

DRIVING GROWTH 

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

**Funding Opportunities
in the Space Sector**

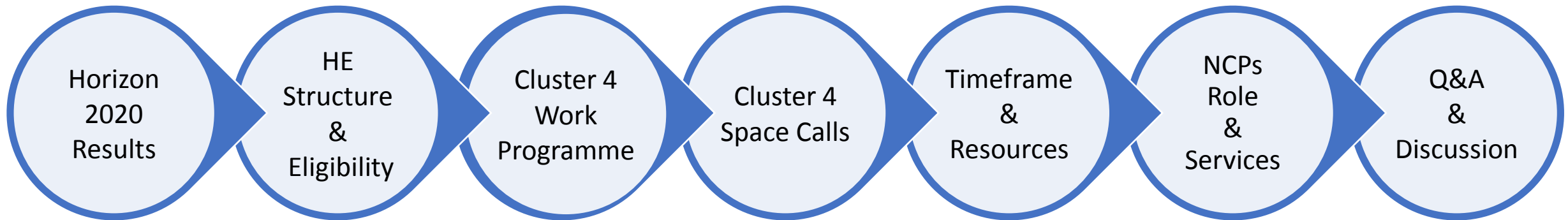
George Christou
Legal & Financial, Cluster 6, Cluster 4 and Cluster 5 NCP

Dr Angelos Ntantos
MSCA and Cluster 4 NCP



7 December 2021

► Content



► Horizon 2020 Results



Applications

97^{0,01%}
of total

Eligible Proposals

78^{0,03%}
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
Totaux				€ 1.783.966	€ 1.783.966	14
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

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

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



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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

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€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**

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EURATOM

Fusion

Fission

Joint Research Center

€2,4 bn

► Pillar II: Global Challenges & European Industrial Competitiveness

in current prices

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

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

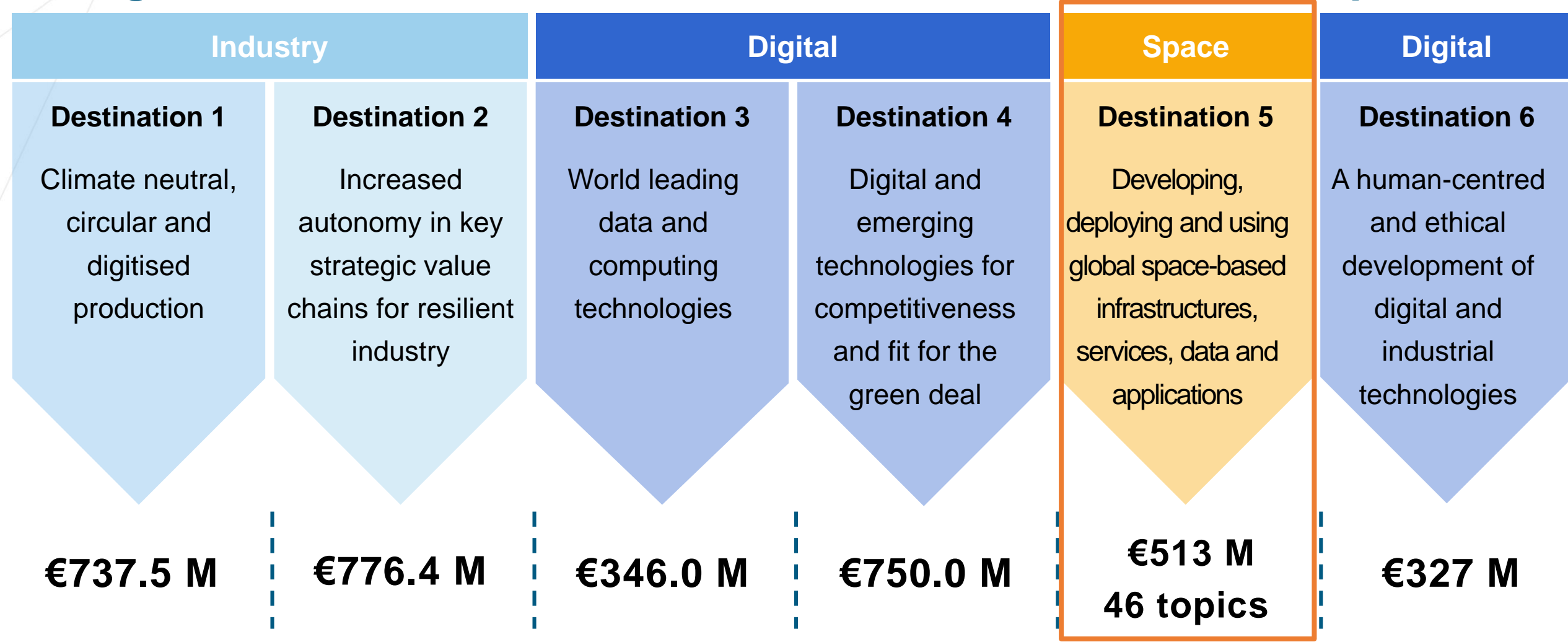
Destination 6

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
HORIZON-CL4-2022-SPACE-01	02 November 2021	16 February 2022

11 topics
€136.22

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
HORIZON-EUSPA-2022-SPACE-02	27 October 2022	16 February 2023

3 topics
€32.60

6 topics
€48.1

► Calls for Proposals 2021 (1)

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

Research and Innovation Actions

Low cost high thrust propulsion for European strategic space launchers – technologies maturation including ground tests

Copernicus Security and Emergency Services evolution

Future space ecosystems: on-orbit operations, new system concepts

Copernicus Climate Change Service evolution

Copernicus evolution for cross-services thematic domains

New space transportation solutions and services

Quantum technologies for space gravimetry

11 topics
€136.22

► Calls for Proposals 2021 (2)

End-to-end satellite communication systems and associated services

Reusability for European strategic space launchers - technologies and operation maturation including flight test demonstration

Copernicus Atmosphere Monitoring Service evolution

Space technologies for European non-dependence and competitiveness

11 topics
€136.22

► Calls for Proposals 2022 (1)

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

HORIZON-CL4-2022-SPACE-01

02 November 2021

16 February 2022

Research and Innovation Actions

Copernicus Land Monitoring Service evolution

Future space ecosystems: on-orbit operations, preparation of orbital demonstration mission

Copernicus Marine Environment Monitoring Service evolution

Copernicus Anthropogenic CO₂ Emissions Monitoring & Verification Support (MVS) capacity

Space technologies for European non-dependence and competitiveness

Multi sites flexible industrial platform and standardised technology for improving interoperability of European access to space ground facilities

Space science and exploration technologies

11 topics
€85.70

► Calls for Proposals 2022 (2)

Innovation Actions

Technologies and generic building blocks for Electrical Propulsion

End-to-end Earth observation systems and associated services

Support and Coordination Action

Education and skills for the EU space sector

11 topics
€85.70

► **Calls for Proposals 2021-2022**

Other Actions - Public Procurement

EGNSS Evolution: Mission and Service related R&D activities

Support European “New Space” entrepreneurship through CASSINI Space Entrepreneurship Initiative 2021-2027

Other Actions - Indirectly managed actions delegated to ESA

EGNSS Evolution : Technology and infrastructure-related R&D activities

HORIZON-CL4-SSA-SWENEO - Space Weather and Near Earth Objects

GOVSATCOM Technology Development and implementation of system innovative features

CASSINI In Orbit Demonstration/Validation (IOD/IOV) service

Other Actions - Indirectly managed actions delegated to EUSPA

Prizes, Hackathons & Mentoring, Innovative Activities, Applications, Tender Evaluation/Monitoring/Audit

Space Calls - Applications

► **Calls for Proposals 2021**

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

Launched by EUSPA under indirect management

HORIZON-EUSPA-2021-SPACE-02

28 October 2021

16 February 2022

Innovation Actions

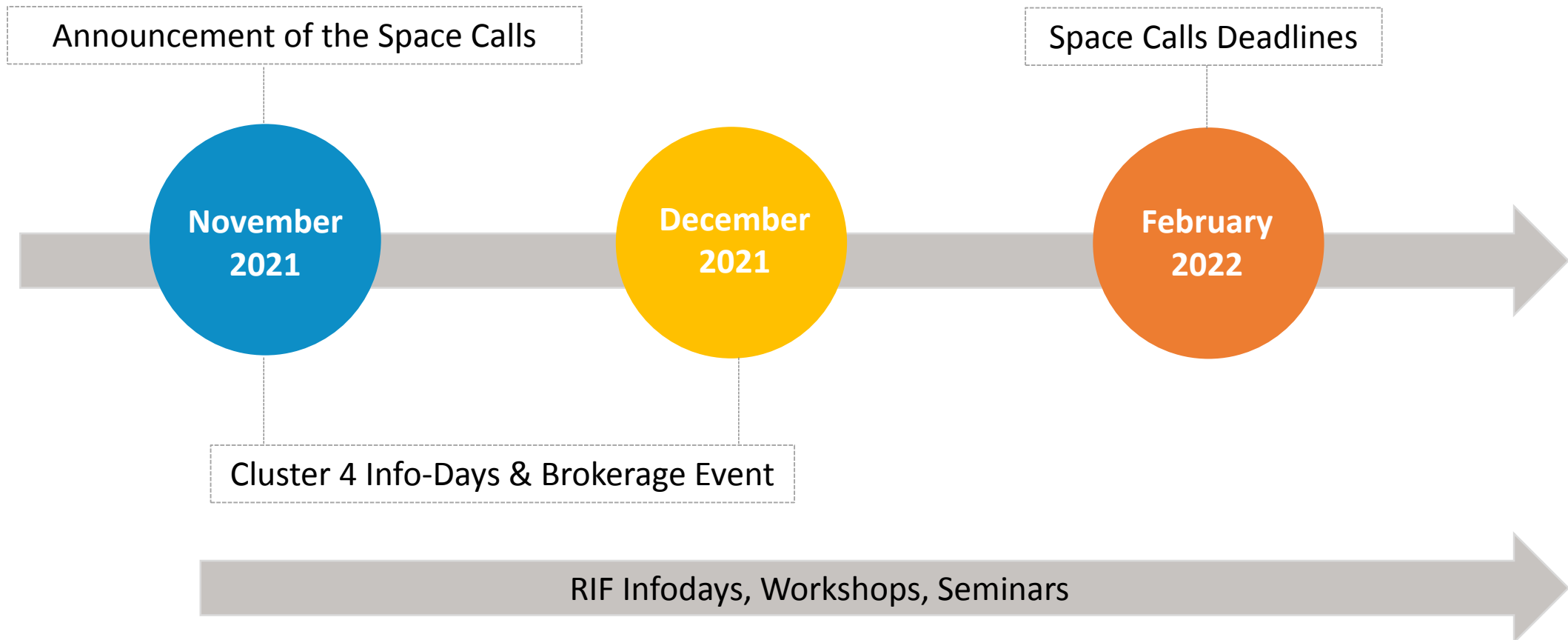
EGNSS and Copernicus applications fostering the European Green deal

EGNSS applications for Safety and Crisis management

EGNSS applications for the Digital Age

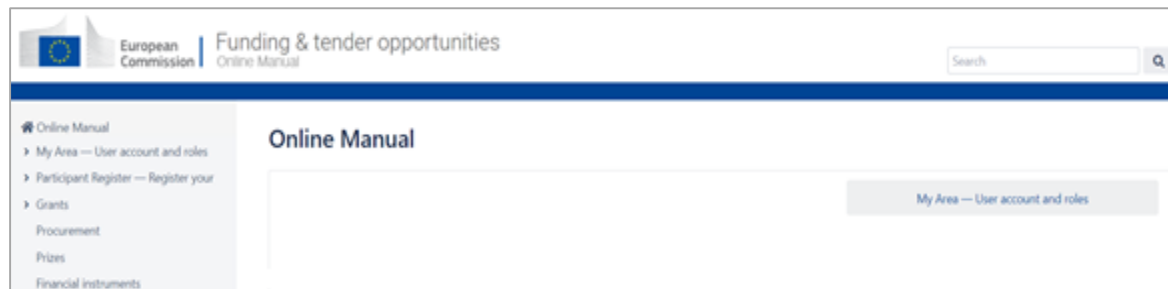
3 topics
€32.60

► Timeline

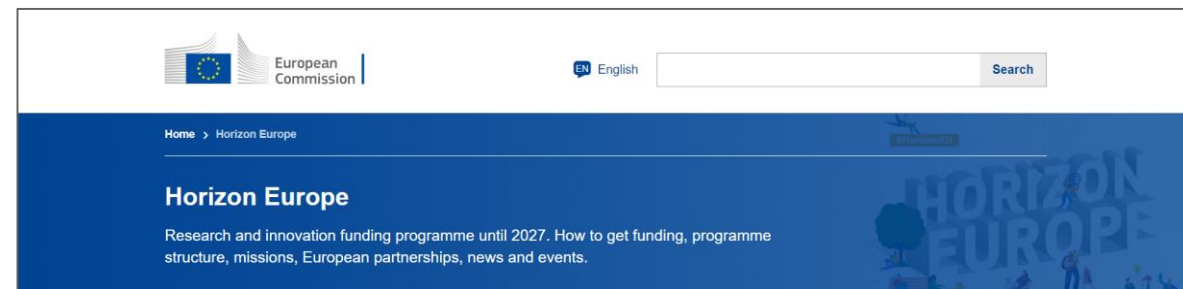


► Useful resources

[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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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:



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DRIVING GROWTH ▲



RESEARCH
& INNOVATION
FOUNDATION



Thank you!

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