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OE WEEK #9 2022

Open Education Week Workshop 2022

Vineri, 11 martie 2022
13:00 - 17:30, online

a IX-a ediție
workshop internațional

Comunități pentru dezvoltarea educației deschise

Transformative Communities of Open Education

Co-funded by the Erasmus+ Programme of the European Union

Logos: EBSN4RO, EUDRES, MS&IT, acadigia, TRACE, AspremoWelfare



E.I.N.S.

E³UDRES² Entrepreneurship and Innovation Network for Smart and Sustainable European Regions

supported by



1. Regional Challenges Scan

2. External Assets Map

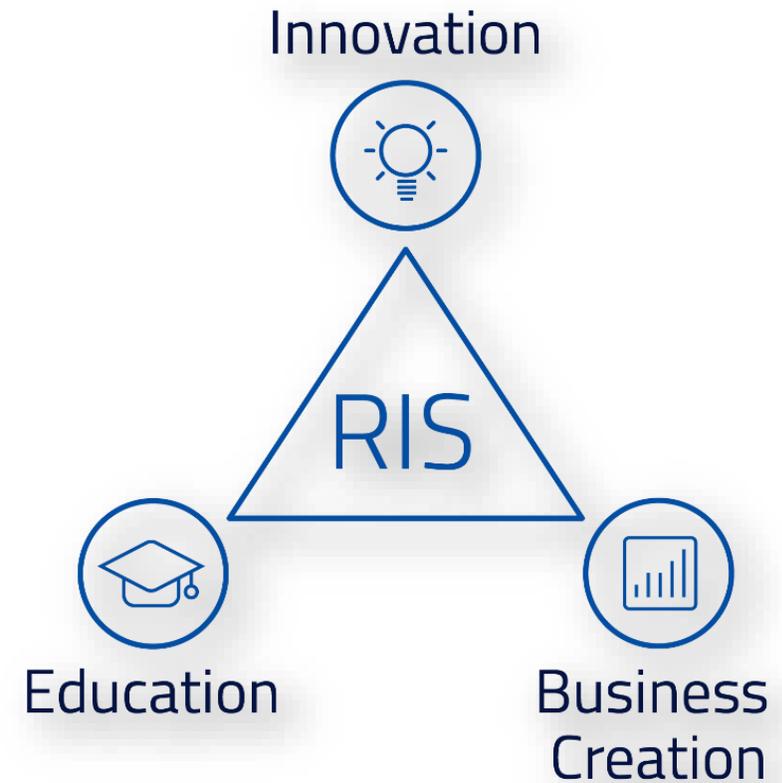
Politehnica University of Timisoara

West Development Region of Romania

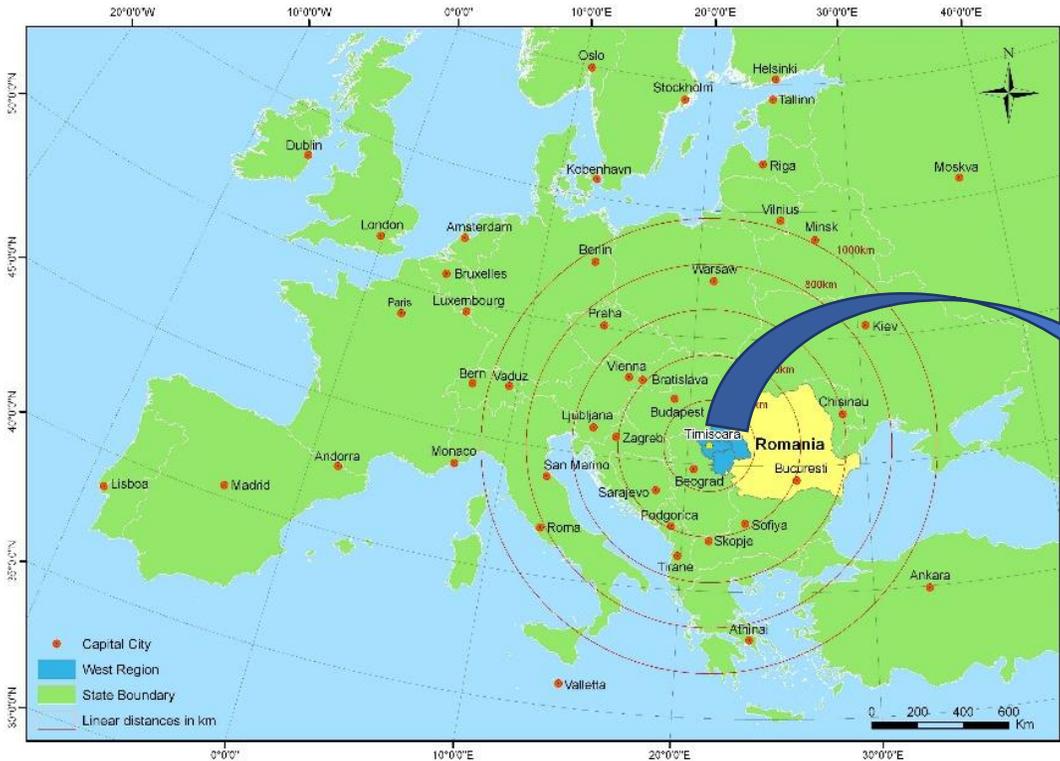
Prof. Anca DRAGHICI, anca.draghici@upt.ro

The Research Context

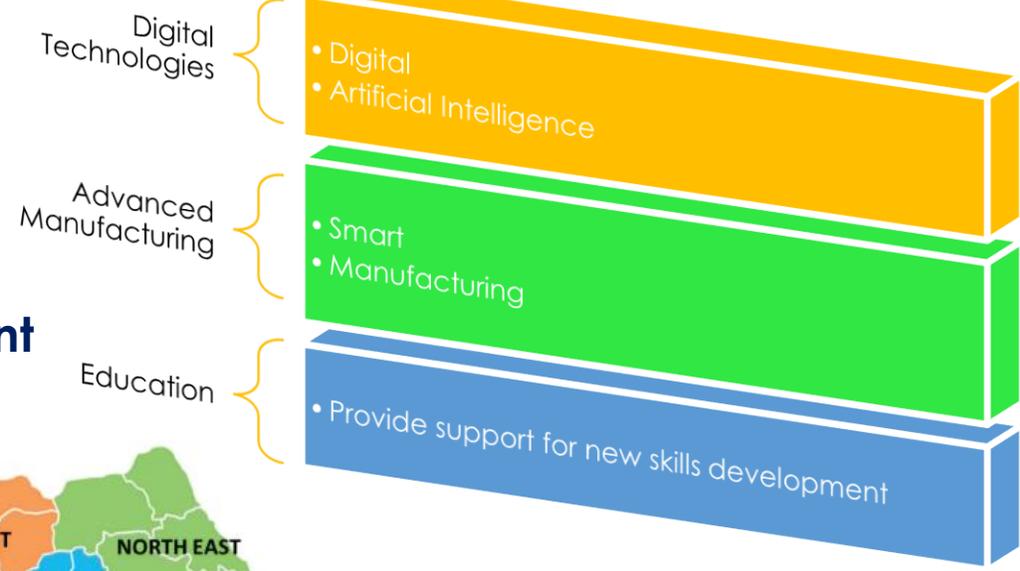
The **E³UDRES² Entrepreneurship and Innovation Network for Smart and Sustainable European Regions (E.I.N.S.)** co-ideates novel pathways for **ENTREPRENEURIAL UNIVERSITIES**, drives the development of **ENTREPRENEURIAL EDUCATION**, co-creates advanced support for **INNOVATION** and **BUSINESS CREATION**, and enhances collaboration across the knowledge triangle beyond the state of the art.



<https://www.eitmanufacturing.eu/what-we-do/the-eit-knowledge-triangle/>



ADRVEST
The West Development Region of Romania



SCOPE

Politehnica University strategic development in the context of:
New normal
and SMART Specializations



E.I.N.S.

E²UDRES² Entrepreneurship and Innovation Network for Smart and Sustainable European Regions



1. Regional Challenges Scan

1. The continue crisis for Human Resources (employees) which is now perceived as a Talent Management crisis.

Simultaneously, there is a **lack of competences** and expertise related to the digital competences and digital agility (soft skills for engineers); lack of industrial engineers and entrepreneurs.

- Create a program to attract and offer financial support for young people to study and work in Timisoara;
- **(Continuous) Practice and improve online education** (increase accessibility to higher education programmes);
- **Create a network or a platform of digital labour** for helping companies more effectively identify HR and assess a potential employee's match with the skill requirements and culture of the company;
- **Creation of Open Innovation Hub** (extend and spread in the Region) as a **Tech Talent Accelerator**.





2. Lack of leadership at the operational level (change the way middle and low managers work with generation Z and Millennials employees).

- **Create a training program for skills on leadership in business** (for industrial organization leaders and SMEs)
- **Facilitate the spread of good practices in leadership and change management** (projects, data bases, blogs)



3. Lack of innovation transfer to support open and collaborative innovation processes and entrepreneurship

- **Increase the financial support of R&D and innovation;**
- **Build a functional network of actors** (e.g., local innovation hubs, Fab-Labs and MakerSpaces, LivingLabs etc.) **to support open and collaborative innovation;**
- **Continuous support for the skills and competencies development in the field of innovation management and entrepreneurship + Continuous development of digital platforms for learning using OER;**
- **Better connect to Open Science, Open Innovation Resources and communities**

2021 European
Innovation
Scoreboard,
Romania having
the status of
EMERGENT
INNOVATOR.

16/04/2022

4. Less agility of the public administration in supporting the digital transformation of the cities (a rigid mentality for modernization and digitalization).

- Create and implement **a program for skills of leadership in public administration/organizations;**
- **Facilitate the spread of good practices in leadership and change management** (projects, data bases, blogs) in the case of public bodies/organizations;



**Comunități pentru dezvoltarea
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Conclusions

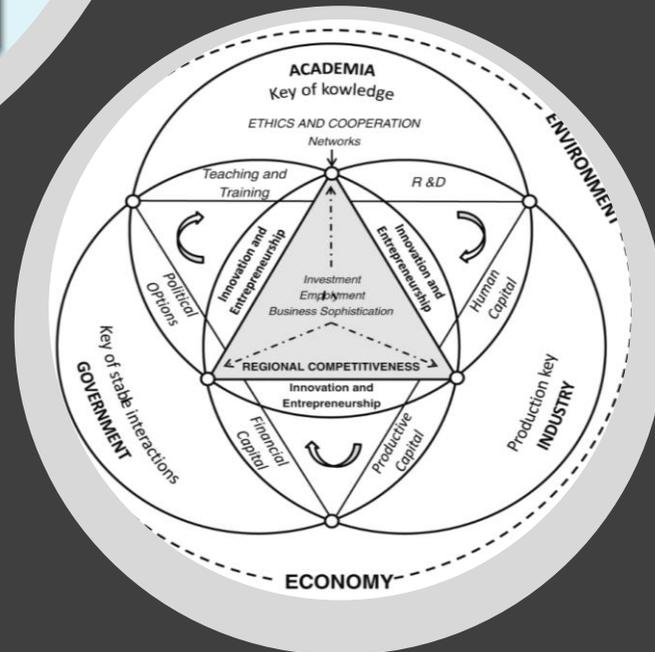
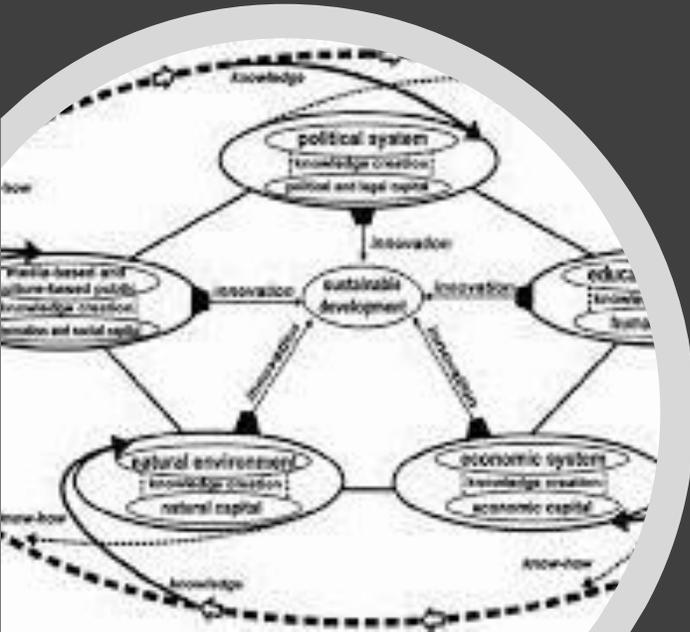
University traditional missions is expending under the OPEN EDUCATION AND RESEARCH

OPEN/COLLABORATIVE INNOVATION will empower university – business/industry collaboration and university-community projects

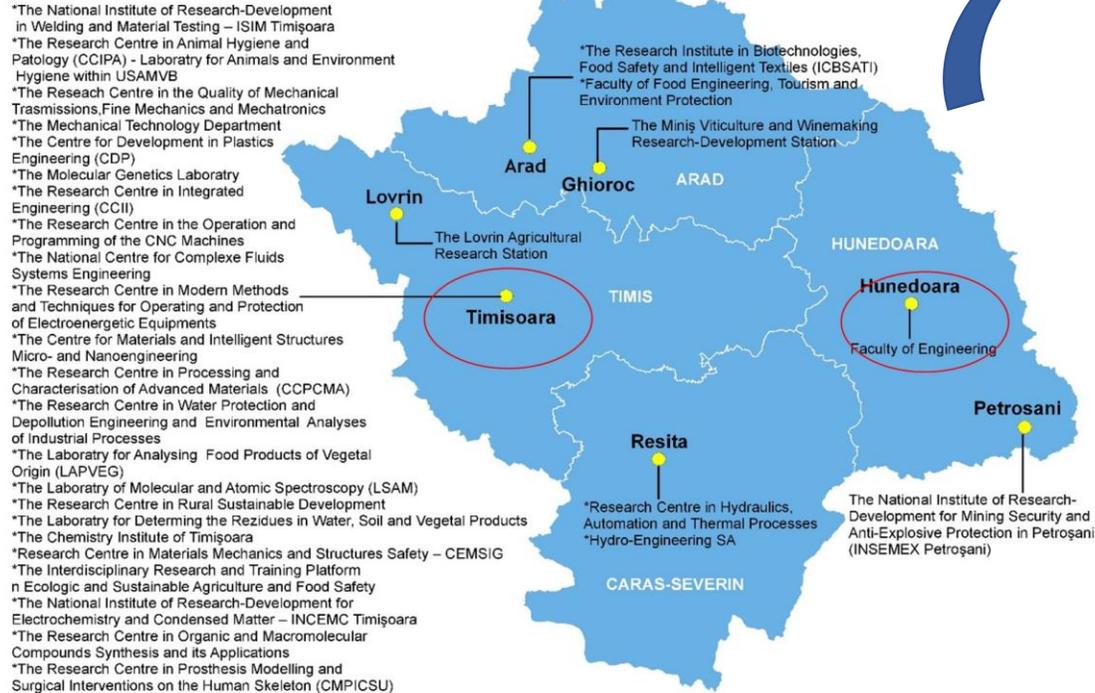
TO BE:

- ✓ Entrepreneurship university
- ✓ Sustainable development unviersity
- ✓ Green and smart university

https://www.researchgate.net/publication/257884675_The_Quintuple_Helix_innovation_model_global_warming_as_a_challenge_and_driver_for_innovation/figures?lo=1



2. External Assets Map



Research Centers and Institutes in the West Development Region of Romania (the situation in 2014-2015 described in the Regional Development Strategy 2014-2020)

Asset categories	Examples of types
Physical Assets	Science / technology park, incubators, accelerators, labs, production spaces, maker studios, etc.
Intellectual Assets	Scientific / research assets in the region / nation e.g. Institutes, research centres / research groups and major publications, patents, spin-off and spin-outs, cutting edge technologies and services, etc.
Human Resources	Key sources of talent in the region / nation e.g. Universities, Colleges, Schools, VET providers, their educational programmes and experts, students and innovators, etc.
Network Resources	Key networks, consortiums, associations, key events, competitions, etc.
Financial Resources	Sources of public funding (regional innovation support schemes, national public funding mechanisms), private sources of funding, etc.

Types	Inventory	Brief description / Web page
Physical Assets	Industrial and Technological Parks	<p>Industrial and Technological Park Timisoara, https://www.regiuneavest.ro/en/investor-locations/public-industrial-zones/page/id/154/ and https://www.globalworth.com/buildings/industrial/timisoara-industrial-park-i/</p> <p>Industrial Park UTA2 Arad, https://www.apitsiar.ro/frontend/parc/22</p> <p>Industrial Park Hunedoara, https://www.apitsiar.ro/frontend/parc/5 or https://www.regiuneavest.ro/locatii-investitori/zone-industriale-publice/page/id/70/</p> <p>Banat Business Park Timisoara, https://www.apitsiar.ro/frontend/parc/43 and https://banatbusinesspark.ro/en/about-us/</p> <p>VOX Technology Park https://voxtechnologypark.ro/en/home/</p> <p>Other facilities created for business were project of ARTEMIS Group: https://artemisrealestate.ro/</p>
	Innovation Hub	<p>Digital Innovation Hub West Region Romania https://adrvest.ro/digital-innovation-hub/</p> <p>https://dihelp.eu/</p>
	InnovationLabs	<p>Innovation Labs Timisoara https://www.innovationlabs.ro/</p> <p>InoHubUPT https://inohub.upt.ro/</p>
	Incubator	<p>Timisoara Software Business Incubator http://www.cicom.fr/ggn/indexa9e4.html?id=55</p> <p>Accelerators/Incubators https://www.romanianstartups.com/accelerators-incubators/</p> <p>Incubox - REGIONAL BUSINESS INFRASTRUCTURE IN THE IT&C SECTOR https://incuboxtm.ro/</p>
	Co-working spaces	<p>Cowork Timisoara https://coworktimisoara.com/blog/teamwork-back-in-style-at-cowork-timisoara,</p> <p>DevPlant Cowork https://cowork.devplant.ro/#amenities,</p> <p>Workify, https://ghidulbanatului.ro/trei-locatii-de-coworking-din-timisoara-unde-poti-munci-cu-spor-daca-esti-freelancer_4710.html, FOR https://f-o-r.ro/category/space/, Ambasada http://www.plai.ro/ambasada/index.html , Other co-working spaces with events: https://www.romanianstartups.com/search/?ls=Timisoara</p>

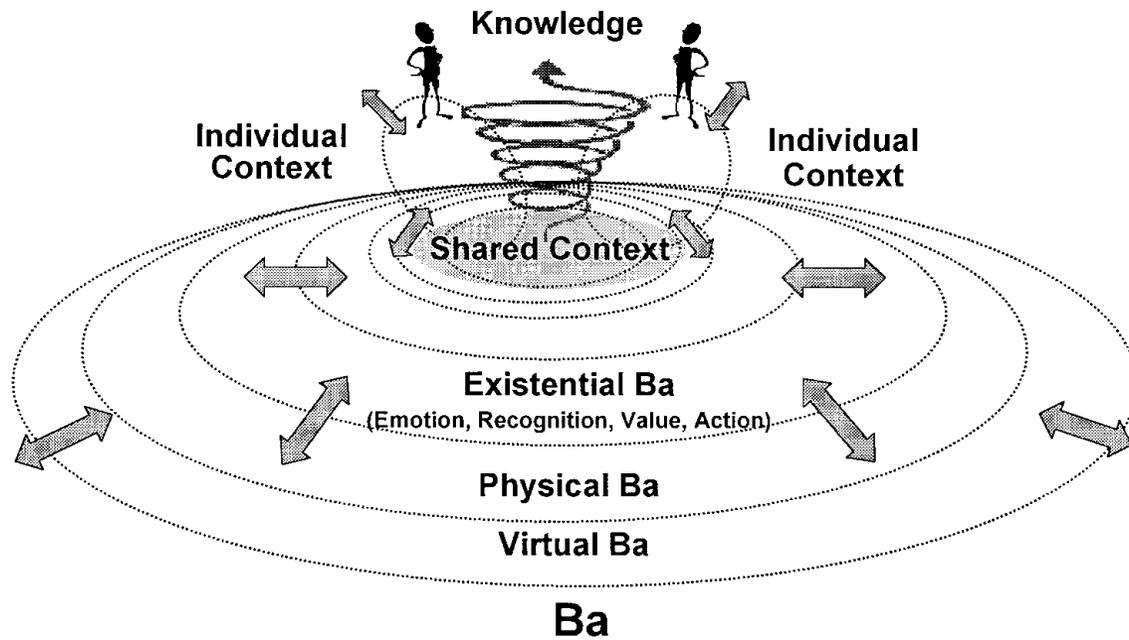
Types	Inventory	Brief description / Web page
Intellectual Assets	<p>R&D Institutes</p> <p>UPT Research institutes, centers, laboratories</p> <p>R&D results, publications, patents</p>	<ul style="list-style-type: none"> National R&D Institute for Welding and Material Testing, ISIM Timisoara, http://www.isim.ro/isim_eng.htm National Research and Development Institute for Electrochemistry and Condensed Matter, https://incemc.ro/en/ UPT ICER (Institute of Research for Renewable Energies) https://www.icer.ro/ UPT Center for Innovation and Technology Transfer / Office for Innovation and Technology Transfer, http://www.upt.ro/Informatii_centrul-de-inovare-si-transfer-tehnologic---oficiul-de-inova_465_ro.html UPT 29 Research centers and laboratories http://www.research.upt.ro/page1.html#features06-2cn + UPT 2 Nationally accredited or authorized research laboratories, Laboratory of Fuel Analysis, Ecological Investigations and Dispersion of Pollutants http://www.mediu.ro/ and Acoustics and Vibration Laboratory http://www.mec.upt.ro/meca/avms/ UPT research results http://www.research.upt.ro/page22.html#header1-3gf UPT Publications and patents: http://www.research.upt.ro/page20.html#header04-2el UPT journal https://www.upt.ro/img/files/anuare/2014/publicatii/Scientific%20Journals.pdf
	Human Resources provided by	<p>Technical universities</p> <p>The pre-university education system; colleges</p> <p>Personalities in R&D&I</p>

Types	Inventory	Brief description / Web page
Network Resources	Local business clusters and associations	Tehimpuls - the Regional Innovation and Technology Transfer Center in the West Region of Romania, https://www.tehimpuls.ro/en/ ; The Regional ICT Cluster - West Region Romania https://www.diginvest.ro/en/ict-regional-cluster ; Automotivest Association - the regional automotive cluster https://www.automotivest.ro/
	Representative professional associations	Timisoara University Association (ATU) - A network of the 4 universities in Timisoara: Politehnica University, "Victor Babes" University of Medicine and Pharmacy, King Mihai I" University of Agricultural Sciences and Veterinary Medicine and West University Agir General Association of Romanian Engineers Timis Branch, Timisoara, https://www.agir.ro/en/cinesuntem.php ; IEEE branch of researchers and students https://romania.ieeer8.org/

Types	Inventory	Brief description / Web page
Financial Resources	Public funding of R&D&I	Ministry of Research, Innovation and Digitization https://www.research.gov.ro/ The Executive Agency for Higher Education, Research, Development and Innovation Funding (UEFISCDI) https://uefiscdi.gov.ro/programe-pncdi-iii-coordonate-de-uefiscdi <ul style="list-style-type: none"> Higher Education funding, https://uefiscdi.gov.ro/finantare-invatamant-superior
	European Funds	Ministry of European Investment and Projects, https://mfe.gov.ro/ <ul style="list-style-type: none"> Innotech Student projects - https://mfe.gov.ro/calendar/innotech-student/ Innotech Student UPT projects - http://www.upt.ro/Informatii_innotech-student_1492_ro.html National Recovery and Resilience Plan (PNRR) https://ec.europa.eu/info/business-economy-euro/recovery-coronavirus/recovery-and-resilience-facility_en#scoreboard and https://adrvest.ro/pnrr-2/ Regio - Regional Operational Program (Regio - ROP) 2014-2020 https://adrvest.ro/por-2014-2020/ https://adrvest.ro/por-2007-2013/ and 2007-2013 Sectoral Operational Program "Increasing Economic Competitiveness" (OI POSCCE) - Priority Axis 1 "An innovative and eco-efficient production system" https://adrvest.ro/poscce/ Cross border programmes: Interreg-IPA Cross-border Cooperation Programme Romania – Serbia, https://www.romania-serbia.net/ ; Interreg VI-A România - Ungaria 2021-2027, https://interreg-rohu.eu/ro/home/ and https://mdlpa.ro/pages/romaniaungaria
	Private founds	Public-private partnership, university-companies projects UPT http://www.research.upt.ro/page26.html#content7-3b8

Politehnica BA: knowledge-creating place, a place-based innovation

“BA provides the energy, quality, and places to perform the individual knowledge conversions and to move along the knowledge spiral. In other words, **BA is a phenomenological time and space where knowledge, as ‘a stream of meaning’ emerge.** New knowledge is created out of existing knowledge through the *change of meanings and contexts.*” Nonaka



Individual

