



Co-funded by
the European Union



RIGA TECHNICAL
UNIVERSITY

Riga Technical University

The only multidisciplinary technical university in Latvia

**Digital transformation of HEIs education
process in Ukraine and Moldova for sustainable
engagement with enterprises, DIGITRANS**

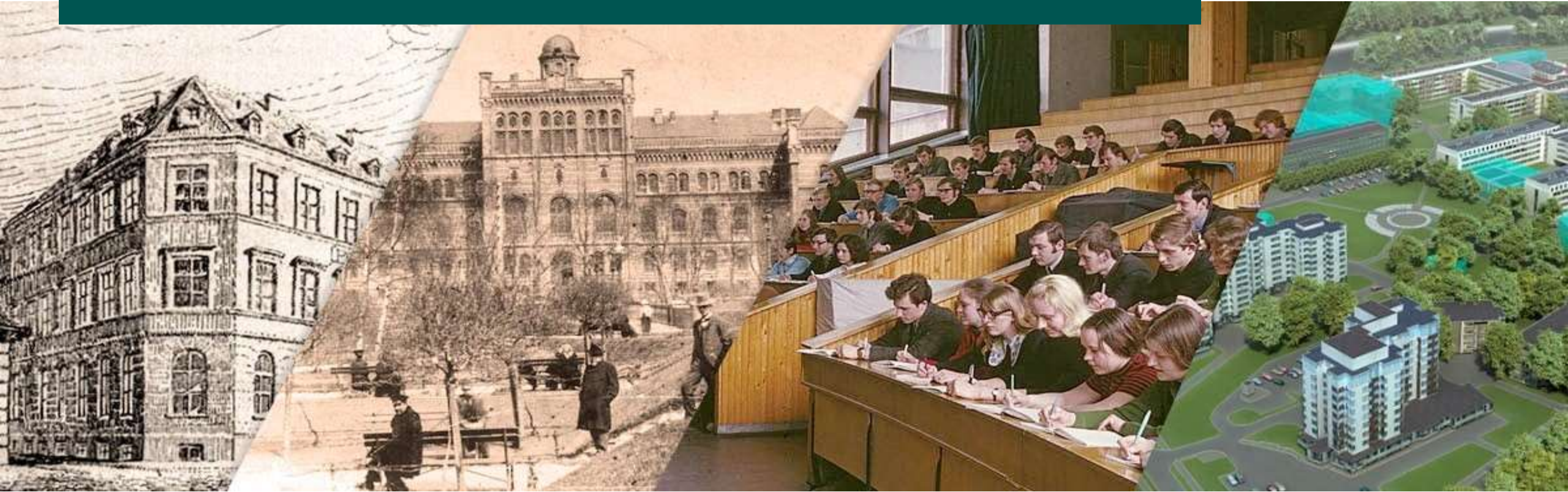
101127683 — DIGITRANS — ERASMUS-EDU-2023-CBHE

January 11-12th 2024

FACTS AND FIGURES

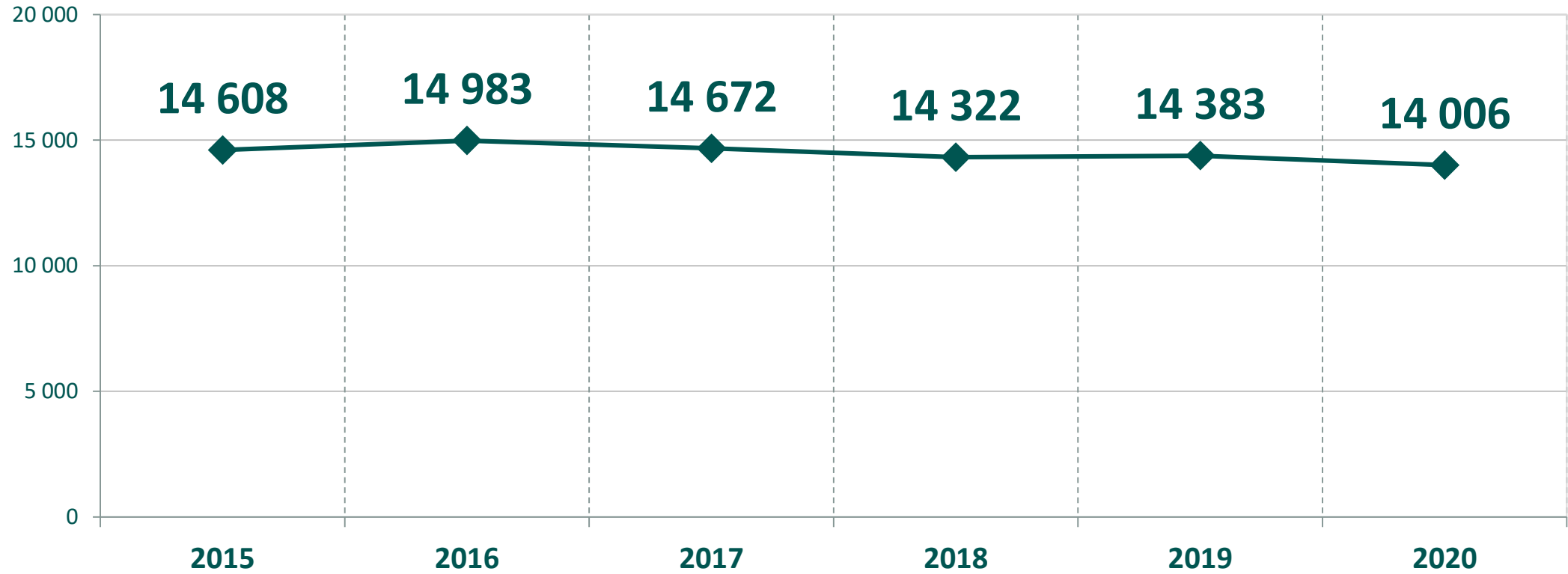


RTU was established in 1862



The oldest technical university in the Baltic states

TOTAL NUMBER OF STUDENTS



1 300

ACADEMIC STAFF AND RESEARCHERS

500

PhD STUDENTS

INTERNATIONAL STUDENTS MORE THAN

20%

NETWORKS

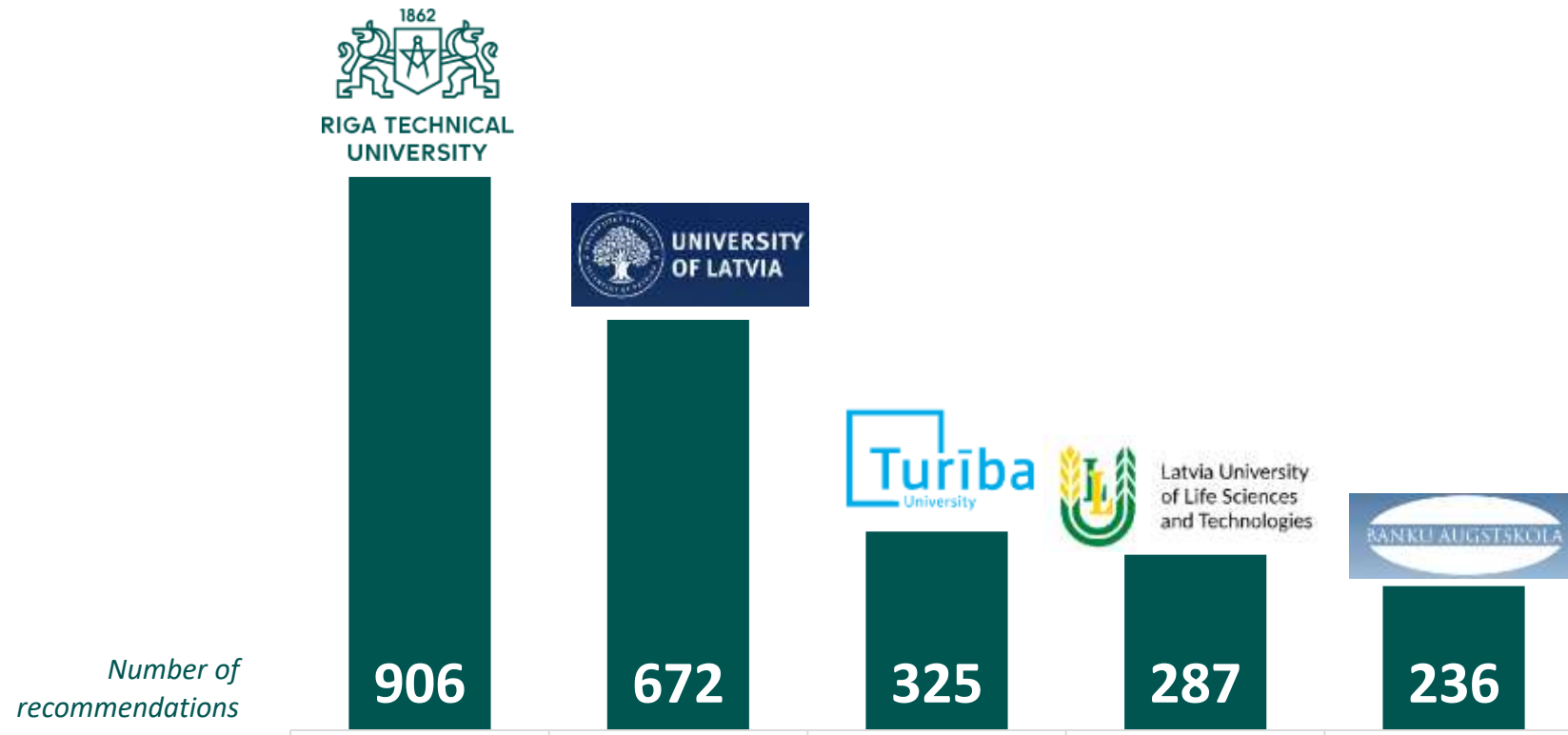
50+ MEMBERSHIP IN VARIOUS
ASSOCIATIONS



550+ COLLABORATION AGREEMENTS
WITH UNIVERSITIES

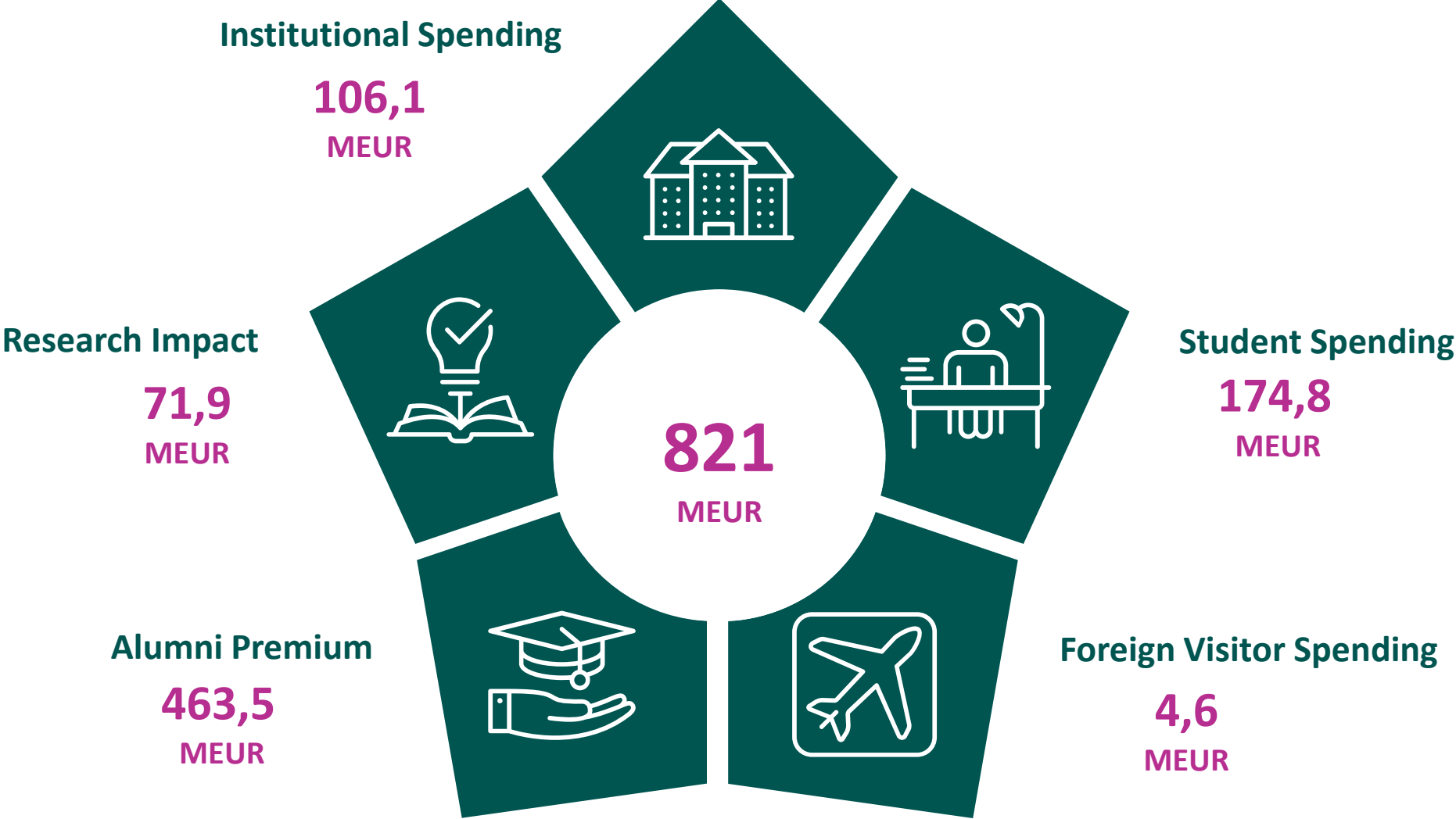


THE MOST RECOMMENDED UNIVERSITY BY EMPLOYERS



RTU has been the most recommended higher education institution by employers since the very beginning of the TOP (9 years).

ECONOMIC IMPACT OF RTU (2020)



Calculation is based on the methodology developed by Walter Sudmant (University of British Columbia; Canada, 2009).

RANKINGS



751. – 800.

By share of international students – **289.**



11 – A – «very good» scores
7 – B – «good» scores

1st place according to the total number of A and B scores
among universities in Latvia

RANKINGS



By criteria: Innovation – **16.**

By criteria: Research Effectiveness – **7.**

By subject: Civil Engineering – **6.**



201.-300.

Universities' performance against 17 the United Nations' Sustainable Development Goals (SDGs)

By SDG: Climate action – **64.**

NOTABLE ALUMNI



Wilhelm Ostwald

Nobel prize winner in chemistry



Paul Walden

World-wide known chemist



Friedrich Zander

Rocketry and spaceflight pioneer



Džordžs Armitsteds

Engineer, the mayor of Riga at the beginning of the 20th century



Valdis Dombrovskis

European Commission Vice-President for the Euro and Social Dialogue



Zigfrīds Anna Meierovics

The first Minister of Foreign Affairs of the Republic of Latvia and the second Prime Minister of the Republic of Latvia

UNIVERSITY DEVELOPMENT STRATEGY



RTU DEVELOPMENT STRATEGY 2021-2025



MISSION

We are building a competitive, educated, innovative and creative future.



VISION

Riga Technical University is an internationally competitive, dynamic and modern university of research and technology.



OUR PURPOSE

High quality and effectiveness – proactive linkage between the activity of RTU and the needs of the national economy. RTU is one of the leading research and technology universities of the Baltic and Nordic region.

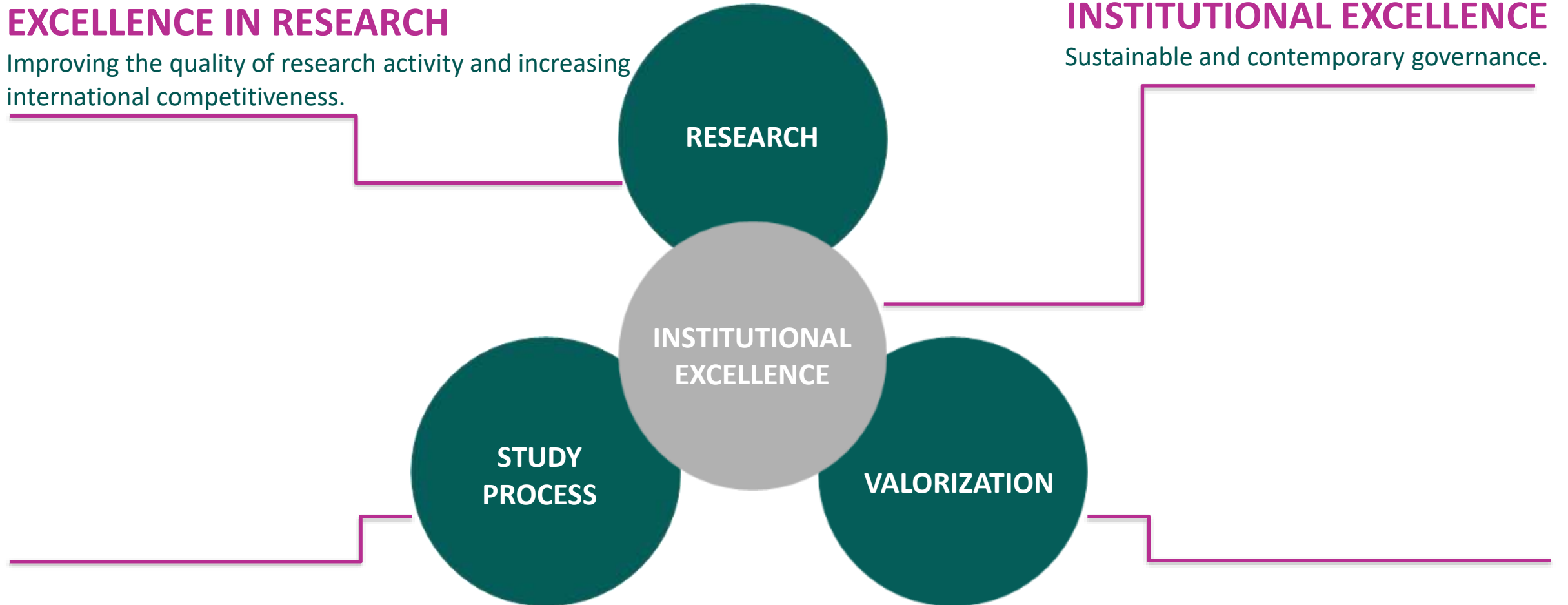
MAIN OBJECTIVES

EXCELLENCE IN RESEARCH

Improving the quality of research activity and increasing international competitiveness.

INSTITUTIONAL EXCELLENCE

Sustainable and contemporary governance.



HIGH QUALITY STUDY PROCESS

Focus on attracting well-prepared students for studies.

SUSTAINABLE VALORIZATION

Proactive, clear and inclusive cooperation with industry.

INTEGRATION OF SUSTAINABLE DEVELOPMENT



STUDY PROCESS

Inclusion of the concept of sustainable development in the curriculum.



RESEARCH

Linking to RTU research activities and their results.



VALORIZATION

Linking to innovations developed at RTU.



ORGANIZATION

Sustainable development and efficient use of RTU infrastructure and resources. Corporate social responsibility.



Sustainability Index:

Platinum status

The Sustainability Index is designed as a practical tool to measure the performance of organizations in the field of corporate sustainability and responsibility, with the aim of helping them to grow and improve.

INFRASTRUCTURE DEVELOPMENT



RTU CAMPUS IN KIPSALA



DEVELOPMENT OF RTU CAMPUS IN KIPSALA



Development strategy of RTU infrastructure envisages RTU concentration in Kipsala. Upon completion, RTU campus will become the most modern engineering study centre in the Baltic States.



ĶĪPSALA CAMPUS – GREEN CITY WITHIN A CITY

VISION:

The most advanced research, study and innovation centre of engineering and technology in the Baltic region. Sustainable, smart and environmentally-friendly development.



Electric cars and their charging stations for greener mobility



Solar panels



Drinking water points



Waste sorting containers

STUDIES



RTU FACULTIES

9 FACULTIES



Electrical and
Environmental
Engineering



Engineering
Economics and
Management



E-Learning
Technologies and
Humanities



Riga Business School

11 STUDY DIRECTIONS



Mechanical
Engineering, Transport
and Aeronautics



Computer Science and
Information Technology



Electronics and
Telecommunications

137 STUDY PROGRAMS



Materials Science
and Applied
Chemistry



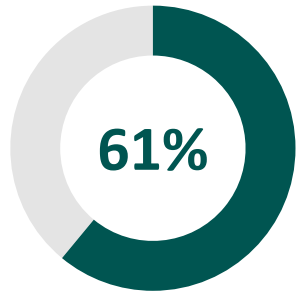
Architecture



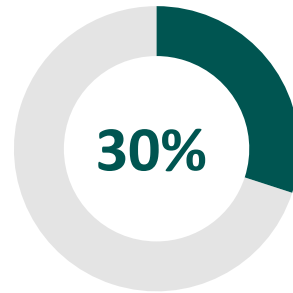
Civil Engineering

4 Regional Study and Science Centres

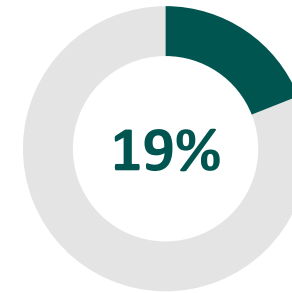
RTU MARKET SHARE IN DIFFERENT FIELDS BY NUMBER OF STUDENTS



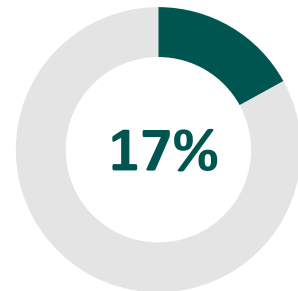
Engineering, Production,
Construction



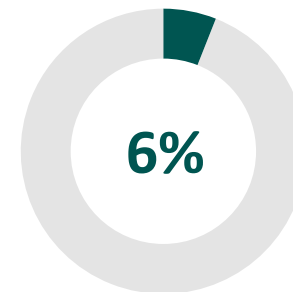
Natural sciences,
Mathematics and IT



Services

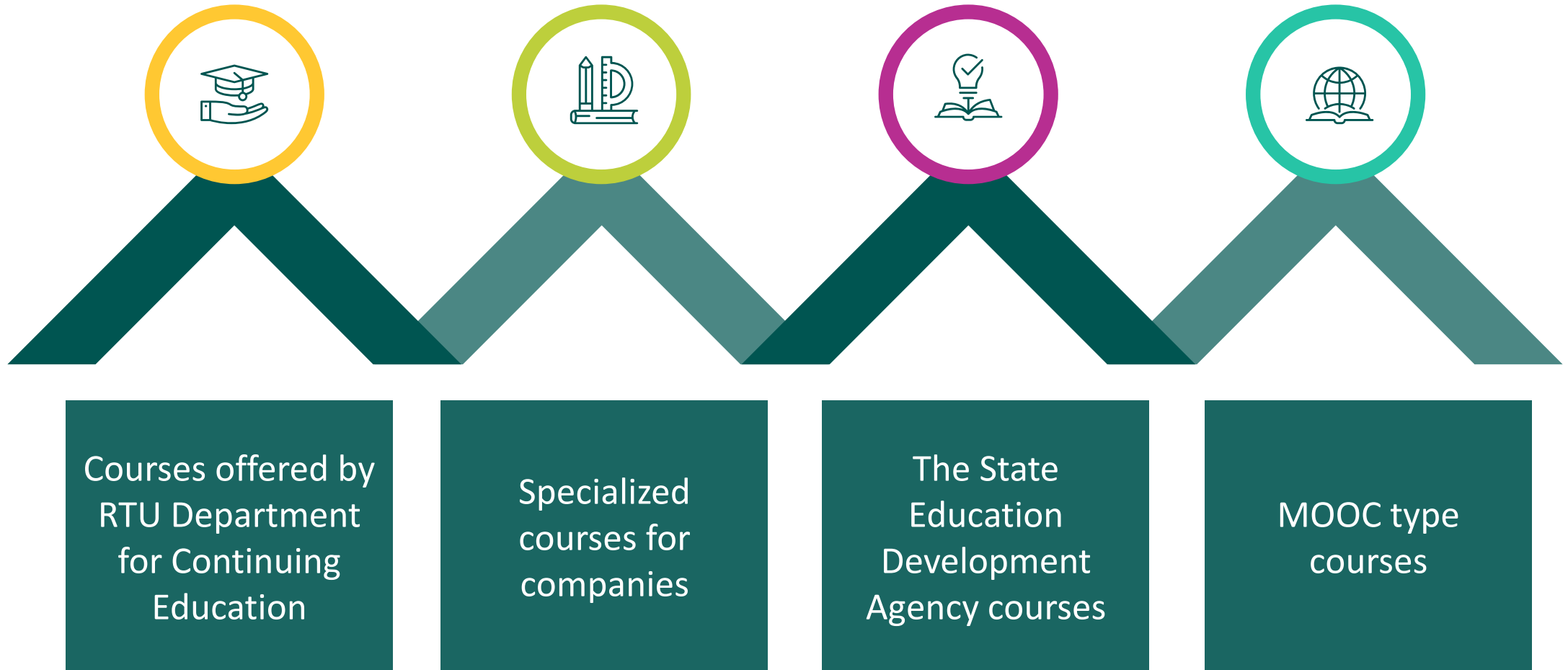


Business and Administration



Humanities

DEVELOPMENT OF LIFELONG LEARNING



ENGINEERING HIGH SCHOOL



IN-DEPTH TECHNICAL EDUCATION



PRACTICAL EXPERIENCE



RESEARCH SKILLS



THE FRIENDLY APPEAL FOUNDATION'S SCHOOL RANKING 2020 :

 In a group of urban high schools – **1st place**

THE ATIS KRONVALDS FOUNDATION'S SCHOOL RANKING 2021:

 For work with talented students in a group of small schools – **1st place**

 Star ranking for achievements in international level olympiads and research competitions – **2nd place**

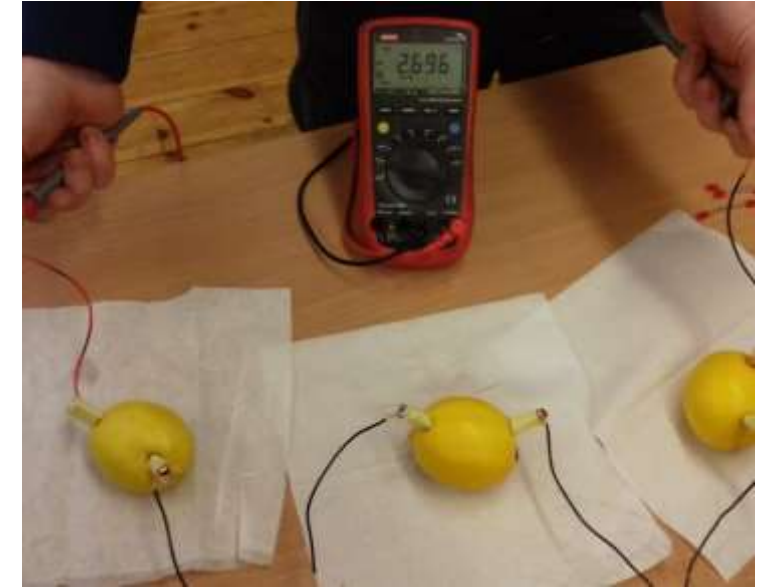
COOPERATION WITH SCHOOLS



Provision of chemistry and physics subjects in schools



Cooperation with the best STEM schools within the Talent program



RTU Children and Youth University: training for students and teachers

RESEARCH



RTU RESEARCH PLATFORMS

01

ENERGY &
ENVIRONMENT

02

CITIES & DEVELOPMENT

03

MATERIALS &
PROCESSES

04

SECURITY & DEFENSE

05

TRANSPORT

06

INFORMATION AND
COMMUNICATION
TECHNOLOGIES

LATEST EXCELLENCE EQUIPMENT



7DOF industrial robot - Baxter



Physical motion simulator with virtual reality cab



Nuclear magnetic resonance spectrometer



HPC centre - academic network project



X-ray computed tomography

RESEARCH OF INTERNATIONAL IMPORTANCE



DAIMLER

A DC power supply system that allows the manufacturing industry to significantly save on electricity consumed



AIRBUS

The wing design of the AIRBUS 318 aircraft is calculated at RTU



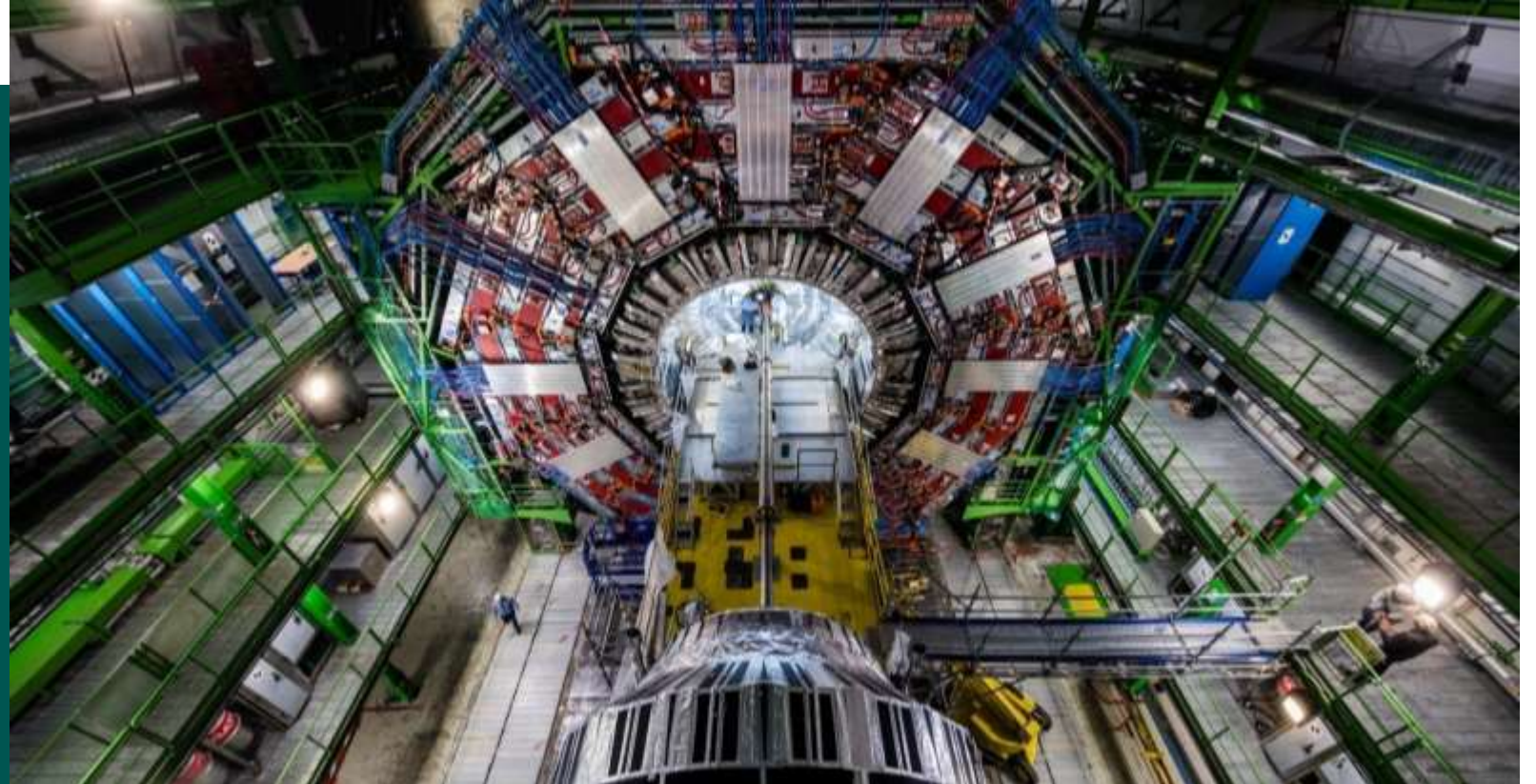
SPORTS EQUIPMENT

Improvement of skeleton and luge equipment

INTERNATIONAL COOPERATION

Cooperation with CERN

Participation in important research projects by scientists from RTU such as an experiment aimed at observing and detecting new physics phenomena using the Large Hadron Collider.

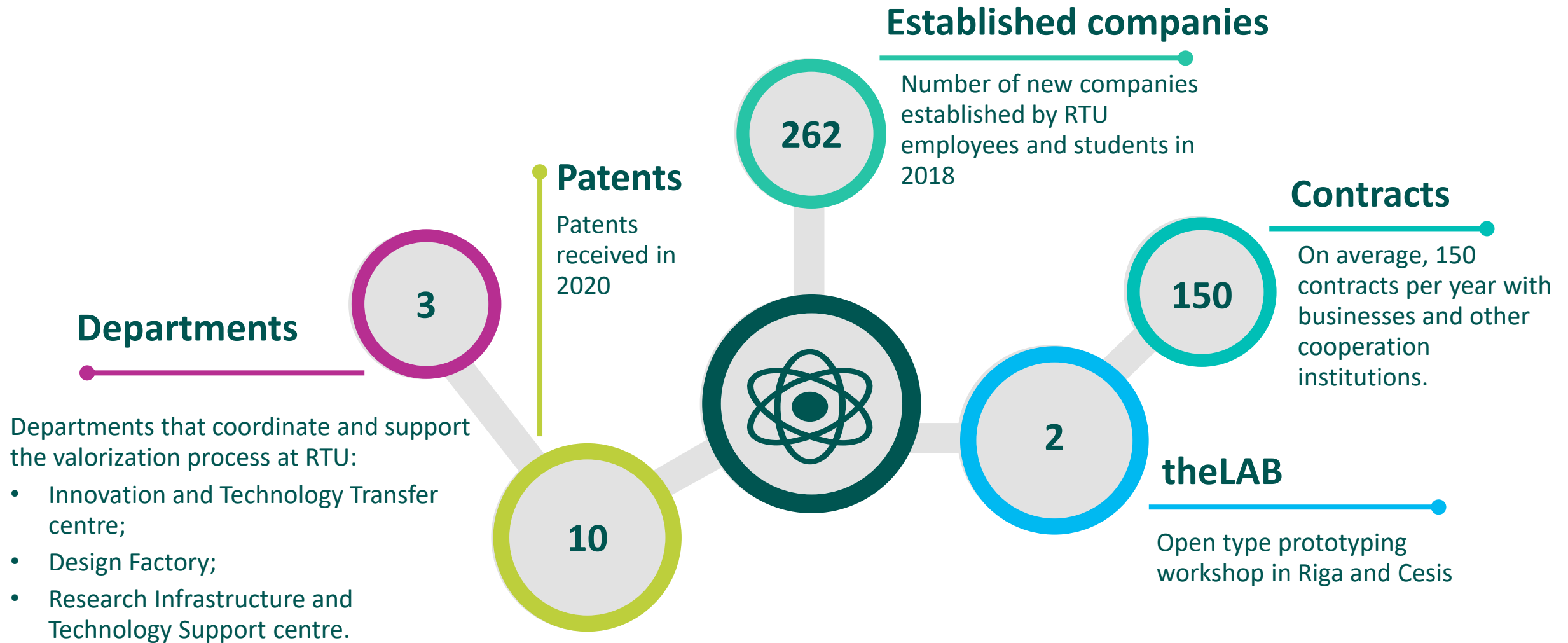


European Organization for Nuclear Research
(CERN)

VALORIZATION



INNOVATION ECOSYSTEM





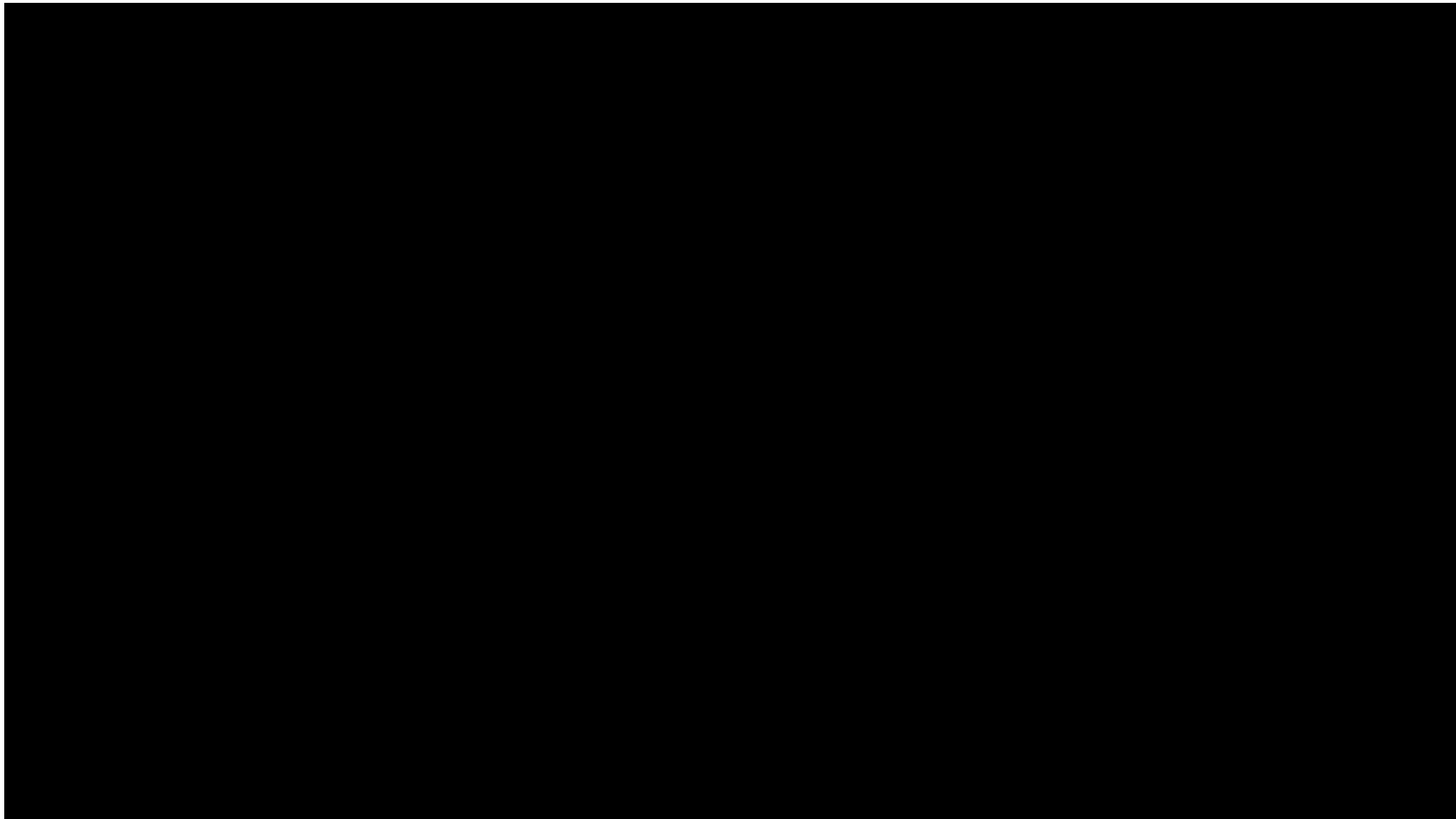
Innovation and business
platform

The best equipped prototyping
workshop in the Baltics

A team of highly qualified
experts

Support for entrepreneurs,
managers, students

To create innovative ideas, high value-added products and engineering solutions



SPORTS, CULTURE, STUDENTS



SPORTS, CULTURE, STUDENTS



Sports

20 types of sport disciplines. Professional sports teams in floorball, football, basketball, volleyball.



Culture

13 artistic groups. Choirs, folk dance ensembles, orchestra, student theater, vocal ensemble, dance ensemble.



Students

Active involvement of students in the Student Parliament and self-governments in each faculty.





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