



ΕΘΝΙΚΟ ΚΕΝΤΡΟ ΤΕΚΜΗΡΙΩΣΗΣ &  
ΗΛΕΚΤΡΟΝΙΚΟΥ ΠΕΡΙΕΧΟΜΕΝΟΥ

## Horizon Europe:

Funding opportunities for Research and Innovation in  
Digital, Industry and Space

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# 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 2018



## HORIZON EUROPE

### SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

*Exclusive focus on civil applications*



#### Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



#### Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



#### Pillar III INNOVATIVE EUROPE

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology\*

### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

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

# Cluster 4 Digital, Industry and Space

## WP: 2023 – 2024 intro



PPT. slides provided by E.C. DG RTD, DG CNECT, DG DEFIS

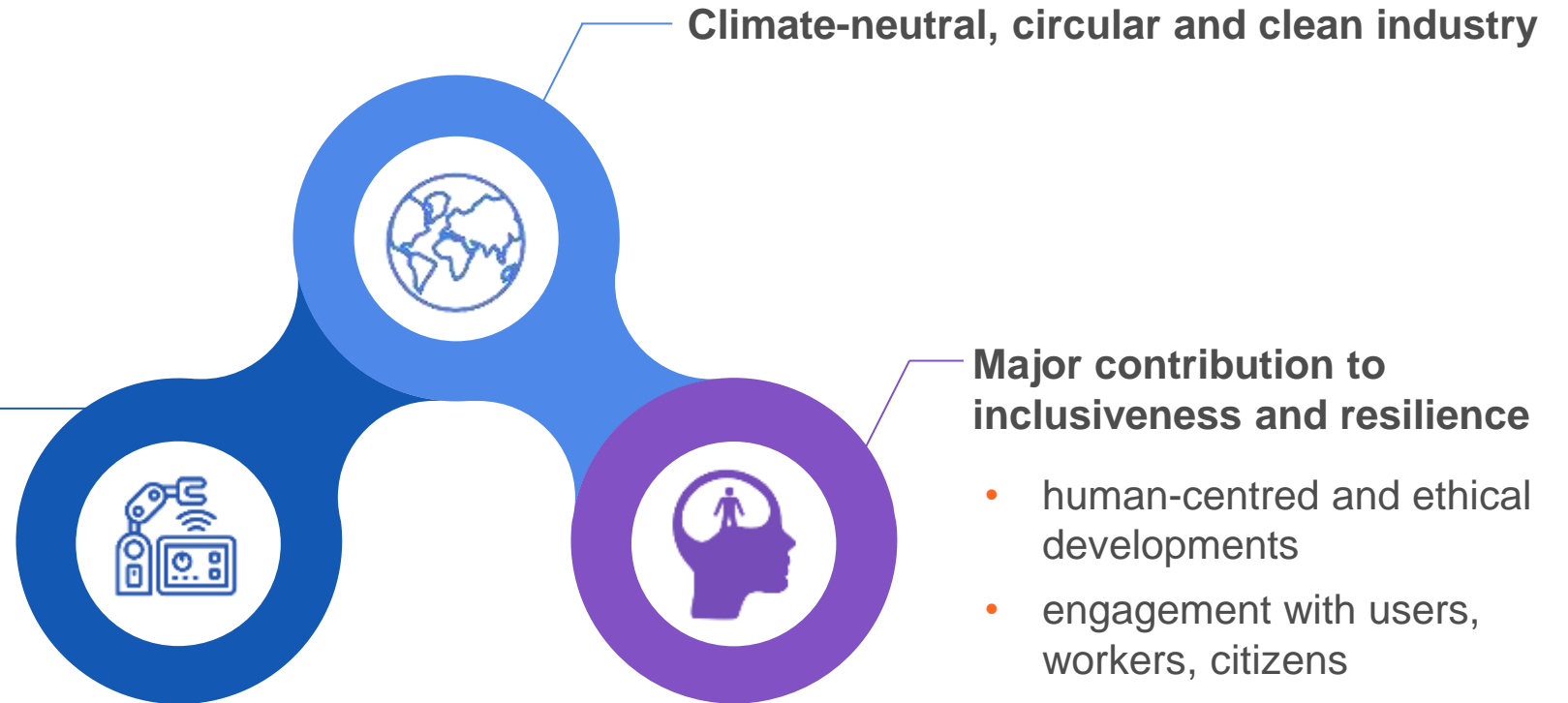
# Cluster 4 - Vision

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

## Green and digital 'twin' transitions

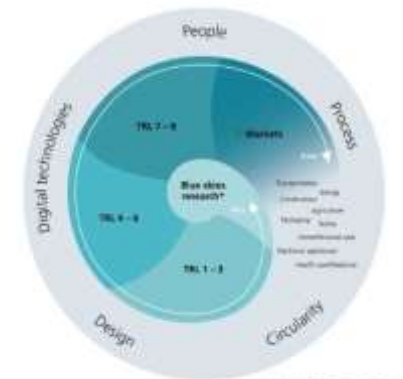
### Industrial and digital transformation

- mastering technologies
- deploying technologies and technology infrastructures
- securing autonomy in strategic value chains





# Cluster 4 'Digital, Industry and Space' Policies, Strategies, Action Plans



# Cluster 4 - Digital, Industry and Space

## “Destinations”

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

The Key Strategic Orientation “restoring Europe’s eco-systems and biodiversity” becomes increasingly important for cluster 4

# 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

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

Stimulating transnational research and development of next generation quantum technologies, including basic theories and components (Cascading grant with FS...

HORIZON-CL4-2024-DIGITAL-EMERGING-02-02 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Research and Innovation Actions**

Developing and deploying a network of quantum gravimeters in Europe

HORIZON-CL4-2024-DIGITAL-EMERGING-02-01 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Innovation Actions**



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

### Synergy with national and regional initiatives in Europe on Innovative Materials (CSA)

HORIZON-CL4-2024-HUMAN-02-36 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **10 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Coordination and Support Actions**

### Intellectual asset management support for public research organisations, academic institutions and their spin-offs (CSA)

HORIZON-CL4-2024-HUMAN-02-35 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **10 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Coordination and Support Actions**

### Support for transnational activities of National Contact Points in the thematic areas of Digital, Industry and Space (CSA)

HORIZON-CL4-2024-HUMAN-02-34 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **10 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Coordination and Support Actions**

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

### Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2024-HUMAN-03-01 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Research and Innovation Actions**

### Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)

HORIZON-CL4-2024-HUMAN-03-02 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Research and Innovation Actions**

### Digital Humanism - Putting people at the centre of the digital transformation (CSA)

HORIZON-CL4-2024-HUMAN-03-03 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Coordination and Support Actions**

### Facilitate the engagement in global ICT standardisation development (CSA)

HORIZON-CL4-2024-HUMAN-03-04 | Call for proposal

Opening date: **23 April 2024** | Next deadline: **18 September 2024** | Single-stage

 Open For Submission

Programme: **Horizon Europe (HORIZON)** | Type of action: **HORIZON Coordination and Support Actions**

# Calls for funding in cascade

## NGI0 Core (2024-06C)

NGI0 Core

Grant

Cascade funding

### Internal navigation

General information

Submission & evaluation process

Further information

Task description

### General Information

#### Opening date

01 April 2024

#### Deadline dates

01 June 2024 12:00 (Brussels time)

#### Expected duration of participation

1-12 months (flexible)

#### Deadline model

single-stage

 Open For Submission

#### Total funding available

8 800 000,00 €

#### Project acronym

NGI0 Core

#### Grant agreement number

101092990

#### Full name of the EU funded project

NGI Zero Core

#### Topic

HORIZON-CL4-2022-HUMAN-01-03 - Internet architecture and decentralised technologies (RIA)

# Calls for funding in cascade

## COROB OPEN CALL COROB

Grant

Cascade funding

### Internal navigation

General information

Submission & evaluation process

Further information

Task description

### General Information

#### Opening date

08 April 2024

#### Deadline dates

08 July 2024 17:00 (Brussels time)

#### Expected duration of participation

12 months for 1st Funding Instrument: Solutions to challenges Stage 1 'Individual Mentoring Plan' Stage 2 'Solution development' Stage 3 'Solution Validation' 9 months for 2nd Funding Instrument: Experiments for Enabling technologies for digital service Stage 1 'Individual Mentoring Plan' Stage 2 'Digital service development' Stage 3 'Digital service validation'

#### Deadline model

single-stage

 Open For Submission

#### Total funding available

2 000 000,00 €

#### Project acronym

COROB

#### Grant agreement number

101120640

#### Full name of the EU funded project

Cooperative robotics powered by AI and data for flexible production cells

#### Topic

HORIZON-CL4-2022-DIGITAL-EMERGING-02-05 - AI, Data and Robotics for Industry optimisation (including production and services) (AI, Data and Robotics Partnership) (IA)

# Useful links:

- The published Work Programmes: [https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/horizon-europe-work-programmes\\_en](https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/horizon-europe-work-programmes_en)
- Cluster 4 Work programme: [https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-7-digital-industry-and-space\\_horizon-2023-2024\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2023-2024/wp-7-digital-industry-and-space_horizon-2023-2024_en.pdf)
- Horizon Europe Reference documents: <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/reference-documents;programCode=HORIZON>
- 2023 Info Days: [Events | The research and innovation community platform \(europa.eu\)](#)
- Cluster 4 Infoday WP23-24 (YouTube) Destination 1 : <https://www.youtube.com/watch?v=U2ORxb2Dlpl>



Ideal-ist is the international Horizon Europe Cluster 4 digital National Contact Point (NCP) network, supporting research and innovation activities for the EU Framework Programmes. The network includes more than 65 partners from Member States, Associated Countries, Eastern European Partner Countries (EEPC), Mediterranean Partner Countries (MPC), and other countries throughout the world.

### Services:

Ideal-ist supports small and medium enterprises (SMEs), large enterprises, academia, research organisations, non-profit organisations, public administrations, and consultancies in

- Interpreting the Cluster 4 digital Work Programme of Horizon Europe
- Submitting project ideas in line with the topics of Horizon Europe
- Building consortia

### What do we offer?

- Long-standing experience in EU Framework Programmes (Ideal-ist was established in 1996)
- Expertise in proposal writing and project management
- An international quality team to support proposers, e.g. to better focus proposals
- Ideal-ist information services: Briefings, Social Media, Work programme information, Events
- Brokerage events with pre-scheduled meetings
- Full proposal check events with experienced evaluators
- Pre-Proposal Check: A new tool to check proposal outlines
- Toolbox. A tool to support proposers during the whole application process from project idea to project completion and future planning
- Topic Tree. A tool that helps you identify historical and future links to call topics and offers background information provided by Ideal-ist and the EC Funding and Tenders Portal

The NCP4Industry network of National Contact Points is the main structure to provide guidance, practical information and assistance on all aspects of participation in Horizon Europe Cluster 4 – Industry.

The network includes 18 NCP' hosting organisations established in European Member States and Horizon Europe Associated Countries, with the aim to set the basis of equal and consistent NCPs' services to the industry sector, by fostering the circulation of knowledge, good practices and available opportunities in Horizon Europe among industrial research and innovation communities (e.g. small and medium enterprises (SMEs), large enterprises, academia, research organisations, non-profit organisations, public administrations, and consultancies).

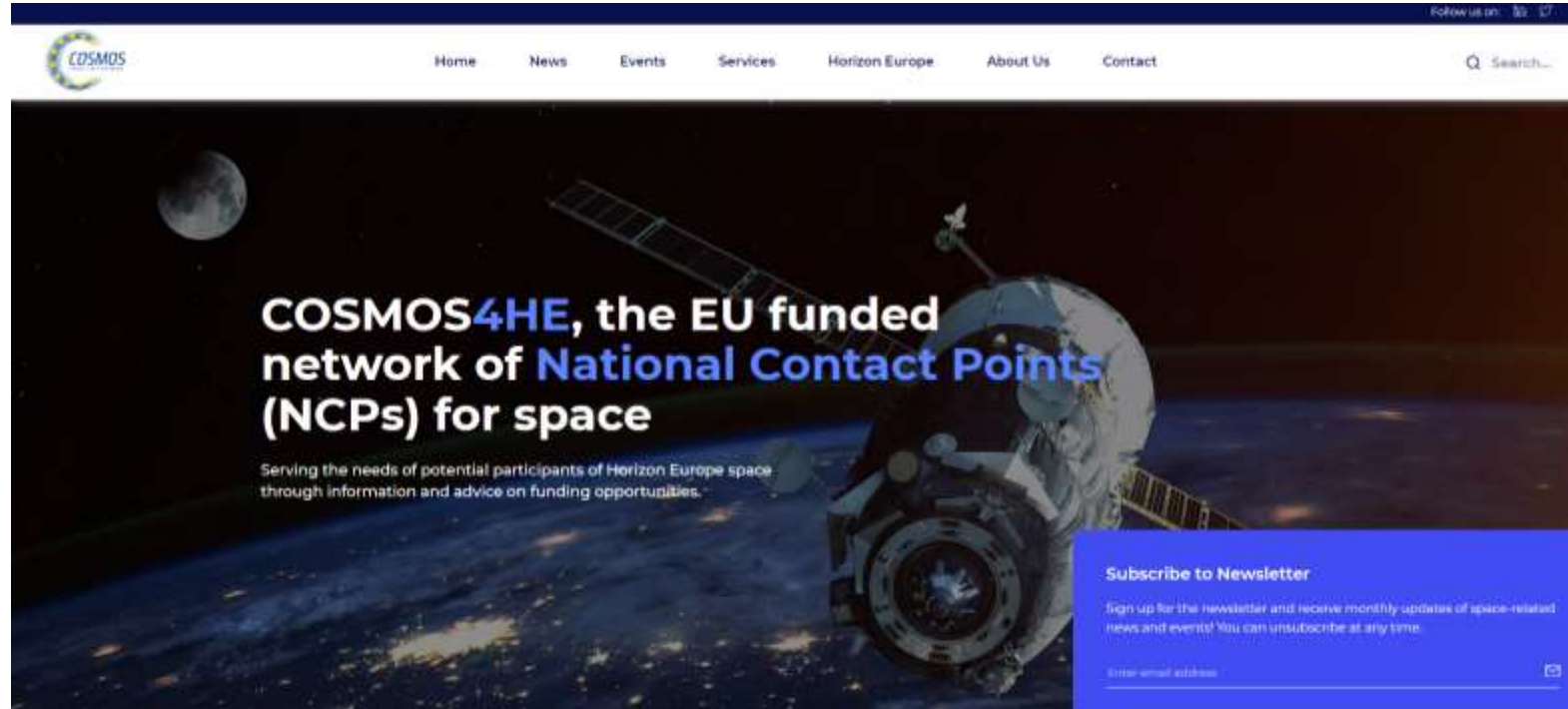
## Services

- Guidance on choosing relevant Horizon Europe topics and types of action
- Advices on administrative procedures and contractual issues
- Trainings, Mutual Learning Modules and assistance on proposal writing
- Pre-proposal Checks events
- Distribution of documentation, guidelines and background information, via user-friendly tools
- Access to up-to-date information via NCP4Industry Ambassadors and Antennas
- Assistance in partner search, with dedicated Brokerage Events
- Support European funded projects related communication, via an inclusive information hub



## The Horizon Europe Cluster 4 **Space** NCP Network

[ncp-space.net](http://ncp-space.net)



Coordinated by PRAXI Network, a unit of Foundation for Research and Technology - Hellas (FORTH)  
National Contact Point for Cluster 4 – thematic area of Space

Vaya Piteli, 2310 990406, [piteli@praxinetwork.gr](mailto:piteli@praxinetwork.gr)  
Yannis Kortidis, 2610 620815, [kortidis@praxinetwork.gr](mailto:kortidis@praxinetwork.gr)



## Enterprise Europe Network: The Biggest SME Internationalization and Innovation support network in the world



**3.000**  
Experts



**600+**  
Regions



**60+**  
Countries



[een.ec.europa.eu](http://een.ec.europa.eu)



## Internal long-term repair and corrosion prevention of pipe systems on board of vessels and yachts

### Short summary

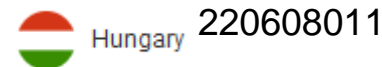
A Northern German SME transferred technologies proven on-shore for internal long-term **repair and corrosion prevention of pipe systems to the maritime sector**. Commercial agreements with technical assistance are offered e.g. to shipping companies and to service providers for ship restoration and repair.



## Wet lay-up - vacuum bag process optimization sought for lightweight aircraft structures

### Short summary

A Hungarian aircraft producer company is **looking for wet lay-up/vacuum bag process optimization for lightweight aircraft structures**, comparing different carbon fiber fabrics and core materials regarding weight and mechanical properties. This research and development request is part of an AMULET innovation challenge.



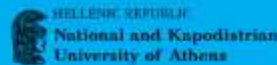


Specialization in the design and implementation of acceleration and collaboration programs for corporates and startups.



# SymbIASIS

Papageorgiou Hospital | Attikon - Vascular Surgery | Attikon - 2nd Cardiology | Attikon - 3rd Dpt. of Surgery | Hygeia Hospital | Hippocraton - 1st ENT Dpt. | Onassis CSC | 401 Military Hospital | Athens Medical Group | Attikon - 4th Dpt. of Internal Medicine | Attikon - Oncology Unit, 2nd Dpt. of Internal Medicine | Attikon - 4th Dpt. of Internal Medicine | Sotiria - Oncology Unit, 3rd Dpt. of Internal Medicine | General Hospital of Larisa | Gennimatas Hospital - Hematology Clinic | Gennimatas Hospital - ENT Clinic | Roche Diagnostics Hellas



## SymbIASIS Startups





InnovationEKT

Thank you!