

Development of the Co-Creation Ecosystem for Improving the Quality of Education

Prof. Dr. Eugenijus Valatka
Rector of Kaunas University of Technology
Lithuania

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What is Co-Creation?

“A transparent process of value creation in ongoing, productive collaboration with, and supported by all relevant parties, with end-users playing a central role”.

(Jansen and Pieters, The 7 Principles of Complete Co-creation, 2017).

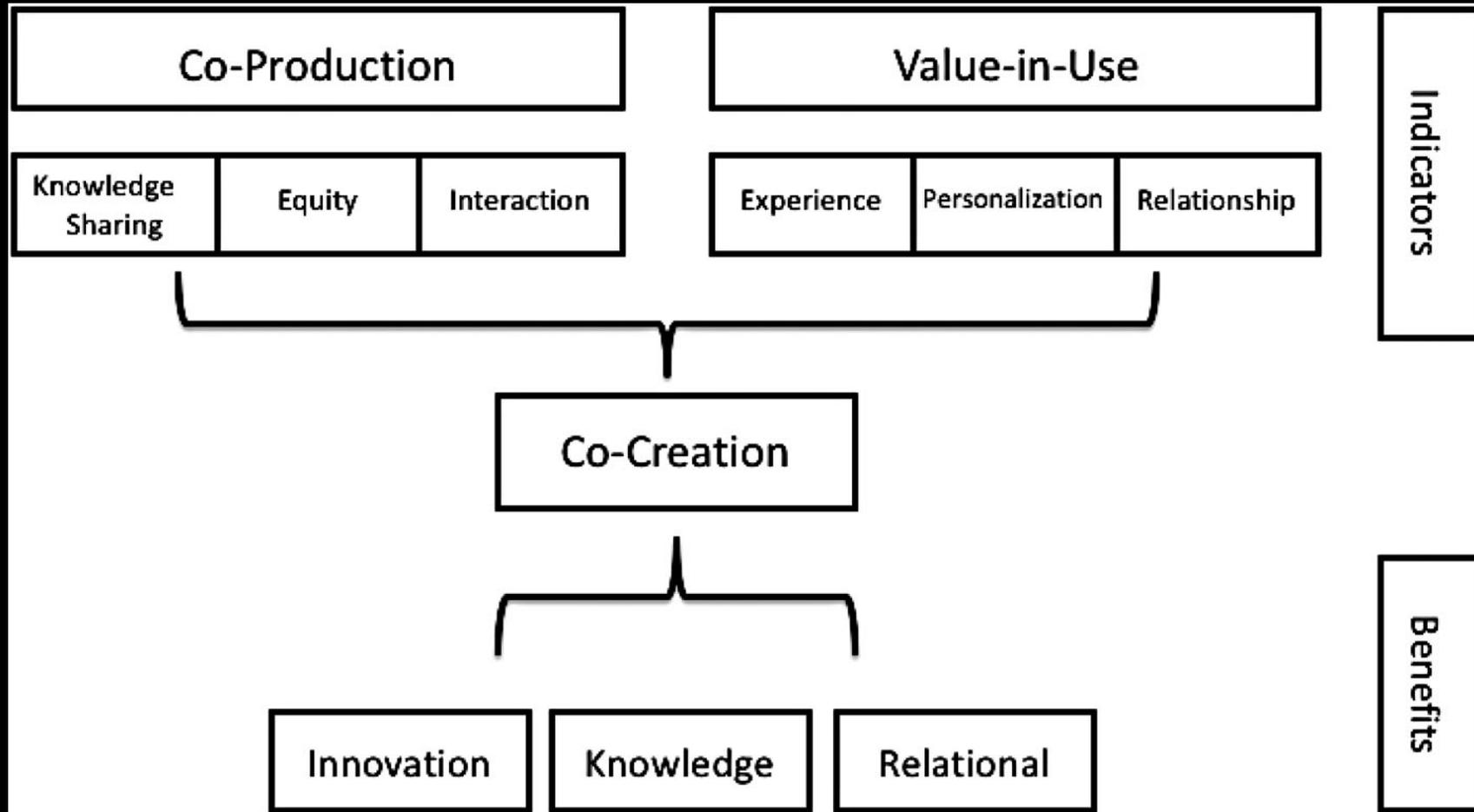
Why Co-Creation?

“We believe that universities must jointly shift focus further towards open co-creation spaces and ecosystems to solve challenges requiring specific European multi-disciplinary approaches. The collaboration of learners, teachers, researchers, companies, the public sector, NGOs and regional embedded ecosystems throughout Europe is the key. Stepping out of the traditional silos is necessary.”

(ECIU University 2030 Vision)



Model of Value Co-Creation in HE

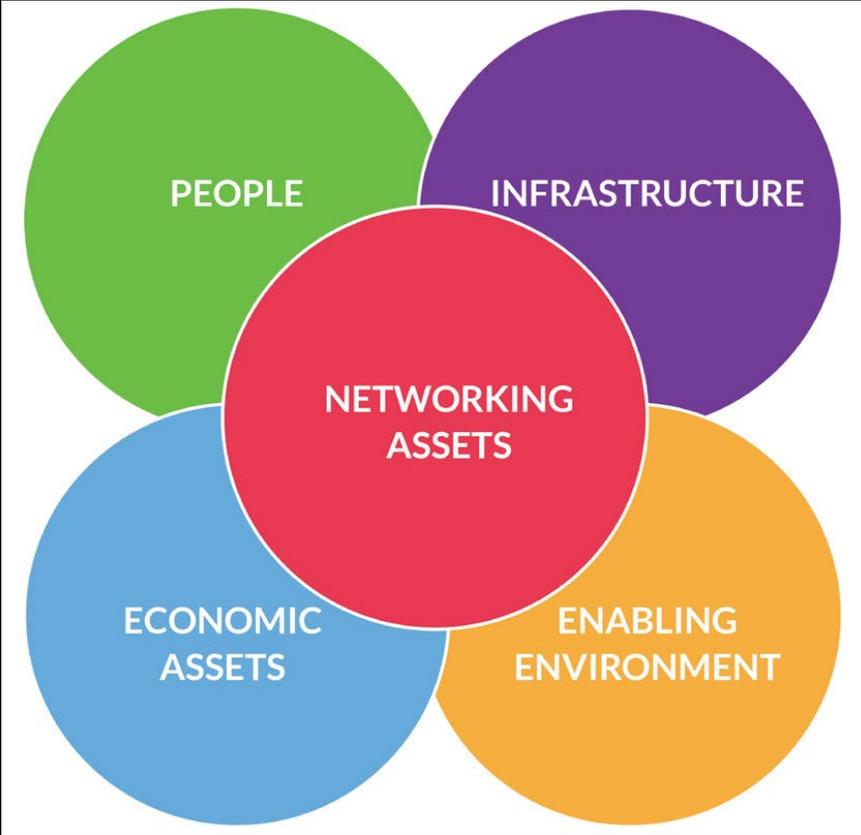


Source: Mollie Dollinger, Jason Lodge & Hamish Coates (2018) Co-creation in higher education: towards a conceptual model, Journal of Marketing for Higher Education, 28:2, 210-231.

Ecosystem for Co-Creation

Basic element for innovations, the “creative class”

Variety and size of industries, business and sectors; universities and research and development facilities; maturity of technology and creative industries; availability and size of innovation-oriented investment firms...



Transportation, internet access, offices, parks and venues for events, festivals, cafes, restaurants, theaters, museums...

Public policies and the government commitment to promote innovation

“Collision theory”: accelerators, incubators, meetups, tech community events, skill training programs, collaboration spaces, networks of mentors...

Example (1): Initiative “Future is Electronics”

Partners:

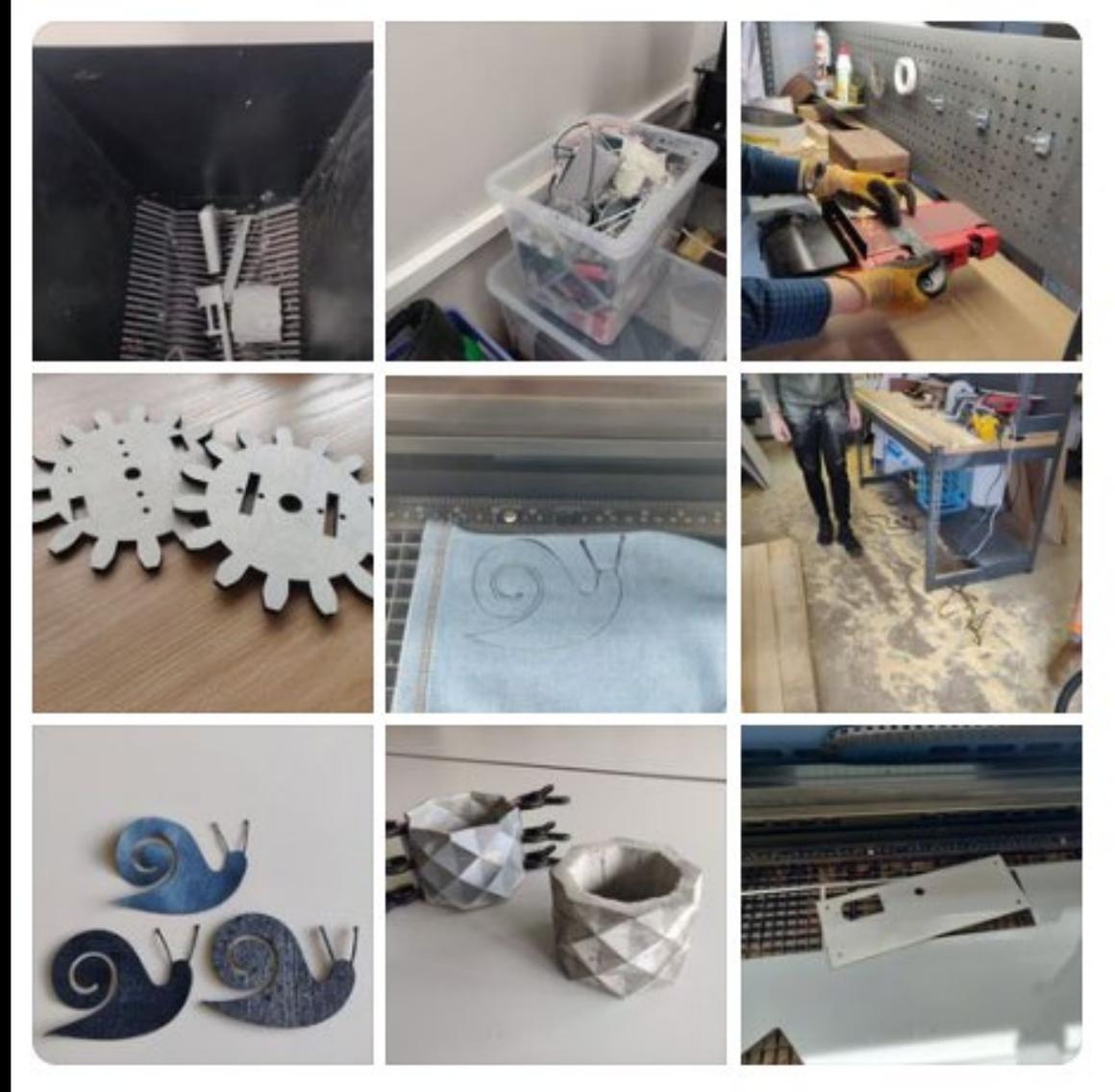
- **HEI:** Kaunas University of Technology, Kaunas Technical College;
- **Industry:** Continental Automotive Lithuania, ELLA Lithuania, Kitron, Littelfuse LT ir Teltonika Networks;
- **Social partners:** Kaunas City Municipality, Kaunas IN, Alliance for Recruitment.



Example (2): Circular Economy Makerspace

Partners:

- Kaunas University of Technology;
- ISM University of Management and Economics;
- Kaunas City Municipality.



Example (3): Kaunas Light Festival



The Human Side of Technology





The Human Side of Technology



THANK YOU FOR YOUR ATTENTION!





Lodz University of Technology

Contribution of European networks to the development and quality of education

prof. Krzysztof Jóźwik – Rector of the Lodz University of Technology

The European Strategy for universities presented on 18th January, 2022 by the European Commission

aims at supporting and enabling universities to adapt to changing conditions, to thrive and to contribute to Europe's resilience and recovery.

It seeks to take transnational cooperation to a new level of intensity and scope and to develop a genuinely European dimension in the higher education sector, built on shared values. Deeper and more effective transnational cooperation in the higher education sector across all Europe is key to enhance its attractiveness and global competitiveness, and to build a resilient and sustainable European society and economy.

TUL at ECIU

ECIU



EUROPEAN CONSORTIUM OF INNOVATIVE UNIVERSITIES - ECIU

a network of universities united by a common profile of shared beliefs, interests, and mutual trust.

The ECIU was founded in 1997, and the name underlines the European dimension of a selected group of entrepreneurial universities. ECIU University was established as European University Alliance in 2019.

ECIU remains dedicated to ensuring a culture of innovation in all of our institutions, and to provide a catalytic role for innovation in business and society at large.

OUR SHARED PROFILE

Technology, engineering and social sciences	Firm commitment to innovation and entrepreneurship	Research intensive
Innovative forms of teaching and learning	High quality education with an international focus	Close ties to industry and regional development
Experiments in management and administration systems	European policy-making	Sustaining and nurturing internationally minded staff



How do we provide a common QA system?

ECIU maintains a highly competitive edge, allowing members **to learn from each other and to progress activities that individual institutions could not pursue on their own.**

In European public debate, the ECIU as a network **provides a more powerful collective voice with greater impact than individual institutions engaged on their own.**

Main pillars and driving forces of Quality Assurance Systems



- Microcredentials
- European Joint Degree
- European Legal Statute

Dynamically
changing
landscape of
HE



New Registered Users	2019	2020	Total
	8M	20M	65M
	5M	8M	32M
	1.3M	4M	13.5M
	350k	700k	2.2M

What is a micro-credential?



A micro-credential is the record of the learning outcomes that a learner has acquired following a small volume of learning. These learning outcomes have been assessed against transparent and clearly defined standards.

Courses leading to micro-credentials are designed to provide the learner with specific knowledge, skills and competences that respond to societal, personal, cultural or labour market needs.

Micro-credentials are owned by the learner, can be shared and are portable. They may be standalone or combined into larger credentials. They are underpinned by quality assurance following agreed standards in the relevant sector or area of activity.



- <https://education.ec.europa.eu/sites/default/files/2022-01/micro-credentials%20brochure%20updated.pdf>

Quality assurance approach for micorcredentials

Micro-credentials are subject to internal and external quality assurance by the system producing them **(e.g. the education, training or labour market context in which the micro-credential is developed and delivered).**

Quality assurance processes must be fit-for-purpose, be clearly documented, accessible, **and meet the needs of learners and stakeholders.**

External quality assurance is based primarily on the assessment of providers (rather than individual courses) and the effectiveness of their internal quality assurance procedures.

[Home](#) / [Micro-modules](#)

Choose a micro-module that intrigues you

Tag ▾

University ▾

Status ▾

ECTS ▾

Search for projects by keyword

[SEARCH](#)

There are 139 micromodules live

[View archived micro-modules](#)[Open for application](#) 1 ECTS

Accessibility and user experience - ACC.060

The module introduces the very basics of user experience evaluation in the context of human-technology interaction. These are

[Open for application](#) 1 ECTS

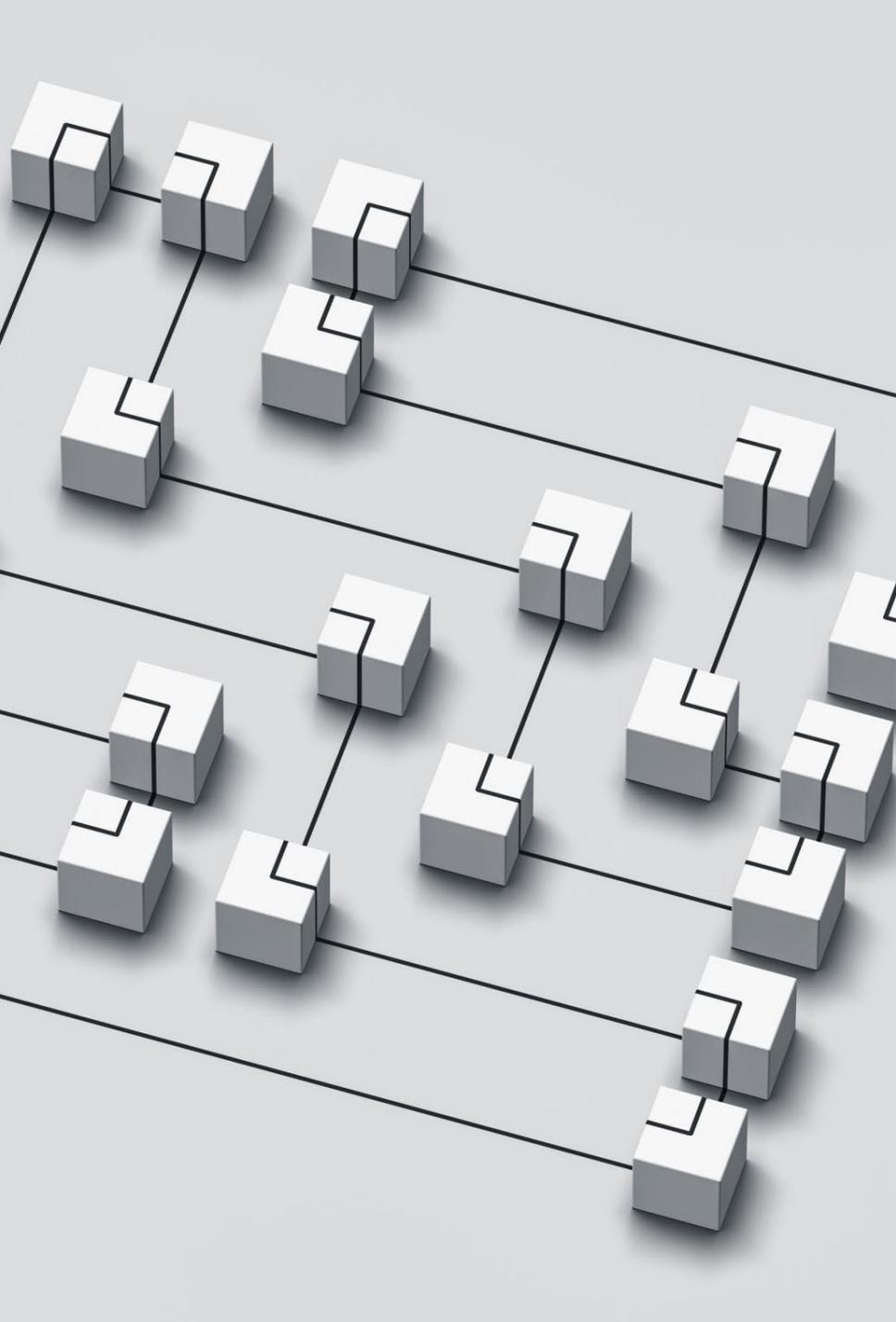
Accessible AI - ACC.210

The thematic module briefly introduces the student to artificial intelligence (AI) and some of the ways in which AI is used to empower people with disabilities. Lectures

[Open for application](#) 1 ECTS

Accessible Documents

During this module, the student will modify their own document (thesis, publication, course work...) to make it more accessible. The module teaches how to make



DIGITAL BADGES – A BIG CHALLENGE AHEAD

- Well-functioning digital credential systems require processes and procedures to be in place for developing, issuing, managing and storing digital credentials.
- Digital credentials provide significant capabilities for recognising and recording learning (e.g. they include consistent metadata, and are easy to share, display and distribute).
- Despite growing popularity and support for digital learning, there is still some mistrust of online education, particularly with respect to learner verification and authentication.



DIGITAL BADGES – A BIG CHALLENGE AHEAD

Europass Digital Credential Infrastructure

The Commission is currently working on the Europass Digital Credentials Infrastructure– a technical infrastructure that organisations can use to issue digital credentials across the EU.

The background document on the Europass Digital Credentials Framework indicates that the “technical approach to be designed for the common framework of digitally signed credentials should allow for identifying, issuing, storing, sharing and verifying digitally signed credentials in a cross-border context”.

New flagship initiatives of European Commission



Erasmus+ Programme (ERASMUS)

Call for proposals

- Pilot a joint European degree label
- Pilot institutionalised EU cooperation instruments to explore the feasibility for a possible European legal status for alliances of higher education institutions

European policy experimentation in higher education
ERASMUS-EDU-2022-POL-EXP



Joint degree - The Council Recommendation on building bridges for effective European higher education cooperation, adopted by the Council on 5 April 2022, based on the Commission proposal from 18th January 2022.

Encourage, where appropriate, and make it easier for higher education institutions engaged in transnational cooperation to provide joint programmes and award joint degrees, in accordance with the Bologna instruments context, and building on the results of the exploratory actions, examine and facilitate the delivery of a joint European degree label.

The main goal of EJD is to:

to examine the options and necessary steps - in close cooperation with Member States, higher education institutions, student organisations and stakeholders - towards a possible joint degree based on a common set of cocreated European criteria. This degree, to be delivered on a voluntary basis at national, regional or institutional level, could attest learning outcomes achieved as part of transnational cooperation 'combining studies in several EU countries', offered for example within 'European Universities'.

It should be easy to issue, store, share, verify and authenticate, and recognised across the EU. It will build on and boost the implementation of the Bologna instruments in the Member States.



European Legal statute

The main goal to support the Member States and higher education institutions in testing the use of existing European instruments from 2022 onwards as a step on the way to facilitating deeper, long-term and flexible transnational cooperation and in examining the need for and feasibility of institutionalised cooperation instruments, such as a possible legal status for alliances of higher education institutions. To be used on a voluntary basis, such instruments.



And what for?

European policy experimentations are transnational cooperation projects that involve testing the relevance, effectiveness, potential impact and scalability of activities through field trials in different countries.

By combining strategic leadership, methodological soundness and a strong European dimension, they enable mutual learning and support evidence-based policy at European level.

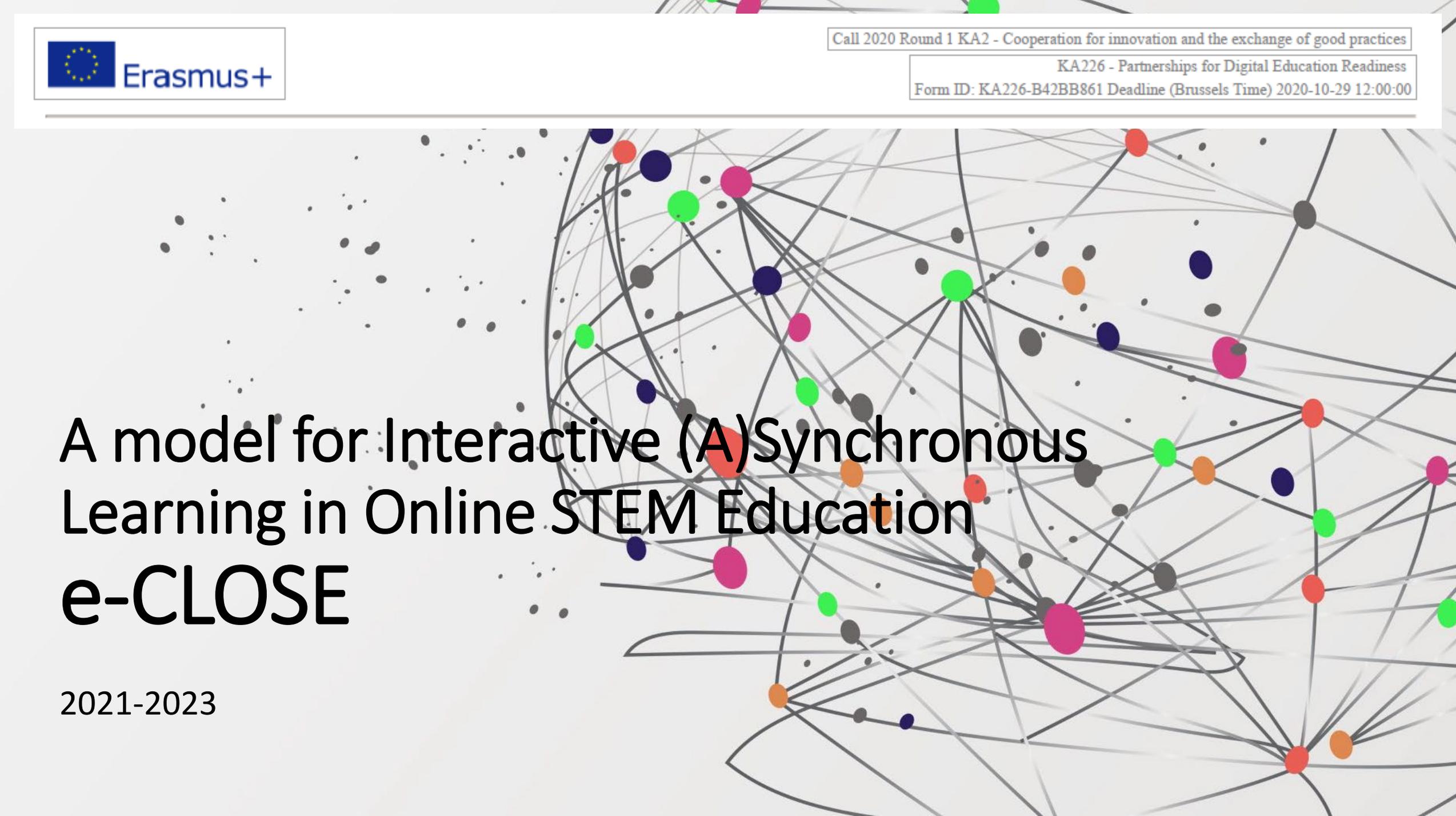
SOURCE: European policy experimentation in higher education ERASMUS-EDU-2022-POL-EXP



**Not only European University
Alliance can do it!**

**Universities of the Baltic University
Programme can do it as well!**





A model for Interactive (A) Synchronous
Learning in Online STEM Education
e-CLOSE

2021-2023

IO5- Online Badges For Sustainable Education (21st Century Skills)

- The aim of this Intellectual Outcome is to create a tool or platform through which teachers can create and award digital badges (micro credentials). Students will also independently document, reflect and provide evidence of their competences. Students will earn badges by completing sustainable education challenges. This IO will serve as a transversal framework to validate transversal skills, classified in two types: soft skills, and skills related with the sustainable development goals as described by the 2030 agenda.

Leading Organisation	POLITECHNIKA LODZKA (E10209033, PL)
Media	Interactive Resource Website Internet Collection Event Exhibition
Participating Organisations	HOCHSCHULE FUR TECHNIK UND WIRTSCHAFT DES SAARLANDES (E10093703, DE) UNIVERSIDAD DE ALCALA (E10208584, ES) UNIVERSIDADE DE AVEIRO (E10208840, PT)
Languages	English



Thank you for your
attention



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HR EXCELLENCE IN RESEARCH



Health



European Union

eua

EUROPEAN
UNIVERSITY
ASSOCIATION

BALTIC UNIVERITIES RECTORS MEETING _UPPSALA _2022

Building a citizens' friendly RESEARCH-EDUCATION- INNOVATION ecosystem

Prof. LUCYNA WOŹNIAK, PhD, DSC

MEET MEDICAL UNIVERSITY OF LODZ

- 🕒 We educate around 11 000 students**
offering them modern lecture halls and classrooms+, unique laboratory facilities, clinical hospitals and the state-of-the-art Medical Simulation Centre, on CKD Campus
- 🕒 We provide health care**
in 3 multiprofile clinical hospitals (a tertiary referral level)
- 🕒 We conduct basic research in medical, pharmaceutical sciences and biotechnology**
we test new technologies and implement innovative solutions public health (integrated care) in cooperation with national & foreign clinical hospitals and business partners
- 🕒 We offer special programmes dedicated to local communities,**
the youth, seniors, the residents of Lodz in collaboration with local authorities, NGOs and international partners (EIT HEALTH, EIP AHA)

FACULTIES AND DIVISIONS

Faculty of Medicine
Faculty of Pharmacy
Faculty of Public Health,
Division of Studies in English
Medical Biotechnology in English
International Doctoral School



11 000

students



1 611

research and teaching staff



314

full professors



900

foreign students

VISION

By the year 2025 we will have become:

- 🕒 an intrnationally recognised teaching and research University which will be engaged in collaboration with partners of world renown
- 🕒 a leader in clinical research and international research projects
- 🕒 a serious competitor on the education market
- 🕒 an attractive employer which inspires, engageges and supports

EDUCATION

Improving the processes
and effects of education

Improving the conditions
for study

Internationalization

COLLABORATION IN THE DEVELOPMENT OF THE HEALTH CARE SERVICE

Improving the management of the
relationship with the environment

Improving relations with subsidiaries
and related entities

Strategic partnerships



RESEARCH AND DEVELOPMENT

Increasing the amount and improving
the quality of scientific research

Expanding and improving
implementation processes

MANAGEMENT AND ORGANIZATIONAL DEVELOPMENT

Increasing the quality and effectiveness
of University employees

Better processes for the support of core
operations of the University

Efficient use of infrastructure

Better strategic management

MUL STRATEGIC APPROACH THE CONCEPT OF THE KNOWLEDGE TRIANGLE



Citizen

EIT Health is one of the largest healthcare initiatives worldwide with more than 150 leading organisations, covering all areas of healthcare: industry, university, research and public



Innovation Projects



Accelerator



Campus

INTERNATIONAL DOCTORAL SCHOOL

- Conducts PhD studies (in English) in the field of medical sciences and health sciences: medical sciences, pharmaceutical sciences and health sciences
- Offers: Implementation doctorate programme – addressed by companies to full-time students simultaneously preparing their PhD at the University under the supervision from both workplaces (currently: Roche, Celonpharma, Polpharma, Mabion)
- Participates in the EIT Health Ageing PhD School
- Offers a wide range of financial support for basic research and international internships



MUL – UNIVERSITY OF RESEARCH

MUL belongs to the group of universities with the greatest scientific and research potential, as recently evaluated by the International Board of experts. It is one of 19 universities invited to the ministerial competition called “Initiative of excellence – a research university”

🕒 2014-2020

International projects:

86 projects totalling **PLN 31 011 196,65**

which included:

11 H2020 projects - **PLN 8 513 762,41**

68 EIT HEALTH projects - **PLN 18 477 727,24**

Structural projects:

42 projects of a total value of over **PLN 320 mln**

Grants obtained from National Science Centre

🕒 2019-2021

The number of the initiated projects (agreements signed): **170**

A total amount of funding for agreements:
PLN 76 216 213,00

A total amount of funding for equipment:
PLN 5 660 428,00

OUR NETWORK SPANS ACROSS EUROPE AND BEYOND

-  Co-location centre
-  EIT Health InnoStars countries and regions
-  International Headquarters
Coordinator: Roche
Diagnostics: GmbH



Health





The EIP AHA 3* Reference Site

- consortium of the regional and local authorities, hospitals, health- and social care institutions
- aiming at the implementation of multidimensional approach towards AHA
- based on innovation in healthcare
- provide a living and exclusive platform for sharing with other European RSs good practices, know-how and resources for innovation in AHA,

primarily to benefit the citizens of the Lodzkie Region.

The intention of MUL is to extend its influence nation-wide towards the ultimate goal of becoming a National Centre for AHA in Poland.

STRATEGY FOR MUL INNOVATION AND SUSTAINABILITY



BRain

RESEARCH DEVELOPMENT INNOVATIONS AT THE LODZ CAMPUS OF BIOMEDICINE AND PHARMACY

Implementation period: 01/09/2018 – 30/11/2021

Project value: **PLN 63,3 mln**

Main goal: a twenty-percent increase in the marketization
of research and development carried out by the MUL

The project will enhance the cooperation of the units of the Medical University of Lodz, thereby leading to the creation of interdisciplinary research teams. BIG DATA Centre will be opened in the building.

CENTRE FOR INNOVATION AND TECHNOLOGY TRANSFER

- Patent office, support for start ups, contact point for business partners
- Unique collection of biosamples in BioBank'u providing excellent conditions for the implementation of scientific and research projects
- The state of the art experimental laboratories in vivo and in vitro – Animal research facility
- The complex of laboratories of the Didactic Center – HumanLab
- Modern office infrastructure for business of Business Incubator



MOLEcoLAB

RESEARCH, DEVELOPMENT AND COMMERCIALISATION OF KNOWLEDGE

Development of research and innovation infrastructure

Implementation period: 01/12/2018 – 31/12/2021

Project value: **PLN 60 mln**

The project main objective:

to enhance marketisation of research and development activities of MUL and thereby increase the university competitiveness via construction of modern R&D laboratories MOLEcoLAB and providing them with modern research equipment, which will contribute to the innovation and competitiveness level of the region of Lodz.

CLINICAL TRIAL UNITS

- 🕒 2,8 mln EUR granted for project funding for the best Centre by the Medical Research Agency (MoH) as part of the competition for Clinical Research Support Centers
- 🕒 Member of the Polish network of clinical trials (PSO)
- 🕒 Member of the Clinical Research Infrastructure Network (ECRIN), a not-for-profit intergovernmental organisation that supports the conduct of multinational clinical trials in Europe

EcoUMED

- 🕒 Sustainable university development via organisational, ecological and social activities
- 🕒 Responsible university management based on organisational order and friendly surrounding
- 🕒 Energy-efficient and passive construction
- 🕒 Promotion of healthy habits and pro-environmental attitudes among students and local community





MEDICAL
UNIVERSITY
OF LODZ



Prof. LUCYNA WOŹNIAK, PHD, DSC

Medical University of Lodz
Vice-Rector for Research Strategy and International Relations

POLAND, 90-419 Łódź, Al. Kościuszki 4
Phone: +48 42 272 58 13
e-mail: prorektor.nauka@umed.lodz.pl

• en.umed.pl

WE INVITE YOU TO COOPERATE!



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