

Cercetarea in cadrul EUt+: oportunități si perspective

Conferinta Cercetării și Inovării UTCN – 2025

Cristian Dudescu

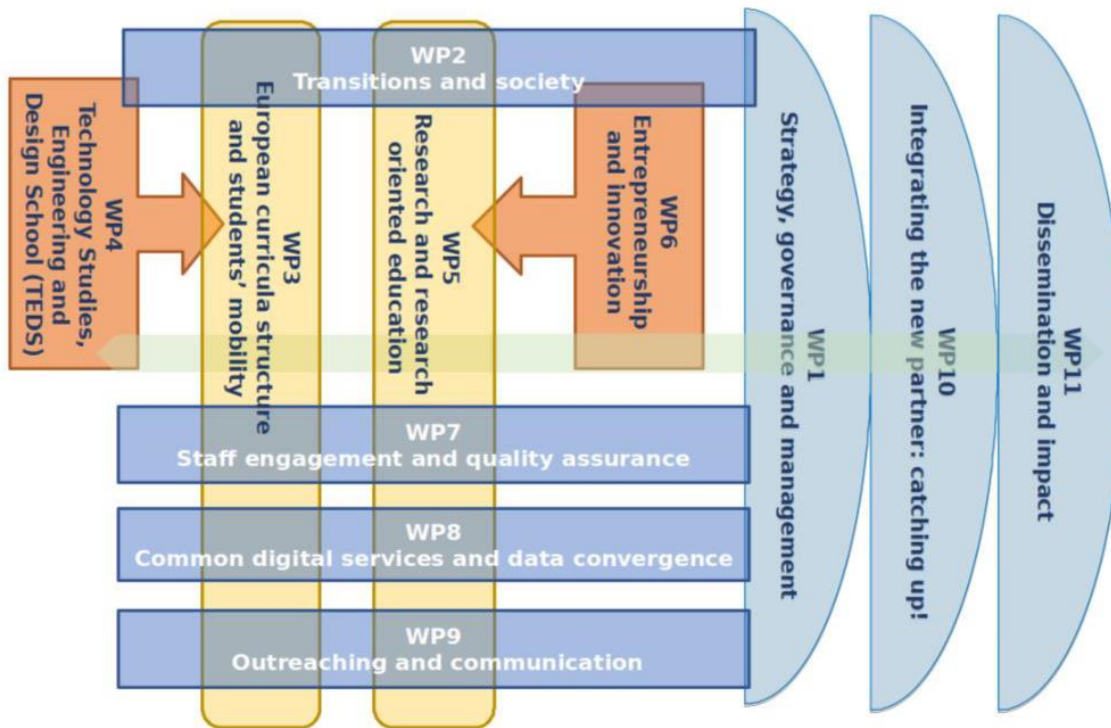


**EUROPEAN
VALUES
EMPOWERING
TECHNOLOGY**

Proiectul - European University of Technology EUt+

EUt+ idea “a diversity of researchers in a team that is stronger than the sum of its parts” that means together we can achieve far more than we could ever achieve alone.

Project objective



The EUt+ ACCELERATE work packages structure

PO5 Ensuring a full integration of research and support structures and research training at EUt+ level, that foster efficient, empowering and geographically balanced ERIs.

N°	Name	Driver
A5.1 RO	EUt+ common research strategy and roadmap	ERO with support by the Research Committee
A5.2 RO	EUt+ Research Institutes	Research committee in coordination with the ERO and Secretariat General
A5.3 ES	EUt+ Research Office	European Research Office
A5.4 RO	EUt+ Graduate Research School	European Graduate Research School

Structuri de cercetare în EUt+

+ Grup de cercetare

European Research Group - **ERG**

+ Criterii specifice unui grup de cercetare ERG:

- + Are o tematică definită (poate fi disciplinară, interdisciplinară sau transdisciplinară)
- + Grupul începe să partajeze resurse;
- + Formează o platformă pentru consolidarea și conectarea punctelor forte de cercetare ale tuturor partenerilor, permițând cercetătorilor să își unească forțele și să facă echipă pentru proiecte comune
- + Afiliere comună unică pentru toți membrii săi (dublă afiliere)

- + Surname, Name^{1,2}
 1. Department of Civil Construction & Management, Technical University of Cluj-Napoca, Memorandumului 28, Cluj-Napoca, Romania
 2. European Culture & Technology Laboratory, European University of Technology, European Union

Dubla afiliere

+ Institut de cercetare

European Research Institute - **ERI**

+ Criterii specifice unui ERG:

- + Rezultate științifice și academice ridicate, cu valori și ținte definite;
- + Excelență dovedită în cercetare la nivel european, în special printr-un număr de proiecte de cercetare finanțate
- + Domenii și teme de cercetare clare și o strategie proprie de cercetare
- + Facilitează dezvoltarea doctoratelor în cotutelă și oportunități de carieră în cercetare pentru tineri cercetători sub umbrela unei școli doctorale comune (European Graduate and Research School EGRS)

Structuri de cercetare în EUt+

+ Structuri de cercetare existente în Eut+

+ ERI (European Research Institute)

- European Culture and Technology Laboratory - **ECT Lab+**
- EUt Institute of Nanomaterials and Nanotechnologies, **EUTINN**

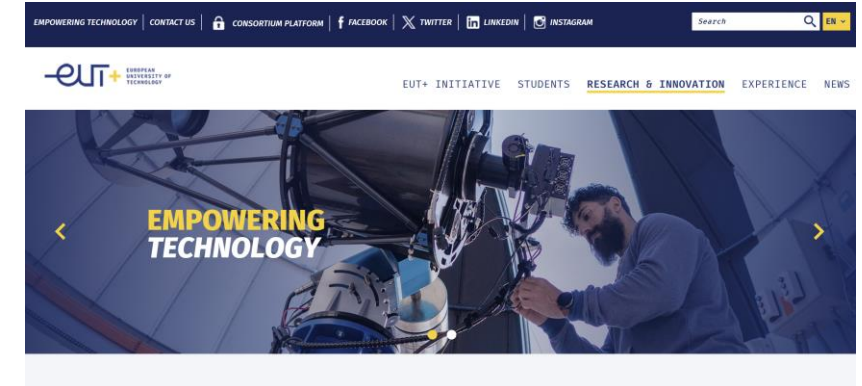
+ ERG (European Research Group)

- **Datasciences** Lab (in transformation to Artificial Intelligence Institute)
- People Oriented Smart Technologies Lab - **POSTLAB**
- Sustainability Science Lab, **ESSLAB+**
- European Laboratory For Pedagogical Action - Research And Student-Centred Learning - **ELaRA**

+ Structuri de cercetare în formare

- Eut+I4IRE - ERG about Energy, EoI coming from the ReConnect proposal
- Alte domenii in discuție: agricultură, microelectronica

www.univ-tech.eu



Avantajele colaborării în domeniul cercetării în cadrul EUt+

Avantaje

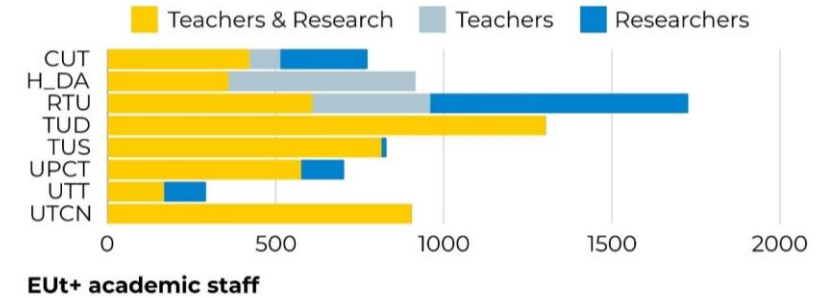
- Numărul de membri ai personalului de cercetare din cadrul alianței EUt+
- Diversitatea domeniilor de cercetare, multidisciplinaritate
- Posibilitatea partajării resurselor
- Acces la expertiza europeană a diverselor grupuri de cercetare
- Acces la parteneri non-academici din spațiul european
- Numărul de proiecte aprobate
- Rata de succes peste medie a proiectelor depuse în cadrul consorțiului

Suport in cadrul proiectului EUt+ Accelerate

- Sprijin pentru identificarea partenerilor (European Research Office)
- Colaborare în cadrul EGRS - Școala Doctorală a EUt+
- Suport al echipei UTCN implicată în proiectul EUt+

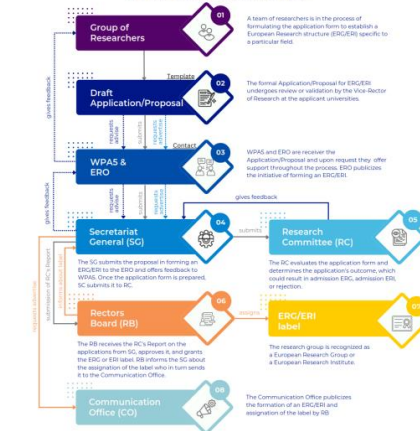
Suport institutional - UTCN

- Granturi suport / excelență pentru activitatea de cercetare științifică
- valorizare suplimentar pentru colaborarea cu parteneri EUt+ în articole și proiecte



Pathway for Creating a European Research Structure

On the road to research success at EUt+



The interactive Web-based Road Map guides you through each step in creating a European Research Group (ERG) or a European Research Institute (ERI), from identifying your research interest, supporting an identifying partners within EUT+, developing a proposal or writing the proposal, to assembling the group of researchers and obtaining the ERG or ERI label. Click on any step for more information about EUt+ supporting services and tools.

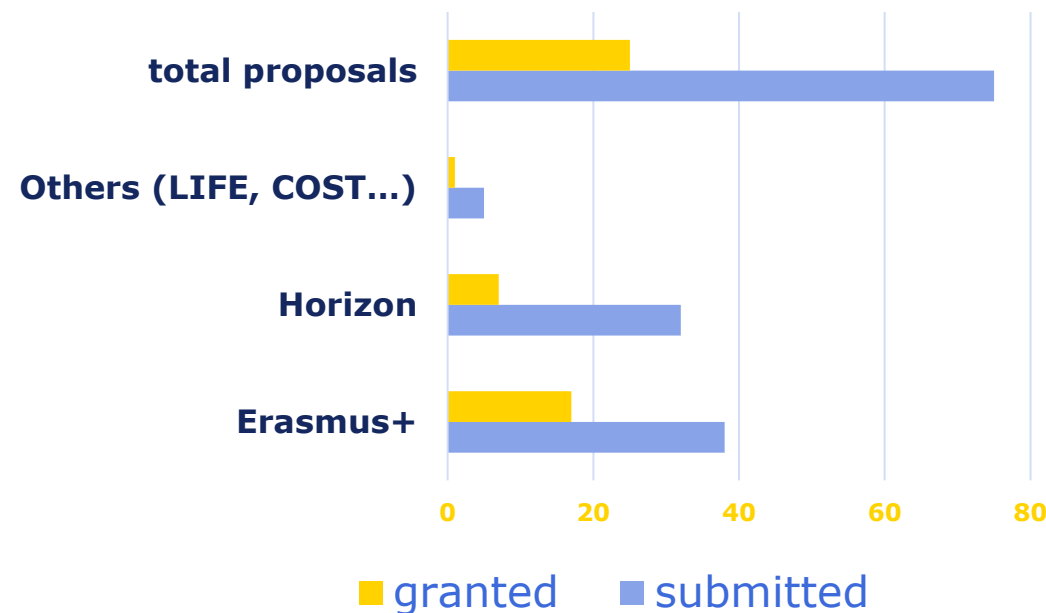


<https://research.utcluj.ro/index.php/granturi-suport-de-cercetare-stiintifica.html>

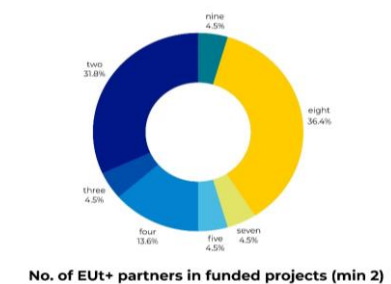
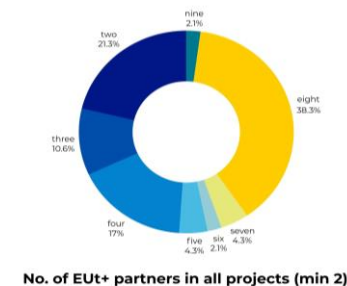
HOTĂRÂREA CONSILIULUI DE ADMINISTRATIE
privind promovarea excelenței în cercetarea științifică din UTCN
Nr. 11 din 25.01.2023

Avantajele colaborării în domeniul cercetării în cadrul EUt+

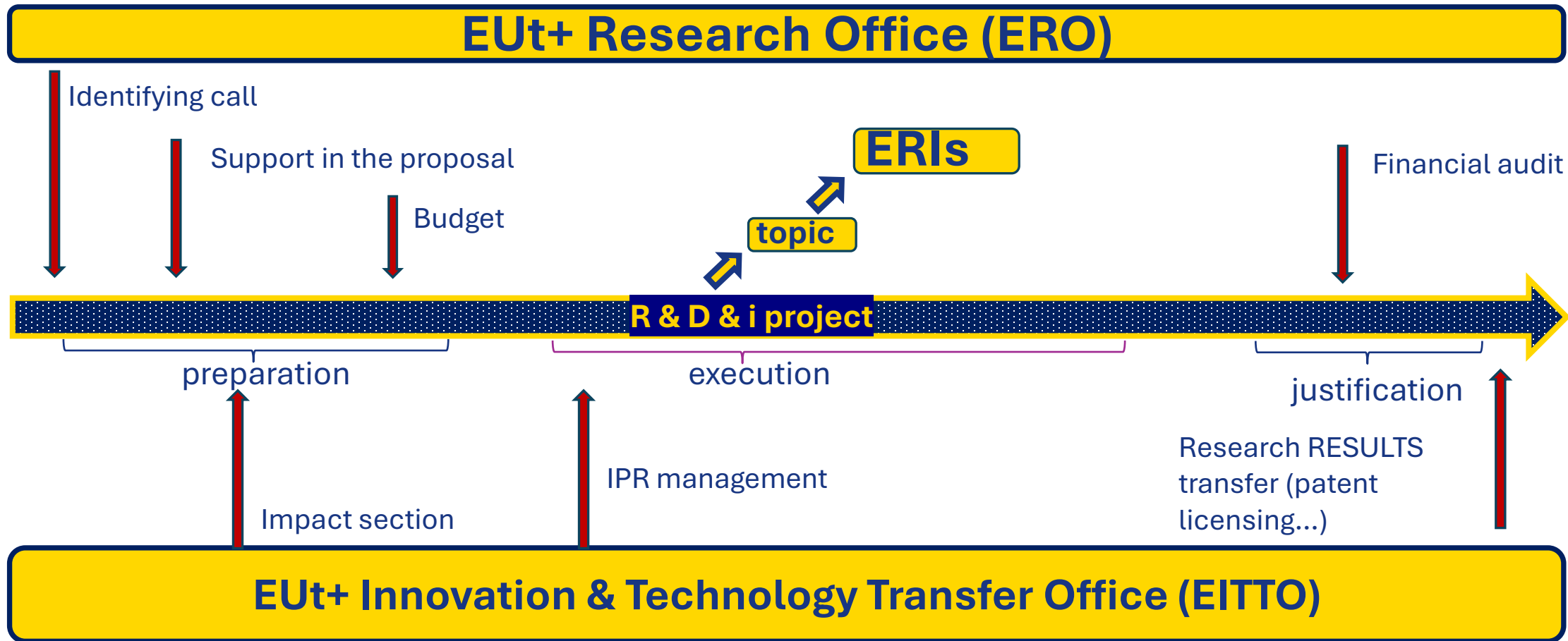
- + Număr proiecte depuse cu parteneri EUt+ în perioada 2020-2024 : peste 75 proiecte
- + Proiecte finanțate: 22
- + Total finanțare atrasă de parteneri Eut+: > 3,5 mil euro (nu include proiectul EUt+ Accelerate)



- Rata de succes totală → **30%**
- Erasmus → 42% (K2 actions mainly)
- Horizon → < 20% (WIDERA, Europe and MSCA)



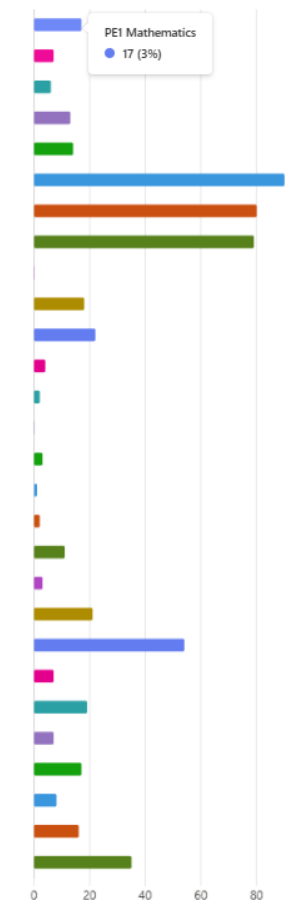
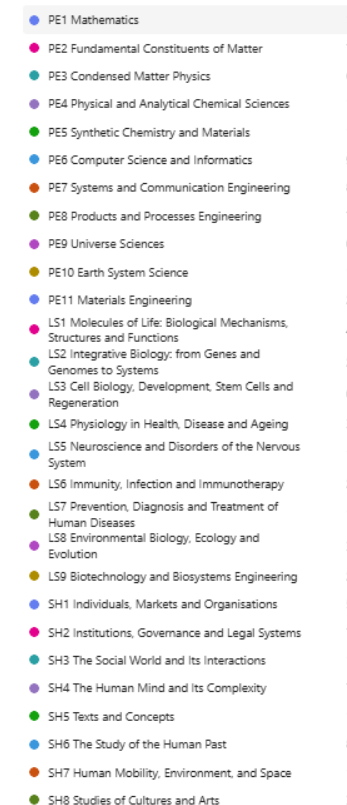
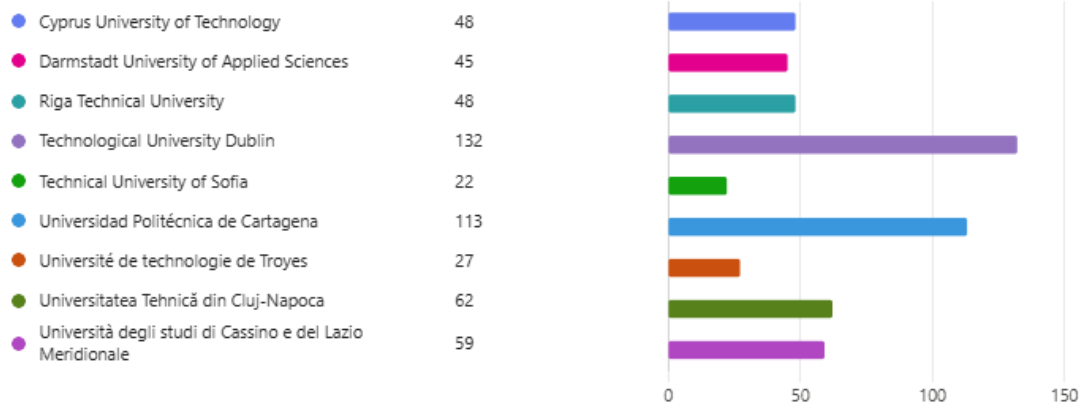
Structuri suport pentru cercetare în EUt+



European Graduate Research School

- Sondaj EGRS (2024) pentru identificarea ofertelor de cotutelă și a grupurilor de experți EUT+ care să fie implicați în comisiile consultative de doctorat și de evaluare a tezelor de doctorat.
- Feedback pozitiv – 556 răspunsuri!
- Diseminare informații către respondenți – martie 2025
- Model de acord de cotutelă

4. University




ECROS - Proiect instituțional in cadrul EUt+

- + **ECROS** - Empowering Early Career Researchers with new Opportunities and Skills
- + Call: Talent ecosystems for attractive early research careers, **HORIZON-WIDERA-2024-ERA-02-03**
- + Parteneriat: toți cei 9 parteneri EUt+, Federacion de Jovenes Investigadores, ASOCIATIA TRANSILVANIA IT (RO), Latvian Association of Young Researchers, Association Bernard Gregory
- + Aliniat cu strategia HRS4R și școala doctorală
- + Propunerea prevede promovarea unei colaborări extinse între partenerii academici și industriali, facilitând mobilitatea cercetătorilor și promovarea transferului de cunoștințe.
- + Scop: crearea unui ecosistem de talente care să ofere cercetătorilor R1 și R2 orientare în carieră, formare și oportunități de mobilitate necesare pentru a satisface cerințele pieței muncii atât academice, cât și non-academice



Evaluation Result **14.50 / 15**
Total score: 14.50 (Threshold: 10)

Proposal Evaluation Form		
	EUROPEAN COMMISSION Horizon Europe (HORIZON)	Evaluation Summary Report - Coordination and support actions

Call: HORIZON-WIDERA-2024-ERA-02
Type of action: HORIZON-CSA
Proposal number: 101217014
Proposal acronym: ECROS
Duration (months): 36
Proposal title: Empowering Early Career Researchers with new Opportunities and Skills
Activity: HORIZON-WIDERA-2024-ERA-02-03

Instrumente pentru identificarea partenerilor

- EUT+ has already created a series of tools that promote and connect EUT+ research and EUT+ researchers across EUT+.

EUT+ R&I mapping slide deck
A slide deck providing an in-depth analysis of the R&I portfolio of EUT+ as a whole, with focus on distinctive capacities, internal and external collaborations, and the alignment of research and innovation with societal challenges and territorial priorities.

Institutional R&I mapping slide decks
The institutional slide decks present key charts and descriptive visualizations of the research and innovation activities of each EUT+ member, it is based on the EUT+ mapping slide deck, with the same data sources and similar analysis.

Interactive Platform
This platform is a tool aimed at presenting and facilitating the interactive exploration of research and innovation capacities of the 8 EUT+ universities. Thanks to topic modeling it groups together documents that deal with similar thematic, allowing to see R&I overlaps between partners, paving the way for further collaboration.

The three toolkit products from Task 4.1 will be complementary with the products and insights currently in development in SWAFs tasks 3.2 (mapping demand by SMEs) 4.2 (local socioeconomic priorities), 4.3 (external research trends) and 5.2 (EUT+ common research infrastructure). They also benefit greatly from the common EUT+ [OpenAire research portal](#)

EUT+ interactive platform to explore the research and innovation capacities.

<https://researchinformation.univ-tech.eu/>

European University of Technology

Summary: Publications (94,660) | Research data (1,916) | Research software (16) | Other research products (6,616)

EUT+ is an alliance of 8 universities: Technological University Dublin, Riga Technical University, Cyprus University of Technology, Technical University of Cluj Napoca, Polytechnic University of Catalonia, University of Technology of Troyes, Technical University of Sofia and Hochschule Bochum.

Curated by: Jean Baptiste Vu Van, Jose Antonio Vidal Roca, Erica Vecchia
Created: 08 Nov 2021

Members: 8
Content Providers: 7

Supporting Organizations: TU Dublin, h_da, TU Cluj Napoca, Universidad Politécnica de Catalunya, UTT, Technische Universität Sofia, TU Cluj Napoca, TU Cluj Napoca

EUT+ University Open Access repository at

<https://eut.openaire.eu/>

FILTERS

Access: Open Access, Closed Access, Restricted, Open Source, Intraige

Type: Publications, Research Data, Research Software, Other Research Products

Year range: 1995 - 2025

Field of Science: Engineering And Technology (46), Nano Technology (27), Medical And Health Sciences (16), Clinical Medicine (12), Natural Sciences (8), Industrial Biotechnology (7)

Funder: European Commission (8)

SDG (Beta): 7. Clean Energy (8), 3. Good Health (4), 11. Sustainable Cities (1)

78 Research Products for Dudesco

The alginate/k-carrageenan ratio's influence on the properties of the cross-linked composite films
Publication in *arXiv: 2021.11.01618v1*
Authors: [Mihnea Cristian Dutescu](#), [Mara Paicu](#), [Adrian Dinulescu](#), [Victoria Popoviciu](#), [Cristian Dutescu](#)
DOI: 10.1016/j.jmb.2021.11.01618

Effects of Raster Orientation, Infill Rate and Infill Pattern on the Mechanical Properties of 3D Printed Materials
Publication in *arXiv: Other Preprints* · 2021 · Publication: Walter de Gruyter GmbH
Authors: [Lucia Paicu](#), [Cristian Dutescu](#)
DOI: 10.1016/j.jmb.2021.05.014

Design, Manufacturing and Test of CFRP Front Hood Concepts for a Light Weight Vehicle
Publication in *arXiv: Other Preprints* · 2021 · Publication: Walter de Gruyter GmbH
Authors: [Paul Bocu](#), [Mihnea Dutescu](#), [Cristian Dinulescu](#), [Cristian Dutescu](#)
DOI: 10.1016/j.jmb.2021.05.014

Antimicrobial Properties of Bacterial Cellulose Films Enriched with Bioactive Herbal Extracts Obtained by Microwave-Assisted Extraction
Publication in *arXiv: Other Preprints* · 2021 · Publication: Walter de Gruyter GmbH
Authors: [Isabela M. Bocu](#), [Georgiana M. Ciuraru](#), [Cristian M. Paicu](#), [Nicolaie P. Pop](#), [Cristian Dutescu](#)
DOI: 10.1016/j.jmb.2021.05.014

Informații utile

Au fost elaborate o serie de infografice informative pentru a sublinia în mod clar pașii necesari pentru înființarea unui grup european de cercetare în EUT+

Accesare documente Teams

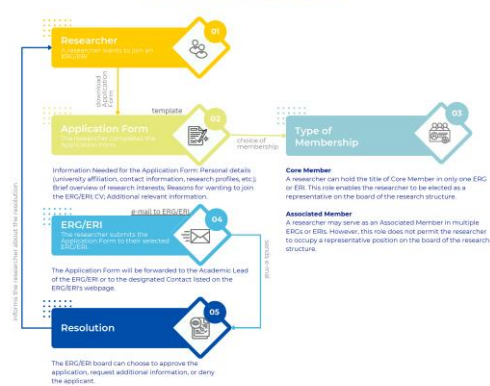
WP5 UTCN



EUT+
ERG / ERI APPLICATION
FRAMEWORK
ENGLISH VERSION

Pathway for Individual Application for Membership in an ERG/ERI

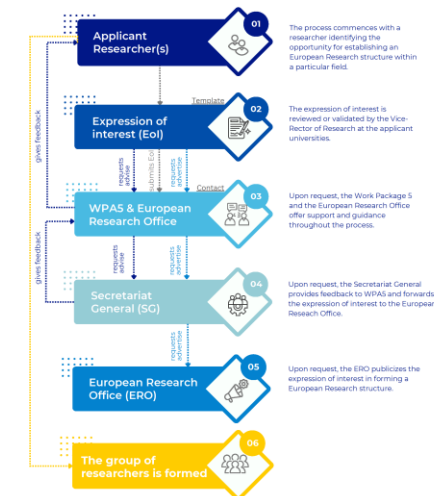
On the road to research success at EUT+



The interactive Web-based Road Map guides you through each step in submitting a Application Form with support from the Research Institutes, Development WPAS T&S2. Click on any step for more information about EUT+ supporting services and tools!

Pathway for Creating a European Research Structure

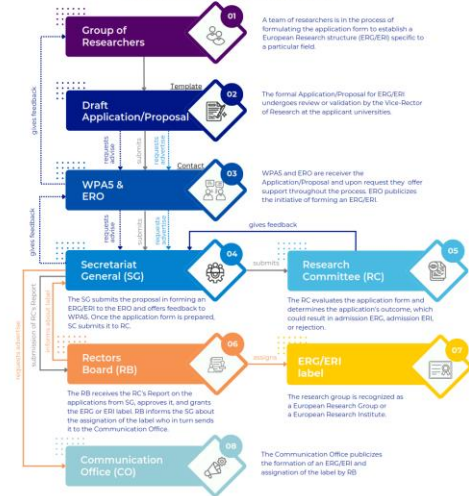
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<https://didatec.sharepoint.com/:f:/s/EUTAccelerateWP5/Ek8sn2LKOK1Elxcza7rQUdMBs8XDorXHipaib7eOkvoBA?e=Q982rH>

eut+ EUROPEAN UNIVERSITY OF TECHNOLOGY



Mulțumesc!



**EUROPEAN
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