

Horizon 2020 Widening measures at KTU (ERA Chairs, Teaming, Twinning projects)

Assoc. Prof. Dr. Leonas Balaševičius
Kaunas University of Technology

18 January 2019

THE UNIVERSITY

ENVIRONMENT

4 campuses
in 3 cities



8 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

9 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
- Panevėžys Faculty of Technologies and Business

- ISM University of Management and Business, Vilnius

2 valleys

„Nemunas“ Valley

Food Research and Technology Competence Centre laboratories with unique equipment for the food industry in the Baltic region

„Santaka“ Valley

Science, Technology Centre and Technological Business Incubator

Global Competitiveness



interdisciplinarity
internationality
innovations and technology transfer
integrating sustainability
genious students, academia



Priority areas of research and education

Innovation management

Transport and aviation technologies

Health technologies

Food technologies

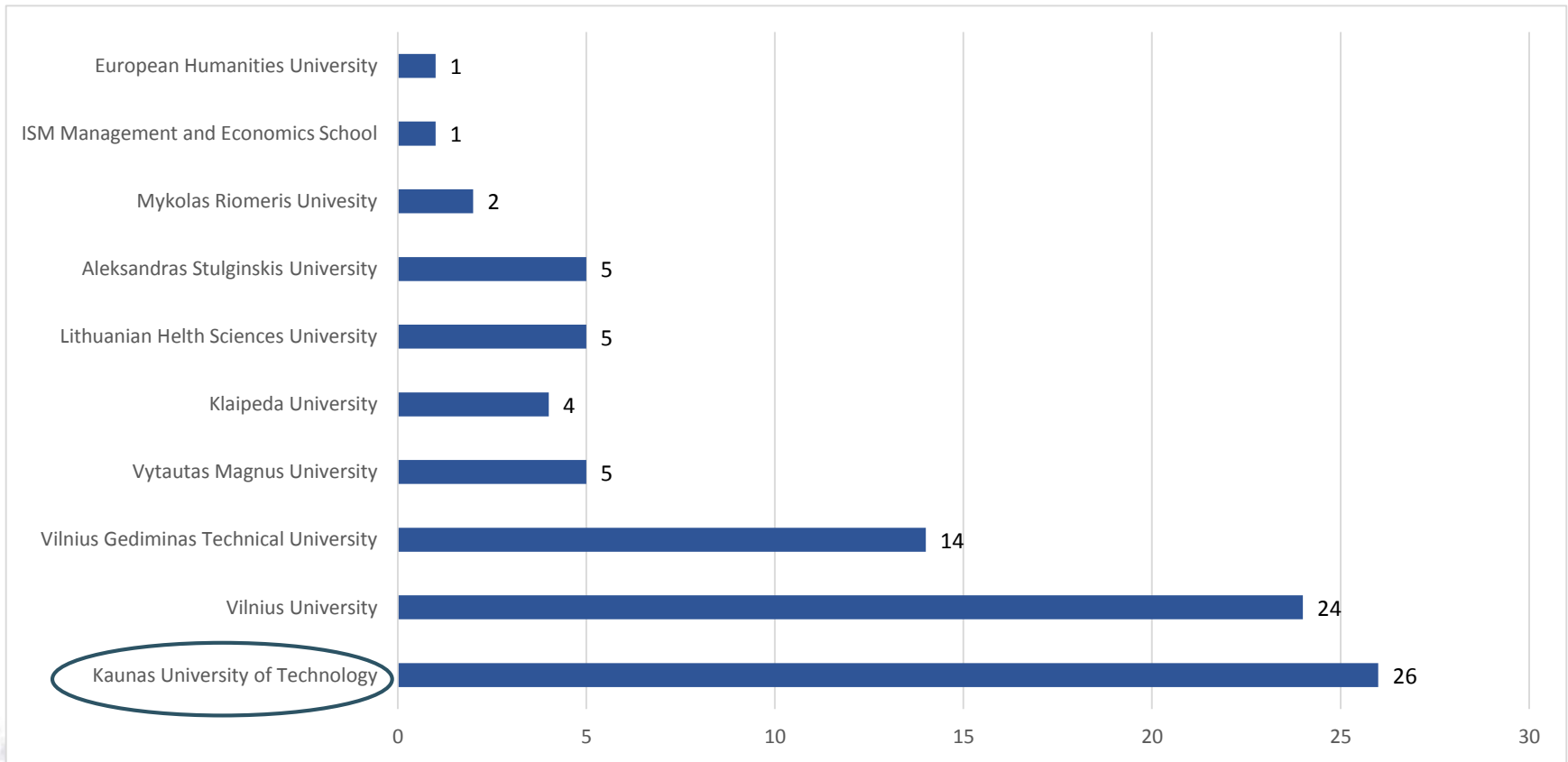
New materials for industry and medicine

Digital transformation and smart environments

Horizon 2020



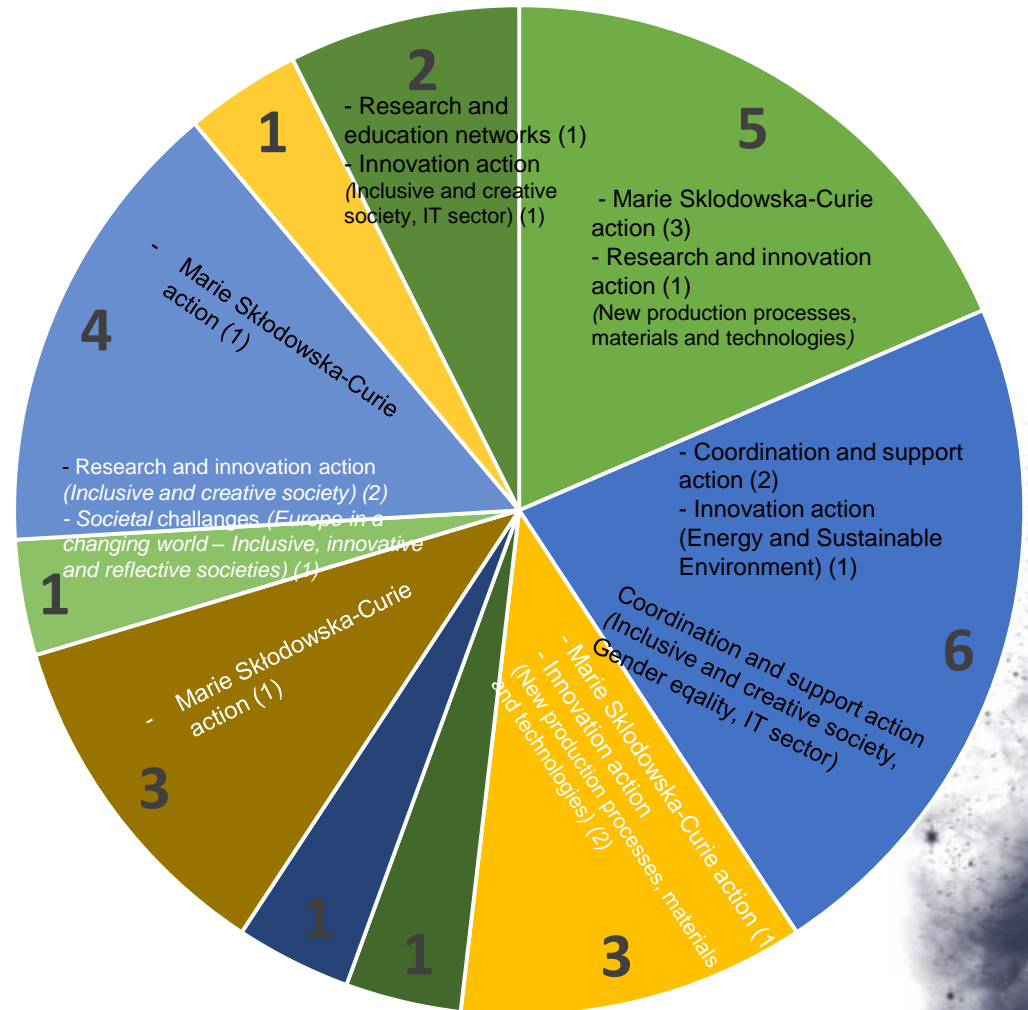
Horizon 2020 projects (2014-2018) in Lithuanian Universities



Source: <https://webgate.ec.europa.eu/dashboard>

Statistic of KTU Participation in H2020 Program Projects, 2014-2018

- Faculty of Chemical Technology
- School of Economics and Business
- Faculty of Informatics
- Faculty of electrica; and electronics engineering
- Faculty of mathematics and natural sciences
- Prof. Kazimieras Baršauskas Ultrasound Research Institute
- Faculty of Mechanical Engineering and Design
- Faculty of Social Sciences, Arts and Humanities
- Institute of Materials Science
- Administrative Depratments



ERA – Chairs

EXCELLENCE TO INSTITUTIONS



ERA – Chairs

EXCELLENCE TO INSTITUTIONS

	2017	2018
Submitted proposals	■ ■ ■ ■	■ ■
Funded projects	■	?
Above threshold	■	?
Bellow threshold	■	?

Project „Industry 4.0 impact on management practices and economics“ (No. 810318).

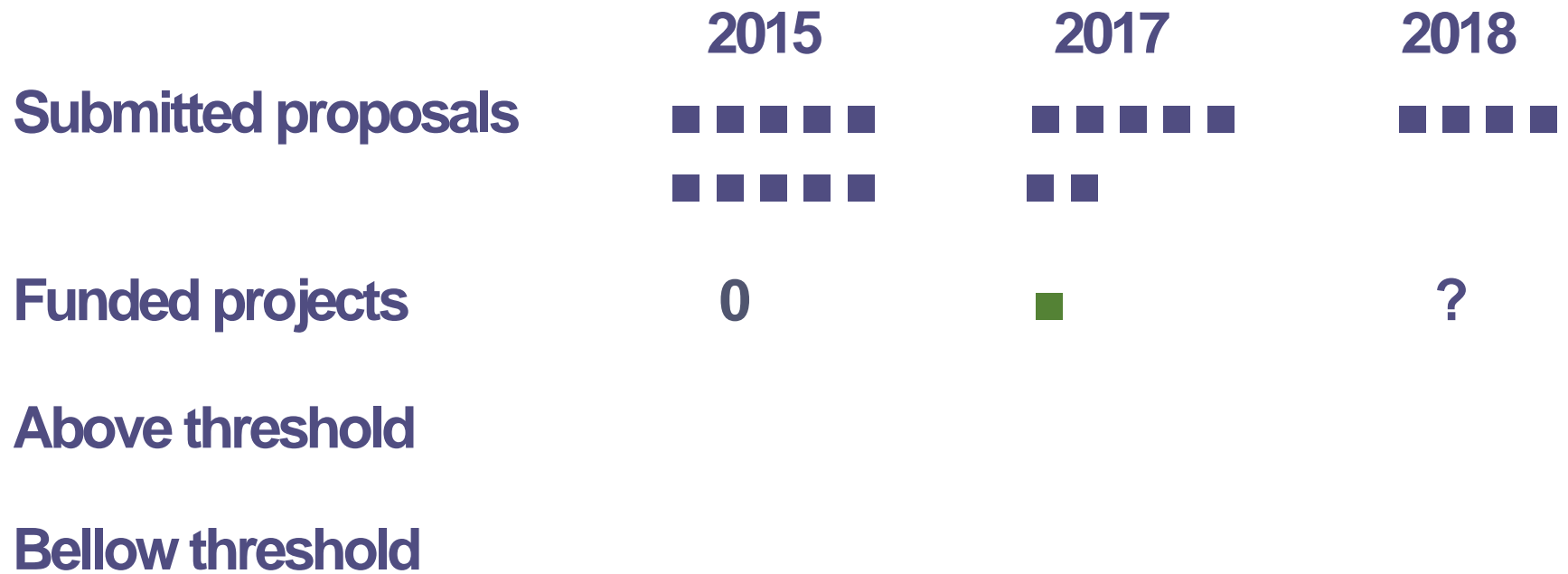
Implemented by KTU School of Economics and Business
The objective of the IN4ACT project is to implement structural changes at the KTU School of Economics and Business through the opening of an ERA Chair in “Industry 4.0 Management and Economics” research, to increase research excellence, socio-economic impact, international reputation, and attractiveness to international talented researchers and students. An ERA Chair team of 6 international researchers will be recruited to achieve an objective of the project.

Twinning

INSTITUTIONAL NETWORKING



Twinning INSTITUTIONAL NETWORKING



Twinning



Project „Knowledge-Empowered Entrepreneurship Network to position Kaunas University of Technology at the forefront of EU research in entrepreneurship (KEEN)“ (No. 810329).

The overall objective of the KEEN project is to strengthen the research excellence of University in entrepreneurship, improve its capacities to exploit and disseminate its research outputs, and enhance its ability to engage the public in its research and entrepreneurship awareness, understanding, and acceptance. To reach such objective, the KEEN project will create with Cranfield University (United Kingdom), Bergische Universität Wuppertal (Germany), and Universität St. Gallen (Switzerland), a network named “Knowledge-Empowered Entrepreneurship Network”.

Teaming

INSTITUTION-BUILDING



Coordinator of Centre of Excellence in Science and Technology for Healthy Ageing



(Teaming phase 1, project HEALTH-TECH, No 664339)

4 STRATEGIC RESEARCH AND INNOVATION TOPICS



Mechanisms for age-related diseases

Biomarkers for age-related diseases

Diagnostics and monitoring technologies for age-related diseases

Regenerative technologies for age-related diseases

Integrating Lithuanian Expertise:

Kaunas University of Technology

Lithuanian University of Health Science

Vilnius University



Supported by Advanced Partners:

Lunds University

Teknologian Tutkimuskeskus VTT

Coordinator of Centre of Excellence of the Internet of Things

(Teaming phase 1, project Innolteam, No 763805)



3 STRATEGIC RESEARCH AND INNOVATION TOPICS



Interface and interaction design approaches for Smart Environments



Cybersecurity aspects



Data analysis and visualisation

Integrating Lithuanian Expertise:

Kaunas University of Technology

Vilnius Gediminas Technical University

State Enterprise Centre of Registers



Supported by Advanced Partners:



Linköping University



Interactive Institute Swedish ICT

Partner of Centre of Excellence for Cultural and Creative Innovations in Lithuania

(Teaming phase 1, project InnoCult, No 763748)



4 MAIN OBJECTIVES OF THE PROJECT



CCI ecosystem dynamics



CCI (Re)volutionary competence, attitudes and skills



CCI open innovation process



CCI digitalisation

Integrating Lithuanian Expertise:

Vytautas Magnus University



Kaunas University of Technology



Supported by Advanced Partner:

Politecnico Di Milano



Widening Actions

How to make it ~~impossible~~ ?

Widening Actions

How to make it possible?

Competences
Experience
Capacity
Networks

from



Competence in implementing projects related to Centre of excellence development at KTU



2

as a project coordinator (FP7 - NANOMAT, CEOSeR)

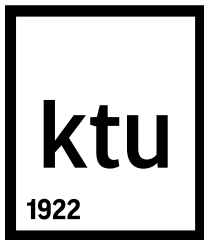
Widening Actions

How to make it possible?



Synergies with other Lithuanian universities.

Collaboration with other Lithuanian universities (Lithuanian University of Health Sciences) funded by internal funds of universities leads to big research projects.



KEY TO SUCCESS STORY



- pre-/post-award Grants Support Office – Research and Innovation Competence Centre at University
- events / workshops for researchers
- support from external experts
- sharing good practice
- learning from mistakes
- analyzing ESR of proposals → improving → resubmitting
- active participating in COST actions for networking and scientific articles publications

CHALLENGE



What's ours next venture?



The background of the slide is a photograph of the Earth as seen from space. The curvature of the planet is visible, with a thin blue atmosphere layer. The landmasses of Europe and Africa are partially visible in the lower half of the frame. The text 'Horizon Europe' is overlaid on this image.

Horizon Europe

Horizon 2020 Widening measures at KTU (ERA Chairs, Teaming, Twinning projects)

Assoc. Prof. Dr. Leonas Balaševičius
Kaunas University of Technology

2019-01-19