Tranformarea digitală a educației în contextul dezvoltării alianțelor de Universități Europene
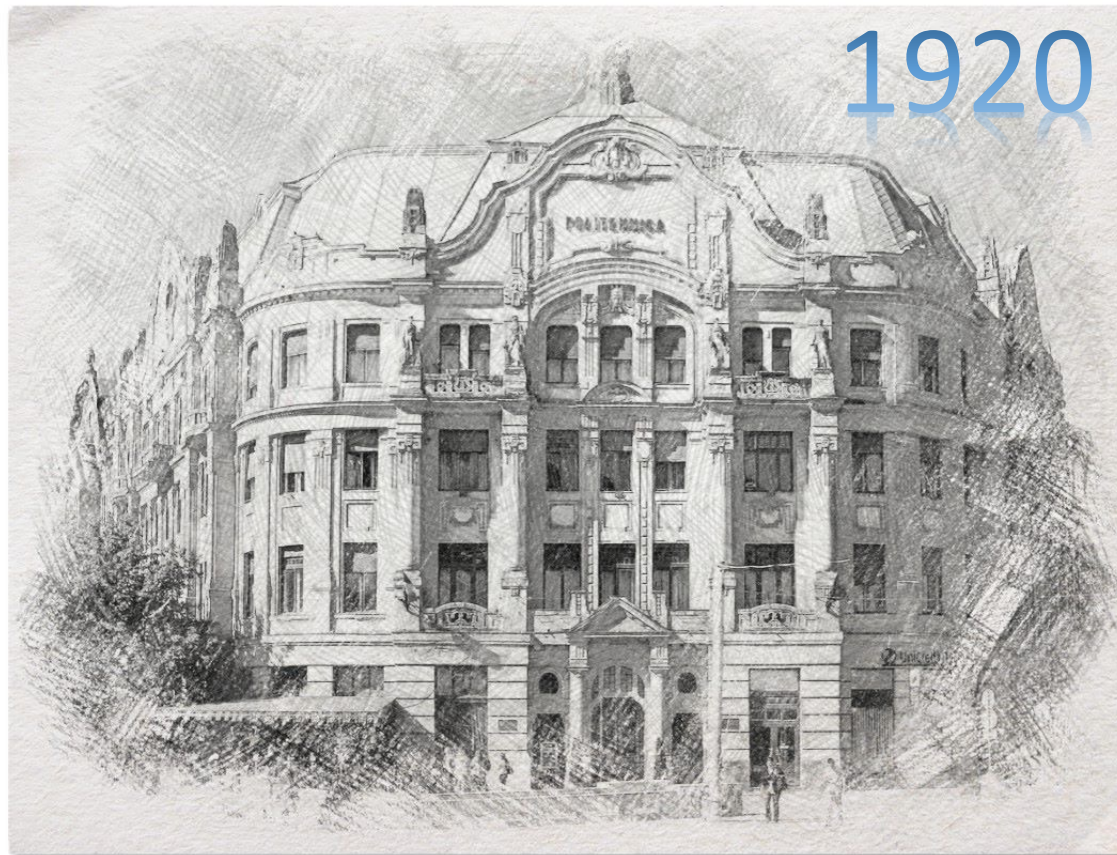
Prof.Dr.Ing. Radu VASIU

Universitatea Politehnica Timisoara

Conferința Smart Diaspora, Timișoara, 10-13 aprilie 2023

Universitatea Politehnica Timisoara
Romania

Universitatea Politehnica
Timisoara, Romania

UPT – unica instituție din Vestul României

clasificată drept **Universitate de Educație și**
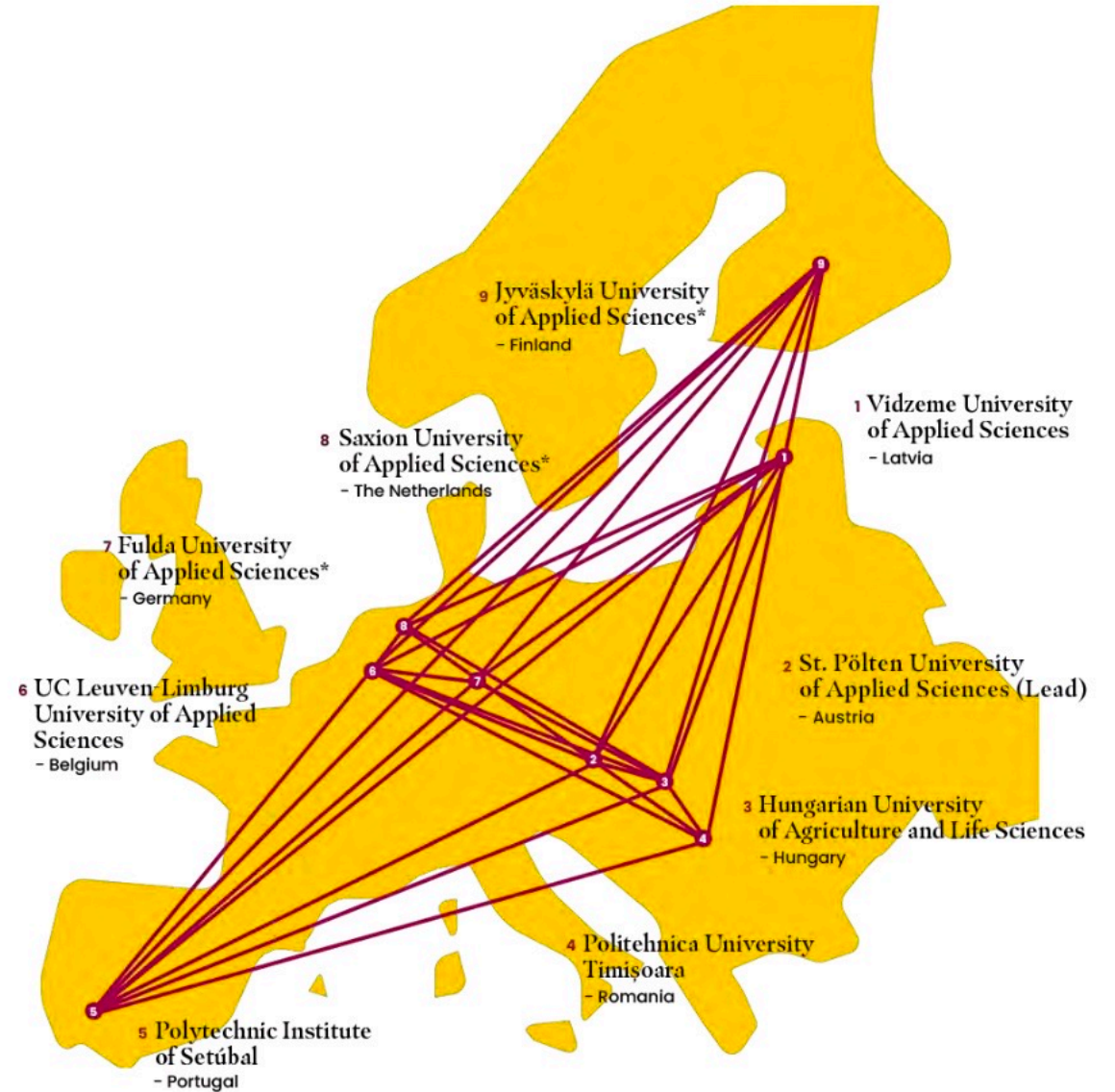
Cercetare Avansată

E³UDRES²

Engaged and Entrepreneurial European University as Driver for European Smart and Sustainable Regions

E³UDRES² STRATEGY 2024 – 2027

9 Jyväskylä University of Applied Sciences* – Finland

8 Saxion University of Applied Sciences* – The Netherlands

7 Fulda University of Applied Sciences* – Germany

6 UC Leuven-Limburg University of Applied Sciences – Belgium

1 Vidzeme University of Applied Sciences – Latvia

2 St. Pölten University of Applied Sciences (Lead) – Austria

3 Hungarian University of Agriculture and Life Sciences – Hungary

4 Politehnica University Timișoara – Romania

5 Polytechnic Institute of Setúbal – Portugal

What's E³UDRES²?

European University alliance with members from Austria, Belgium, Hungary, Romania, Latvia, Portugal, Germany, Netherlands and Finland

Innovative cooperation in research, teaching, knowledge transfer **and** innovation

- › **St. Pölten University Of Applied Sciences (Lead)**
  https://fhstp.ac.at/

- › **Politechnic Institute of Setúbal**
  https://www.ips.pt/

- › **Hungarian University of Agriculture and Life Sciences**
  https://www.uni-mate.hu/

- › **UC Leuven-Limburg UAS**
  https://www.ucll.be/

- › **Politehnica University Timișoara**
  http://www.upt.ro/

- › **Vidzeme University of Applied Sciences**
  https://va.lv/

- › **Fulda University of Applied Sciences**
  https://www.hs-fulda.de

- › **Saxion University of Applied Sciences**
  https://saxion.edu

- › **Jyväskylä University of Applied Sciences**
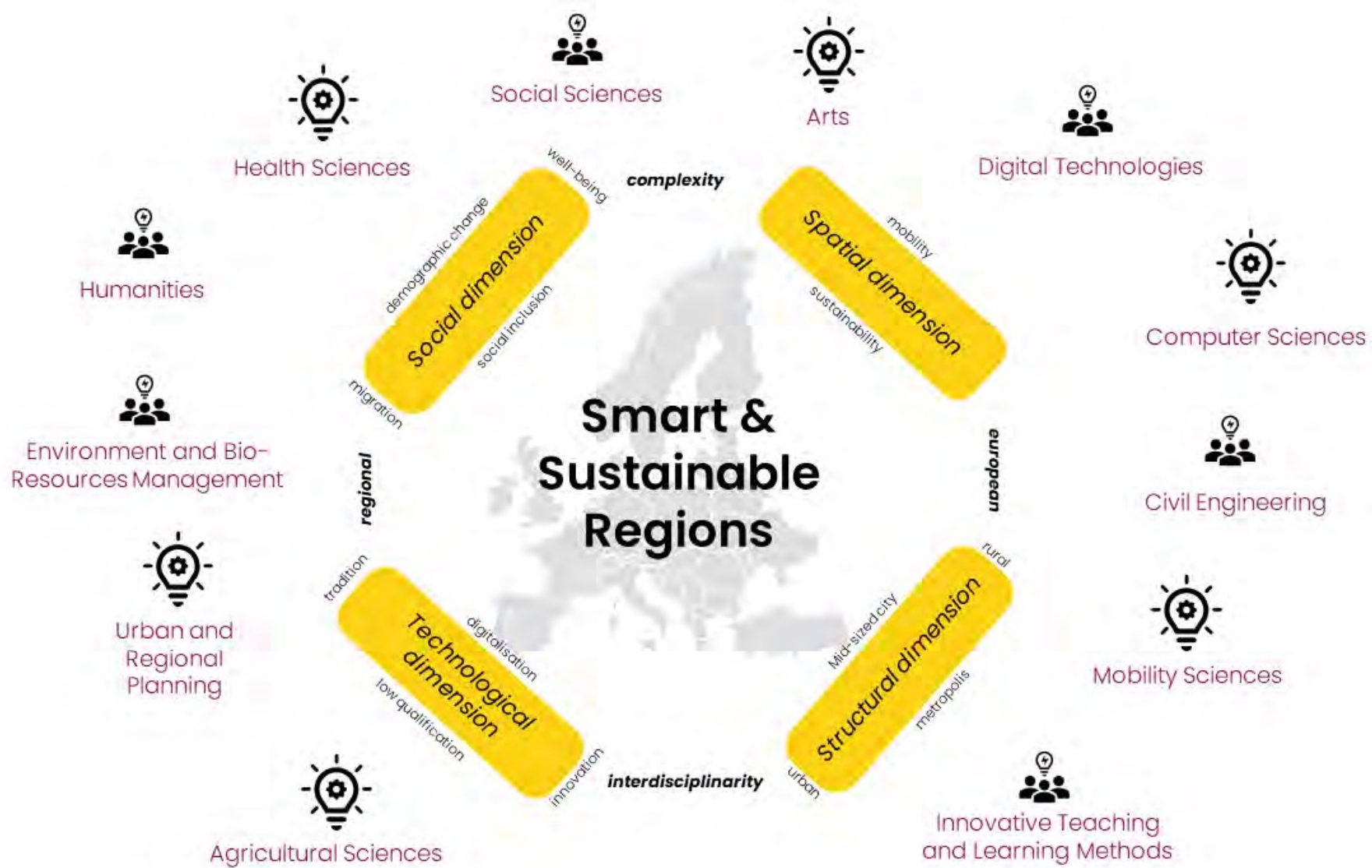 https://jamk.fi/

**+ 6 associate universities
from Ukraine & Western Balkans**

E³UDRES² University Alliance - Partners

- St. Pölten University of Applied Sciences (Lead), *https://fhstp.ac.at/*
- Politechnic Institute of Setúbal, *https://www.ips.pt/*
- Hungarian University of Agriculture and Life Sciences, *https://www.uni-mate.hu/*

- UC Leuven-Limburg UAS, *https://www.ucll.be/*
- Politehnica University of Timișoara, *http://www.upt.ro/*
- Vidzeme University of Applied Sciences, *https://va.lv/*

- Fulda University of Applied Sciences, *https://www.hs-fulda.de*

- Saxion University of Applied Sciences, *https://saxion.edu*
- Jyväskylä University of Applied Sciences, *https://jamk.fi/*

E³UDRES² - A University Alliance as Driver for European Smart and Sustainable Regions

E³UDRES² Long-term Vision

> **E³UDRES² Vision Statement**
>
> We promote Smart and Sustainable Regions (S²-Regions) to shape a peaceful and prosperous European future for responsible citizens as a pioneering full-fledged Engaged and Entrepreneurial European University (E³-Universities).

E3UDRES2 is focusing on the following main topics:

- Co-Innovate Smart and Sustainable European Regions
- Co-Ideate a Future University
- Co-Create a European Multi-University Campus

E³UDRES² Future University

Image 5: Resonating Innovation Cycles in Higher Education

Future University: A New Inspiring Culture

The open, agile, holistic and inclusive culture is based in particular on the following pillars:

- Enable mission-oriented people

- Focus on cross-disciplinary content

- Consider challenge-based perspectives

- Implement human-centered methods

- Enhance engaged collaboration

- Establish Multi-i-Environments

E³UDRES² MISSION

We inspire open-minded people to co-create solutions for environmental, societal and economic challenges, support individual learners to unleash their talents and develop future-oriented skills, empower creative ent-r-e-novators (entrepreneurs, researchers, educators and innovators) and act as an inclusive and engaged platform for collaborative innovation that strengthens a smart and sustainable society.

E³UDRES²VISION

We promote Smart and Sustainable Regions (S²-Regions) to shape a peaceful and prosperous European future for responsible citizens as a pioneering full-fledged Engaged and Entrepreneurial European University (E³-Universities).

o Co-Innovate Smart and Sustainable European Regions

o Co-Ideate a Future University

o Co-Create a European Multi-University Campus

o E³UDRES² promotes the development of small and medium-sized cities and their rural environments into smart and sustainable regions and shapes a prosperous future with the best possible quality of life for a self-determined people in a progressive European society.

E³UDRES² Future University: Core activities

Common E³UDRES² Context map of Future University

Creating value for the region
- In terms of contributing to the labour market, increasing productivity
- Research leads to business (entrepreneurship)
- Becoming one of the central elements in the region, being connected
- Research for citizens

Human-centred approach

R&D&I
- For citizens, business and environment in the region

Practice-based
- But not without connection to fundamental research
- Be aware for opposites!

Inclusive
- Attract new profiles of learners/staff
- Redefine the role of HEIs in society
- Impact measurement of alumni on society: students as co-creators and change-agents

Future University: Engaged European Entrepreneurial University

Sustainable (SDGs)
- We actively contribute to the SDGs

Digital
- Digital literacy and future competences
- Setting up digital platforms for collaboration
- Digital ecosystem
- Human-centred digital transformation in both education and management processes

Experimental mindset
- Innovative/inclusive/international research (I-research)
- in education, in connection to society
- 'failure is an option'
- Links to entrepreneurial skills
- Breaking structures

Learning
- Long live the learning!
- What means learner-centred?

Glocalisation
- Regionally anchored, internationally connected
- With link to 'creating value for the region' and the eco-system

https://www.eudres.eu/

E³UDRES²

› E³UDRES promotes the **development of small and medium-sized cities and their rural areas** into **smart and sustainable regions**

› E³UDRES **promotes outstanding ideas and concepts for future universities**, integrates **challenge-based** and **future-proof learning**, **mission-oriented research**, **human-centered innovation** as well as **open and engaged knowledge exchange** as interrelated core areas

› E³UDRES shapes a **prosperous future** with the best possible quality of life for a self-determined people in a **progressive European society**

› E³UDRES establishes an exemplary **multi-university campus** across Europe

E³UDRES² Future University: Core principles

The development of E3UDRES2 is based on the following **core principles**:

- **Multi-i-Innovation Cycles**

- **Multi-i-Research Networks**

- **Multi-i-Campus**

- **Multi-i-Open Innovation Labs**

- **Multi-i-Living Labs**

Focus areas:

- Health, Wellbeing and Social Inclusion for Regions

- Digital Solutions and (Applied) Deep Tech for Regions

- Resilient Economy and Innovation for Regions

- Creative Industries for Region's Identity

E³UDRES² CURRENT STAGE

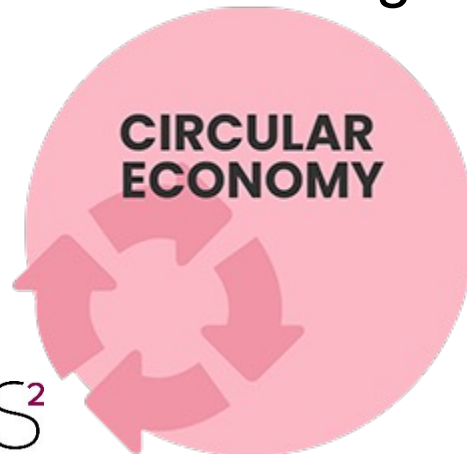**WP2 Future Universities** – Context map, consulting stakeholders

WP3 Learners & Educators – I Living Labs for students

WP4 Researchers – Research Living Labs, project & grants

WP5 Innovators & Entrepreneurs – Hackathon, bootcamp

WP1 Management

WP6 Communication

Three challenges to promote smart and sustainable regions

CIRCULAR ECONOMY

HUMAN CONTRIBUTION TO ARTIFICIAL INTELLIGENCE

WELLBEING & ACTIVE AGEING

E³UDRES² Vision & Mission

Focus Areas

1) Health, Wellbeing & Social Inclusion for Regions

2) Digital Solutions and (Applied) Deep Tech for Regions

3) Resilient Economy and Innovation for Regions

4) Creative Industries for Region's Identity

Strategic Core Objectives

- Enable Smart Learners to Unfold Talents
- Empower Ent-r-e-novators to Accelerate Future European Universities
- Serve as a Platform For Collaborative Innovation to Connect Entrepreneurial Minds
- Engage in Regional Communities to Co-Create Services For & With Society
- Shift to a Multi-i-Campus of a Fully-Fledged European University to Ensure Excellent Quality for S²-Regions

Leadership & Management

WP1 – Management & Coordination

WP6 – Future University

WP10 – Impact & Dissemination

Expertise & Operations

WP2 – Developing Talents

WP3 – Smart Learners

WP4 – Research & Knowledge Serving Users

WP5 – Regional Innovation Hubs

Common Services & Enablers

WP7 – Capacity Building

WP8 – Quality and Education

WP9 – Digitalisation & Infrastructure

No	Task/Activity	Key description, outputs, indicators
T9.1	Digital environment for learning, teaching and research focus on EUDRES provisions (contributes to WP2, WP3, WP4	Benchmark analysis of existing digital s... platform, research management, own p... Card, SIS, AI, certificate - validation (MO... administrative connections. After analysis and mapping (digital teac... investigated and tested in pilot groups. In order for lifelong learning to be able to suppor... flexible mobility of the workforce, the teaching offer must be able to be built in such a way that it is accessible throughout Europe. The processes of LLL student administration (ap... Existing digital learning together platforms for hackathons, bootcamps, LivingLabs are mapped, compared, and listed. Testing the virtualisation of physical infra... joint project on simulator and on actual instrum... institutions.
T9.2	Long-term strategy and priorities for potential investment (Contributes to WP6)	The final outcome of the WP9 is the digital strategy of EUDRES which includes the roadmap and priorities for potential investment.
T9.3	Talent Arena Tool	Matching companies, students, staff, alumni's – concept, development . A virtual platform that expands the possibilities of contacting all operators beyond the physical campuses. The best practices of alumni functionalities will be mapped and included in Talent Pool.

Digitalisation & Infrastructure:

- E³UDRES² Digital ecosystem strategy
- Development of E³UDRES² Arena
- Support to E³UDRES² Talent matching app integration

Innovative higher education institutions

Reform academic careers

Promote interdisciplinarity

Digital education

Fundamental changes in knowledge production

Research relevant and accessible, open

Making the most out of the digital transformation

Strengthen civic engagement

Embedding internationalisation

Promoting business start-up through education

Vă mulțumesc!

Prof.dr.ing. Radu Vasiu

Președintele Senatul UPT

Director, Centrul de Cercetări Multimedia

Email: radu.vasiu@upt.ro

https://www.cm.upt.ro/ro_ro/tutor/radu-vasiu/

http://www.slideshare.net/RaduVasiu/