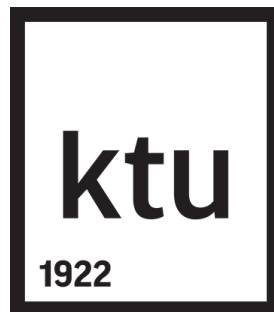


HUMAN SIDE OF TECHNOLOGY

Dr Vilma Karoblienė
KTU Research and Innovation Projects Centre
09/12/2024



LITHUANIA



65 300

TERRITORY, KM2

25 700, in 2023

GDP per capita, Eur

(source EUROSTAT, 07/12/2024)

2,9 million, in 2024

POPULATION



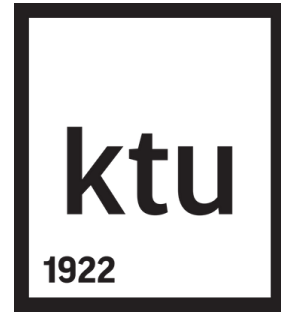
REGIONAL CONTEXT

KAUNAS

- A short flight (2 to 3 hours) from any European city.
- Cultural Capital of Europe in 2022.
- Art deco city: UNESCO's World Heritage List.
- City balancing contemporary European point of view and authentic Baltic values, is strategically the most convenient living point in Lithuania. It's also an important crossroads between the Baltic countries, Scandinavia, and Central and Eastern Europe for both travelling by land and air.



- ☑ Kaunas region – **more than 50 thousand students.**
- ☑ **51% of Kaunas population hold a university diploma.**
- ☑ The employment rate for the **technology graduates is around 90%.**

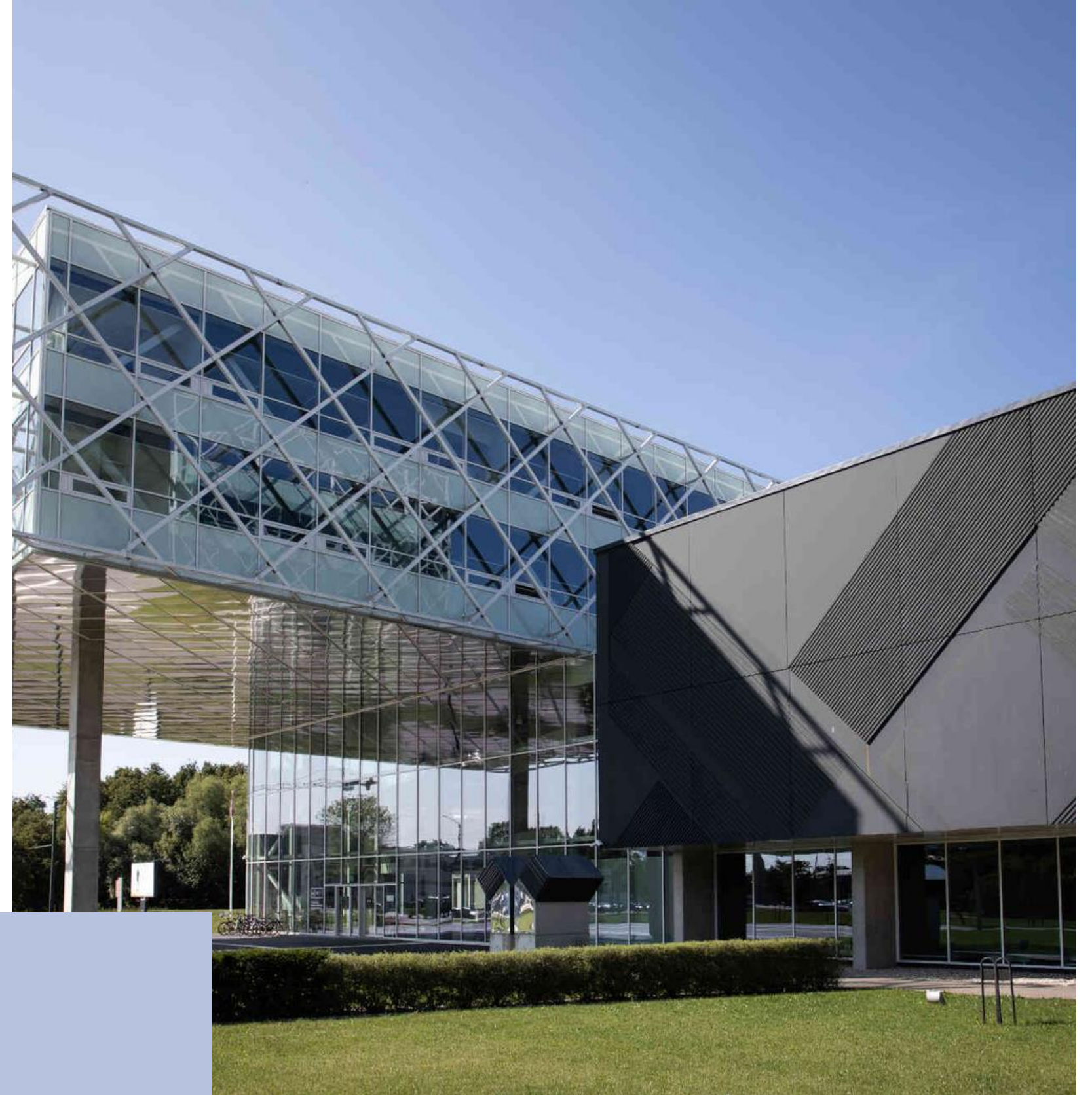


WELCOME TO KTU

KAUNAS UNIVERSITY OF TECHNOLOGY (KTU) is one of the largest technological universities in the Baltics.

Known for its connections with business, leadership in research, flexible multidisciplinary study programmes and unique learning experiences.

KTU is moving fast to become an international leader in the region's higher education system.





KTU COMMUNITY

>1 000

academic Staff

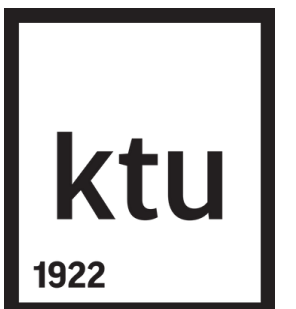
~ 8 000

students

~160 000

alumni

Founded in 1922, Kaunas University of Technology celebrated its centenary in 2022.





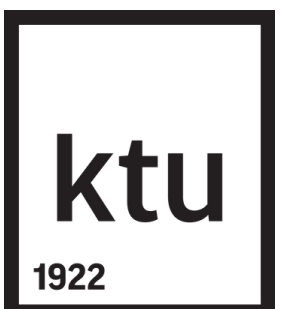
9 faculties

8 research
institutes

2 integrated sciences, studies
and business centres-valleys

1 gymnasium

2 research
centres



KTU COMMUNITY

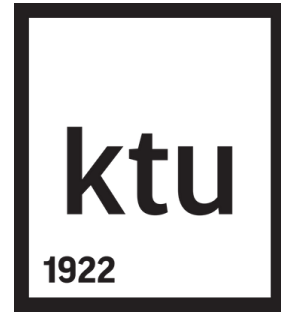
RESEARCH INSTITUTES

- Biomedical Engineering Institute
- Food Institute
- Institute of Architecture and Construction
- Institute of Environmental Engineering
- Institute of Materials Science
- Institute of Mechatronics
- Prof. Kazimieras Baršauskas Ultrasound Research Institute
- Health Telematics Science Institute



FACULTIES

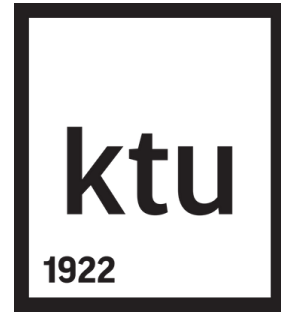
- Faculty of Chemical Technology
- School of Economics and Business
- Faculty of Electrical and Electronics Engineering
- Faculty of Informatics
- Faculty of Mathematics and Natural Sciences
- Faculty of Mechanical Engineering and Design
- Faculty of Social Sciences, Arts and Humanities
- Faculty of Civil Engineering and Architecture
- Panevezys Faculty of Technologies and Business
- ISM University of Management and Business, Vilnius



TODAY KTU community can be proud of:



- ✓ competitive study programme portfolio and modern process of studies;
- ✓ motivated students and highly competent lecturers;
- ✓ research and experimental development corresponding to societal needs;
- ✓ transfer of technology and innovation to business and society;
- ✓ modern infrastructure adapted to studies and highest level research;
- ✓ loyal community members working together and united in pursuit of their goals.



PRIORITIES OF KTU ACTIVITIES

- ✓ Digital transformation
- ✓ Transformation of industry
- ✓ Smart cities and resilient communities



FIELDS OF KTU ACTIVITIES

TECHNOLOGIES FOR **SUSTAINABLE** FUTURE

- Artificial intelligence and robotics
- Biomedical engineering and medical technologies
- Chemical and environmental technologies
- Diagnostic technologies
- Applied mathematics
- Electronics and electrical engineering
- Functional materials and technologies
- Information and communication technologies
- Food systems and biotechnologies
- Mechanical and transportation engineering
- Construction technologies
- Applied and medicinal chemistry
- Sustainable energy



SUSTAINABLE SOCIOCULTURAL DEVELOPMENT

- Architecture, urban activities and cultural heritage
- Audiovisual arts
- Educational environments and technologies
- Financial technologies
- Economic analytics and competitiveness
- Business models
- Innovation management and entrepreneurship
- Organisational development
- Industrial design
- Digital media and culture
- Public administration



~1 200

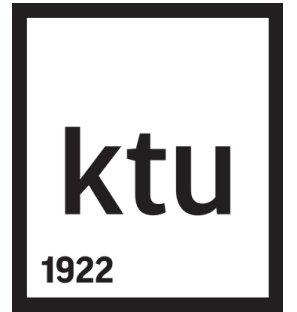
KTU provides R&D works and services for more than 4 million euros yearly; almost 20% of all orders are completed for foreign business clients.

~2.9 million euros

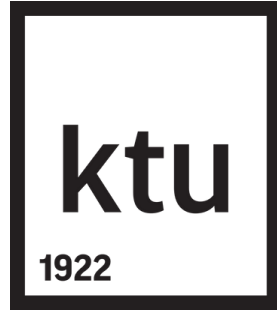
KTU provides R&D services for almost 3 million euros yearly; almost 20% of all orders are completed for foreign business clients.



SUSTAINABILITY at KTU



Responsibility to society
Sustaining spirit and traditions of the University of Lithuania



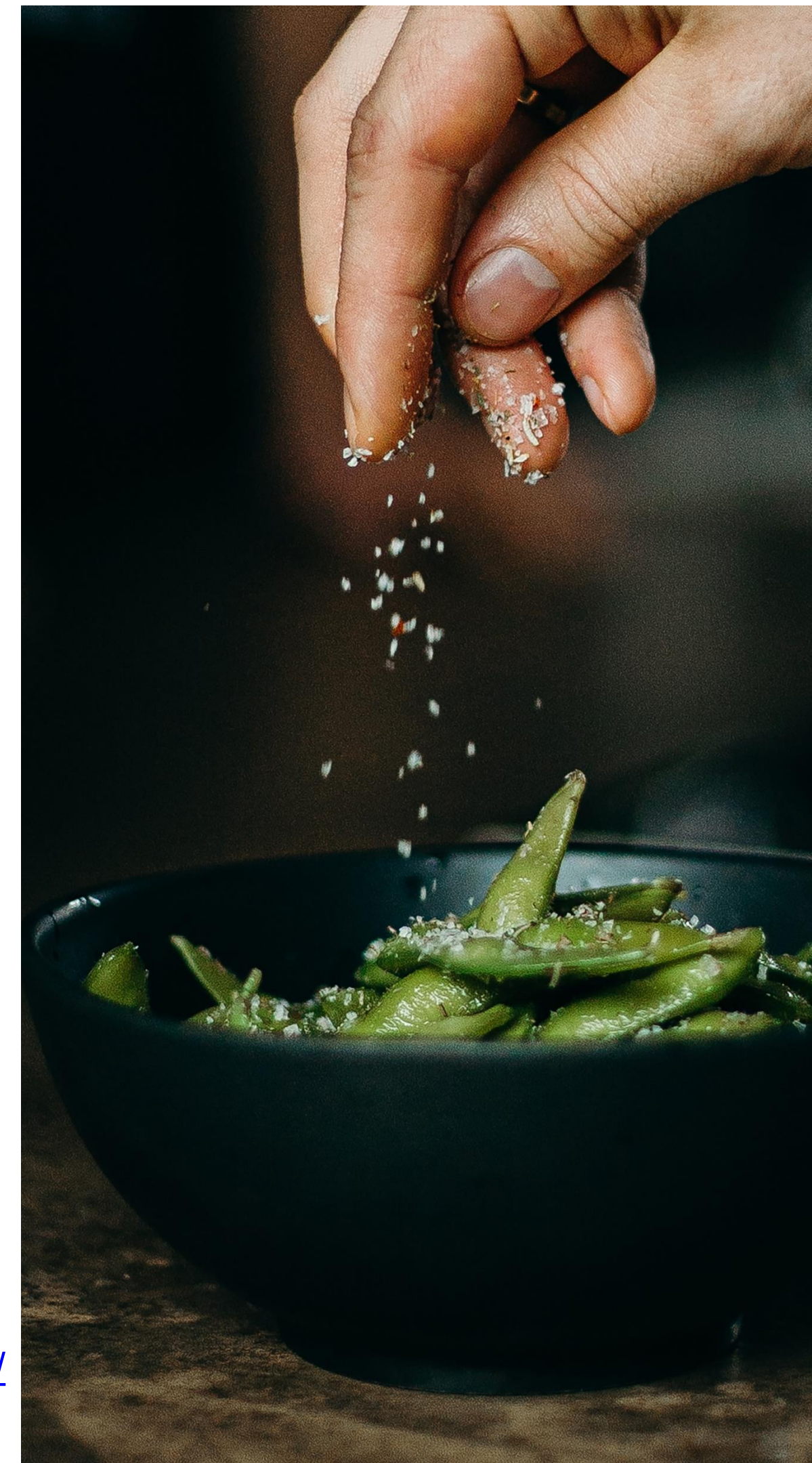
SUSTAINABILITY at KTU (1)

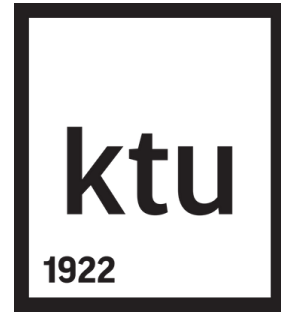
Responsible attitude towards environment and the society at the University is based on the philosophy of sustainable development activities, such as:

- Cooperation
- Transparency of Activities
- Pro-activeness
- Creativity
- Professionalism
- Academic Integrity
- Constant Improvement

Source: <https://en.ktu.edu/university/sustainability/>

Source of picture: <https://www.pexels.com/>



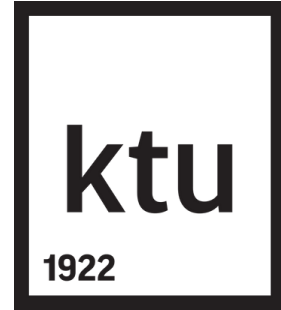


SUSTAINABILITY at KTU (2)

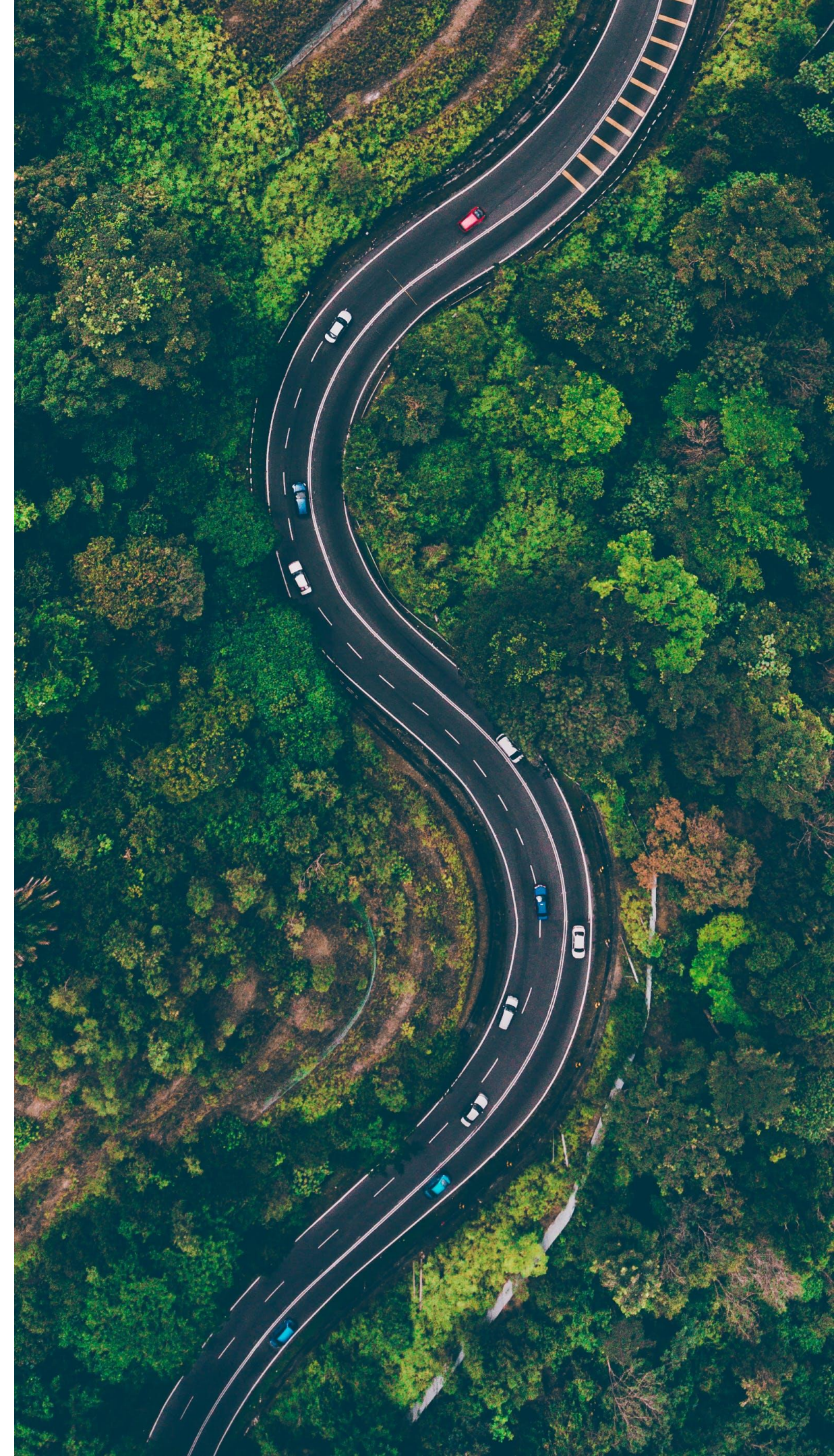
„**KTU** is integrating the United Nations sustainable development goals (17 SDG) in all areas of its activity. The University aims to develop responsible future leaders and specialists in their areas, and attempts to achieve long-term goals concerning well-being of people and environment.

The University conducts educational activities, **initiates projects**; the principles of sustainable development are integrated in various University's activities.“





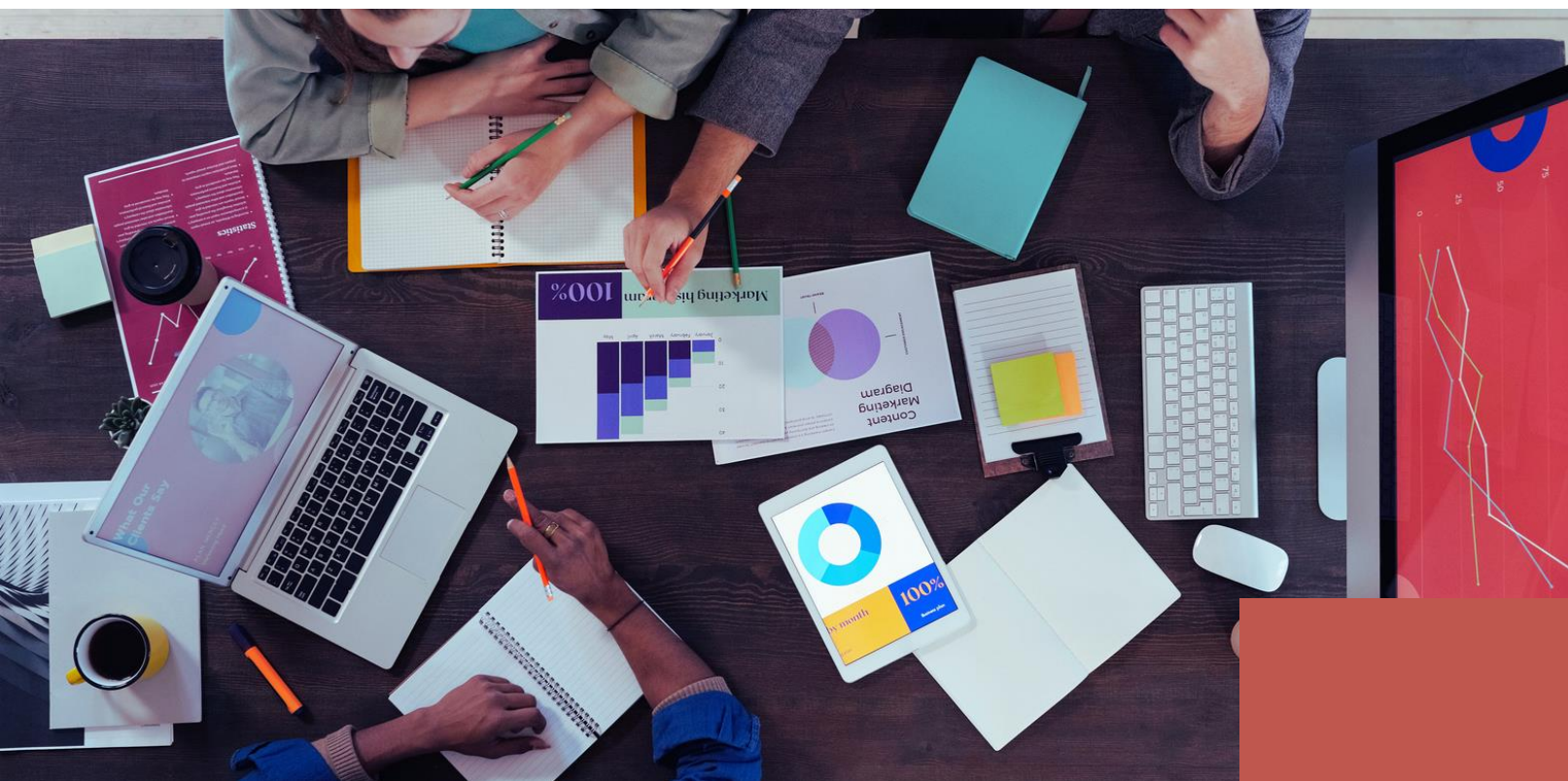
Sustainability in Research: Project Management System at KTU





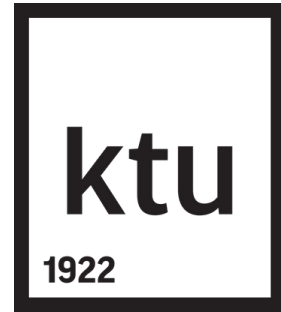
RESEARCH PROJECTS

RESEARCH AND INNOVATION PROJECTS CENTRE



Research and Innovation Projects Centre is a non-academic unit at KTU with main **objective to strengthen the quality of research and innovation activity at the university by ensuring the excellence and competences of the researchers in:**

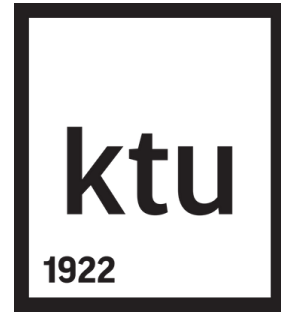
- preparation of the competitive and successful research and innovation (R&D) and study projects' proposals;
- administrative support in R&D and study project's management.



RESEARCH AND INNOVATION PROJECTS CENTRE

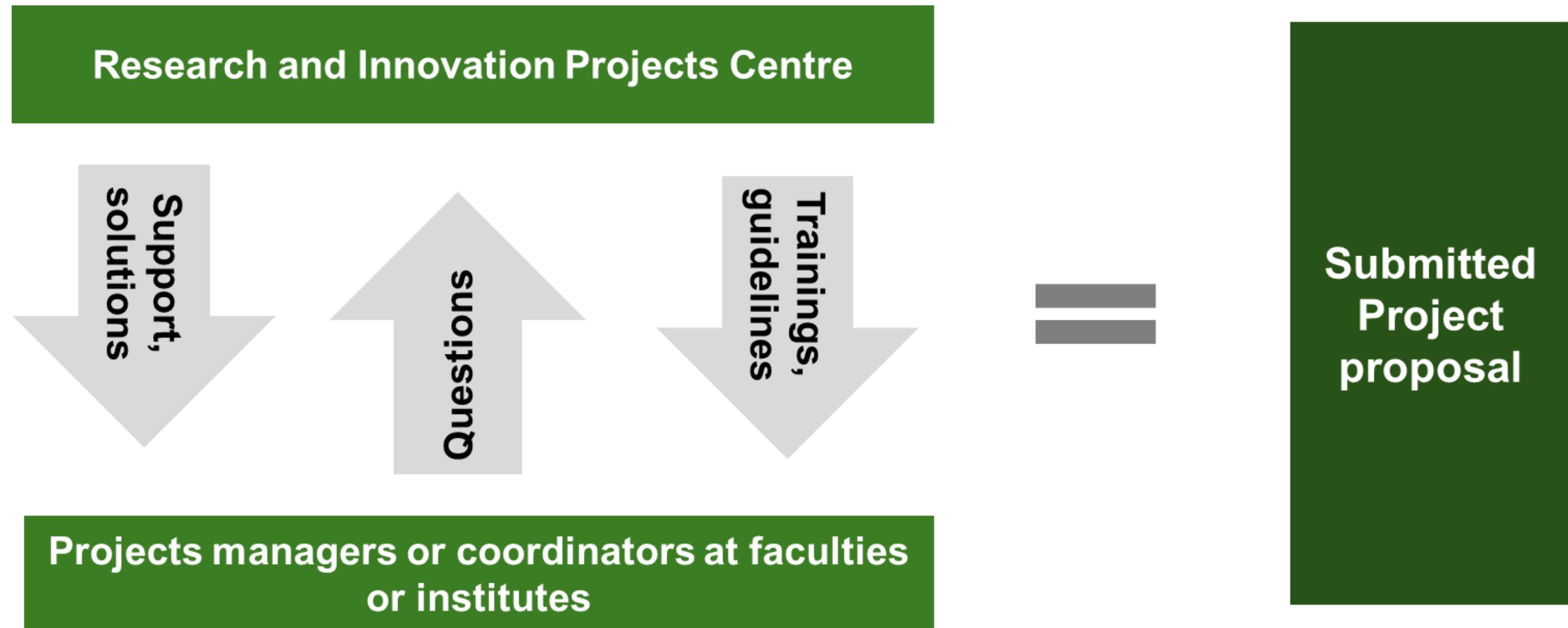
- ✓ Looking for funding and scouting new opportunities
- ✓ Supporting proposal preparation
- ✓ Negotiation with funding agencies, ministries
- ✓ Supporting in grant agreement preparation
- ✓ Trainings for researchers with internal and external experts
- ✓ Supporting in project management





RESEARCH AND INNOVATION PROJECTS CENTRE

Collaboration with faculties and institutes in project proposal preparation.



Sustainable Development of Project Management System contributes to:

- economic sustainability;
- innovation sustainability;
- environmental sustainability;
- social sustainability of KTU.

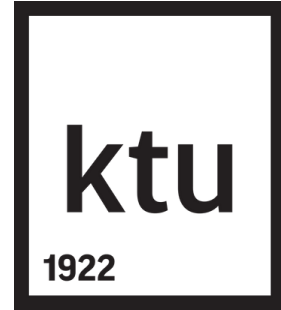


Sustainable Development of Project Management System contributes to (4P):

- economic sustainability;
- innovation sustainability;
- environmental sustainability;
- social sustainability of KTU.

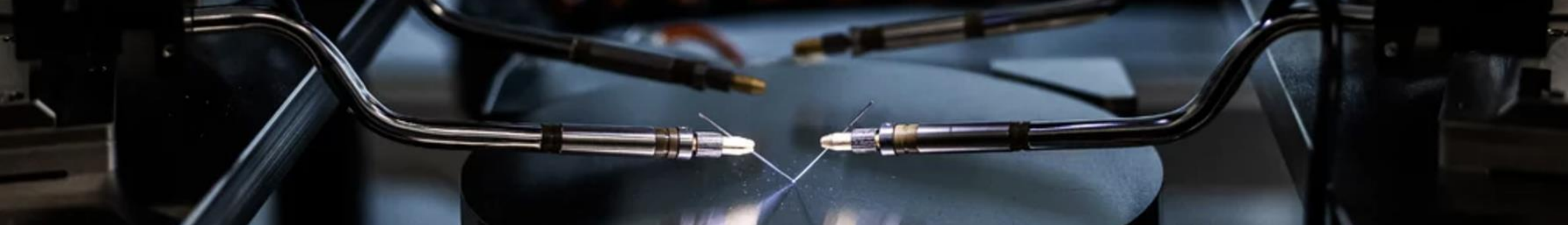
For PROSPERITY





HOW?

Some of the examples



KTU has been ranked 1st among all **Lithuanian participating institutions** in terms of funding from the first European Union Framework Programme for Research and Innovation to the current Horizon Europe (hereinafter – HE) programme.

**The total amount attracted is
36 million EUR**

**TOP 1 IN LITHUANIA IN
PROGRAMME
HORIZON 2020**

**TOP 2 IN LITHUANIA IN
PROGRAMME
HORIZON EUROPE**

(Data of 26-11-2024, according to grants amounts in Euro)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard,%202024-11-26>

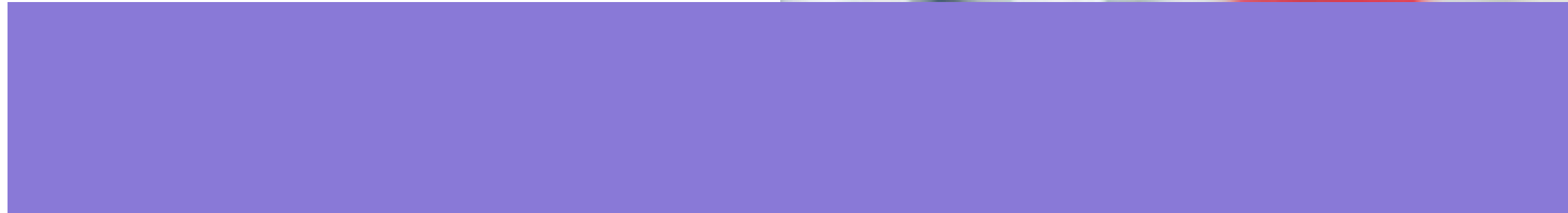
HORIZON EUROPE: LITHUANIAN TOP 10 INSTITUTIONS ACCORDING TO THE HIGHEST BUDGET IN EUR AND PROJECT NUMBERS

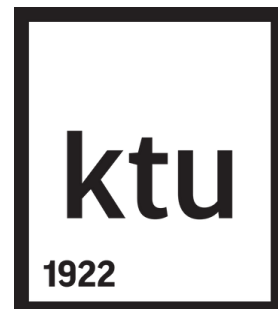
Participant Organization	Net EU Contribution, EUR	Participation, No.
Vilnius University	14 863 953	45
Kaunas University of Technology	14 209 639	36
Vytautas Magnus University	9 282 421	23
Research Council of Lithuania	6 958 883	33
Lithuanian University of Health Sciences	6 074 678	13
Vilnius Gediminas Technical University	5 557 968	13
SYXIS VSI	5 399 274	11
AgriFood Lithuania DIH	3 952 654	18
Lithuanian Innovation Centre	3 892 764	7
Klaipeda University	3 778 928	12



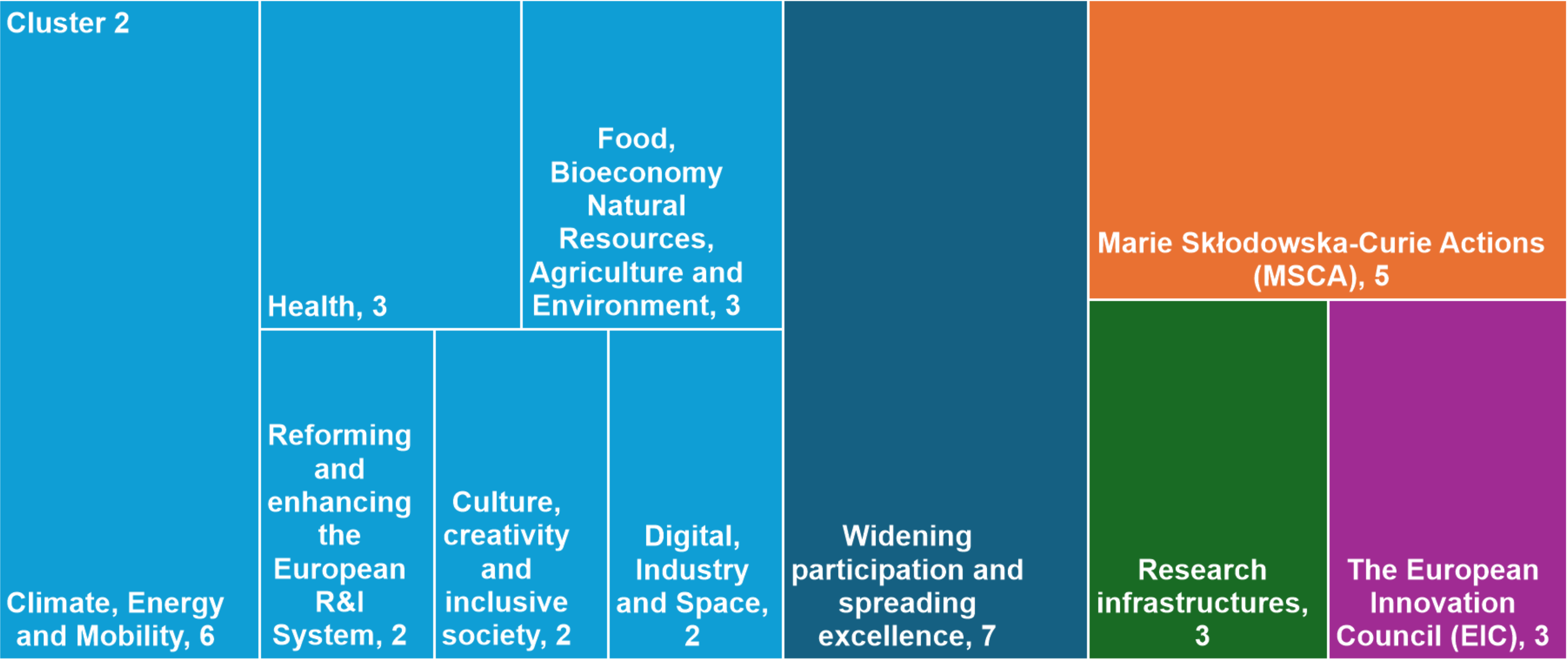
298 R&D projects

KTU researchers took part in more than 163 international and 135 national research projects (data of Q4 with COSTS actions in 2023).



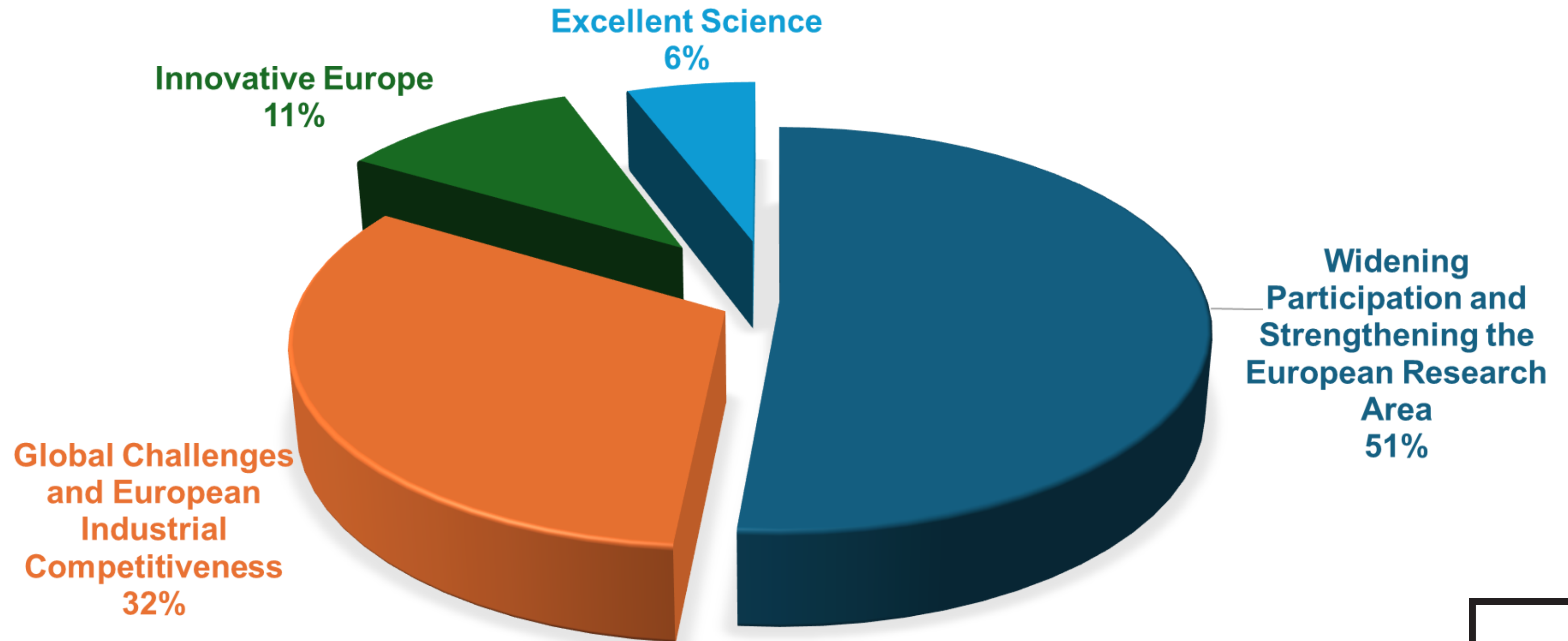


KTU PARTICIPATION IN HE PROJECTS WITHIN THEMATIC PRIORITY / PILLAR, number of projects



<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard,%202024-11-26>

KTU HE PROJECTS' BUDGET DISTRIBUTION BETWEEN THEMATIC AREAS



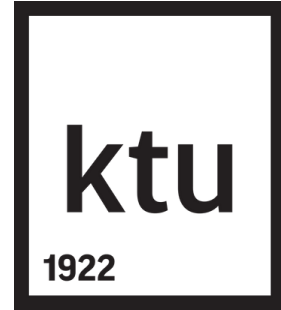
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard,%202024-11-26>

Sustainable Development of Project Management System contributes to (4P):

- economic sustainability;
- **innovation sustainability;**
- environmental sustainability;
- social sustainability of KTU.

**For greater
PROGRESS**





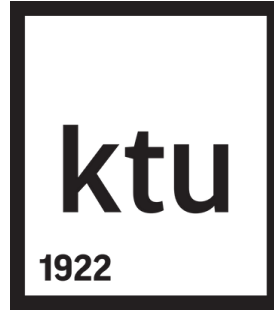
HOW?

Some of the examples

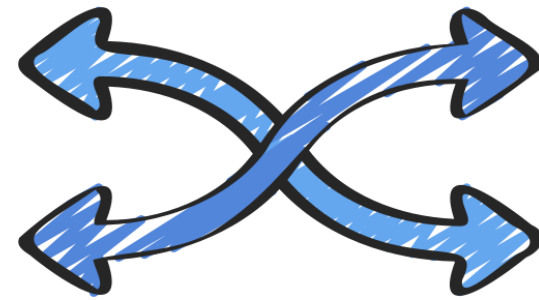


**Collaboration with business companies in
R&D projects**

**KTU competitive partner in projects with
business and other institutions**



**RESEARCH AND
INNOVATION
PROJECTS CENTRE**



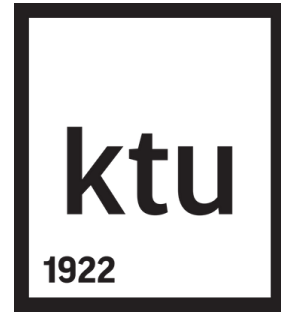
**NATIONAL
INNOVATION AND
ENTREPRENEURSHIP
CENTRE**

Sustainable Development of Project Management System contributes to (4P):

- economic sustainability;
- innovation sustainability;
- **environmental sustainability;**
- social sustainability of KTU.

For PLANTET

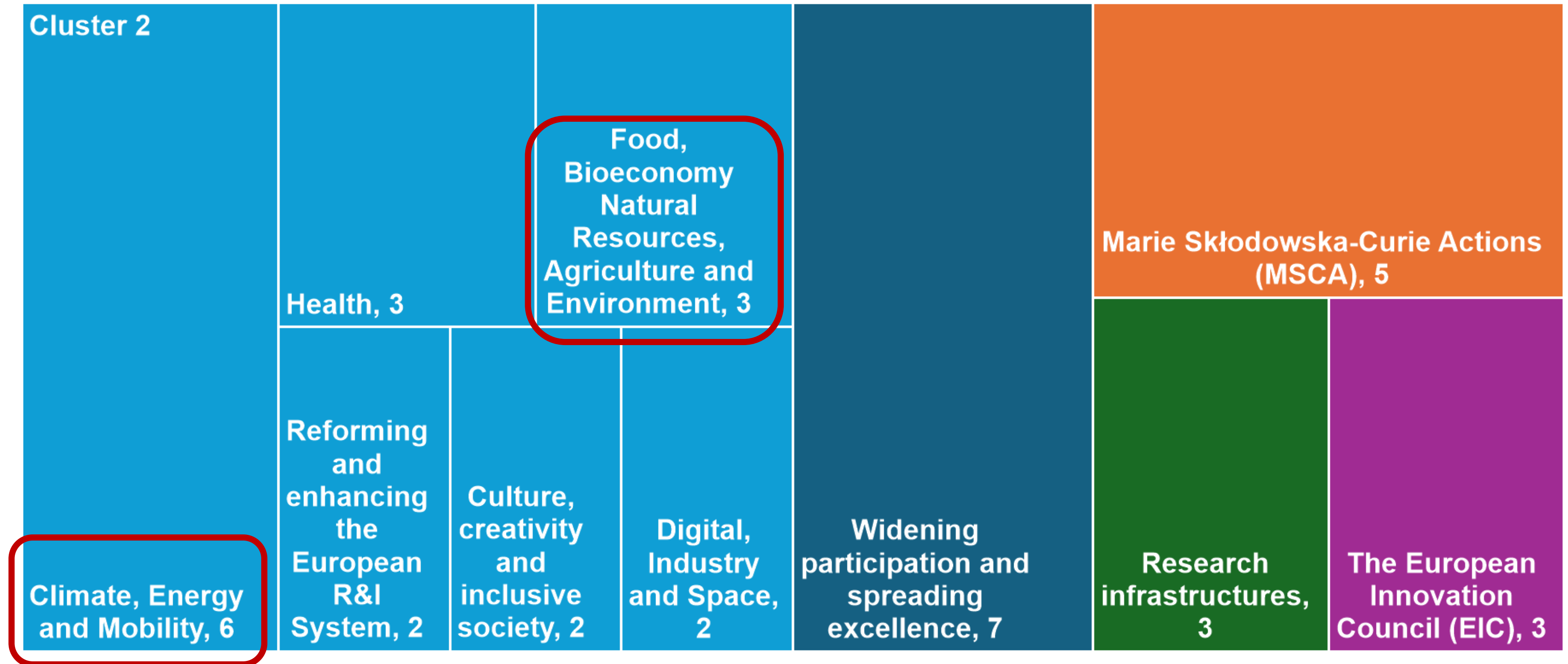




HOW?

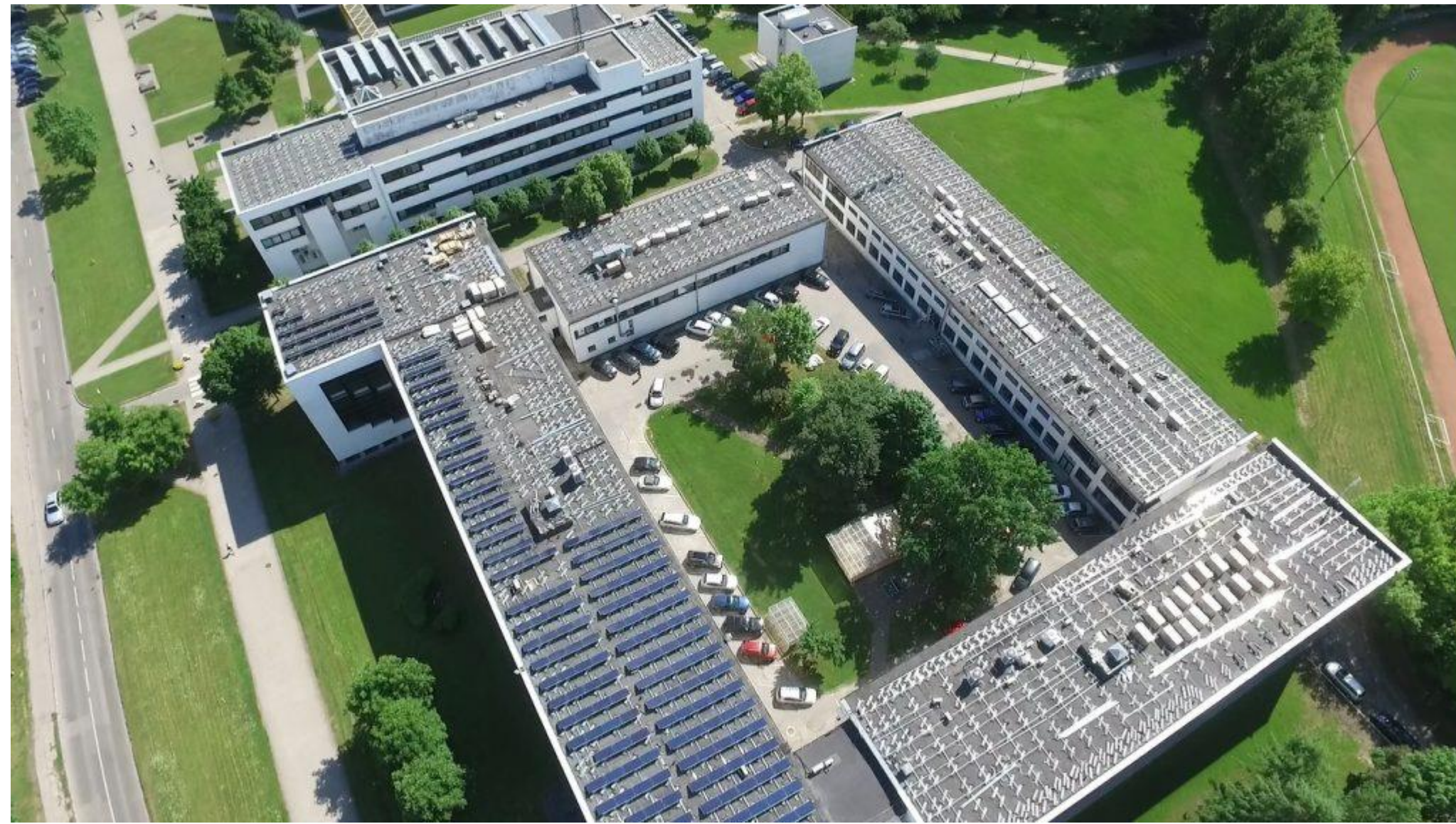
Some of the examples

KTU PARTICIPATION IN HE PROJECTS WITHIN THEMATIC PRIORITY / PILLAR, number of projects



<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon-dashboard,%202024-11-26>

The University's infrastructure projects contribute to the **European Union's green transformation initiative**, apply energy efficiency solutions, contribute to the reduction of environmental impact and CO₂ emissions.

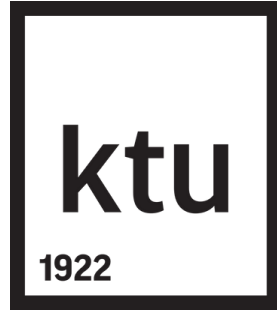


Sustainable Development of Project Management System contributes to (4P):

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- innovation sustainability;
- environmental sustainability;
- **social sustainability of KTU.**

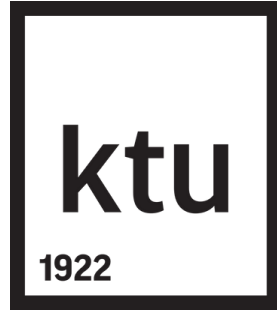
For PEOPLE





HOW?

Some of the examples



- Community building
- Engagement of researchers
- Promoting Citizen Science
- Building international networks
- Etc.

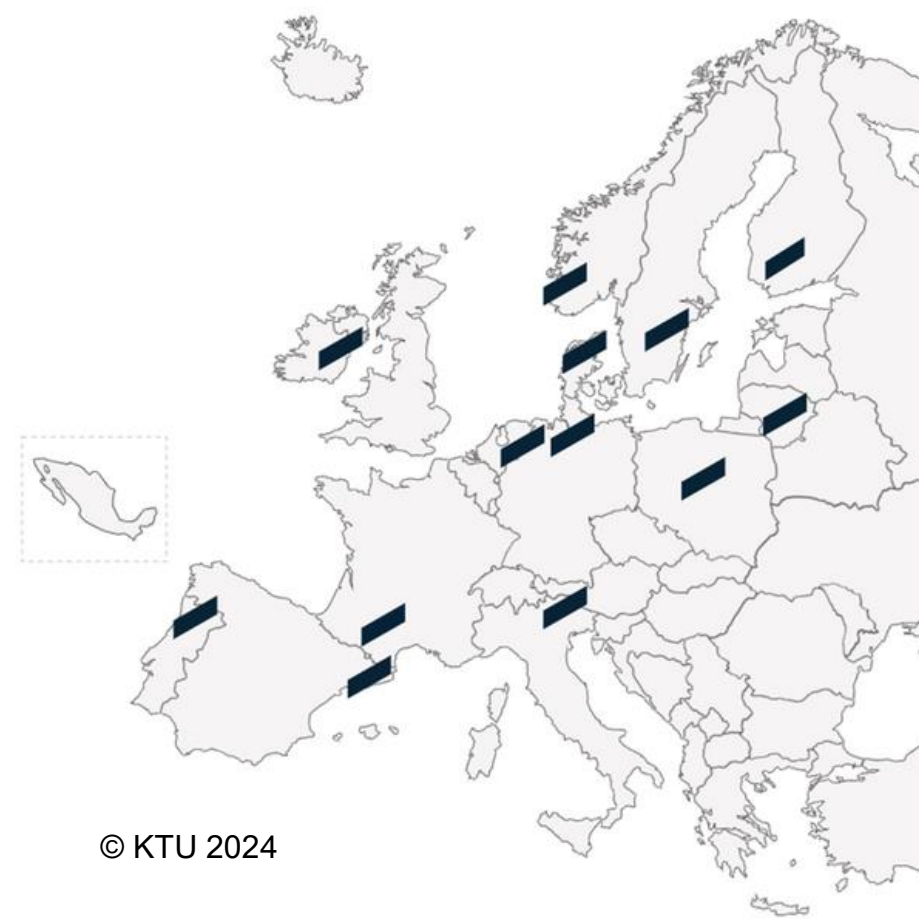


EUROPEAN CONSORTIUM OF Innovative Universities

The Kaunas University of Technology is a member of the [ECIU](#) consortium, the international consortium of research-intensive universities, with collective emphasis on innovation, creativity, and societal impact, driving the development of a knowledge-based economy.

FROM 2019 ECIU JOINED EUROPEAN UNIVERSITIES ALLIENCES INITIATIVE (EC).

Ground-breaking and innovative educational model on a European scale.



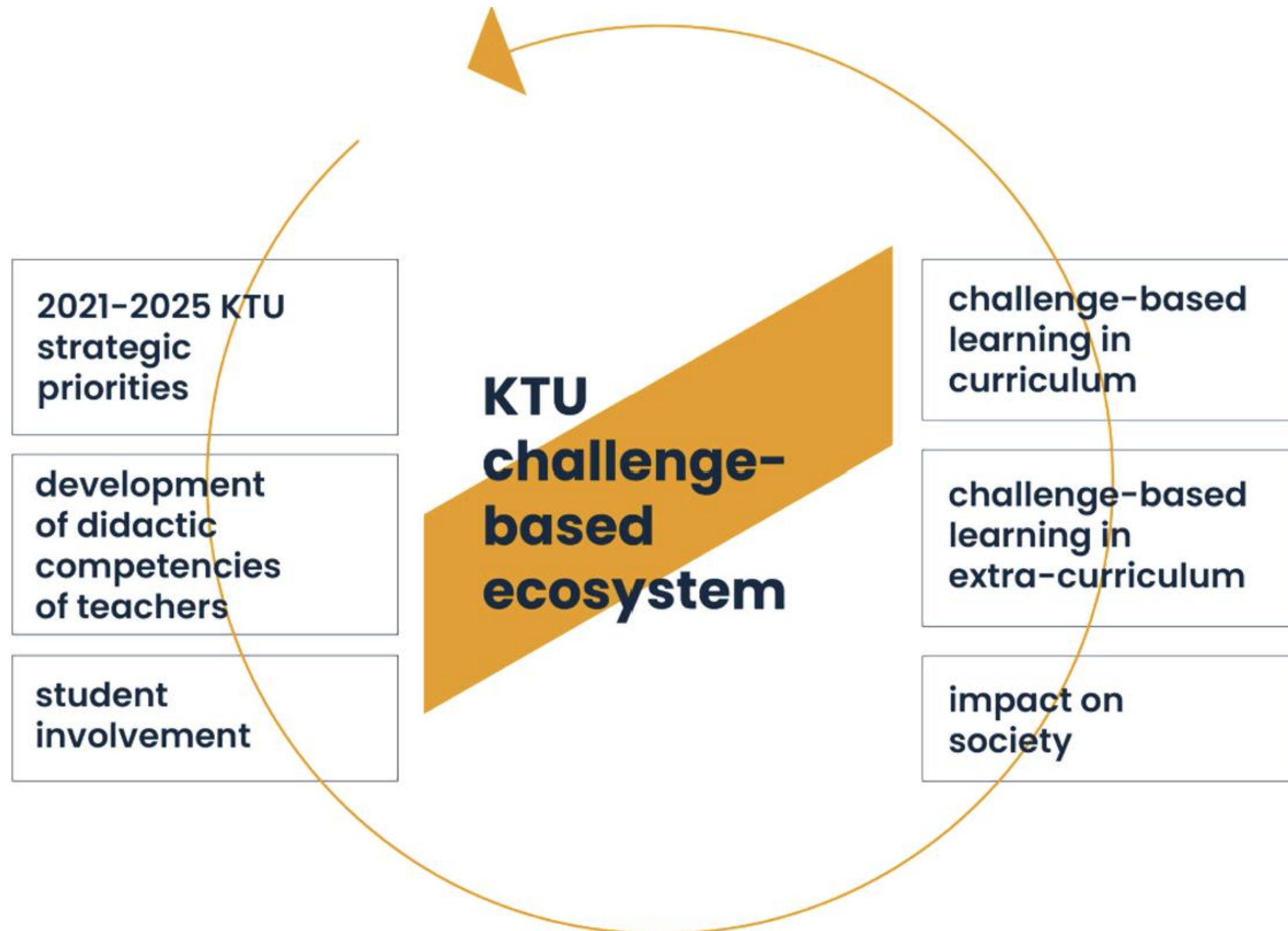
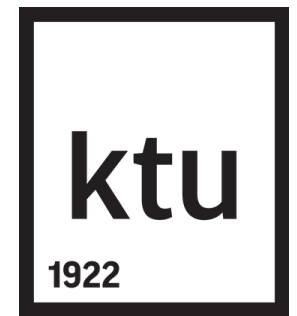


ECIU University is an agile, open agora at the European level for solving multi-disciplinary societal challenges, doing research and learning for life.

The ECIU University will create a new university that is driven by the demands of society, citizens, and industry which enables us to work together across the borders of Europe and come up with solutions for the sustainable development goals.

- ✓ Personalised flexible learning pathways.
- ✓ Challenge-based learning with micro-credentials.
- ✓ Digital transformation with excellent user experience and sustainable, joint structures as tools.
- ✓ The community with European identity and the diversity of the partner universities as a strength.

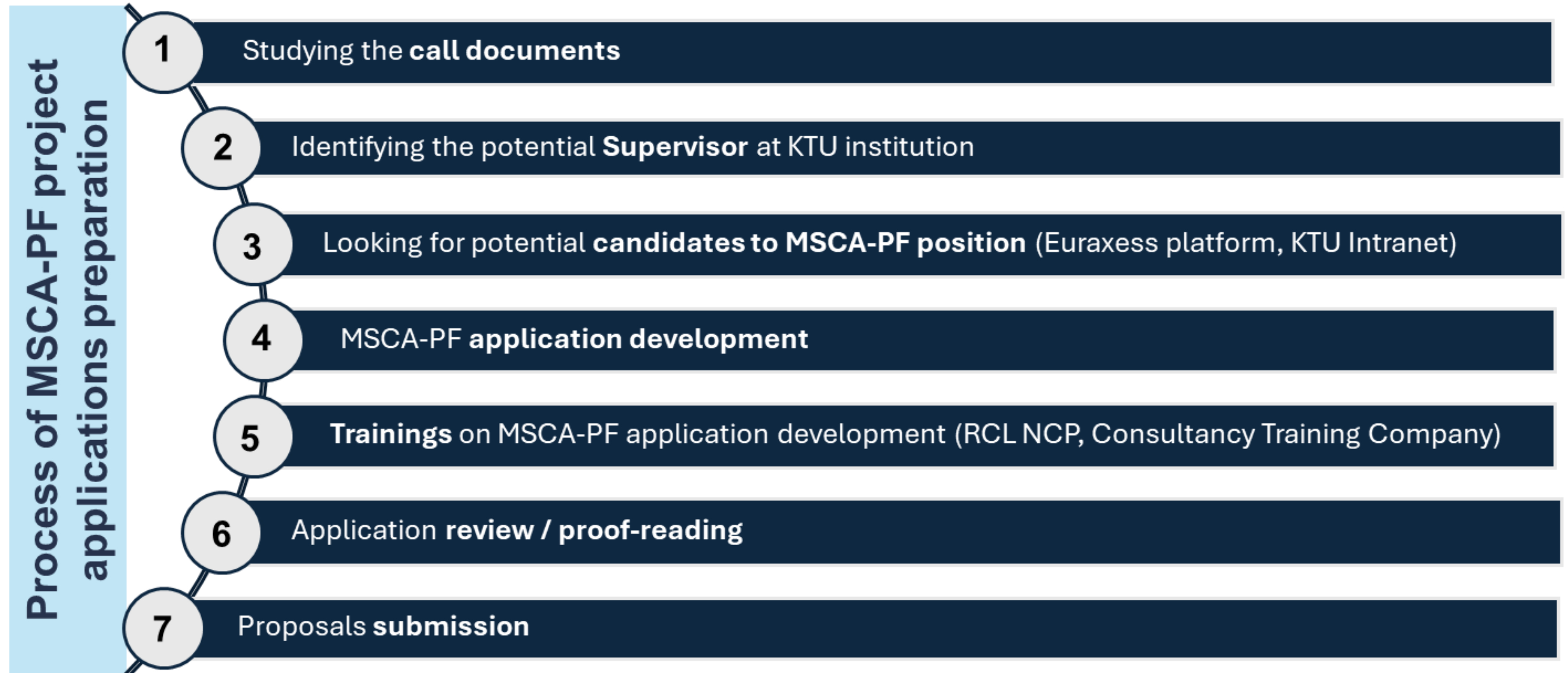
CHALLENGE-BASED LEARNING

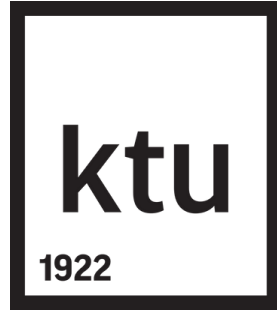




ATTRACTING NEW TALLENTS

CALL ID for 2025: [HORIZON-MSCA-2025-PF-01-01](#)





INTERNAL CULTURE AND COMMUNITY BUILDING













KTU Leopardai
Projektų va

KTU Leopardai
Projektų valdymo diena

Leopardai
Projektų valdymo diena

Success story in creating CoE under Horizon Europe programme



Mandatory condition – **sustainability** of CoE

SustAIIn
Liv
Work

CENTRE OF
EXCELLENCE OF
ARTIFICIAL
INTELLIGENCE
FOR SUSTAINABLE
LIVING AND
WORKING



VYTAUTAS
MAGNUS
UNIVERSITY
MCMXXII



TUHH
Hamburg
University of
Technology



CENTRE OF EXCELLENCE OF AI FOR SUSTAINABLE LIVING AND WORKING (SustAIInLivWork)

Funded under “Horizon EUROPE” programme
“Teaming for Excellence” topic
More information on LinkedIn

<https://www.linkedin.com/company/sustainlivwork/>



Co-funded by
the European Union



SustAIInLivWork Centre of Excellence (CoE)

The CoE aims to meet the needs of business and society, to develop and integrate AI solutions that allow to solve different problems in industry, energy, transport and health sectors.

The university is setting up a Centre of Excellence for artificial intelligence in Lithuania*

** project "Centre of Excellence of AI for Sustainable Living and Working – SustAIInLivWork“, co-funded by the European Union under Horizon Europe programme grant agreement No. 101059903; and by the European Union funds for the period 2021-2027 and the state budget of the Republic of Lithuania financial agreement Nr. 10-042-P-0001.*

© KTU 2024



Planned opening in 2026



FEEL FREE TO CONTACT

KTU Research and Innovation Projects Centre

Vilma Karobliene

e-mail: vilma.karobliene@ktu.lt or e-mail:

mipc@ktu.lt