

ΗΜΕΡΙΔΑ ΕΚΤ-ΣΕΚΠΥ | 21.12.2022

ΟΛΟΚΛΗΡΩΜΕΝΕΣ ΥΠΗΡΕΣΙΕΣ ΓΙΑ ΤΟΝ ΑΜΥΝΤΙΚΟ ΤΟΜΕΑ

Horizon Europe: Funding opportunities for Research and Innovation in Digital, Industry and Space

Georgios Megas | Horizon Europe Coordinating NCP at EKT, NCP for Cluster 4
(Digital Industry , Space), EIT Health HUB Greece – Coordinator,
EEN Innovation consultant



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ &
ΗΛΕΚΤΡΟΝΙΚΟΥ ΠΕΡΙΕΧΟΜΕΝΟΥ



ΣΕΚΠΥ
Σύνδεσμος Ελλήνων
Κατασκευαστών
Αμυντικού Υλικού





ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ & ΗΛΕΚΤΡΟΝΙΚΟΥ ΠΕΡΙΕΧΟΜΕΝΟΥ

CONTENTS

- **An Example of our NCP services – success story**
- **Horizon Europe intro**
- **2 major changes: Blind Evaluation and Lump Sum**
- **Cluster 4 Vision and Policies**
- **Cluster 4 Digital Industry Space Topics 2023-2024**
- **Cassini Space Accelerator**
- **EIC Accelerator**
- **EIT Health HUB activities**

ΚΑΙΝΟΤΟΜΙΑ, ΜΕΤΑΦΟΡΑ ΚΑΙ ΑΞΙΟΠΟΙΗΣΗ ΓΝΩΣΗΣ



ΥΠΗΡΕΣΙΕΣ
ΔΙΚΤΥΩΣΗΣ

Υποστήριξη ανάπτυξης
διμερών συνεργασιών

Υποστήριξη συμμετοχής
σε κοινότητες και δίκτυα
εξειδικευμένης γνώσης



ΥΠΗΡΕΣΙΕΣ
ΣΥΜΒΟΥΛΕΥΤΙΚΗΣ
ΚΑΘΟΔΗΓΗΣΗΣ

**Υποστήριξη πρόσβασης
σε ευρωπαϊκά
προγράμματα έρευνας και
καινοτομίας**

Υπηρεσίες μεταφοράς
τεχνολογίας

Υπηρεσία αυτοδιαγνωστικών
εργαλείων



ΥΠΗΡΕΣΙΕΣ
ΠΛΗΡΟΦΟΡΗΣΗΣ
ΚΑΙ ΕΚΠΑΙΔΕΥΣΗΣ

Υπηρεσίες
εκπαίδευσης

Υπηρεσίες πληροφόρησης
και ενημέρωσης

A Greek company meets Airbus

SUCCESS STORIES

SPACE

AIRBUS



Pioneering sustainable aerospace for a safe and united world



Horizon Europe

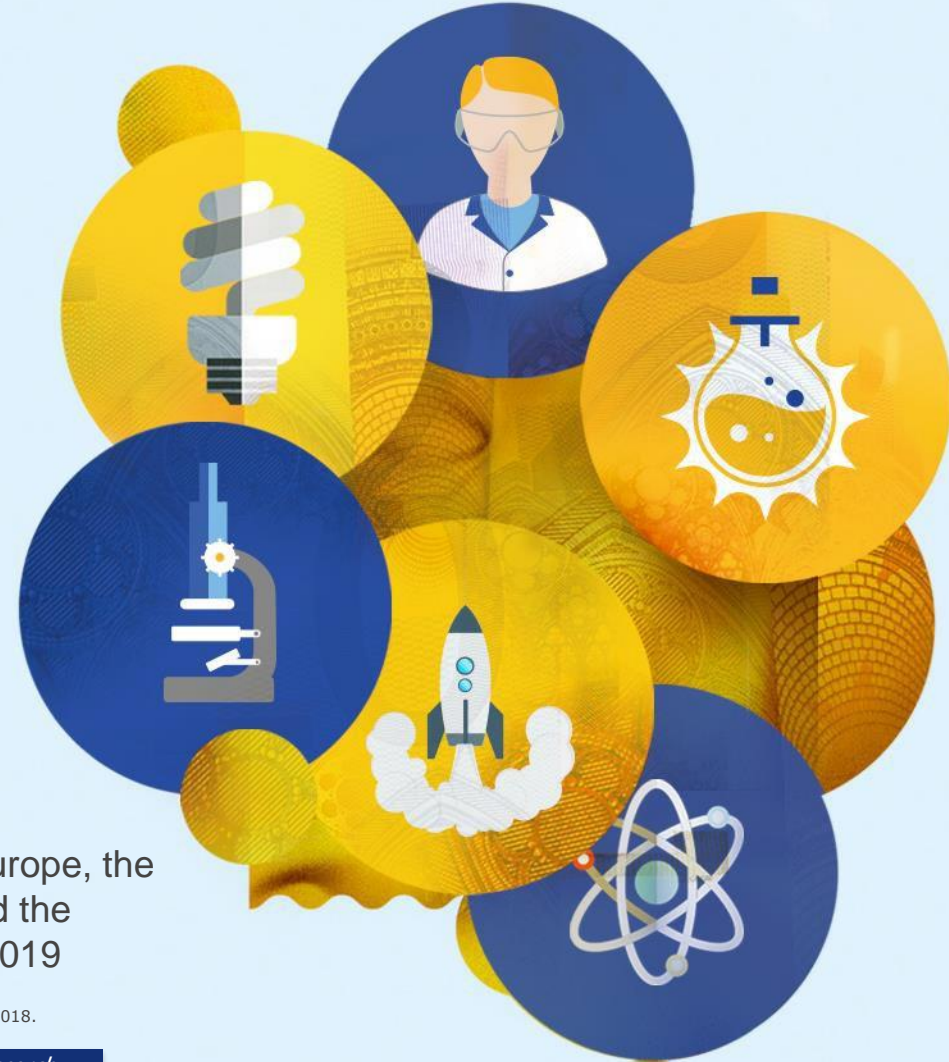
THE NEXT EU RESEARCH &
INNOVATION
INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the common understanding between co-legislators and the Partial General Approach, both approved in April 2019

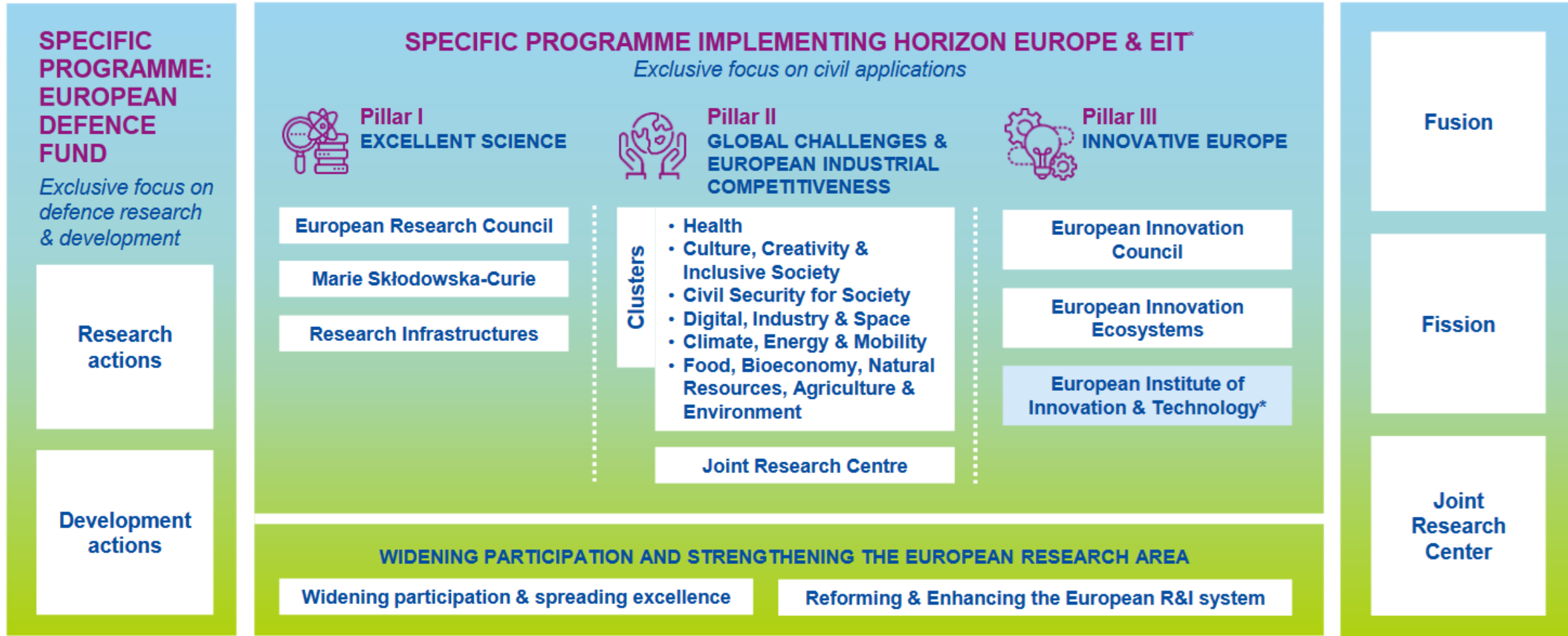
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Research
and
Innovation



HORIZON EUROPE

EURATOM



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



#HorizonEU 5 Missions

- EU Missions are a new way to bring concrete solutions to some of our greatest challenges.
- They have ambitious goals and will deliver concrete results by 2030.
- They also aim to mobilise and activate public and private actors, regional and local authorities, research institutes, entrepreneurs and investors
- Missions will engage with citizens to boost societal uptake of new solutions and approaches.



**Adaptation to
climate change,
including
societal
transformation**



Cancer



**Healthy
oceans, seas,
coastal and
inland waters**



**Climate-neutral
and smart cities**



**Soil health
and food**



New approach to European Partnerships

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- **Simple architecture and toolbox**
- **Coherent life-cycle approach**
- **Strategic orientation**

Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

Co-funded

Based on a joint programme agreed and implemented by partners; commitment of partners for financial and in-kind contributions

Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT- Regulation supported by Horizon Europe



Lump sum funding? Basic principles

20% of topics
till 2025

- Lump sum grants follow the standard approach as much as possible
same: templates, evaluation criteria, payment scheme, technical reporting
- One lump sum share per work package and beneficiary (extra Work Packages)
- Very simple financial reporting
- Lump sum shares paid upon completion of work packages
- Extra **Excel** file for the financial break down

	WP1	WP2	WP3	WP4	WP5	WP6	WP7	WP8	Total
Beneficiary A	250.000			50.000	300.000	250.000		300.000	1.150.000
Beneficiary B		250.000	350.000	50.000			100.000	150.000	900.000
Beneficiary C	100.000	100.000		50.000		280.000			530.000
Beneficiary D		120.000		50.000			100.000	150.000	420.000
Total	350.000	470.000	350.000	200.000	300.000	530.000	200.000	600.000	3.000.000

Shares of the lump sum per beneficiary

Share of the lump sum per WP

Lump sum = Maximum grant amount



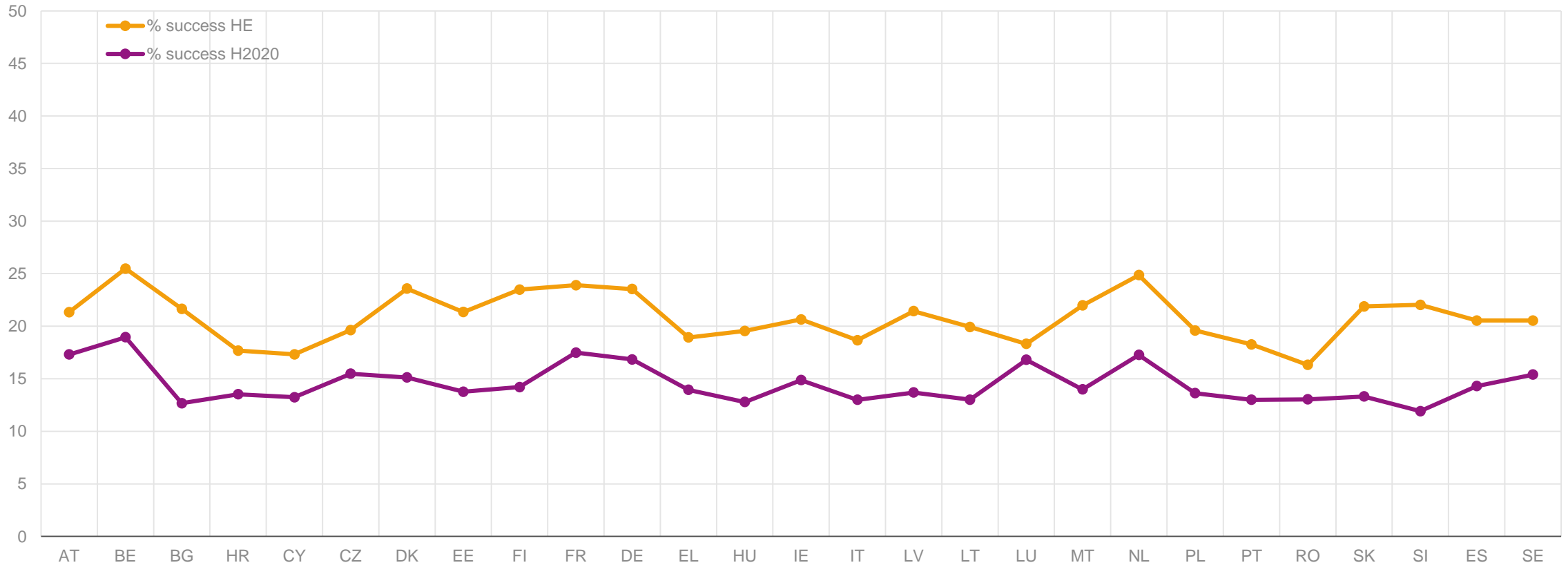
Pilot on Blind evaluation - Key facts

- It will be launched in the WP 2023-24
- **All two-stage calls** in 2023 and 2024 should take part in the pilot (except justified cases)
- It will only concern the **first stage application** of two-stage calls
- **NEW** **admissibility criterion**: Applicants submitting a proposal under the blind evaluation pilot must not disclose their **organisation names, acronyms, logos nor names of personnel** in Part B of their first-stage application.



No identification data can be mentioned by applicants in the proposal's **Part B**, otherwise **inadmissible proposal**

Percentages of "success" on H2020 & HE grants



*Ratio of the retained applications to the total number of eligible applications received (R&I CountryPedia)



Cluster 4 Digital, Industry and Space

WP: 2023 – 2024 intro



Horizon 2020 Greek Participation (σύμφωνα με το h2020 dashboard)		
Total/ All subprogrammes		
	Number	Percentage of the total
Selected Projects	2.893	8,08%
Participation of Greek Organisations in Projects	5.457	3,09%
	Ammount in euro	Percentage of H2020 total
Net EU contribution	€ 1.690.819.947	2,50%
Total project Budget	€ 1.840.000.000	2,80%
Average EU contribution per project	€ 584.500	
LEIT-ICT		
	Number	Percentage of the total
Selected Projects	477	1,33%
Average Greek company number that are participating in projects	2,02	
	Ammount in euro	Percentage of H2020 total
	€ 359.500.000	0,53
	€ 399.800.000	0,47%
	€ 750.000	

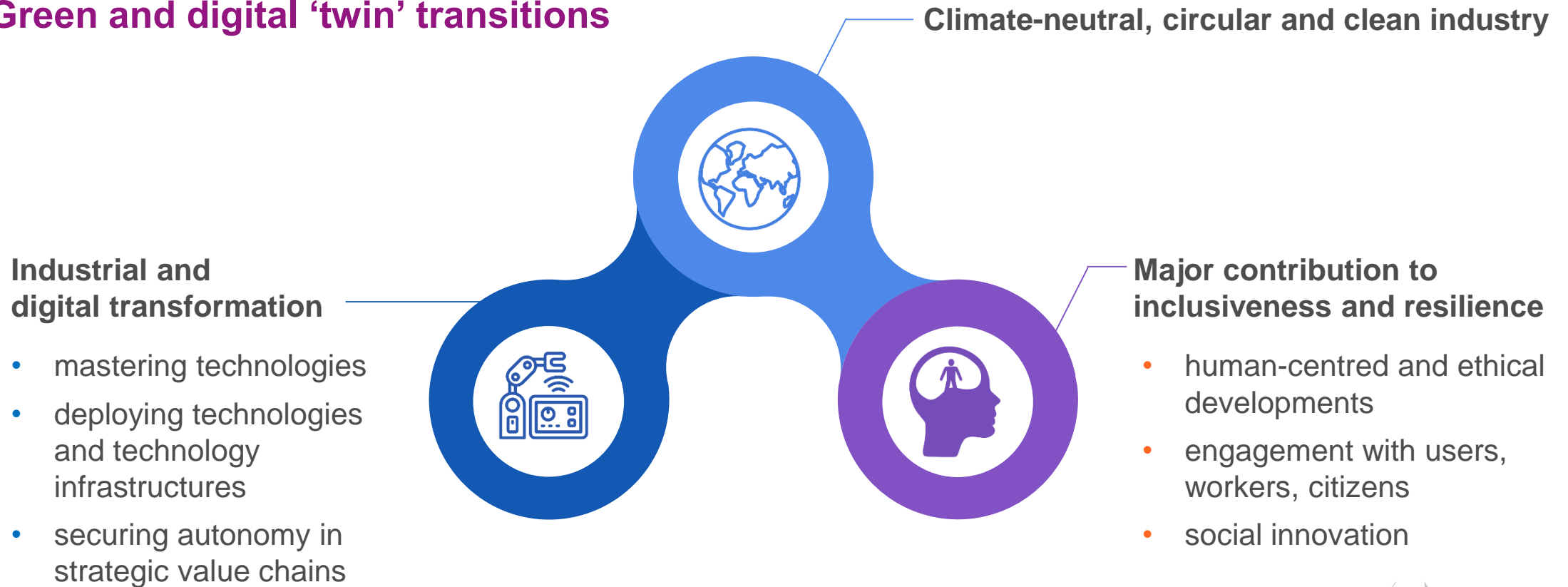
Useful links:

- The pre-published Work Programme: [Cluster 4: Digital, Industry and Space \(europa.eu\)](#)
- 2023 Info Days: [Events | The research and innovation community platform \(europa.eu\)](#)
- Info Day 1 on Destinations 1 & 2: <https://research-innovationcommunity.ec.europa.eu/events/3jM2kV6qwHjteovSf3VOrp/programme>
- Session on synergies in the context of the 2021 calls (still applicable): [Horizon Europe Info Days 2021 | Cluster 4 | Horizontal Issues – YouTube](#)
- [Public consultation on the past, present and future of the European Research & Innovation Framework programmes 2014-2027](#)
This consultation will inform the Strategic Plan 2025-27

Cluster 4 - Vision

Competitive technologies respecting the boundaries of our planet, and reflecting human needs

Green and digital 'twin' transitions



Cluster 4 - Digital, Industry and Space

“Destinations”

Key Strategic Orientation in the Strategic Plan 2021 - 2024	Destination	Strategies
<p>Making Europe the first digitally enabled, circular, climate-neutral and sustainable economy</p>	<p>1) Climate neutral, circular and digitised production TWIN-TRANSITION</p>	<p>Fit for 55 Digital Decade Industrial Strategy</p>
<p>Promoting an open strategic autonomy by leading the development of key digital, and enabling and emerging technologies, sectors and value chains</p>	<p>2) A digitised, resource efficient, and resilient industry RESILIENCE</p>	<p>Fit for 55 EU Chemical Strategy Industrial Strategy</p>
	<p>3) World-leading data and computing technologies DATA</p>	<p>Digital Decade Industrial Strategy</p>
	<p>4) Digital and emerging technologies for competitiveness and fit for the green deal DIGITAL-EMERGING</p>	
	<p>5) Open Strategic Autonomy in developing, deploying and using global space-based infrastructures, services, applications and data SPACE</p>	<p>EU Space Strategy</p>
<p>Creating a more resilient, inclusive and democratic European society</p>	<p>6) A human-centred and ethical development of digital and industrial technologies HUMAN</p>	<p>Digital Decade Industrial Strategy</p>

Digital, Industry and Space Cluster

6 Destinations:



DESTINATION 1 – Climate neutral, circular & digitised production TWIN-TRANSITION-2021-2022

DESTINATION 2 – A digitised, resource-efficient and resilient industry



DESTINATION 3 – World leading data and computing technologies

DESTINATION 4 – Digital and emerging technologies for competitiveness and fit for the green deal



DESTINATION 5 – Strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data



DESTINATION 6 – A human-centred and ethical development of digital and industrial technologies

Two Stage – Blind Evaluation

Intelligent data acquisition and analysis of materials and products in existing built works (RIA) HORIZON-CL4-2023-TWIN-TRANSITION-01-11 Cut-off date for 1st stage : 07 March 2023

Enhanced assessment, intervention and repair of civil engineering infrastructure (RIA) HORIZON-CL4-2024-TWIN-TRANSITION-01-12 Cut-off date for 1st stage : 24 September **2024**

Cut-off: 20 April 2023:

Factory-level and value chain approaches for remanufacturing (Made in Europe Partnership) (IA)
HORIZON-CL4-2023-TWIN-TRANSITION-01-04

Cut-off: 7 February 2024:

Digital transformation and ensuring a better use of industrial data, which can optimise steel supply chains (Clean Steel Partnership) (IA) HORIZON-CL4-2024-TWIN-TRANSITION-01-44

DESTINATION 2 – A digitised, resource-efficient and resilient industry

Cut-off: 20 April 2023:

[Advanced materials for magnets in applications for the New Energies Market \(RIA\)](#) HORIZON-CL4-2023-RESILIENCE-01-37

[Earth Observation platform, products and services for raw materials \(IA\)](#) HORIZON-CL4-2023-RESILIENCE-01-06

[Recycling technologies for critical raw materials from EoL products \(IA\)](#) HORIZON-CL4-2023-RESILIENCE-01-05

[Exploration of critical raw materials in deep land deposits \(RIA\)](#) HORIZON-CL4-2024-RESILIENCE-01-01

Cut-off date: 7 February 2024

Two Stage – Blind Evaluation

[Smart sensors for the Electronic Appliances market \(RIA\)](#) HORIZON-CL4-2023-RESILIENCE-01-33 Cut-off: 7 March 2023

[Biodegradable polymers for sustainable packaging materials \(IA\)](#) HORIZON-CL4-2024-RESILIENCE-01-35 1st Stage

cut-off 7 February 2024

DESTINATION 3 – World leading data and computing technologies

Cut-off: 29 March 2023:

[Integration of data life cycle, architectures and standards for complex data cycles and/or human factors, language \(AI, data and robotics partnership\) \(RIA\) HORIZON-CL4-2023-DATA-01-02](#)

[Cognitive Computing Continuum: Intelligence and automation for more efficient data processing \(AI, data and robotics partnership\) \(RIA\) HORIZON-CL4-2023-DATA-01-04](#)

Cut-off: 19 March 2024:

[Piloting emerging Smart IoT Platforms and decentralized intelligence \(IA\) HORIZON-CL4-2024-DATA-01-03](#)

DESTINATION 4 – Digital and emerging technologies for competitiveness and fit for the green deal

Cut-off: 29 March 2023:

[Pervasive photonics - multi-technology integration for digital infrastructure, sensors and internet of things \(Photonics partnership\)\(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-51](#)

[Novel paradigms and approaches, towards AI-driven autonomous robots \(AI, data and robotics partnership\) \(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-01](#)

[Versatile light sources and systems as tools for manufacturing and medical application \(Photonics Partnership\) \(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-53](#)

[Advanced imaging and sensing technologies \(IA\)\(Photonics Partnership\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-57](#)

[2D materials of tomorrow \(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-33](#)

[Quantum Photonic Integrated Circuit technologies \(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-40](#)

[Low TRL research in micro-electronics and integration technologies for industrial solutions \(RIA\)HORIZON-CL4-2023-DIGITAL-EMERGING-01-11](#)



DESTINATION 4 – Digital and emerging technologies for competitiveness and fit for the green deal

Cut-off: 19 March 2024:

Smart photonics for joint communication & sensing and access everywhere (Photonics Partnership) (RIA)
HORIZON-CL4-2024-DIGITAL-EMERGING-01-54

Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition (AI Data and Robotics Partnership) (HORIZON-CL4-2024-DIGITAL-EMERGING-01)

Pilot line(s) for 2D materials-based devices (RIA) HORIZON-CL4-2024-DIGITAL-EMERGING-01-31

DESTINATION 6 – A human-centred and ethical development of digital and industrial technologies

Cut-off: 29 March 2023:

[Drivers and success factors for progress towards Industry 5.0 \(RIA\)](#) HORIZON-CL4-2023-HUMAN-01-52

[Large Scale pilots on trustworthy AI data and robotics addressing key societal challenges \(AI Data and Robotics Partnership\) \(IA\)](#) HORIZON-CL4-2023-HUMAN-01-02

[Pilots for an innovative human-centric industry \(RIA\)](#) HORIZON-CL4-2023-HUMAN-01-51

Cut-off: 19 March 2024

[Collaborative intelligence – combining the best of machine and human \(AI Data and Robotics Partnership\) \(RIA\)](#) HORIZON-CL4-2024-HUMAN-01-07

DESTINATION 6 – A human-centred and ethical development of digital and industrial technologies

Cut-off: 29 March 2023:

[Natural Language Understanding and Interaction in Advanced Language Technologies \(AI Data and Robotics Partnership\) \(RIA\)](#) HORIZON-CL4-2023-HUMAN-01-03

[Through AI from Disinformation to Trust \(IA\)](#) HORIZON-CL4-2023-HUMAN-01-05

[eXtended Reality for Industry 5.0 \(IA\)](#) HORIZON-CL4-2023-HUMAN-01-22

[Next Generation eXtended Reality \(RIA\)](#) HORIZON-CL4-2023-HUMAN-01-21

Coordination and Support Actions Cut-off: 29 March 2023:

[International Hub for Digital Partnerships in the Indo-Pacific \(CSA\)](#) HORIZON-CL4-2023-HUMAN-01-91

[Digital Humanism - Putting people at the centre of the digital transformation \(CSA\)](#) HORIZON-CL4-2023-HUMAN-01-81

[Localised and Urban Manufacturing, supporting creativity and the New European Bauhaus \(RIA using FSTP\)](#) HORIZON-CL4-2023-HUMAN-01-53

[R&I cooperation with Sub-Saharan Africa \(CSA\)](#) HORIZON-CL4-2023-HUMAN-01-92

[R&I cooperation with Latin America \(Mexico, Brazil, Argentina, and other countries in the BELLA network or members of RedClara\) \(CSA\)](#) HORIZON-CL4-2023-HUMAN-01-93

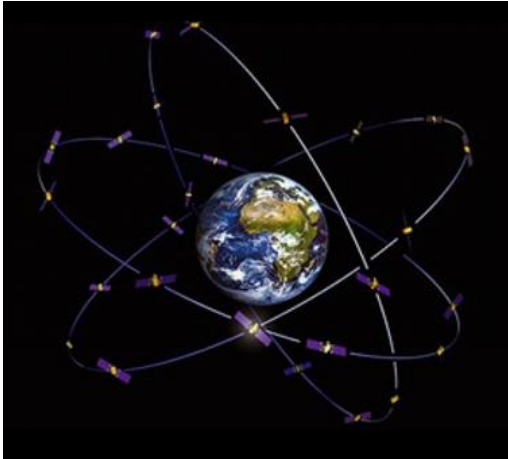
[Support facility for digital standardisation and international cooperation in digital partnerships \(CSA\)](#) HORIZON-CL4-2023-HUMAN-01-65

For further Info Regarding ICT in H2020 & H-E RnI programmes consult you ICT
NCP and the **Ideal-ist** ICT NCP network
– EKT is a core member of Idealist



Space

DESTINATION 5 – Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data



Cut-off: 28 March 2023

[Quantum Communication Technologies for space systems](#)HORIZON-CL4-2023-SPACE-01-62

[Future Space Ecosystem: Management and Coordination Activity](#)HORIZON-CL4-2023-SPACE-01-13

[Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground system tests](#)HORIZON-CL4-2023-SPACE-01-21

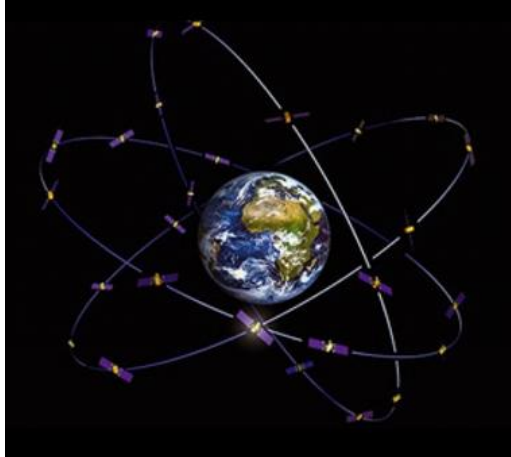
[New space transportation solutions and services](#)HORIZON-CL4-2023-SPACE-01-22

[Space technologies for European non-dependence and competitiveness](#)HORIZON-CL4-2023-SPACE-01-72



Space

DESTINATION 5 – Open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data



Cut-off: 28 March 2023

[End-to-end Earth observation systems and associated services](#) HORIZON-CL4-2023-SPACE-01-11

[Scientific exploitation of space data](#) HORIZON-CL4-2023-SPACE-01-71

[Copernicus for Marine Environment Monitoring](#) HORIZON-CL4-2023-SPACE-01-34

[Copernicus for Atmosphere and Climate Change, including CO2](#) HORIZON-CL4-2023-SPACE-01-31

Cut-off: 20 February 2024

[Copernicus for Land and Water](#) HORIZON-CL4-2024-SPACE-01-35

[Copernicus for Security](#) HORIZON-CL4-2024-SPACE-01-36



CASSINI Space Entrepreneurship Initiative

Tailored to the needs of Europe's New Space industry

€1 billion investment capacity to boost space companies.

The initiative is tailored to meet the needs of companies in different growth stages from seed to mid-caps





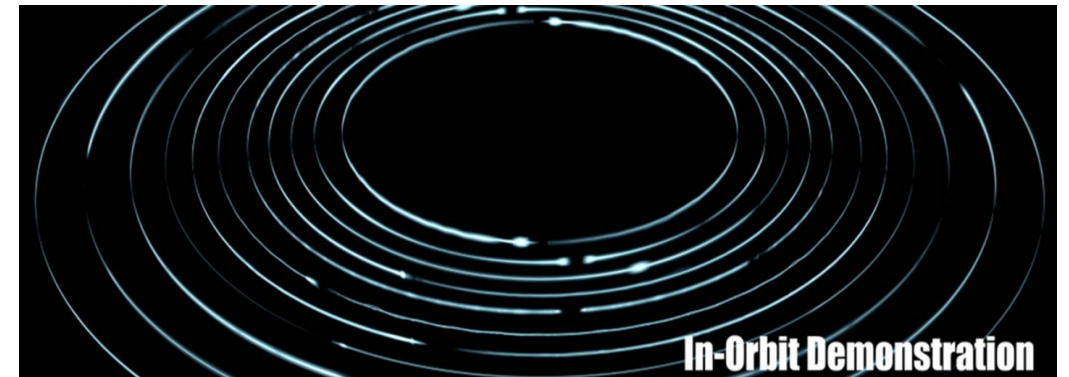
looking for determined hackers with a passion for developing sustainable solutions



The objective of the CASSINI Prizes is to develop close-to-market digital applications based on European space data,



Connecting Startups and Corporates in various thematics such as health and space..



In-Orbit Demonstration and Validation (IOD/IOV) is a Union initiative enabling new technologies to be tested in orbit

EIC Accelerator

Backing visionary entrepreneurs

EIC Accelerator

Cornelius Schmaltz

Head of Unit EIC
Accelerator

European
Innovation
Council



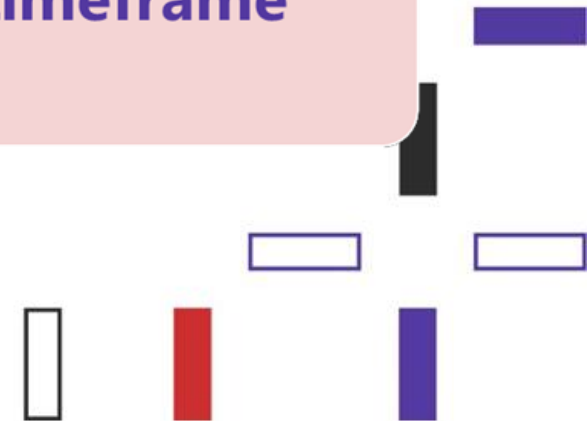


What are we looking for?

Start-ups and SMEs seeking to **scale up** high impact innovations with the **potential to create new markets** or disrupt existing ones

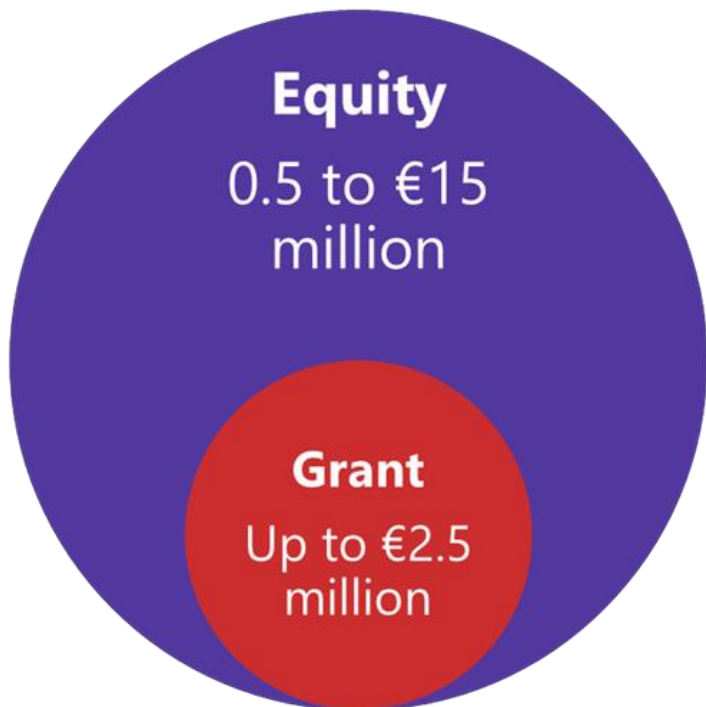
Innovations building on **scientific discovery** or technological breakthroughs ('**deep tech**')

Innovations where **significant funding** is needed over a **long timeframe** and are **too risky** for private investors alone

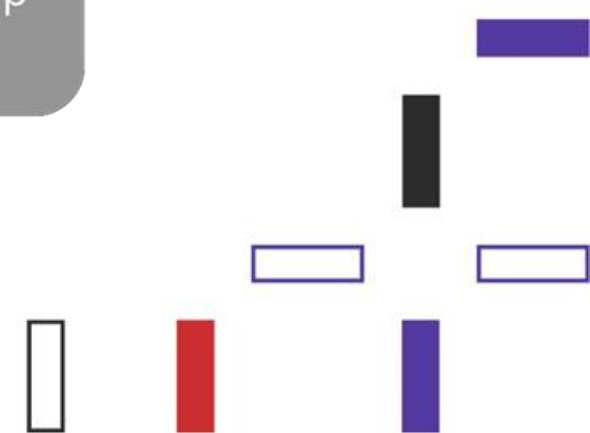
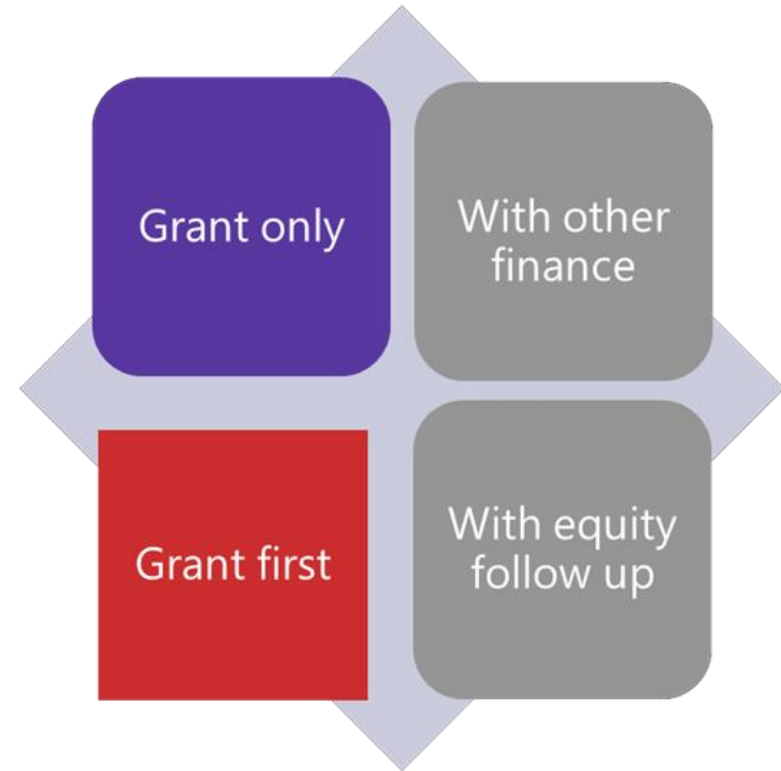


What can you apply for?

EIC Blended Finance



Also



PhosPrint

Advanced Technologies



PhosPrint

TECH KEYWORDS:

Additive Manufacturing, Organic 3d in-vivo Printing, Regenerative Medicine, Tissue Engineering

MEDICAL KEYWORDS:

Transplants, Urology, Cytoplasty

VALUE PROPOSITION:

An innovative dual beam laser bioprinting device and process

Commission's comments regarding the proposals that were evaluated for the 2021 in the Digital call, along with some gathered wisdom



Overall

- On tied proposals **gender balance** will be taken into account in the ranking, where the target is a balance of 50:50 (f/m) and the data source is the “**researchers table**” in Section A.
Additionally, the problem that “**innovators**” are often not included in the table by the applicants.
- Integration of **Third Country** partners (with/without funding) needs to be well justified showing a clear benefit for Europe (e.g. *the third country partner is owner of a specific, unique, and needed data set or tool*)
- Other...



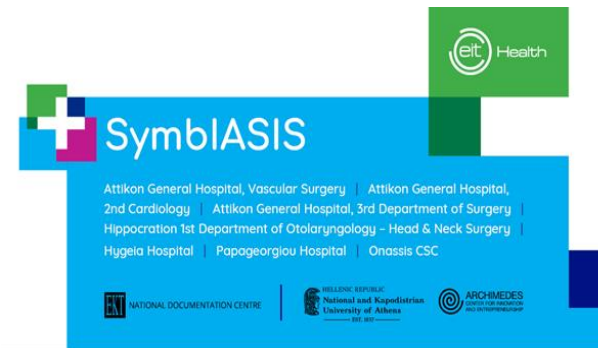
Startup Acceleration



Education Programmes



Pipeline/Ecosystem Development



Innovation Capacity Building

3 teams from Greece
selected and funded
by EIT Health on RIS
Innovation Call 2022

ApniWave:
An Efficient Sleep-Apnea
Screening Device



- Eight Bells Ltd
- University of West Attica
- Vascular Research SA

Frequency coded reflectometry
for the measurement of
Macular pigment density in
AMD patients




- Diestia Systems
- University of Crete
- PRAXI Network

Autonomous robotic
vehicle for disinfecting
workplaces




- Atlantis Engineering
- Aristotle University of Thessaloniki
- International Hellenic University


#SymbIASIS







SymbIASIS

Hygeia Hospital | Papageorgiou Hospital
Onassis CSC | Attikon General Hospital | Vascular Surgery
| Attikon General Hospital 2nd Cardiology | Attikon General
Hospital 3rd Department of Surgery | Hipocrateion 1st
Department of Otolaryngology – Head & Neck Surgery

 NATIONAL DOCUMENTATION CENTRE

 ARCHIMEDES
CENTER FOR INNOVATION
AND ENTREPRENEURSHIP



SymbIASIS

Connecting Hospitals and Startups for the improvement of Innovative healthtech solutions through Pilots

SymbIASIS Startups



InnovationEKT



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ & ΗΛΕΚΤΡΟΝΙΚΟΥ ΠΕΡΙΕΧΟΜΕΝΟΥ



Funded by the European Union



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Εθνικών και Καποδιστριακών
Πανεπιστήμιων Αθηνών
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Σας ευχαριστώ | www.ekt.gr | megas@ekt.gr