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Δράσεις του EULiST

Ομοτ. Καθ. Κατερίνα Αδάμ
Καθ. Σωτήρης Καρέλλας
Επιστημονικά Υπεύθυνοι ΕΜΠ EULiST

**Ευρωπαϊκό Πανεπιστήμιο EULiST : Ευκαιρίες και
Προοπτικές για την κοινότητα του ΕΜΠ**



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8 Δεκεμβρίου 2025, Αίθουσα Εκδηλώσεων ΕΜΠ

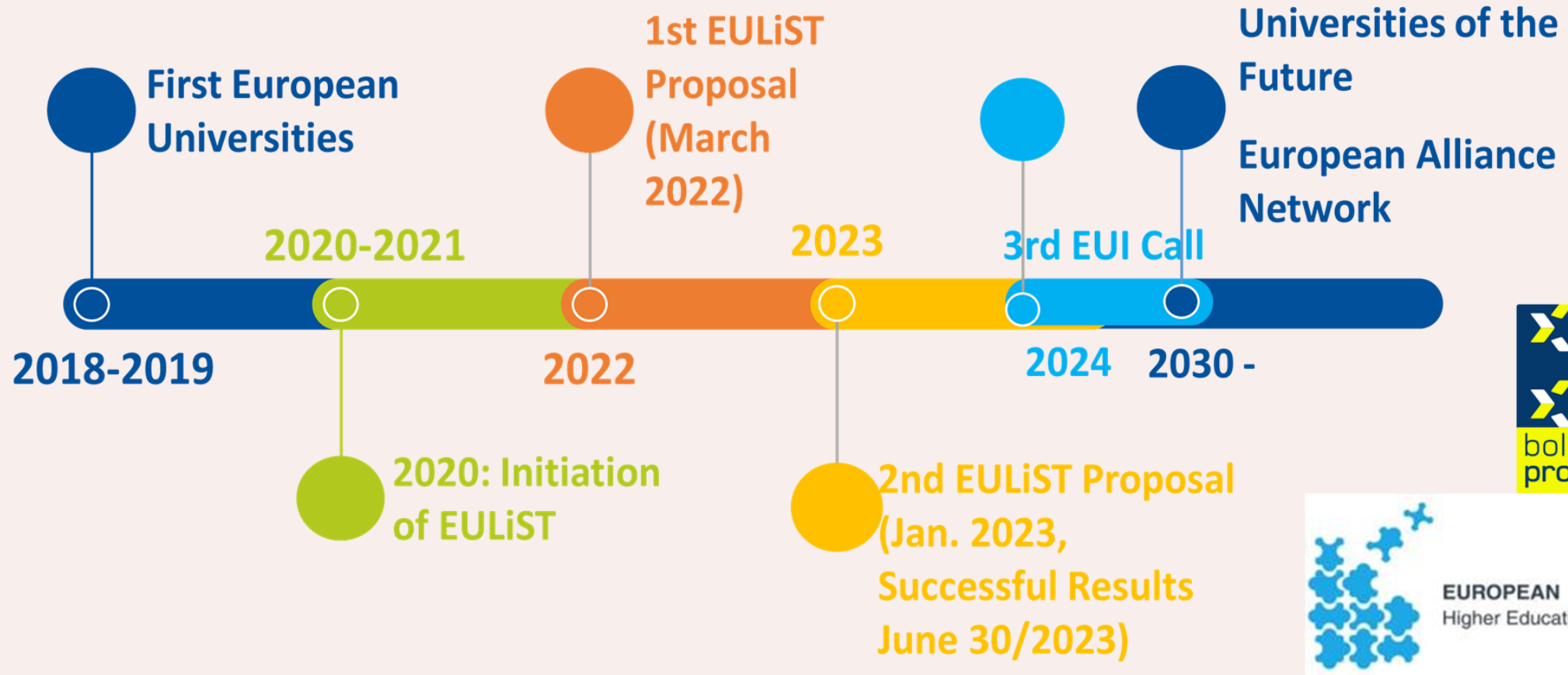
European Universities as “Universities of the Future”



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EULiST: European Universities Linking Society and Technology

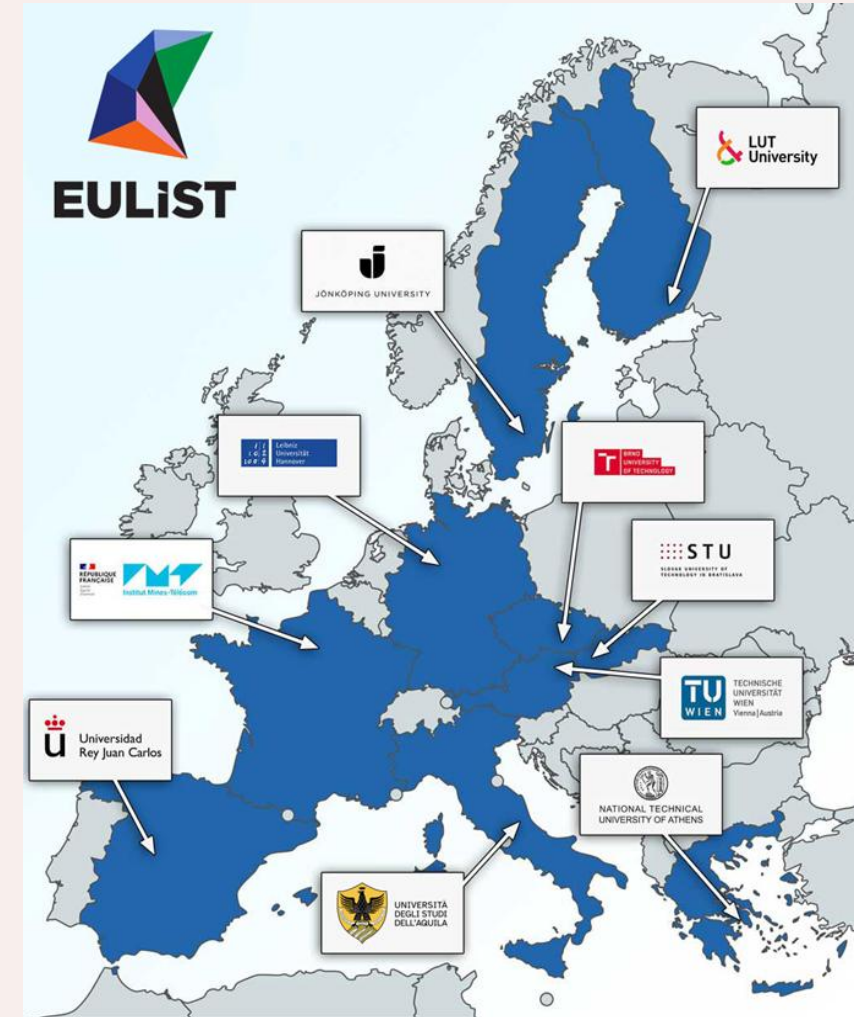


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- Lappeenranta-Lahti University of Technology LUT, Finland (LUT)
- Jönköping University, Jönköping County, Sweden (JU)
- Leibniz University Hannover, Lower Saxony, Germany (LUH)
- Institut Mines-Télécom, France (IMT)
- Brno University of Technology, South Moravia, Czech Republic (BUT)
- Slovak University of Technology Bratislava, Slovakia (STU)
- Technical University of Vienna, Austria (TUW)
- University Rey Juan Carlos, Community of Madrid, Spain (URJC)
- University L'Aquila, Abruzzo, Italy (UNIVAQ)
- National Technical University of Athens, Attica, Greece (NTUA)



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16 Ελληνικά ΑΕΙ σε Ευρωπαϊκές Συμμαχίες

First call EUIs 2019

- ΕΚΠΑ- CIVIS
- Γεωπονικό Πανεπιστήμιο Αθηνών – EU-CONEXUS
- Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης – EPICUR

Second call EUIs 2020

- Ελληνικό Μεσογειακό Πανεπιστήμιο – ATHENA
- Πανεπιστήμιο Αιγαίου – ERUA
- Πολυτεχνείο Κρήτης - EURECA-PRO
- Πανεπιστήμιο Θεσσαλίας – INVEST

Third call EUIs 2022

- Πανεπιστήμιο Κρήτης – INGENIUM

Fourth call EUIs 2023

- **Εθνικό Μετσόβιο Πολυτεχνείο – EULiST**
- Πανεπιστήμιο Πελοποννήσου – EUNICE

Fifth call EUIs 2024

- Πανεπιστήμιο Ιωαννίνων – Artemis
- Πανεπιστήμιο Μακεδονίας - BAUHAUS4EU
- Δημοκρίτειο Πανεπιστήμιο Θράκης – EMERGE
- Πανεπιστήμιο Πατρών – EUNICoast
- Πανεπιστήμιο Πειραιώς – EUonAIR
- Ελληνικό Ανοικτό Πανεπιστήμιο – OpenEU



16 Ελληνικά ΑΕΙ σε Ευρωπαϊκές Συμμαχίες

Δίκτυο ελληνικών πανεπιστημίων σε EUIs
16/6/2024, ΕΜΠ



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28/11/2025, ΕΚΠΑ



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EULiST: European Universities Linking Society and Technology



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Το Ευρωπαϊκό Πανεπιστήμιο EULiST έχει κύριο στόχο την **Βιώσιμη Ανάπτυξη**, συνδέει τη γνώση των Θετικών Επιστημών και των Επιστημών του Μηχανικού, **STEM**, με τις Κοινωνικές και Ανθρωπιστικές Επιστήμες, **SHS**, για την **ανάπτυξη λύσεων** που θα συμβάλλουν στην αντιμετώπιση των **παγκόσμιων προκλήσεων** :

- κλιματική αλλαγή,
- ψηφιακή μετάβαση, και
- κοινωνική συνοχή.

SUSTAINABLE DEVELOPMENT GOALS



EULiST Budget, 2023-2027

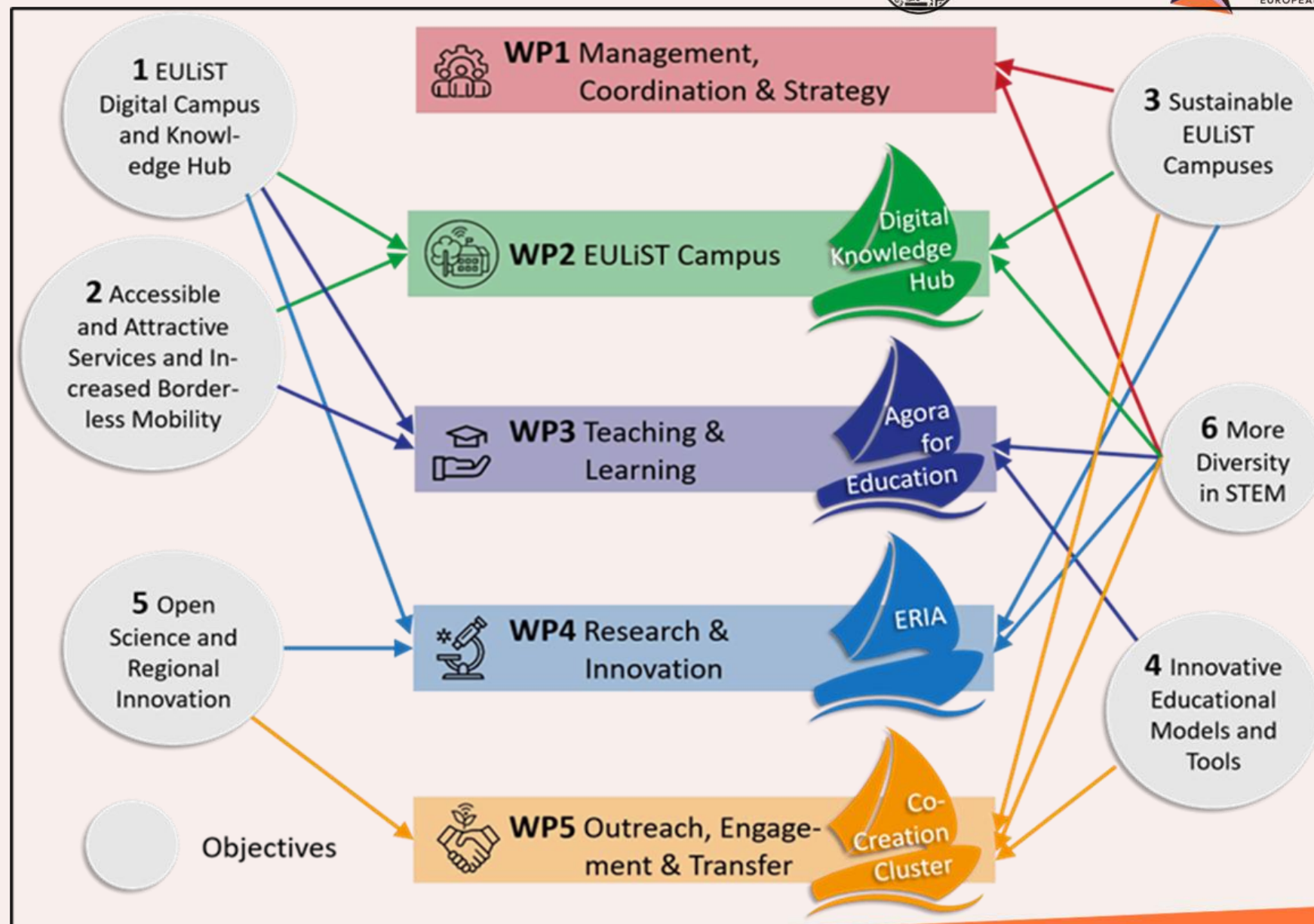
14.370.932 € Total

1.647.511 € NTUA



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Objectives and WPs



Added Value EULiST



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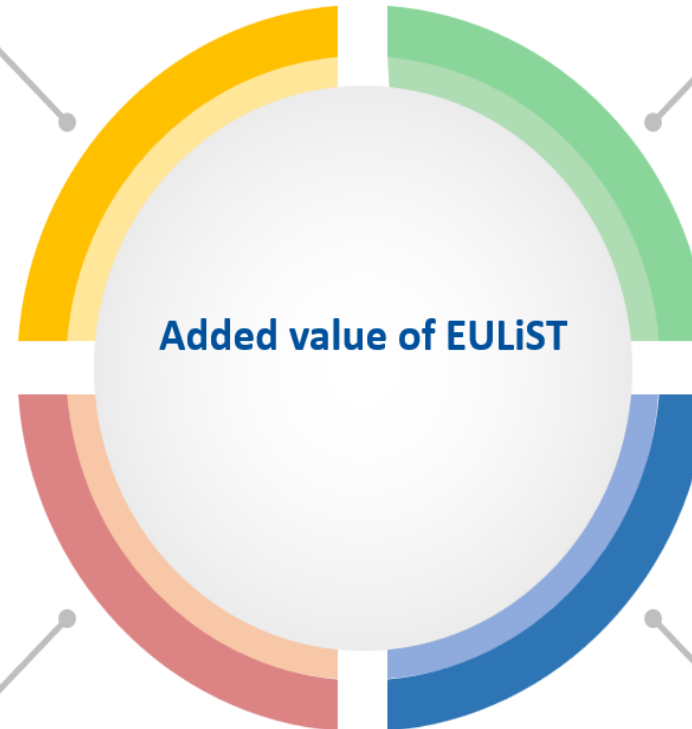
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University

- **International visibility and competitiveness**
- Address challenges with joint forces & resources
- **strengthening institutionalised international cooperation**
- Making Europe a tangible experience for all status groups

Administration

- **Professional Exchange & Peer Learning**
- Exchange visits/Staff Weeks
- Continuing Education/Lifelong Learning



Students

- **New mobility formats (virtual, hybrid, physical)**
- **International experience as mainstream (> 50% of all students)**
- Individualised curricula & expanded course offer, challenge based learning
- internships & final theses abroad

Researchers

- **New networks for research, education & transfer**
- Shared development of teaching programs
- **Access to data & infrastructures**
- Connecting of/with start-ups



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2020-2025 Alliance, 11/2023- 10/2025, EU Funded Project

Setting the basis,
Developing the
Strategies, Formulating
the tools to achieve
EULiST Objectives and
fostering the Alliance



EULiST GA, URJC ,
Madrid 2022



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EULiST GA, NTUA
Athens, 2023



EULiST GA, BUT,
BRNO, 2024



EULiST GA, UnivAq
L'Acquilla 2024

KPIs in 2024 & 2025 (1/2)

- 996 registered users across the Alliance in Nov. '24 (KPI1WP1)
- EULiST Summer Schools & 7 BIPs, (2 NTUA)– KPI4WP3
- 6 AI tools released (4 NTUA), 6 under development – KPI12WP3
- 59 activities with regional councils / municipalities / schools implemented across funding period – KPI3WP5

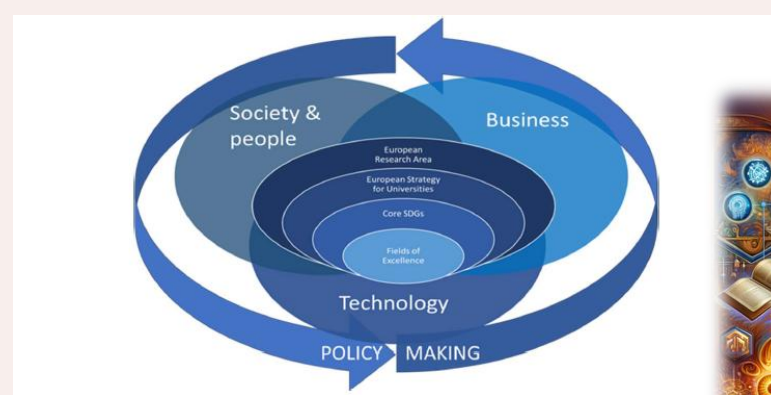


BIP at IMT
“Student Engagement”
18 – 24 /8/2024



KPIs in 2024 & 2025 (2/2)

- 5 Common research activities linking SSH and STEM activities involving two Members (or more) – KPI1WP4
- 15 Joint presentations / speeches / contributions at conferences outside EULiST – KPI2WP4
- 587 Joint publications involving 2 members (or more) – KPI3WP4
- 7 Research proposals approved for funding involving > 3 members (or more) – KPI4WP4
- 5 Research collaborations involving two (or more) members and at least one non- EULiST – KPI5WP4
- 12 completed co tutelles between two members– KPI8WP4



Common Research Strategy



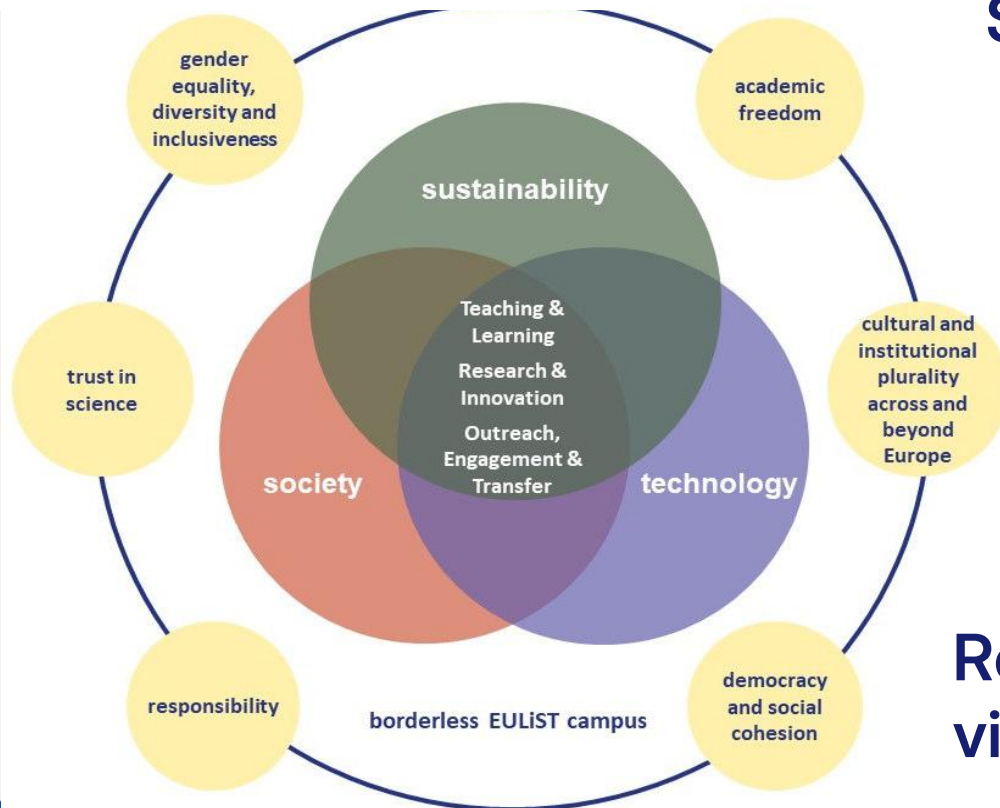
Describing the Researcher of The Future



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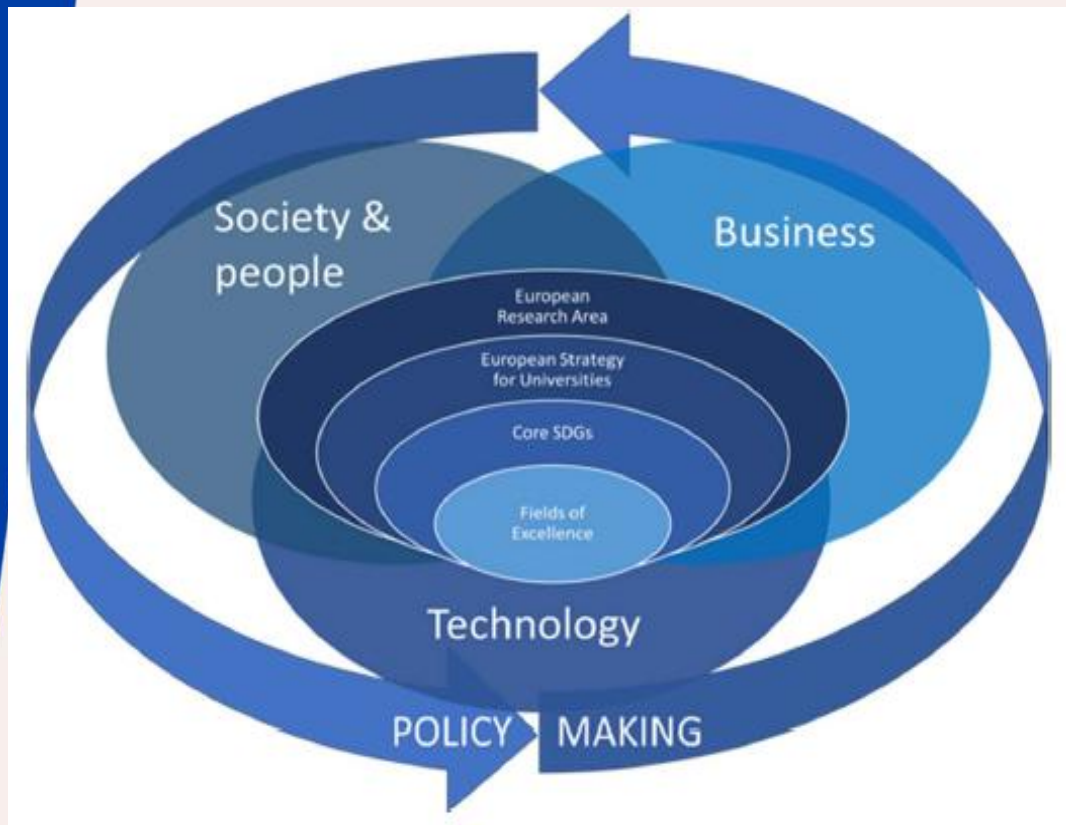
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Research and Innovation Academy (ERIA), & the virtual Early-Career Researchers Centre

EULiST Research Strategy

- RS included focus on SDGs 6,7,9,11,12,13 but also SDGs 5 and 4.



9 Research Fridays in 2024 & 2025, > 400 participants



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1st Friday (1st March 2024): Energy storage and RES

- New solutions for the Hydrogen economy
- Hydrogen storage materials
- Fuel cells materials
- Electrolyzer materials
- Electricity market and hydrogen storage
- Hydrogen underground storage
- Social impact of Hydrogen economy
- Hydrogen carriers
- LCA

2nd Friday (5th April) 2024: Material Science and Manufacturing

- Advanced Manufacturing
- Advances in Conventional & Non-conventional Machining
- Hybrid Machining
- Additive Manufacturing
- Micro Machining
- Surface Modification: treatments and processes
- Green and Smart Manufacturing
- Advanced Materials
- Industry 4.0
- Modelling and Simulation in Manufacturing
- Any other suggested relevant topic

3rd Friday (17th May 2024): Bioengineering and Biotechnology

- Cell and Tissue Engineering
- Wearable Devices
- Biocomputing and Biomachines
- Eng. organisms for chemical and pharmaceutical man/ring
- Neurotechnology - Robotics
- Biomechanics, Biofluids and Bionics
- Rehabilitation Engineering
- Orthopaedic Bioengineering
- Biomedical Electronics
- Biomechatronics
- Bioinstrumentation
- Medical Imaging
- Bioinformatics
- Biomaterials, Bioinspired Engineering

4th Friday (4th October) 2024: Environmental Research and Climate Change

- **Climate Change and Water-Related Disasters**
- Extreme Weather Events
- GHG emissions, Air Quality and measurements
- Health impacts of climate change
- Economic Impacts of Climate Change
- Societal impacts of Climate Change
- Biodiversity loss and ecosystem resilience under Climate Change
- Cascading climate change impacts and implications
- Climate adaptation and mitigation strategies
- Disaster risk reduction and anticipatory actions
- Sustainable urbanization and green cities
- Deforestation and land use change

5th Friday (8th November 2024): Smart Cities

- Smart Mobility and Transportation
- Smart Government
- Smart Building
- Digital Citizen
- Public Safety & Security
- Smart Energy
- Smart Infrastructure
- E-governance
- Green Urban Planning
- Advanced Waste Management
- Water Management.

6th Friday (13th December 2024) :

Innovative Social Sciences for a Sustainable Bridge between Technology and Society

- Social Innovation and Technology
- Climate Change and Social Resilience
- Digital Transition and Social Cohesion
- Social aspects of Health and Well-being , Education and Lifelong Learning
- Cultural Heritage and Identity
- Urbanization and Rural Development
- Governance and Democracy
- Economic and Social Inequality
- Migration and Integration, Gender Studies and Equality
- Peace and Conflict Studies
- Aging and Society
- Media and Communication
- Legal Studies and Human Rights

7th Friday (14th February 2025) :

Digital Trust and Cybersecurity

- Data Privacy and Protection
- Cybersecurity Governance and Risk Management
- Blockchain and trust secure transaction
- AI and Machine Learning
- Cloud Security
- Identity and Access management, Biometrics
- Privacy Enhancing Technologies
- Regulatory and Legal compliance. Cyber security regulations. Cyber insurance. Ethical hacking.

8th Friday (7th March 2025) :

AI in product realization for sustainable industry

- AI in product design and development
- Sustainable manufacturing processes
- AI and its use in Industry 4.0
- Leadership for AI transition
- AI tools in supply chains and business ecosystems
- Decision support in sustainable product design
- Human AI aspects

9th Friday (27th June 2025) : EU Pathfinder Challenge (Deadline: 29th October 2025)

- Waste to Hydrogen using thermomechanical conversion, Waste to value devices, Enzyme-based research, Photogrammetry, Computer Vision & Machine learning, Novel image acquisition, Computer Vision and AI methods for biomedical image analysis, Translational technologies, High-resolution image synthesis using AI, Renewable energy vectors: statistical and experiments approaches, process optimization



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EULiST Research in Focus



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EULiST Research Cooperation Achievements	Number	Description
Collaborative Projects (≥ 2 EULiST + ≥ 1 external partner)	7	Projects with more than two EULiST members and at least one non-EULiST institution
SSH–STEM Joint Research Activities	5	Cross-disciplinary activities linking Social Sciences & Humanities with STEM across >2 partners
Large Multi-Partner Research Projects (≥ 3 EULiST partners)	6	Research projects involving three or more EULiST partners (Jan 2024 onward)
Total	18	Total number of EULiST research cooperation actions



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EULiST Research in Focus

Cross-disciplinary activities linking Social Sciences & Humanities with STEM >2 partners

Full Project Title	Funding Period	EULiST Partners Involved
LANDLABS – Landscape Laboratories: Design Strategies for Sustainable and Beautiful Urban Landscapes in the Anthropocene (<i>Marie Skłodowska-Curie Actions</i>)	10/2024 – 09/2028	LUH (Coordinator), TUW
RM-SLO+ HUB – An SLO Hub for the Raw Materials Sector (<i>EIT Raw Materials</i>)	07/2025 – 07/2026	NTUA (Coordinator), LUT
Rigoletto – RISC-V Generation of High-Performance Automotive Processors and Computing Platforms (<i>Horizon Europe: Digital, Industry and Space</i>)	07/2025 – 06/2028	BUT, TUW
BridgeTTe – Bridging Academia and Enterprise by AI-Powered Talent Scouting, Female Empowering, Sciencepreneurship and Prototyping for Start-Up and Spin-Off Ecosystems Enhancement	06/2025 – 11/2027	BUT, STU
FATRESCON – Concrete Matrices for High-Cycle-Fatigue-Resistant, Eco-Efficient Infrastructure (<i>European Research Council – ERC</i>)	06/2025 – 05/2031	BUT, TUW



EULiST Research in Focus



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Research projects > 3 or more EULiST partners (Jan 2024 onward)

Framework Programme & Project Title	Period	EULiST Partners Involved
Horizon Europe — European Partnership on Radioactive Waste Management (EURAD 2)	10/2024 – 09/2029	IMT, LUH, NTUA, STU
Horizon Europe — Addressing Priorities of Evaluated Nuclear Data in Europe (APRENDE)	10/2024 – 09/2029	IMT, NTUA, STU, TUW
Horizon Europe — A Comprehensive Framework Enabling the Delivery of Trustworthy Datasets for Efficient AIoT Operation (PANDORA)	04/2024 – 03/2027	NTUA, IMT, STU
COST Action — Network for Indoor Air Cleaning (Net4CleanAir)	10/2024 – 10/2028	BUT, IMT, STU
Horizon Europe — In-Situ Monitoring of Electromagnetic Interference (iSENSE)	02/2025 – 01/2029	LUH, BUT, UNIVAQ
Horizon Europe — Future Leaders in Ageing and Digitalizing Societies (Digi4Age)	01/2026 – 12/2029	LUT, URJC, TUW



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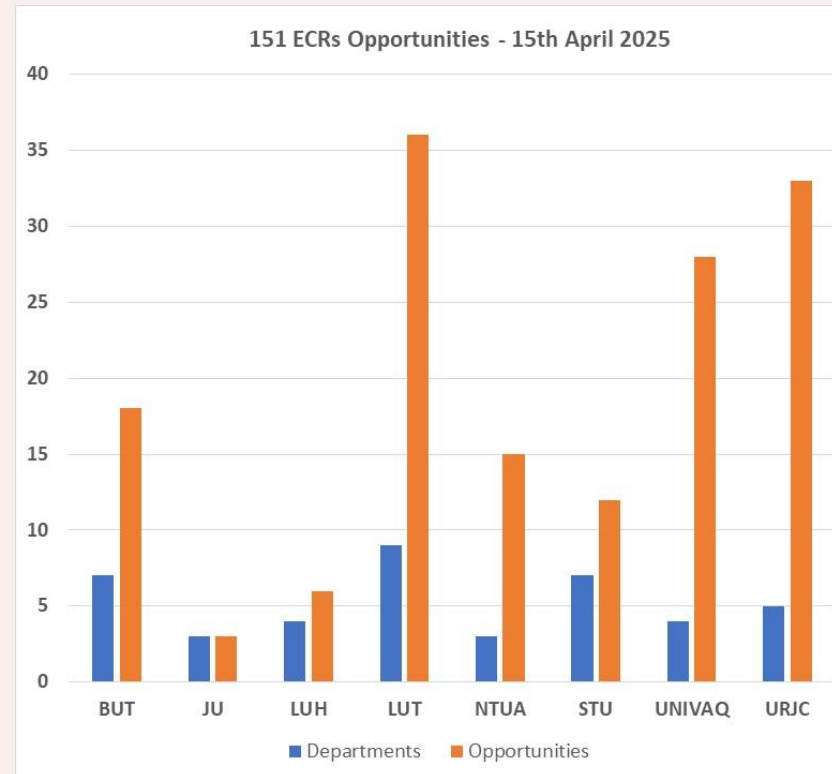
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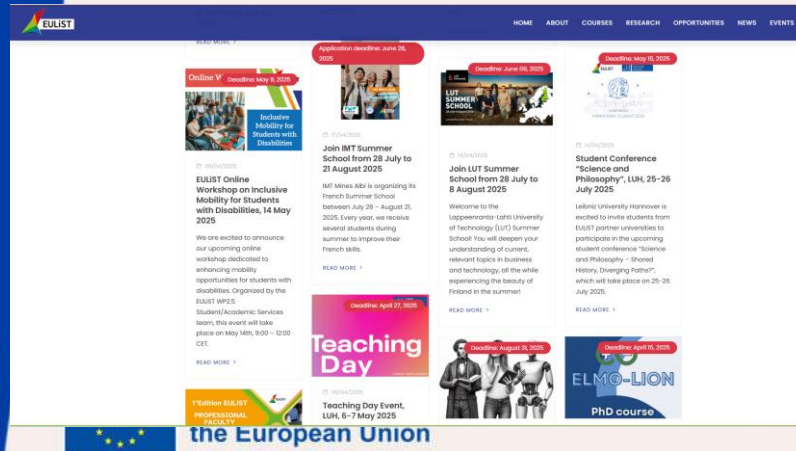


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Open Science and regional innovation

- Joint R&D Strategy
- EU Proposals Roadmap
- Facilitating the sharing of expertise among EULIST Members
- Acting as the interface between the universities and stakeholders
- Dissemination of research and innovation results (industry, national academies, research and educational institutions and organisations, municipalities and the public)



Activities and Opportunities

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Two vibrant Student Conferences at TUW, 2024 and IMT, 2025 > 200+200 participants from 10 EULIST Universities fostering the spirit of the EULiST Alliance



Technical University of Vienna (TUW), 30/06 - 04/07/2024
184 students from 10 Universities (NTUA 25)



Institut Mines-Télécom (IMT) Nord Europe, 30/06 - 04/07/2025, Around 170 students from 10 Universities, (NTUA 24)



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First EULiS I Global Conference: Co-creating Sustainable Solutions for Climate-Resilient Societies



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Date: November 20th and 21st, 2025

Location: URJC, Madrid

Organisers: URJC & NTUA,

Pablo T. Salvadores and Antonia Lampopoulou, heads of the Global Conference Organising Committee

Four parallel sessions:

- 1. Knowledge through Research/Prof. S. Karellas, NTUA**
- 2. Academia-Industry Partnerships as Drivers of Transformation**
- 3. Urban Resilience and Climate Neutrality/Prof. E. Alexandrou, NTUA**
- 4. Information and Society**

Conference for PhD Students: November 19th, 2025



PhD Pre-Conference Call for Abstracts
By October 26, 2025





First EULiST Global Conference: Co-creating Sustainable Solutions for Climate-Resilient Societies

Date: November 20th and 21st, 2025

230 researchers from 34 countries, 11 from Greece

debated for two days, with European companies and cities also in attendance.

URJC handed over the baton to NTUA for the celebration of the next Global Conference in Athens in 2027.



In Summary:

- During the last two years EULiST partners through the development of Strategies, Tools, and joint Education & Research and Outreach activities have fostered their cooperation, and enhanced transfer of Best Practices in Digital Campus, Teaching & Learning, Research and Outreach, emphasis in Green Energy and Digital Transition, **NTUA played a pivotal role as a partner.**
- To ensure EULiST Alliance sustainability in the next steps the active engagement of the Partner Universities ecosystems and their networks towards linking Society with Technology will be further supported.





Ioannis Chatzigeorgiou
Governing Board
NTUA Rector / Professor
School of Naval Architecture and
Marine Engineering



Manos Varvarigos
Governing Board
Vice Rector of Research, Innovation
and Outreach
School of Electrical and Computer
Engineering



Athanasios Zisis
Governing Board, Management
Board
Vice Rector for Academic Affairs
and Life-Long Learning / Associate
Professor
School of Applied Mathematical and
Physical Sciences

Ομάδα EULiST NTUA Team



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EULiST NTUA Project Scientific Responsible



Katerina Adam
Scientific Responsible /
Management Board, Task 1.3 lead,
Task 1.1, Task 3.4
Professor Emeritus
School of Mining and Metallurgical
Engineering



Sotirios Karellas
Scientific Responsible / Project
Steering Committee, WP 4 lead, Task
4.1 lead
Professor
School of Mechanical Engineering



Coordination Office - Local Coordinator



Antonia Lampropoulou
Local Coordinator / CO, Joint PR Unit,
Task 5.3 lead, Task 1.2, Task 5.1, Task
5.5
Head of International Relations
Department



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