



RIGA TECHNICAL
UNIVERSITY

RTU Science & Innovation Centre

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SUSTAINABLE VALORISATION - ONE OF RTU'S STRATEGIC OBJECTIVES

Valorisation is the creation of social and economic value through the cooperation of different parties in research projects, technological development and promotion.



RTU SCIENCE & INNOVATION CENTRE



INNOVATION ECOSYSTEM
DEVELOPMENT UNIT



DESIGN
FACTORY



INNOVATIVE PRODUCT
DEVELOPMENT UNIT



SCIENTIFIC EQUIPMENT
UNIT

RTU SCIENCE & INNOVATION CENTRE

Network

- Single point for **European Innovation & Technology Institute** innovation and knowledge communities
Climate-KIC, Food and UrbanMobility in Latvia and RawMaterials in Baltics
- Membership in **Design Factory Global Network**

Infrastructure

- Access to Riga Technical University **High Performance Computing (HPC) Centre**
- **Best-equipped prototyping workshop in the Baltics** with a team of qualified experts
- **Providing theLAB** network as open student laboratories for education and prototyping

Support

- 3.2 mil EUR Investment in students entrepreneurship capabilities growth by **Student innovation grants program**
- **Prototyping** (reverse engineering) services for added value products
- **Full scale of start-ups support:** pre-incubation, incubation, accelerator
- Development and integration of competence based models in **lifelong learning programs**



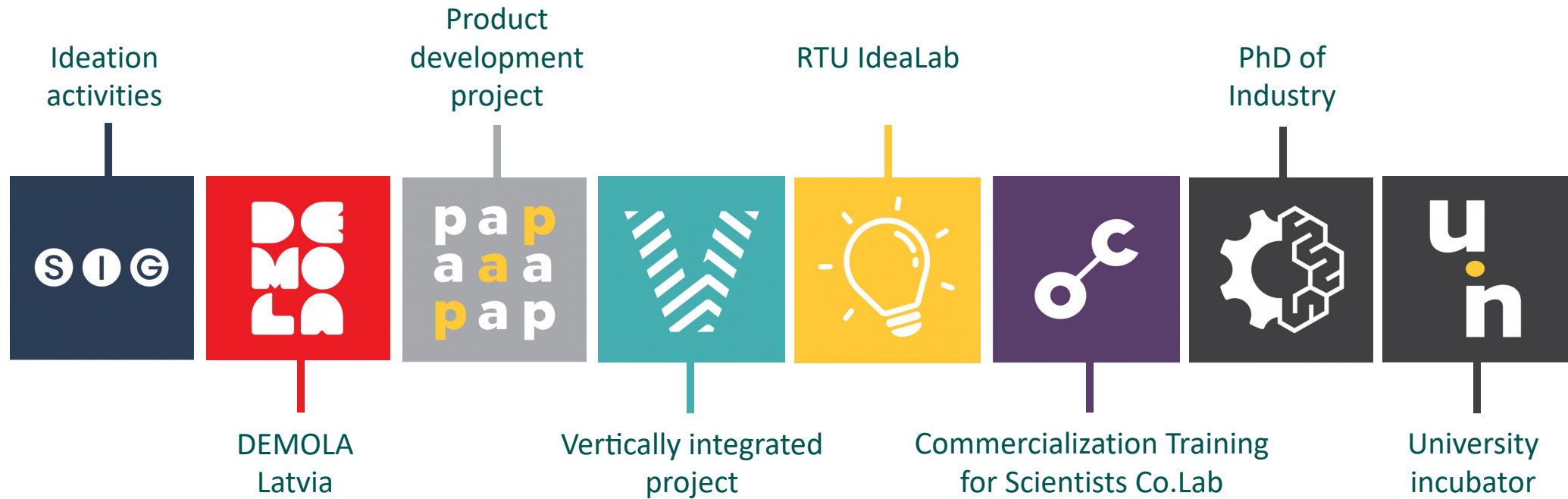
HPC Centre

theLAB
[print, cut, solder]



INNOVATION GRANTS FOR STUDENTS

Students of all levels are offered to engage in a variety of activities and develop their entrepreneurship, collaborate with industry, develop early science-intensive business ideas, and receive scholarships and support grants.



VERTICALLY INTEGRATED PROJECT (VIP)

TEAM: Bioenergy

Designed and built first prototype of a food waste compost/heat production system with automated measurements and process control.

Currently, in addition to upgrading the system, several students are working in the laboratory - performing lignin degradation by fungi, enzymatic activity measurements, carbohydrate degradation tests.

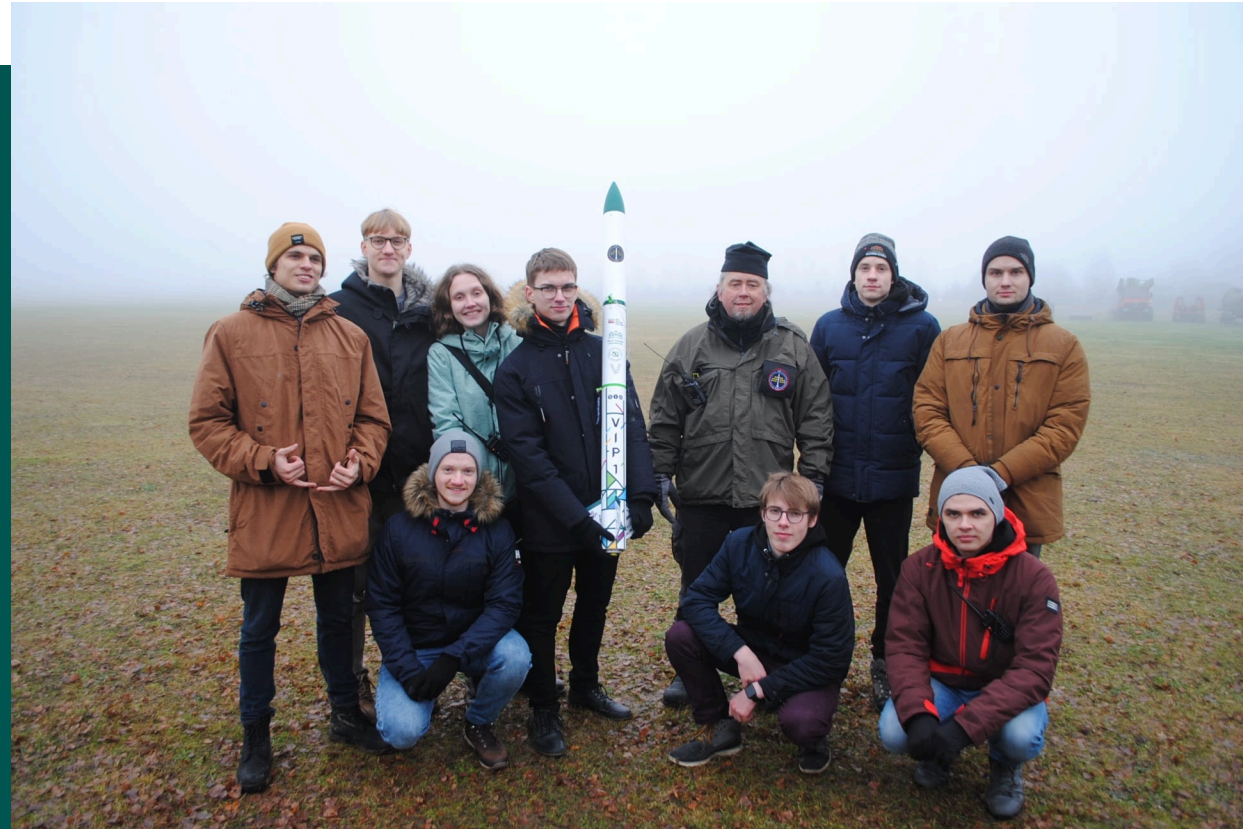


VERTICALLY INTEGRATED PROJECT (VIP)

TEAM: Space

The first high-powered student-built rocket in the Baltics. Rocket reaches speed up to 800 km/h and an altitude of 1 kilometer.

It has its own flight computer, which not only logs data but also communicates via radio with ground stations and deploys a parachute using our custom-built deployment mechanism. In addition to that, the airframe and all internal components have been painstakingly designed to undergo extreme acceleration and high aerodynamic loads.



CLIMATE ACCELERATOR PROGRAM

Baltics & Slovakia ClimAccelerator program is for startups involved in the fight against climate change. Program partners help to improve and scale solutions, attract potential investors. This program is supported by EIT Climate-KIC, the biggest network of cleantech and sustainable companies and institutions inside the EU.

AI waste sorting /
deposit machine



fermentful

Fermented drinks
from green
buckwheat

Blockchain-powered
investment platform for
forest acquisition &
carbon capture



Transform coffee
waste into high-added
value products

Thank you!

