

DRIVING GROWTH 

**Horizon Europe  
Cluster 4 - Digital, Industry & Space**

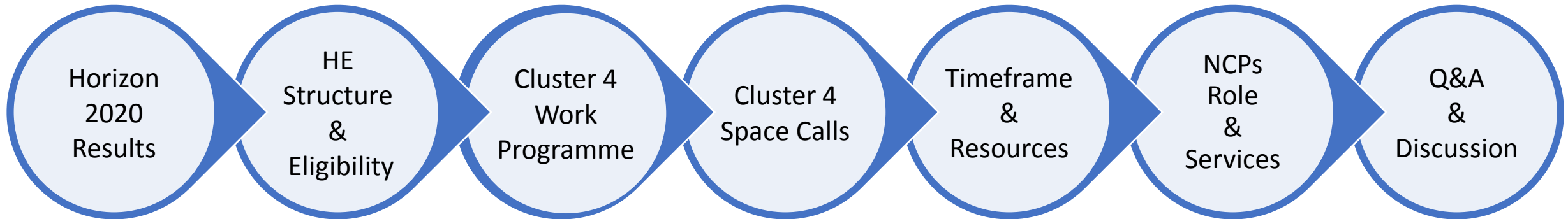
**Funding Opportunities  
in the Space Sector**

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Legal & Financial, Cluster 6, Cluster 4 and Cluster 5 NCP

Dr Angelos Ntantos  
MSCA and Cluster 4 NCP



## ► Content



## ► Horizon 2020 Results



Applications

**97**<sup>0,01%</sup>  
of total

Eligible Proposals

**78**<sup>0,03%</sup>  
of total

Thematic Priority: Space

## ► Horizon 2020 Results



H2020 Signed Grants

**13** 0,04%  
of H2020

H2020 Net EU Contribution

**1,78M** 0,00%  
of H2020

Thematic Priority: Space

# ► Horizon 2020 Results



Number of project participations and Net EU Contribution/EU Contribution						
Legal Name	Q	NUTS 3 Name	Q	H2020 EU Contribution (EUR)	H2020 Net EU Contribution	H2020 Participations
<b>Totaux</b>				<b>€ 1.783.966</b>	<b>€ 1.783.966</b>	<b>14</b>
O.M. OFFSHORE MONITORING LIMITED		Κύπρος (Kypros)		€ 497.088	€ 497.088	1
ACCELIGENCE LTD		Κύπρος (Kypros)		€ 191.260	€ 191.260	1
GEOIMAGING LIMITED		Κύπρος (Kypros)		€ 175.000	€ 175.000	1
MINISTRY OF TRANSPORT, COMMUNICATIONS AND WORKS		Κύπρος (Kypros)		€ 164.583	€ 164.583	1
SIGNALGENERIX LIMITED		Κύπρος (Kypros)		€ 157.938	€ 157.938	1
ORGANISMOS AGROTIKON PLIROMON		Κύπρος (Kypros)		€ 148.750	€ 148.750	1
THE CYPRUS INSTITUTE		Κύπρος (Kypros)		€ 100.000	€ 100.000	1
PHOEBE RESEARCH AND INNOVATION LTD		Κύπρος (Kypros)		€ 77.500	€ 77.500	1
FREDERICK UNIVERSITY FU		Κύπρος (Kypros)		€ 73.875	€ 73.875	1
TECHNOLOGIKO PANEPISTIMIO KYPROU		Κύπρος (Kypros)		€ 71.491	€ 71.491	1
UNIVERSITY OF CYPRUS		Κύπρος (Kypros)		€ 67.572	€ 67.572	1
IDRYMA EREVNAS KAI KAINOTOMIAS		Κύπρος (Kypros)		€ 29.478	€ 29.478	2
DEPUTY MINISTRY OF RESEARCH, INNOVATION AND DIGITAL POLICY		Κύπρος (Kypros)		€ 29.431	€ 29.431	1

Thematic Priority: Space

# Horizon Europe Structure

## SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

*Exclusive focus on civil applications*



**Pillar I  
EXCELLENT SCIENCE**

European Research Council

Marie Skłodowska-Curie

Research Infrastructures

€25 bn



**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

€53,5 bn



**Pillar III  
INNOVATIVE EUROPE**

European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology\*

€13,6 bn

€3,4 bn

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

**SPECIFIC PROGRAMME:  
EUROPEAN DEFENCE FUND**

*Exclusive focus on defence research & development*

Research actions

Development actions

## EURATOM

Fusion

Fission

Joint Research Center

€2,4 bn



## ▶ **Who can participate**

Any **legal entity, regardless of its place of establishment**, including legal entities from non associated third countries or international organisations (including international European research organisations) is eligible to participate **whether it is eligible for funding or not**.

A 'legal entity' means **any natural or legal person** created and recognised as such under national law, EU law or international law, which has legal personality and which may, acting in its own name, exercise rights and be subject to obligations, or an entity without legal personality.



## ▶ **How to participate**

### **Proposal submission**

Applications must be submitted before the call **deadline, electronically** via the Funding & Tenders Portal.

### **Registration of Organizations**

Any legal entity intends to participate in Horizon Europe needs to be **registered** and have a 9-digit Participant Identification Code (PIC).

### **Proposals**

Applications must be **complete, readable, accessible and printable** and include a plan for the exploitation and dissemination of results, unless provided otherwise in the specific call conditions.



## ► Who is eligible for funding?

Any legal entity from:

### EU Countries

- Member States (MS) including their outermost regions
- The Overseas Countries and Territories (OCTs) linked to the MS

### Non-EU Countries

- Countries associated to Horizon Europe (AC)
- Low and middle income countries: See [HE Programme Guide](#)
- Other countries when announced in the call or exceptionally if their participation is essential

### Specific cases

- Affiliated entities established in countries eligible for funding
- EU bodies
- International European research organisations

## ► Consortium composition

### Collaborative projects

- At least one independent legal entity established in a Member State and
- At least two other independent legal entities each established either in a different Member State or an Associated Country

Min. 3 legal entities

### Monobeneficiary projects

- For Coordination and Support Actions (CSA),
- Innovation and market deployment actions (IMDA)
- ERC and some MSCA

Always check the WP

## ► Basic Types of Actions

Research  
and  
innovation  
action (RIA)

Activities to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution.

.....

Innovation  
action (IA)

Activities to produce plans and arrangements or designs for new, altered or improved products, processes or services.

.....

Coordination  
and support  
actions (CSA)

Activities that contribute to the objectives of Horizon Europe. This excludes R&I activities, except for 'Widening participation and spreading excellence'.

# Horizon Europe Structure

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GLOBAL CHALLENGES &  
EUROPEAN INDUSTRIAL  
COMPETITIVENESS**

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Joint Research Centre

€53,5 bn



**Pillar III  
INNOVATIVE EUROPE**

European Innovation Council

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WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

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## ► Pillar II: Global Challenges & European Industrial Competitiveness

*in current prices*

Cluster 1	Health	<b>€8.246 billion</b> (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Society	<b>€2.280 billion</b>
Cluster 3	Civil Security for Society	<b>€1.596 billion</b>
Cluster 4	Digital, Industry & Space	<b>€15.349 billion</b> (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	<b>€15.123 billion</b> (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	<b>€8.952 billion</b>
	JRC (non-nuclear direct actions)	<b>€1.970 billion</b>

Clusters are including a budget for Partnerships and Missions

## ► Cluster 4: Digital, Industry and Space

### Cluster Aim

**To support key enabling technologies that are strategically important for Europe's industrial future**

### Main Objectives

- Global leadership in clean and climate-neutral industrial value chains, circular economy and climate-neutral digital systems and infrastructures
- Industrial leadership and increased autonomy in key strategic value chains
- Sovereignty in digital technologies and in future emerging enabling technologies
- Globally attractive, secure and dynamic data-agile economy
- Strategic autonomy in conceiving, developing, deploying and using global space-based infrastructures, services, applications and data
- A human-centred and ethical development of digital and industrial technologies

## Industry

### Destination 1

Climate neutral, circular and digitised production

- Green, flexible and advanced manufacturing
- Advanced digital technologies for manufacturing
- Construction
- Climate neutrality and circularity in industry
- Renewables and Electrification in process industry

### Destination 2

Increased autonomy in key strategic value chains for resilient industry

- Raw materials
- Advanced materials
- Circular value chains
- Preparedness of businesses/SMEs/startups

## Digital

### Destination 3

World leading data and computing technologies

- Data sharing in the common European data space
- Strengthening Europe's data analytics capacity
- From Cloud to Edge to IoT for European Data

### Destination 4

Digital and emerging technologies for competitiveness and fit for the green deal

- Ultra-low power processors
- Leadership in Electronics
- Leadership in Photonics
- 6G
- AI, Data and Robotics
- Tomorrow's deployable Robotics
- Emerging Enabling Technologies
- Quantum Technologies
- Graphene

## Space

### Destination 5

Open autonomy in developing, deploying and using global space-based infrastructures, services, application and data

- Competitiveness of space systems
- Access to space
- Galileo/EGNOS and Copernicus (infrastructures, services, applications)
- SSA, GOVSATCOM, Quantum
- Space entrepreneurship ecosystems

## Digital

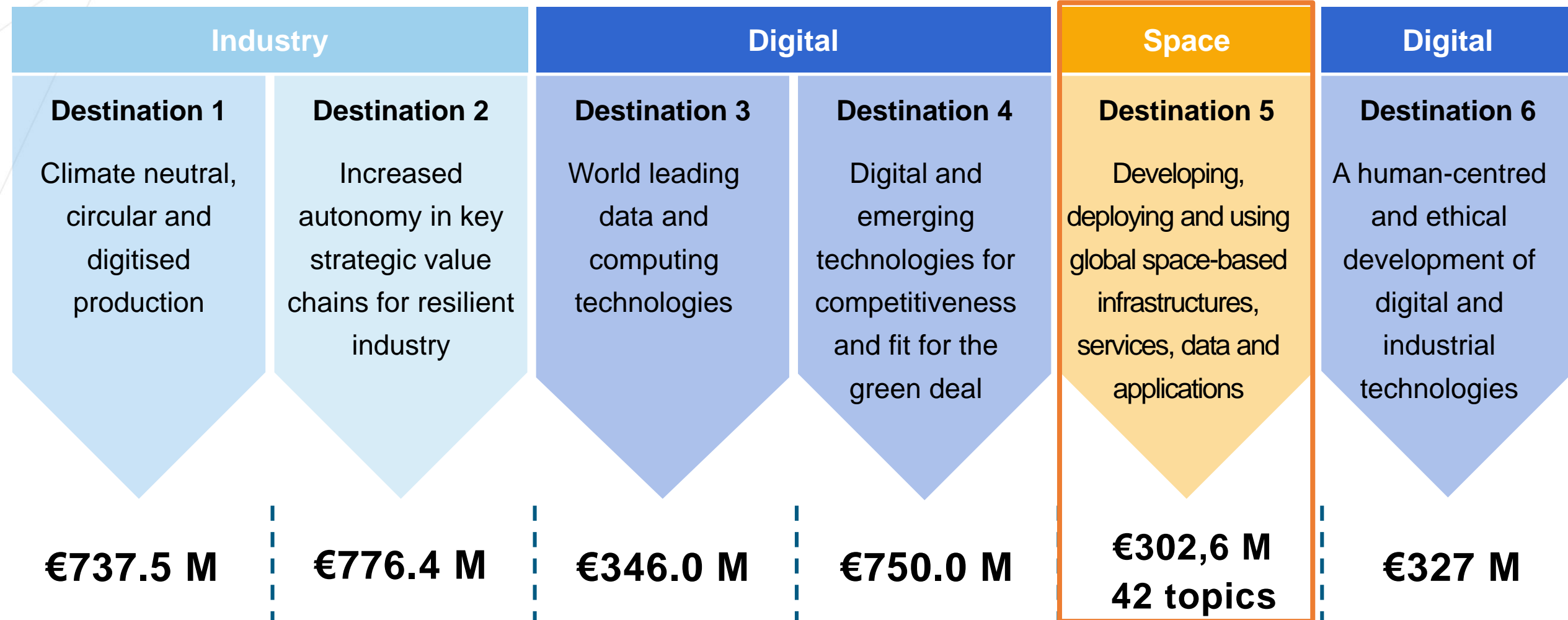
### Destination 6

A human-centred and ethical development of digital and industrial technologies

- AI based on trust
- An Internet of Trust
- eXtended Reality (XR)
- Approaches to make the most of the technologies within society and industry

## Budget 2021-2022: €3.5 billion

## Total Topics: 204





	Call	Opening Date	Closing Date
2021	HORIZON-CL4-2021-TWIN-TRANSITION-01	22 June 2021	23 September 2021
	HORIZON-CL4-2021-RESILIENCE-01	22 June 2021	23 September 2021
	HORIZON-CL4-2021-DATA-01	22 June 2021	21 October 2021
	HORIZON-CL4-2021-DIGITAL-EMERGING-01	22 June 2021	21 October 2021
	HORIZON-CL4-2021-DIGITAL-EMERGING-02	28 October 2021	27 January 2022
	HORIZON-CL4-2021-SPACE-01	28 October 2021	16 February 2022
2022	HORIZON-CL4-2021-HUMAN-01	22 June 2021	21 October 2021
	HORIZON-CL4-2022-TWIN-TRANSITION-01	12 October 2021	30 March 2022
	HORIZON-CL4-2022-RESILIENCE-01	12 October 2021	30 March 2022
	HORIZON-CL4-2022-RESILIENCE-02	12 October 2021	30 March 2022
	HORIZON-CL4-2022-DATA-01	23 November 2021	5 April 2022
	HORIZON-CL4-2022-DIGITAL-EMERGING-01	23 November 2021	5 April 2022
	HORIZON-CL4-2022-DIGITAL-EMERGING-02	16 June 2022	16 November 2022
HORIZON-CL4-2022-SPACE-01	28 October 2021	16 February 2022	
	HORIZON-CL4-2022-HUMAN-01	23 November 2021	5 April 2022

## ► Calls for Proposals 2021-2022 - Space

### STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA

HORIZON-CL4-2021-SPACE-01	02 November 2021	16 February 2022	11 topics €136.22
HORIZON-CL4-2022-SPACE-01	02 November 2021	16 February 2022	11 topics €85.70

### STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA - APPLICATIONS

HORIZON-EUSPA-2021-SPACE-02	28 October 2021	16 February 2022	3 topics €32.60
HORIZON-EUSPA-2022-SPACE-02	27 October 2022	16 February 2023	6 topics €48.10

## ► Calls for Proposals 2022

**STRATEGIC AUTONOMY IN DEVELOPING, DEPLOYING AND USING GLOBAL SPACE-BASED INFRASTRUCTURES, SERVICES, APPLICATIONS AND DATA - APPLICATIONS**  
(Launched by EUSPA under indirect management)

6 topics  
€48.10

HORIZON-EUSPA-2022-SPACE-02

27 October 2022

16 February 2023

### Innovation Actions

EGNSS applications for Smart mobility

Copernicus downstream applications and the European Data Economy

### Pre-commercial Procurement

Public sector as Galileo and/or Copernicus user

### Research and Innovation Actions

Large-scale Copernicus data uptake with AI and HPC

Designing space-based downstream applications with international partners

GOVSATCOM Service developments and demonstrations

Tender

## Call for Expression of Interest In Orbit Demonstration/Validation (IOD/IOV) Experiments

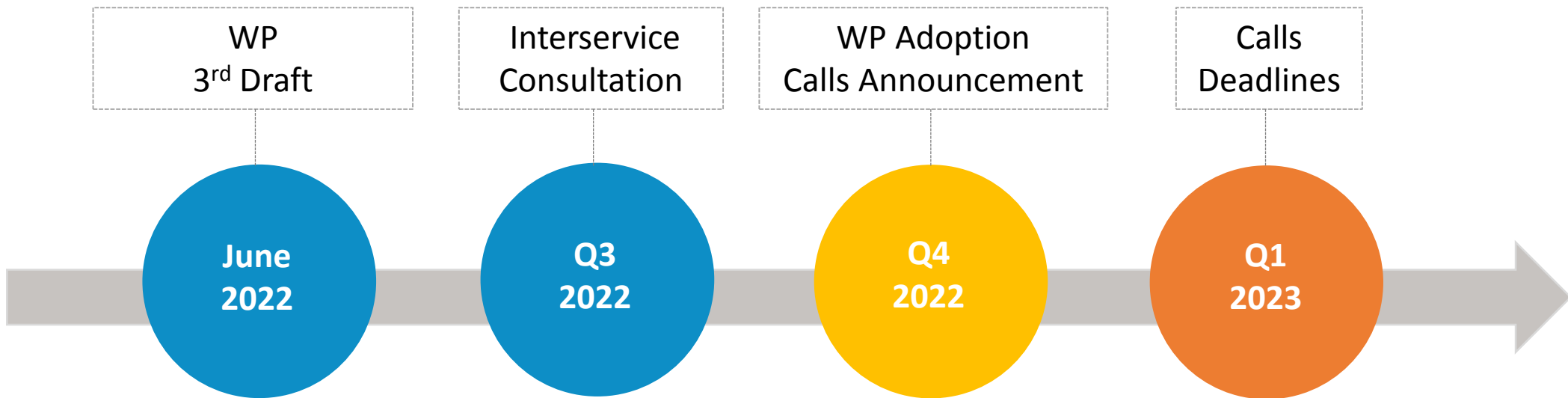
Opening date: **28 March 2022**

Deadline date: **31 May 2022**

[https://ec.europa.eu/defence-industry-space/calls-tenders/call-expression-interest-orbit-demonstrationvalidation-iodiov-experiments\\_en#documents](https://ec.europa.eu/defence-industry-space/calls-tenders/call-expression-interest-orbit-demonstrationvalidation-iodiov-experiments_en#documents)

- Gather **feasible experiments** which could be considered for IOD/IOV actions that cover **aggregation, if needed, launch services and operations**.
- IOD/IOV experiments are defined as **innovative technologies, products, concepts, architectures, and operations techniques** that require in orbit demonstration/validation. Experiments may be **instrument, equipment, technologies, system experiment, missions, industrial payloads, etc**. Experiments may be accommodated on IOD/IOV Spacecraft(s) or be provided as complete system(s).
- **Applications** shall be **sent** to [DEFIS-IOD-IOV@ec.europa.eu](mailto:DEFIS-IOD-IOV@ec.europa.eu) with "Call for Expression of Interest-IOD/IOV experiments" in the subject line, together with the completed application package.

## ► Timeline



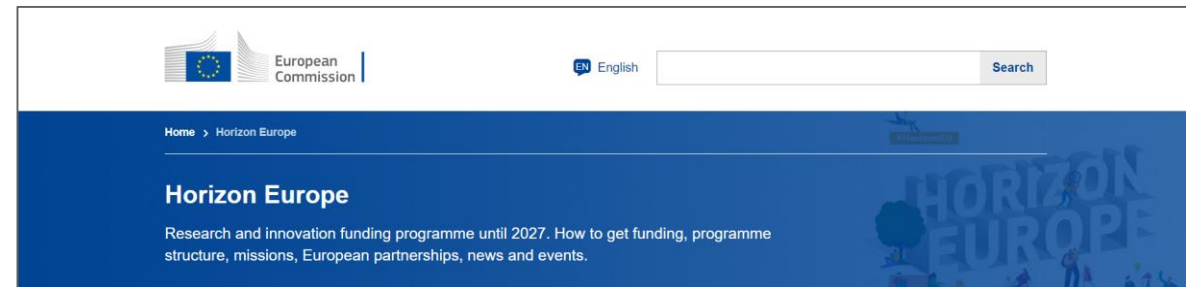
- ➔ Similar structure as WP 2021-2022
- ➔ Space topics under Destination 5

# ► Useful resources

## [F&T Portal](#) and [Online Manual](#)



## [EC Website](#), [Expert Groups](#) and [CIRCABC](#)



## [RIF Website](#)



## [RIF's HE Portal](#)



## [RIF's HE Newsletter](#)





## Cluster 4 - National Contact Points



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**Mr George Christou**  
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Cluster 5 and Cluster 6  
Legal and Financial  
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**CY - NCP Services**



Dedicated Website  
Info-days  
Webinars  
Training Seminars  
Direct Communication Mailing  
Lists  
Social Media

Awareness Raising  
Disseminating Information



Pre-Proposal &  
Full Proposal Checks  
Partner Search  
Resolving Queries  
Mock Interviews Participation in  
Mentoring Schemes (ERC)

Assisting and Advising  
on Proposal Preparation



Legal & Financial Issues  
Consortium Agreement Enquiries  
Grant Agreements  
IPR Issues  
Project Management Support

Customised Support

Contact us:



22205000



[support@research.org.cy](mailto:support@research.org.cy)



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DRIVING GROWTH ▲



RESEARCH  
& INNOVATION  
FOUNDATION



# Thank you!

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