activities

PILOT ACTIVITIES NANO-SATELLITE DEVELOPMENT
- “VENTA-1” PILOT PROJECT
- 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
INDUSTRY AND RESEARCH CENTRE
Project «SmartRegions – expert support to establishment of the Latvian Satellite Technology Centre»

Implementation period:

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
Expert of satellite engineering infrastructure
Jurgen Mathes
Expert of satellite engineering process
Indulis Kalniņš
Architect – Elīna Rožulapa

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
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.
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.
SPACE AWARENESS ACTIVITIES

Project «Space Technologies – potential of education and economy»

Implementation period:

Results:
• Gathered **information** on Latvian historical achievements in space, existing situation and development perspectives in Latvia
• **Cooperation with Latvian policy makers** and preparation of recommendations 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

EXISTING BUILDING

INNOVATION CENTRE

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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