

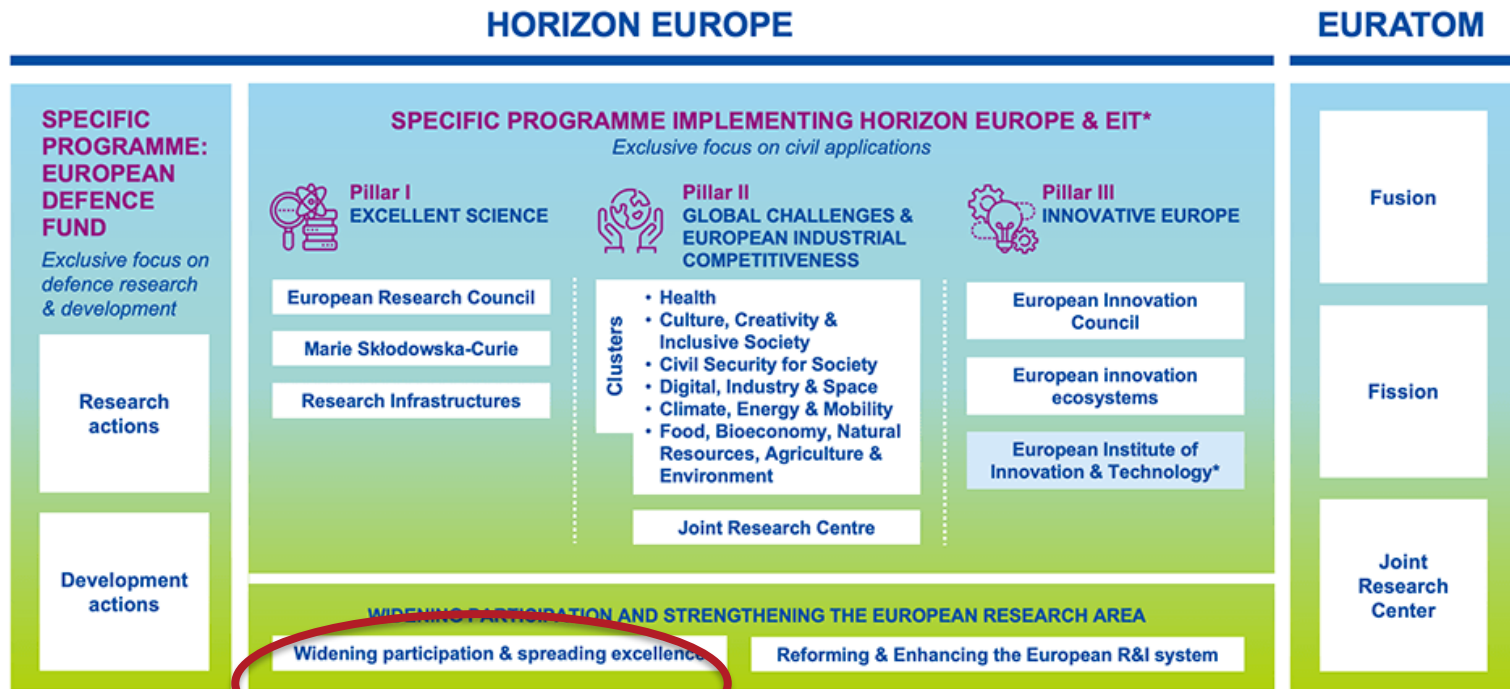
**Χρηματοδοτικές ευκαιρίες από
το πρόγραμμα "Widening
Participation & Spreading
Excellence"**

**Βασιλική Καλοδήμου
Εθνικό Σημείο Επαφής στον Ορίζοντα Ευρώπη**

**ΔΙΑΔΙΚΤΥΑΚΟ ΣΕΜΙΝΑΡΙΟ
Πανεπιστήμιο Δυτικής Μακεδονίας
Πέμπτη, 2 Δεκεμβρίου 2021**



Horizon Europe Structure: Widening Participation (2.96bn euro)



The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme



Περιεχόμενα

- › Προκήρυξη Twinning
- › Προκήρυξη ERA Chairs
- › Προκήρυξη Excellence Hubs



Twinning – ERA Chairs - Διαφορά από άλλες θεματικές και τύπους δράσεων των προγραμμάτων πλαίσιο

- Μικρά - στοχευμένα δίκτυα (Twinning)
- Πόροι προοριζόμενοι αποκλειστικά για **capacity building οργανισμών**, υπό την **καθοδήγηση** των **advanced partners**, μέσω:
 - ενίσχυσης της επιστημονικής τους βάσης
 - ενίσχυσης της ικανότητάς τους να καινοτομούν
 - σύνδεσής τους με το οικοσύστημα, ιδιαίτερα με τη βιομηχανία και τις ΜμΕ
 - ενίσχυσης συγγραφής προτάσεων
 - ερευνητικής συνεργασίας με τους advanced partners
 - κοινές δημοσιεύσεις με τους advanced partners
- Υλοποίηση της **στρατηγικής ατζέντας οργανισμών** με την επιλογή της κατάλληλης δράσης (Twinning – ERA Chairs)



Twinning



Twinning: HORIZON-WIDERA-2021-ACCESS-03-01

- › Total budget: 149 mio euro
- › Budget per proposal: 0.80-1.50 mio euro | Duration: 3 years
- › Number of proposals to be funded: 100
- › **Coordinator:** Legal entities from widening countries
- › **Consortium:** At least two internationally research-based institutions from eligible countries in Horizon Europe, other than the country of the coordinator
- › Type of action: Coordination and Support Action
- › 30% of the grant to research projects
 - 70% of research activities should be allocated at the coordinator
- › Cross-cutting subjects: Gender – Gender equality plans, open science, FAIR data
- › Deadline: 18 January 2022



Scope (τι ζητάει η προκήρυξη)



twinning

Focused networks with high quality partners

- › Selection of any scientific domain (bottom up)
- › Training and Mentoring programme for widening coordinators
- › Strategic networking activities between the Coordinator and advanced partner
- › Mobility for qualified scientists (inward – outward)
- › Utilise the experience and best practices of internationally leading partners
- › Arrangements for new or on-going research partnerships
- › Strengthen Research Management and Administration skills
 - Dedicated work package or task
 - Focus on proposal writing
 - Set-up a distinct unit, if not existing
- › Stimulate **scientific excellence and innovation capacity** of the coordinator

Underpinned by scientific strategy

Gender Balance



Eligible activities

Soft activities + research component

- › short-term staff exchanges
- › expert visits
- › short term on-site or virtual training
- › Workshops (including with non-academic actors, ie industry)
- › conference attendance
- › Dissemination of research work (publications)
- › organisation of joint summer school type activities
- › dissemination and outreach activities (ie. public campaigns)
- › Research costs



Παραδείγματα δράσεων

- Provision of methodological tools (training programme)
- KPIs
 - X increase in high impact publications
 - X number of Phd/master thesis on x subject
 - X number of interdisciplinary teams
 - Better organizational processes
 - X number of joint research project applications by the consortium
 - X workshops with industry
- “Seamless” mobility of researchers (well designed exchange schemes)
- Public engagement campaigns



Συμβουλές

- › Ακρίβεια στο περιεχόμενο – αποφύγετε ασάφειες ή πολύ γενικά κείμενα
- › Δυναμικό “lead-in” από το Excellence
- › Κατάρτιση σχετικών KPIs
- › Σύνδεση στόχων και αποτελεσμάτων με KPIs
- › Gender aspects in research methodology and implementation teams
- › Αναφορά σε ένα φιλόδοξο όραμα του συντονιστή ή της κοινοπραξίας
- › Αναφορά σε προηγούμενα έργα που αποτελούν συνέχεια μέσω του έργου Twinning



Twinning

Παραδείγματα - Στατιστικά



Παράδειγμα 1: MULTICOOP Project



Assessment of chemical cocktails in combination with bioactivity testing for food and feed safety

- › **Coordinator:** University of Chemistry and Technology – Prague (CZ) - € 416 k
- › **Budget:** € 998 k – **Duration:** 01/01/16 – 31/12/18
- › **Advanced partners:**
 1. The Queen's University of Belfast (UK) - € 291 k
 2. University of Vienna, Dept of Agrobiotechnology – IFA-Tulln (AT) - € 291 k



VYSOKÁ ŠKOLA
CHEMICKO-TECHNOLOGICKÁ
V PRAZE



Queen's University
Belfast

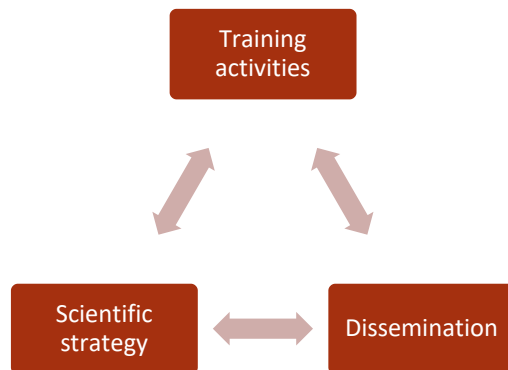


>> Παράδειγμα 1 : MULTICOOP Project



Objectives

- › Transfer of competences, techniques between the 3 partners



Impact

- › 10 joint research publications in food safety (combined food toxicity on food toxicants)
- › 14 papers with GOLD/GREEN access
- › Joint projects funded under H2020 (January 2017 onwards)
- › EIT Food Hub in Czech Republic
- › Identifying potential areas for future research



Παράδειγμα 2: REPARES project


- › New Twinning Project (2018 Call), same team
- › **Subject:** Research on antibiotic resistance spread through wastewater treatment plants
- › Partners involved:
 1. TU Delft – NL
 2. Westus – NL  Centre of Excellence
 3. Aalborg University – DK
 4. Catholic University of Portugal - PT

Table 3.1a: List of work packages

Work package No	Work Package Title	Lead Participant No	Lead Participant Short Name	Person-Months	Start Month	End month
1	Increasing UCT's level of scientific excellence	1	UCT	45	3	36
2	Increasing ability to successfully apply for international projects	2	TU Delft	11	12	36
3	Fostering cooperation with non-academic sector	3	Wetusus	11	1	36
4	Advancing European community's know-how on ARG's occurrence and spread in Europe	5	UCP	47	1	36
5	Management and Dissemination	1	UCT	30	1	36

 Abstract from the Proposal



Παράδειγμα 3: Έργο Twinning project με ελληνική συμμετοχή



Twinning Open Data Operational - **TODO** project:

<https://todo-project.eu/>

Coordinator: Faculty of Geodesy, University of Zagreb

Greek partner: University of Aegean,
Dept of Information and Communication Systems

University of Zagreb

















- Faculty of Electrical Engineering and Computing
- Faculty of Organization and Informatics
- Faculty of Law
- Faculty of Transport and Traffic Sciences, Faculty of Agriculture

Delft University of Technology and University



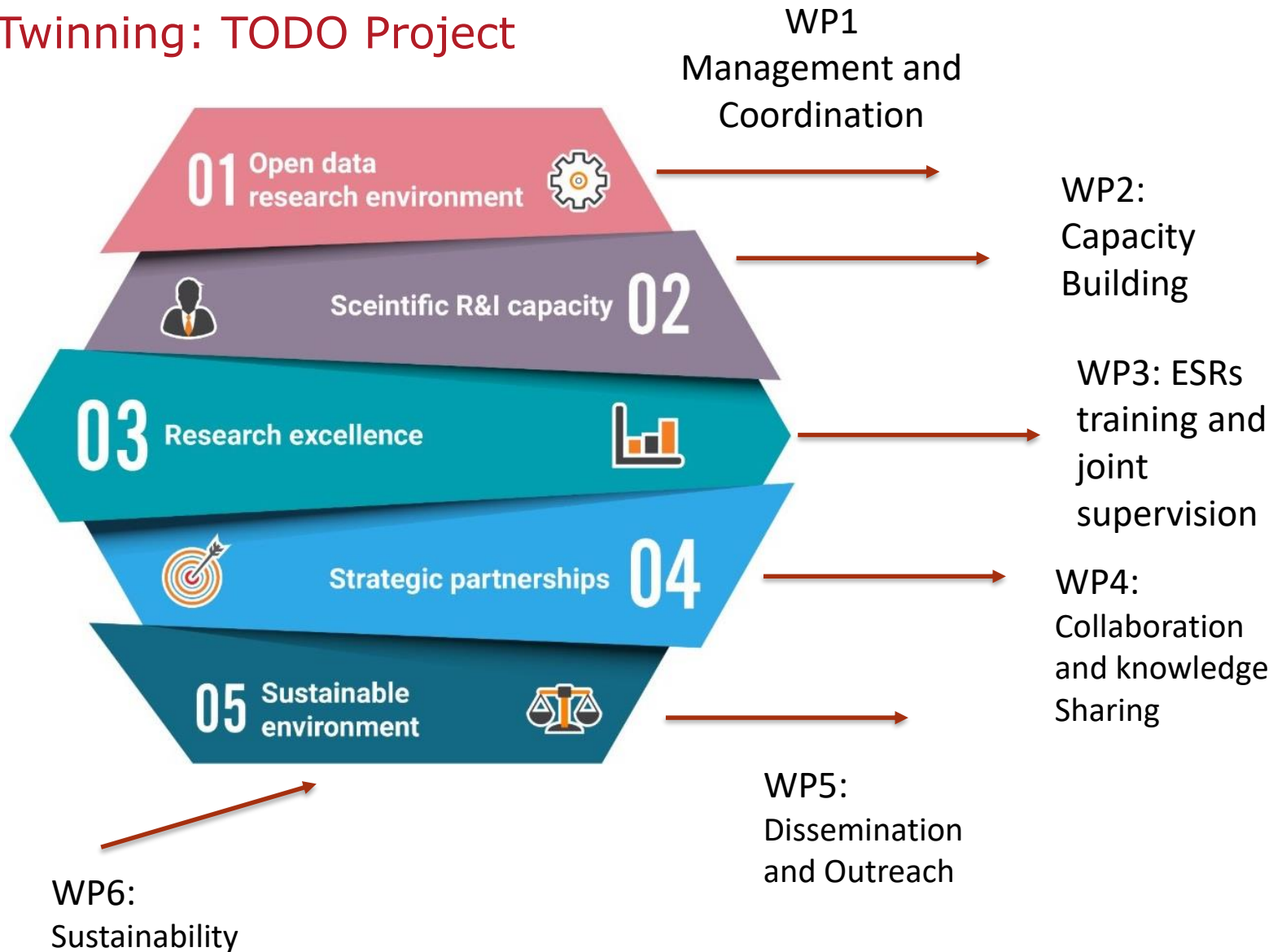
TODO project at Cordis

<https://cordis.europa.eu/project/id/857592>

Coordinator		
	SVEUCILISTE U ZAGREBU - GEODETSKI FAKULTET	
Address	Activity type	EU contribution
Kaciceva 26	Higher or Secondary	€ 92 267,50
10000 Zagreb	Education Establishments	
 Croatia		
Website ↗	Contact the organisation ↗	
Participants (7)		
Sort alphabetically ↕	Sort by EU Contribution ↕	Expand all
	SVEUCILISTE U ZAGREBU FAKULTET ELEKTROTEHNIKE I RACUNARSTVA	EU contribution € 66 723,75
 Croatia		▼
	SVEUCILISTE U ZAGREBU, FAKULTET ORGANIZACIJE I INFORMATIKE	EU contribution € 91 105
 Croatia		▼
	SVEUCILISTE U ZAGREBU - PRAVNI FAKULTET	EU contribution € 66 148,75
 Croatia		▼
	SVEUCILISTE U ZAGREBU FAKULTET PROMETNIH ZNANOSTI	EU contribution € 71 217,50
 Croatia		▼
	SVEUCILISTE U ZAGREBU AGRONOMSKI FAKULTET	EU contribution € 53 732,50
 Croatia		▼
	TECHNISCHE UNIVERSITEIT DELFT	EU contribution € 199 612,50
 Netherlands		▼
	PANEPISTIMIO AIGAIU	EU contribution € 159 181,25
 Greece		▼



Twinning: TODO Project





Νέα έργα από Βόρεια Ελλάδα



Earth Observation Training in Science and Technology

<https://eotist.cbk.waw.pl/project.html>

Advanced partner from Greece: CERTH/ITI

Objectives

SWOT analysis allowed defining specific objectives to be reached:

- O1.** Enhance S&T capacity of the coordinating institution;
- O2.** Upgrade research profile of the coordinating institution and the profile of its staff by training and mobilizing of personnel;
- O3.** Increase research excellence and stimulate innovation of the coordinating institution;
- O4.** Achieve sustainable progress and future development for the today's seed group in CBK PAN;
- O5.** Promote the involvement of early stage researchers in the CBK PAN;
- O6.** Develop joint research initiatives and projects;
- O7.** Improve proposal preparation and management/administration skills in the CBK PAN.



<http://istoscenter.eu/>

Advanced partner from Greece: AUTH/RU on Soil Dynamics and Geotechnical Earthquake Engineering



ΣΤΑΤΙΣΤΙΚΑ (Η2020)

Top Participants				
Legal Name	Country	City	H2020 Participations	H2020 Net EU Contribution
Totals			904	€ 195.166.504
TARTU ULIKOOL	Estonia	TARTU	10	€ 4.051.846
INSTITUTO DE MEDICINA MOLECULAR JOAO LOBO ANTUNES	Portugal	LISBOA	7	€ 3.923.663
KATHOLIEKE UNIVERSITEIT LEUVEN	Belgium	LEUVEN	14	€ 2.734.699
Masarykova univerzita	Czechia	BRNO STRED	5	€ 2.585.348
FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG	Germany	MUNCHEN	12	€ 2.310.499
UNIVERSIDADE NOVA DE LISBOA	Portugal	LISBOA	5	€ 2.188.651
TECHNOLOGIKO PANEPISTIMIO KYPROU	Cyprus	LEMESOS	6	€ 2.179.449
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	France	PARIS	16	€ 1.707.303
THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	United Kingdom	CAMBRIDGE	9	€ 1.886.436
TALLINNA TEHNIKAÜLIKOOL	Estonia	TALLINN	4	€ 1.680.105
INSTITUT JOZEF STEFAN	Slovenia	LJUBLJANA	6	€ 1.648.883
UNIVERSITY OF CYPRUS	Cyprus	NICOSIA	4	€ 1.579.516
UNIVERSIDADE DO MINHO	Portugal	BRAGA	3	€ 1.571.199
MALTA COLLEGE OF ARTS SCIENCE AND TECHNOLOGY	Malta	PAOLA	4	€ 1.570.754
TALLINN UNIVERSITY	Estonia	TALLINN	5	€ 1.550.014
UNIVERSITEIT GENT	Belgium	GENT	7	€ 1.455.795
CONSIGLIO NAZIONALE DELLE RICERCHE	Italy	ROMA	7	€ 1.302.058



ERA Chairs



ERA Chairs: HORIZON-WIDERA-2022-TALENTS-01-01

- › Duration: 5 years
- › Total budget: 80 mio euro
- › Budget/proposal: 1.50 - 2.50 mio euro
- › Number of proposals to be funded: 32
- › Eligibility: Coordinators from widening countries
- › Consortium: Possibility for joint application between the coordinator & organization (from any part of the world **EXCEPT the country of the coordinator**) currently hosting the ERA Chair
- › Type of Action: Coordination and Support Action (CSA)
- › Deadline: 15 March 2022



Description



era chairs

The ERA Chair

- › Must be identified
- › Outstanding researcher of any nationality settling in a widening organisation
- › Enjoy freedom/autonomy from the host organization
- › Resource allocation, apply freely for funding, supervise team members
- › May undertake teaching duties
- › Full time or part time

ERA Chair & the team

- › Set up a permanent research team **integrated** in the coordinator
- › Open-transparent recruitment – No prior contractual relationship of 50% of team members
- › Set up a leader of the team within the first 3 years of the project



The proposal

- › CV of the ERA Chair
- › Technical and scientific support to be provided by the coordinator
- › Investments in facilities, infrastructures or effective use of existing facilities
- › Recruitment by the European Charter for Researchers & Code of Conduct

Demonstration of commitment

- › Letter of Commitment by the ERA Chair
- › Letter of the head of the coordinator about giving the ERA Chair holder adequate support

Contractual arrangements and multiple stays

- › Salary, travel, perks should be outlined in proposal
- › Timeline outlined in proposal
- › Sustainability arrangements



Impact

Institutional reforms

- › establishment of a research unit for spill over effect within the organisation
- › better research management, IPR etc

Fund raising - Sustainability

- › improved success to competitive research funding

Attractiveness

- › Improved attractiveness of the institution to attract international and excellent researchers
 - international, interdisciplinary and intersectoral mobility of researchers and innovators



Eligible costs

Eligible costs

- › Salaries / ERA Chair and team members
- › Recruitment costs
- › Travel costs
- › Administrative costs
- › **Up to 10% research costs** (linked to seconded personnel to the coordinator)
- › Trainings
- › Meetings
- › **Publications**
- › **Intellectual Property Management**

Gender equality plans



ERA Chairs

Παραδείγματα – στατιστικά - ανταγωνιστικά στοιχεία πρότασης



Case 1: SuprachemLab (RO)



Laboratory for Supramolecular Chemistry for adoptive delivery systems

Host: Intel Centre @ Petru Poni
Institute for Macromolecular
Chemistry, based in IASI, Romania

ERA Chair: Emeritus Professor Marc
J.M. Abadie, University of Montpellier,

Aim: Establish a competitive research group in hybrid materials for adoptive
self-organised supramolecular structures

Budget: € 2.5 m– **Duration:** 01/07/15 – 30/06/20

Resources:

1. Newly build Intel Centre for Bionanoconjugates and biopolymers
worth of 5 million euros
2. Experience of Nobel Prize holder in Chemistry Prof. Jean Marie
Lehn



Case 1: SuprachemLab (RO)



Achievements

- › 57 open-access articles in scientific journals on Drug Delivery
- › 9 in-house trainings brought >20 leading scientists
- › 10 outgoing trainings: Montpellier institute of Membranes (FR), Namur University (BE), EU Surface Analysis Users Meeting (UK)
- › Scientific agreements with CNRS (FR), Imperial College (UK), Fraunhofer Institut fur Biomedizinische (DE), Royal Institute of Technology – Dept of Chemistry (SE)
- › 5 in-house event for cooperation with industry, patenting and tech-transfer, >25 participation in industry-based events.
- › Membership in clusters, national & international (Danube Framework for RRI)



Case 2: University of Tartu: Institute of Technology



UNIVERSITY OF TARTU
Institute of Technology

3 ERA Chairs by one Institute

SynBioTec: ERA Chairs on Synthetic Biology

› ERA Chair Holder: Dr. Petri – Jaan Lahtvee



GasFermTech

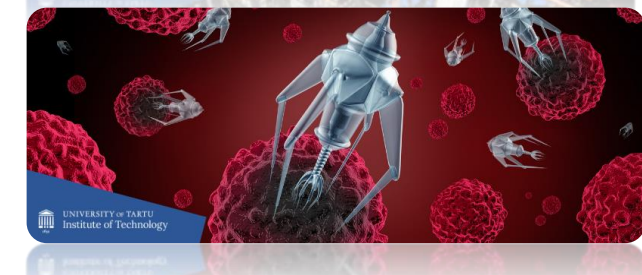
ERA Chairs on Gas Fermentation Technologies

› ERA Chair Holder: Dr. Kaspar Valgepea



MATTER: ERA Chairs on Materials in Xtreme Environments

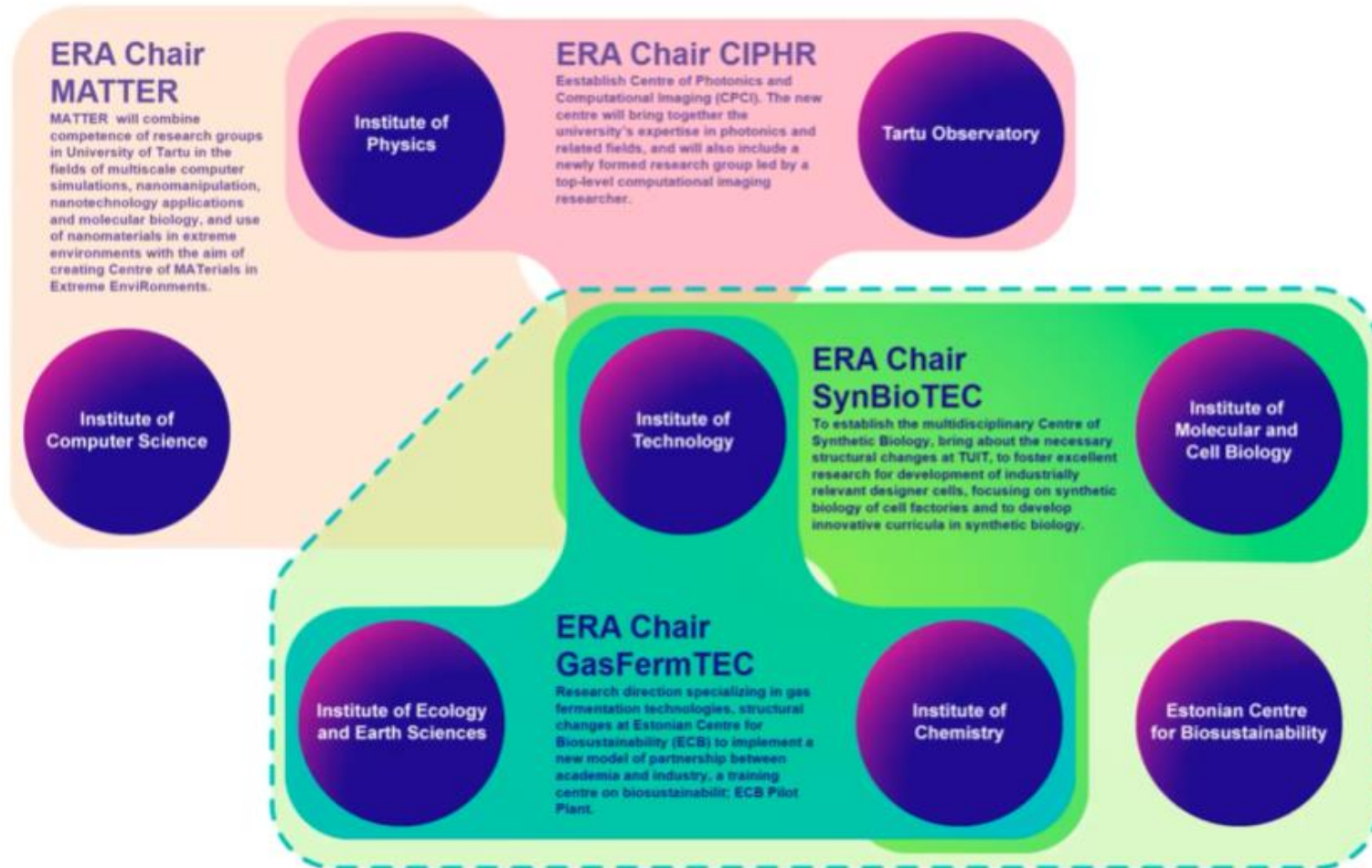
› ERA Chair Holder: Not recruited yet



Plus: Seed funding for research costs by Estonian Research Council



Case 2: University of Tartu: Institute of Technology





ΣΤΑΤΙΣΤΙΚΑ (Η2020)

Top Participants					
Legal Name	Country	City	H2020 Participations	H2020 Net EU Contribution	
Totals			59	€ 146.234.993	
TARTU ULIKOOL	Estonia	TARTU	7	€ 17.286.219	
TALLINNA TEHNIKAÜLIKOOL	Estonia	TALLINN	3	€ 7.497.500	
UNIVERZA V LJUBLJANI	Slovenia	LJUBLJANA	2	€ 4.999.996	
THE CYPRUS INSTITUTE	Cyprus	NICOSIA	2	€ 4.999.250	
EESTI MAULIKOOL	Estonia	TARTU	2	€ 4.967.375	
INSTITUTO DE BIOLOGIA MOLECULAR E CELULAR-IBMC	Portugal	PORTO	2	€ 4.955.799	
TALLINN UNIVERSITY	Estonia	TALLINN	2	€ 4.896.363	
ICETA INSTITUTO DE CIENCIAS, TECNOLOGIAS E AGROAMBIENTE DA	Portugal	PORTO	2	€ 4.724.545	
CENTRO DE NEUROCIENCIAS E BIOLOGIACELULAR ASSOCIACAO	Portugal	COIMBRA	1	€ 2.500.000	
INSTITUTUL REGIONAL DE ONCOLOGIE IASI	Romania	IASI	1	€ 2.500.000	
UNIVERSITY OF CYPRUS	Cyprus	NICOSIA	1	€ 2.500.000	
FACULDADE DE MEDICINA DA UNIVERSIDADE DE LISBOA	Portugal	LISBOA	1	€ 2.499.999	
Medical University Of Varna	Bulgaria	VARNA	1	€ 2.499.979	
SVEUCILISTE U ZAGREBU FAKULTET ELEKTROTEHNIKE I RACUNARSTVA	Croatia	ZAGREB	1	€ 2.499.958	
KOC UNIVERSITY	Turkey	ISTANBUL	1	€ 2.499.938	
Instytut Rozrodu Zwierząt i Badania Żywności Polskiej Akademii Nauk	Poland	OLSZTYN	1	€ 2.499.888	
UNIVERSIDADE DO MINHO	Portugal	BRAGA	1	€ 2.499.755	
POLITECHNIKA ŚLĄSKA	Poland	GLIWICE	1	€ 2.499.500	



Στοιχεία ανταγωνιστικής πρότασης

Επίπεδο οργανισμού

- › Παραδοχή αδυναμιών του ινστιτούτου/εργαστηρίου του φορέα υποδοχής
- › Διάθεση για διαρθρωτικές αλλαγές που να επηρεάζουν και τον φορέα υποδοχής
- › Δέσμευση του φορέα υποδοχής για μέγιστη αυτονομία στον ERA Chair

Συμπληρωματικές επενδύσεις

- › Εξοπλισμός που θα αποκτηθεί και θα διατεθεί για τις ανάγκες του έργου
- › Seed funding π.χ. για έρευνα

Προφίλ ERA Chair

Στρατηγική - βιωσιμότητα

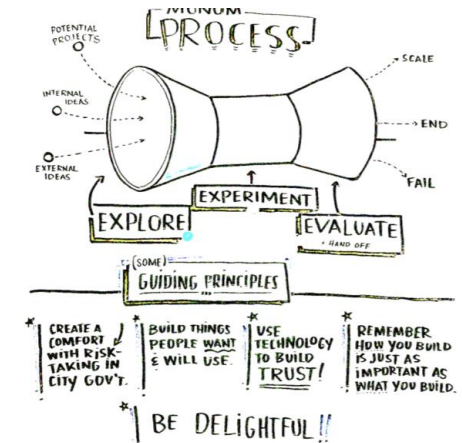
- › Ενσωμάτωση ERA Chair και της ομάδας στον φορέα υποδοχής
- › Ενσωμάτωση της ομάδας στα αναπτυξιακά σχέδια του φορέα υποδοχής π.χ. δημιουργία νέου κέντρου, νέου ινστιτούτου, κ.ά.
- › Fund raising



Excellence Hubs: HORIZON-WIDERA-2022-ACCESS-04-01

Details

- › Deadline: March 15, 2022
- › Total budget: 50 mio euro
- › Budget per proposal: 3-5 mio euro
- › Type of action: Coordination and Support Action
- › Eligibility: At least 2 place-based R&I ecosystems from widening countries
- › **Quadruple helix ecosystem**

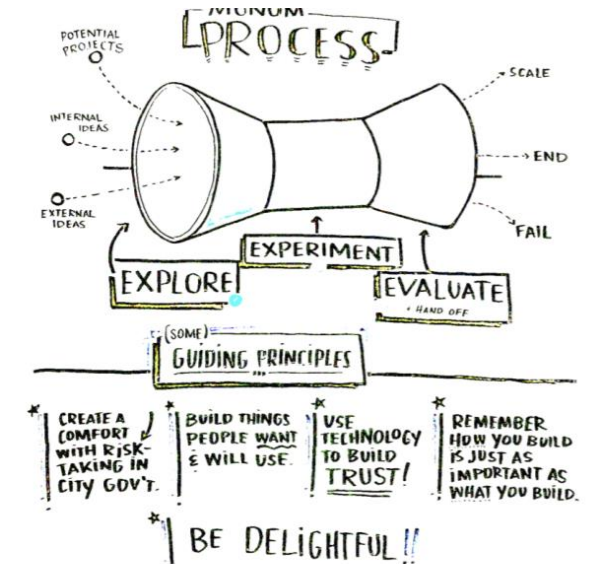




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- › **Quadruple helix ecosystem**



Source: New Urban Mechanics, City of Boston



Excellence Hubs: HORIZON-WIDERA-2022-ACCESS-04-01

What are place-based ecosystems?

Mutually reinforcing actors in a territorial context, **quadruple helix**:

- › Universities and non-university research centers
- › Business entities (or revenue generating startUps of at least 3 years)
- › Public authorities/appointed agencies
- › Societal actors (civil society, cultural actors, end users, media)

What is the scope of the project?

- › Define thematic scope of consortium by **common denominator** in related smart specialisation strategies and/or **European policy priorities** such as green and digital transition
- › Create innovation culture



Excellence Hubs: Consortium structure

- › Minimum requirement: Two placed based innovation ecosystems from two different countries, all components of quadruple helix
 - per ecosystem **at least one research institutions + one established commercial company** (existing at least 3 years, proven commercial revenues) must sign the Grant Agreement (GA)
 - **Umbrella organisations** may replace individual partners
 - For large ecosystems **not all members need to sign** the GA
- › Entities and ecosystems **from advanced countries are eligible** if justified and center of gravity of the project (budget share +- 70%) remains in widening countries



Excellence Hubs: Important components of the project

Coherent and balanced package of actions:

- › Cross-border joint R&I strategy aligned with strategic priorities

Based on challenges and opportunities by Smart Specialisation Strategies and/or European Policies

- › Action and investment plan for implementation of the strategy

Mobilisation of structural funds, national funds, venture capital

Societal actors (civil society, cultural actors, end users, media)

- › Conceptual design and pre-planning for pilots and demonstrators

Specification of R&I infrastructure, feasibility and proof of concept studies

- › Joint R&I project consolidating academia business linkages

Marketable solutions

- › Accompanying measures

Raise visibility, citizen engagement, technology transfer, entrepreneurship training, staff exchange, mutual learning



Περισσότερες πληροφορίες (1)

Horizon Europe Infoday: Widening & ERA

Programme

All sessions are available to watch

- 09:30
General introduction to ERA-Widening
[Watch this session](#)
- 10:45
Widening participation Session 1
[Watch this session](#)
- 10:45
Strengthening the European Research Area Session 1
[Watch this session](#)
- 14:00
Strengthening the European Research Area Session 2
[Watch this session](#)
- 14:00
Widening participation Session 2
[Watch this session](#)

Documents

- [Horizon Europe strategic plan](#)
- [Widening participation and strengthening the European Research Area work programme](#)

Source: https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/era-and-widening_en



Περισσότερες πληροφορίες (2)

- › Έγγραφο βάσης European Research Area: <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM%3A2020%3A628%3AFIN>
- › Data Management Plan & FAIR Principles: <https://www.biodiversa.org/1677/download>
- › Horizon Europe guidance on gender equality plans <https://op.europa.eu/en/publication-detail/-/publication/ffcb06c3-200a-11ec-bd8e-01aa75ed71a1/language-en/format-PDF/source-232129669>
- › Dashboard <https://webgate.ec.europa.eu/dashboard/sense/app/93297a69-09fd-4ef5-889f-b83c4e21d33e/sheet/a879124b-bfc3-493f-93a9-34f0e7fba124/state/analysis>
- › Ενημερωτική εκδήλωση «Widening Participation & Spreading Excellence στον Ορίζοντα Ευρώπη», Πέμπτη, **9 Δεκεμβρίου 2021**: <https://praxinetwork.gr/events/enimerotiki-ekdilosi-widening-participation-spreading-excellence-ston-orienta-evropi/>

Thank you
for your attention

Vassiliki Kalodimou

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Visit our new website

www.horizoneurope.gr



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