

#innovacion
#ayudascdti
#asesoramiento
#internacionalizacion



Oportunidades en espacio, convocatorias abiertas (HORIZON-EUSPA-2022-SPACE y HORIZON-CL4-2024-SPACE). Programa de trabajo 23-24

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Nacional (NCP)
CDTI



15/02/2023

IMPORTANTE

Esta presentación tiene carácter informativo y en ningún caso sustituye o reemplaza la documentación oficial publicada por la Comisión Europea

Ante cualquier discrepancia atender a la última versión presentada por la COMISIÓN

Introducción: Programas espaciales en Europa

PROGRAMAS esa



IMAGEN: ESA

ACTIVIDADES UE



PROGRAMA ESPACIAL UE



SSA GOVSATCOM

ACTIVIDADES I+D+i ESPACIO HORIZONTE EUROPA

El sector espacial en Horizonte Europa



Pillar 1 Excellent Science

European Research Council

Marie Skłodowska-Curie Actions

Research infrastructures



Pillar 2 Global Challenges and Industrial Competitiveness

Clusters

1. Health
2. Culture, Creativity and Inclusive society
3. Civil Security for Society
4. Digital, Industry and Space
5. Climate, Energy and Mobility
6. Food, Bioeconomy, Natural resources, Agriculture and Environment

Joint Research Centre



Pillar 3 Open Innovation

European Innovation Council

European innovation ecosystems

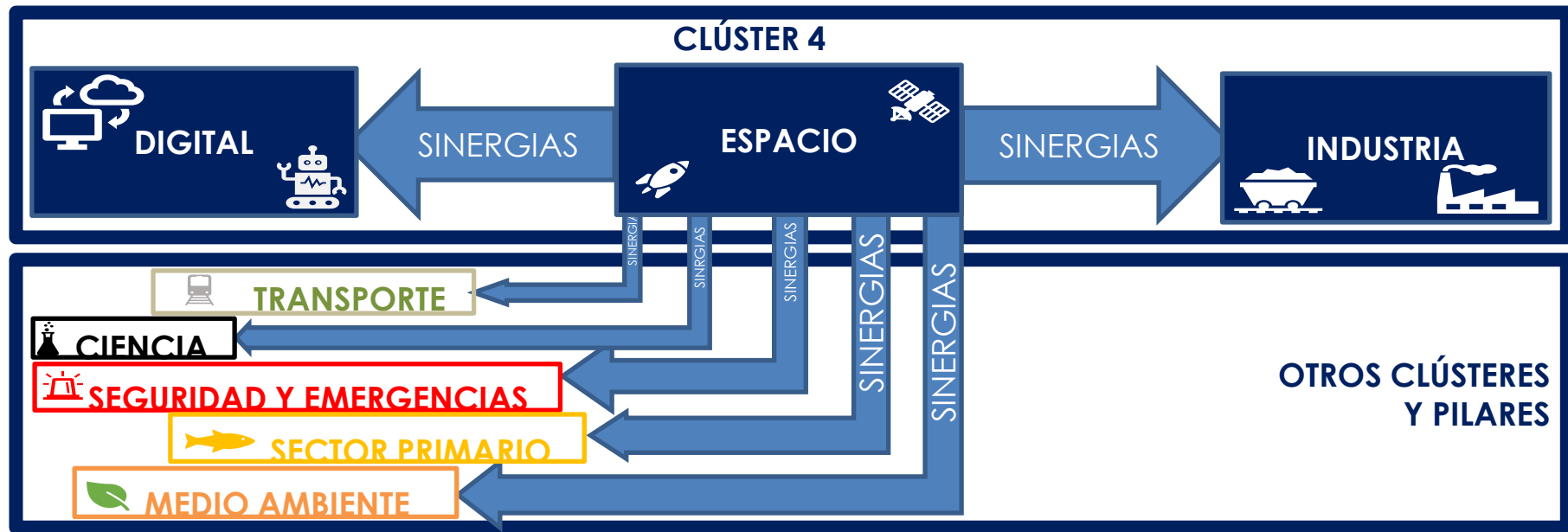
European Institute of Innovation and Technology

Strengthening the European Research Area

Widening participation and Spreading excellence

Reforming and Enhancing the European R&I system

El sector espacial en el clúster 4



Clúster 4 – Destino 5: ESPACIO



D1 – Climate neutral, circular and digitised *production* TWIN-TRANSITION



D2 – A digitised, resource-efficient and resilient *industry*



D3 – World leading *data* and *computing* technologies



D4 – Digital and emerging *technologies* for competitiveness and fit for the green deal

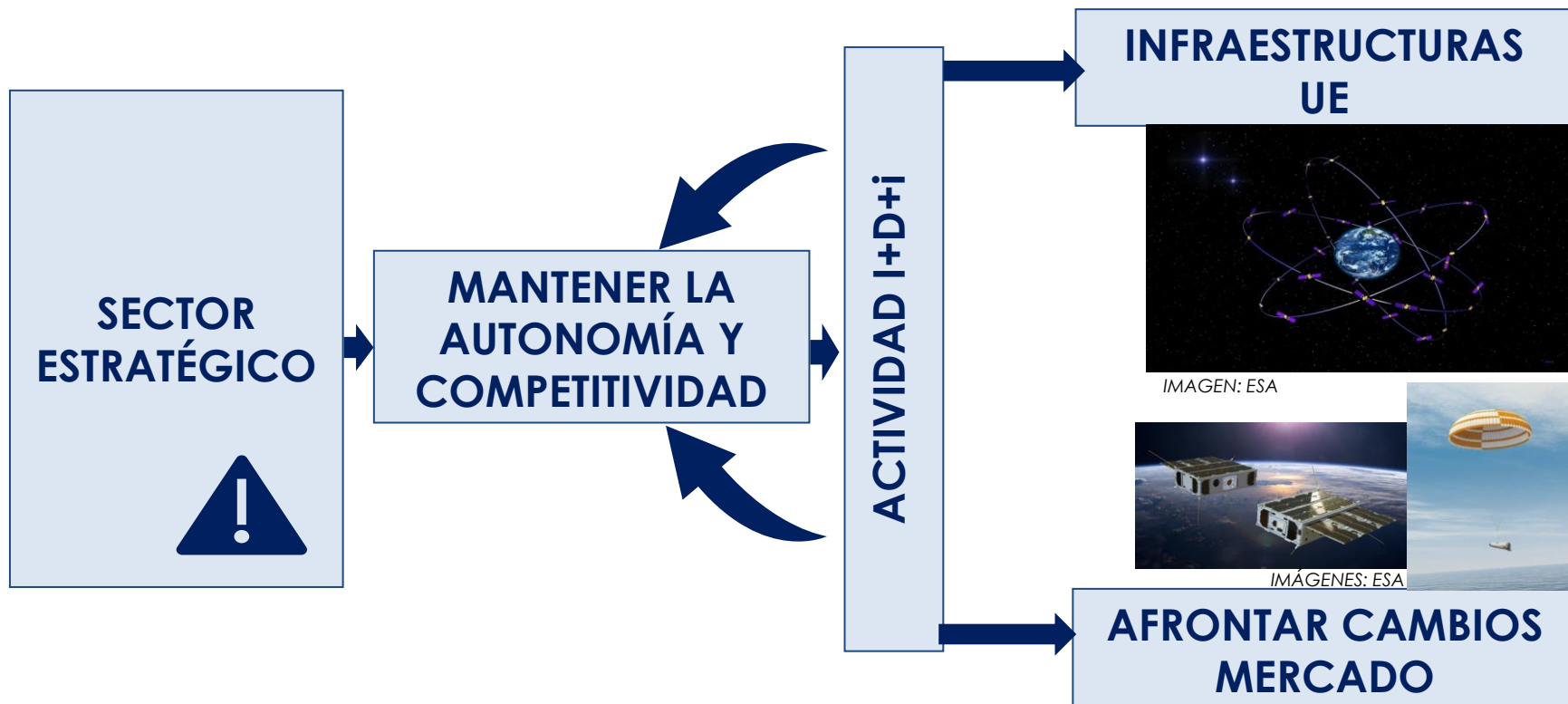


D5 – Strategic autonomy in developing, deploying and using global *space*-based infrastructures, services, applications and data



D6 – A *human-centred* and ethical development of digital and industrial technologies

Estrategia de I+i del sector espacial: dos ejes



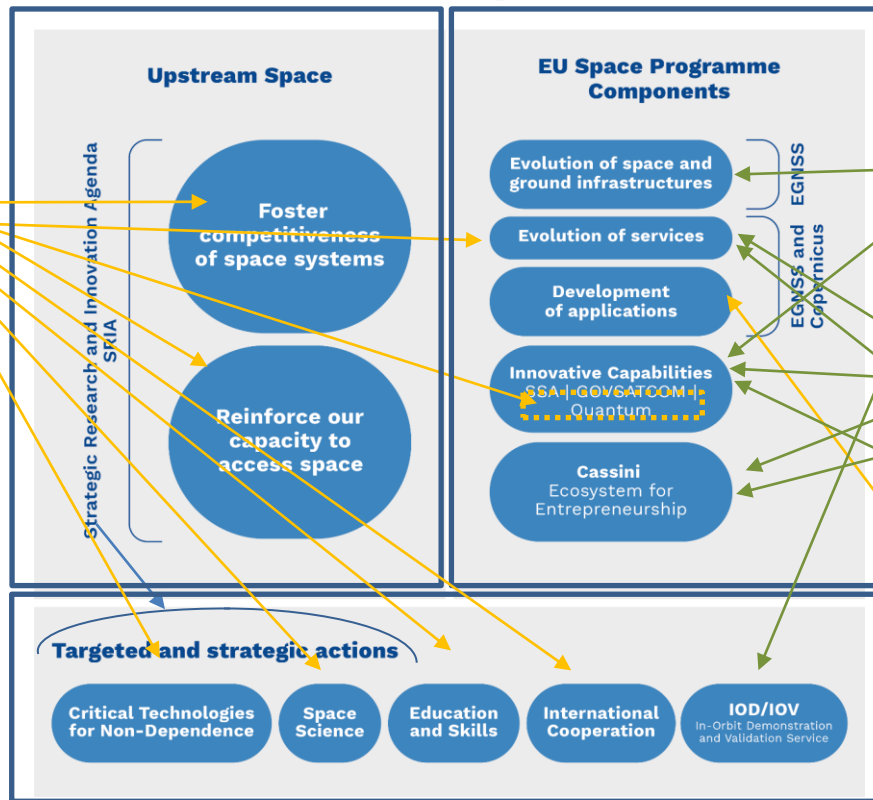
Actividades Horizonte Europa - espacio: diagrama de bloques

EU-funded space R&I

IMPLEMENTACION INDIRECTA (50% presupuesto)

CONVOCATORIAS
HADEA

¡EN
REVISIÓN!



ESA

- GNSS
- GOVSATCOM
- SW+ NEO



EUSPA
COM



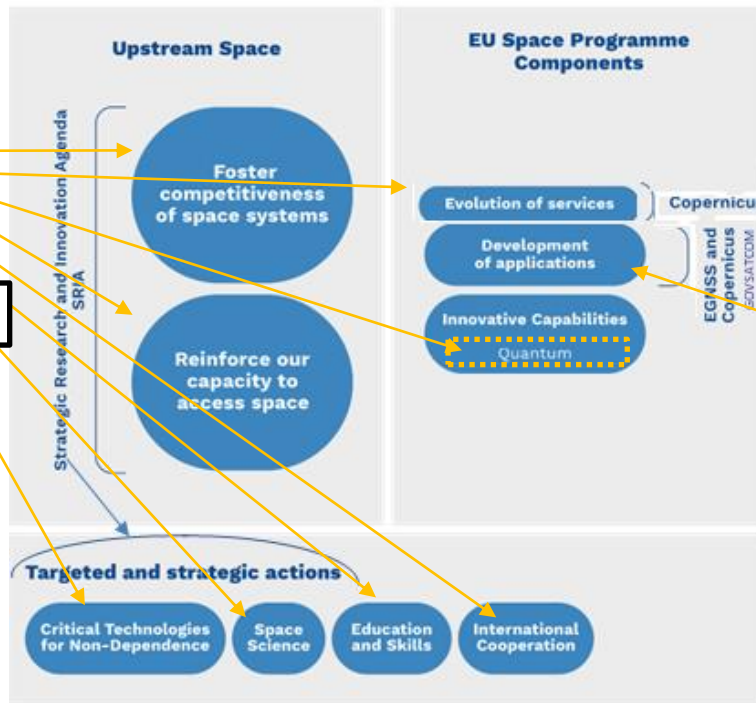
EU_SST
• SST



CONVOCATORIAS
EUSPA

Actividades Horizonte Europa – espacio (SOLO CONVOCATORIAS)

EU-funded space R&I



**CONVOCATORIAS
HADEA**

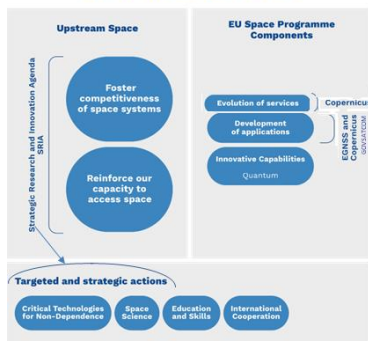
HORIZON-CL4-(AÑO)-SPACE

**CONVOCATORIAS
EUSPA**

HORIZON-EUSPA-(AÑO)-SPACE

Estructura del Destino 5 en el Programa de Trabajo

EU-funded space R&I



This Destination is therefore structured along the following headings:

1. Foster competitiveness of space systems
2. Reinforce EU capacity to access to space
3. Evolution of services: Copernicus

5. Innovative space capabilities: Quantum
6. Targeted and strategic actions supporting the EU space sector

**CONVOCATORIAS
HADEA**

HORIZON-CL4-(AÑO)-SPACE

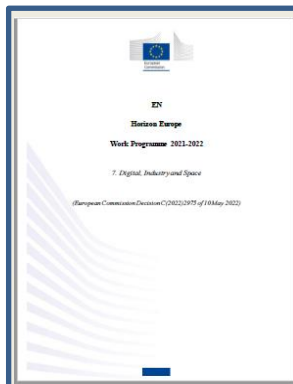
OTHER ACTIONS

4. Development of applications for Galileo, EGNOS and Copernicus and PRS and GOVSATCOM user activities

**CONVOCATORIAS
EUSPA**

HORIZON-EUSPA-(AÑO)-SPACE

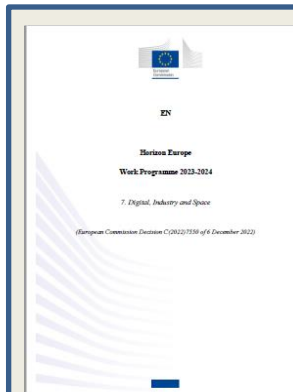
Convocatorias (abiertas) del área de espacio



CONVOCATORIA HORIZON-EUSPA-2022-SPACE-02

OPEN	3 Noviembre 2022
CLOSE	2 Marzo 2023
BUDGET:	48,1 M€

https://eventos.cdti.es/ES/InfodayHE_Cluster4_Espacio_20221103/Videos

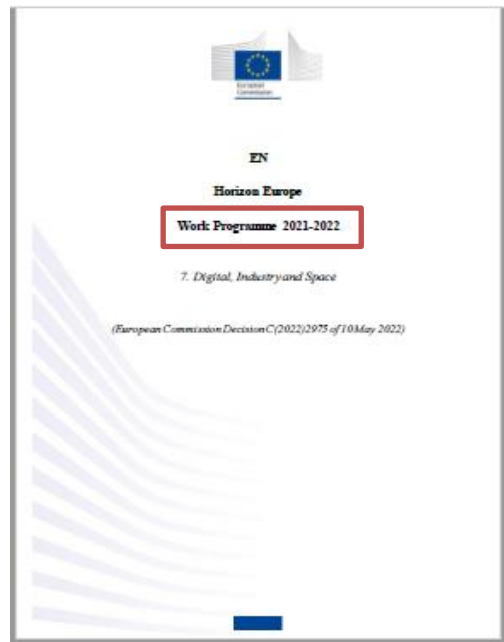


CONVOCATORIA HORIZON-CL4-2023-SPACE-01

OPEN	22 Diciembre 2022
CLOSE	28 Marzo 2023
BUDGET:	137 M€

Heading 4: Desarrollo de Aplicaciones y Fomento del uso del Programa Espacial UE

CONVOCATORIA HORIZON-EUSPA-2022-SPACE-02



OPEN	3 Noviembre 2022
CLOSE	2 Marzo 2023
BUDGET:	48,1 M€



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1. Scientific and technical services by the Joint Research Centre 475

2. Criteria for Safe and Sustainable-by-Design advanced materials and chemicals 475

3. Support for the Strategic Implementation Plan of the European Innovation Partnership on Raw Materials and the Action Plan on Critical Raw Materials 476

Indirectly managed actions 476

1. Indirectly managed actions delegated to ESA 476

2. Indirectly managed actions delegated to EUSPA 480

Convocatoria HORIZON-EUSPA-2022

Type of Action	Topic	Indicative budget (EUR min)	Funding rate
IA	EGNSS applications for Smart mobility	9.5	70% (except for non-profit legal entities, where a rate of 100% applies)
PCP	Public sector as Galileo and/or Copernicus user	5.2	100 %
IA	Copernicus downstream applications and the European Data Economy	9.6	70% (except for non-profit legal entities, where a rate of 100% applies)
RIA	Large-scale Copernicus data uptake with AI and HPC	9.6	100%
RIA	Designing space-based downstream applications with international partners	5,1	100%
RIA	GOVSATCOM Service developments and demonstrations	9,1	100%
TOTAL budget:		48,1	

Open 3 Noviembre 2022
Close 2 Marzo 2023

Innovation action (IA)

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

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.

Pre-commercial procurement actions/ (PCP)

Activities that aim to help a buyers' group to strengthen the public procurement of research, development, validation and, possibly, the first deployment of new solutions



EN

Horizon Europe

Work Programme 2021-2022

7. Digital, Industry and Space

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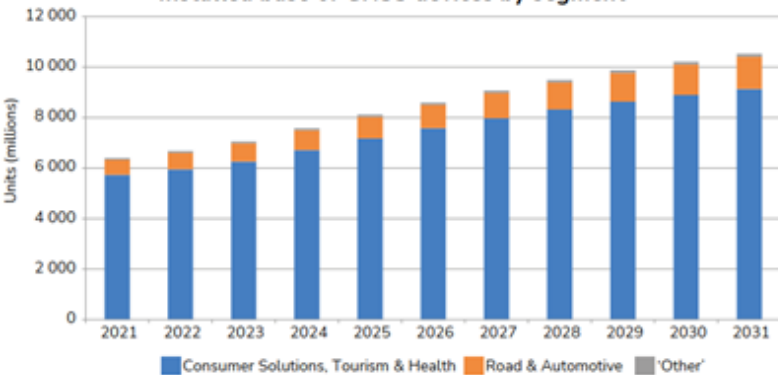


PÁGINA 492

Usos de GNSS (GALILEO y EGNOS)



Installed base of GNSS devices by segment



IMÁGENES Y TEXTO EUSPA



- 10% del PIB de la UE depende de la navegación por satélite
- Soluciones de consumo, turismo y salud
- Apoyo al TRANSPORTE:
 - Automoción (segundo mercado en importancia)
 - >360 aeropuertos usan EGNOS (navegación más exacta y confiable)
 - Navegación más sostenible y segura
 - Apoyo al sistema europeo de gestión del tráfico ferroviario (ERTMS)
- Apoyo a la agricultura de precisión
- Soluciones de control de tiempos en infraestructuras críticas

Usos de Copernicus

- **Proveedor n.1 de datos de espacio >20 TB/día**
- **Agricultura:**
 - Monitorización de parámetros del suelo, cultivos, sequías, etc
 - Indicadores del clima
 - Apoyo a la seguridad alimentaria
 - Reducción del impacto medioambiental
- **Digitalización: planificación redes 5G/6G**
- **Transporte:**
 - Predicciones de las condiciones de las carreteras
 - Modelos de la calidad del aire (movilidad sostenible)
 - Condiciones de la mar (transporte marino)
- **Construcción e infraestructuras**
- **Minería**
- **Energías renovables**



IMÁGENES EUSPA



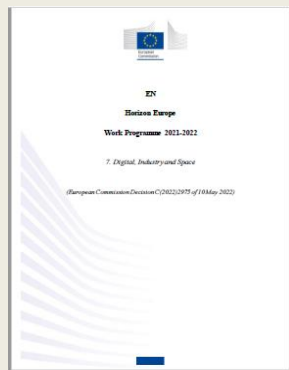
Usos de GOVSATCOM

- **Puesta en común de las infraestructuras satelitales de comunicación para uso por actores gubernamentales**
 - Demanda agregada: optimización entre oferta y demanda
 - Interoperabilidad entre los sistemas
 - Comunicación garantizada y segura

GOVSATCOM

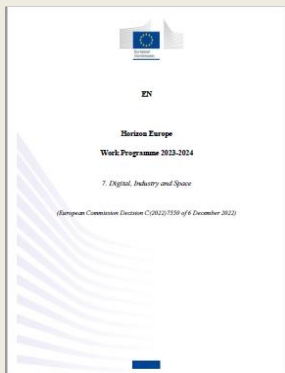
- **Apoyo rápido en zonas de emergencia**
- **Gestión de crisis**
- **Vigilancia**
- **Infraestructuras críticas**

Convocatorias (abiertas) del área de espacio



CONVOCATORIA HORIZON-EUSPA-2022-SPACE-02

OPEN	3 Noviembre 2022
CLOSE	2 Marzo 2023
BUDGET:	48,1 M€



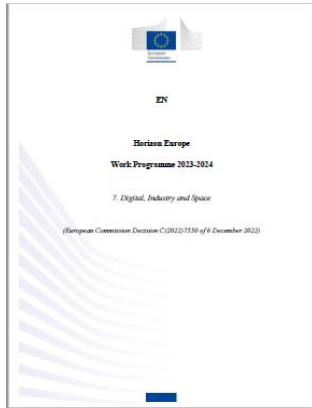
CONVOCATORIA HORIZON-CL4-2023-SPACE-01

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CLOSE	28 Marzo 2023
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https://eventos.cdti.es/ES/HE_ESPACIO2023/Videos

Convocatoria HORIZON-CL4-2023-SPACE-01

PROGRAMA DE TRABAJO 2023-2024



This Destination is therefore structured along the following headings:

1. Foster competitiveness of space systems
2. Reinforce EU capacity to access to space
3. Evolution of services: Copernicus
4. Space for people and society
5. Innovative space capabilities: Quantum
6. Targeted and strategic actions supporting the EU space sector

OPEN	22 Diciembre 2022
CLOSE	28 Marzo 2023
BUDGET:	137 M€

Heading 1: Foster competitiveness of space systems

- HORIZON-CL4-2023-SPACE-01-11: End-to-end Earth observation systems and associated services
- HORIZON-CL4-2023-SPACE-01-12: Future Space Ecosystem and Enabling Technologies
- HORIZON-CL4-2023-SPACE-01-13: Future Space Ecosystem: Management and Coordination Activity

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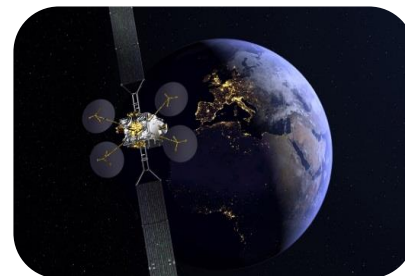


IMAGEN: ESA

Heading 2: Reinforce EU capacity to access to space

- HORIZON-CL4-2023-SPACE-01-21: Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground system tests
- HORIZON-CL4-2023-SPACE-01-22: New space transportation solutions and services
- HORIZON-CL4-2023-SPACE-01-23: Modern, flexible and efficient European test, production and launch facilities

TODOS LOS TOPICS CON RESTRICCIONES ESPECIALES DE ELEGIBILIDAD

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HORIZON-CL4-2023-SPACE-01-23: Modern, flexible and efficient European test, production and launch facilities	285



IMAGEN: ESA

Heading 3: Copernicus Services Evolution



- HORIZON-CL4-2023-SPACE-01-31: Copernicus for Atmosphere and Climate Change, including CO2
- HORIZON-CL4-2023-SPACE-01-32: Copernicus for Emergency Management
- HORIZON-CL4-2023-SPACE-01-33: Copernicus in-situ component
- HORIZON-CL4-2023-SPACE-01-34: Copernicus for Marine Environment Monitoring



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IMAGEN: ESA

Heading 5: Innovative space capabilities: Quantum

- HORIZON-CL4-2023-SPACE-01-62: Quantum Communication Technologies for space systems
- HORIZON-CL4-2023-SPACE-01-63: Quantum Space Gravimetry Phase-A Study

TODOS LOS TOPICS CON RESTRICCIONES ESPECIALES DE ELEGIBILIDAD

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Heading 6: Targeted and strategic actions supporting the EU space sector

SPACE SCIENCE & TECHNOLOGICAL NON-DEPENDENCE

- HORIZON-CL4-2023-SPACE-01-71: Scientific exploitation of space data
- HORIZON-CL4-2023-SPACE-01-72: Space technologies for European non-dependence and competitiveness **RESTRICCIONES ESPECIALES DE ELEGIBILIDAD**



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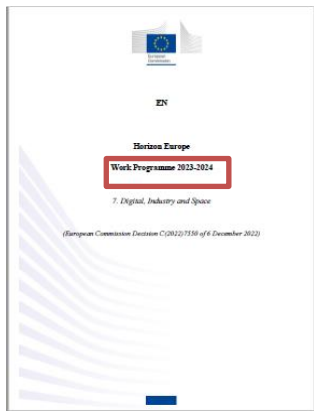


IMAGEN: ESA

Convocatorias (futuras) del área de espacio

PROGRAMA DE TRABAJO 2023-2024

This Destination is therefore structured along the following headings:



3. Evolution of services: Copernicus

5. Innovative space capabilities: Quantum

6. Targeted and strategic actions supporting the EU space sector

CONVOCATORIA HORIZON-CL4-2024-SPACE-01

OPEN	21 Noviembre 2023
CLOSE	20 Febrero 2024
BUDGET:	46,3 M€

OTHER ACTIONS

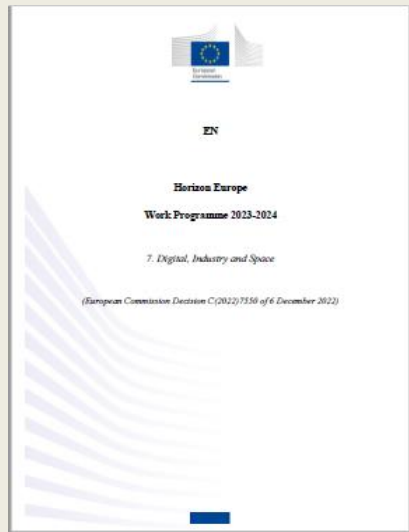
4. Development of applications for Galileo, EGNOS and Copernicus and PRS and GOVSATCOM user activities

CONVOCATORIA HORIZON-EUSPA-2023-SPACE

OPEN	Octubre 2023
CLOSE	Febrero 2024
BUDGET:	46,5 M€

Convocatorias (futuras) del área de espacio

CONVOCATORIA HORIZON-EUSPA-2023-SPACE



OPEN	Octubre 2023
CLOSE	Febrero 2024
BUDGET:	46,5 M€

https://eventos.cdti.es/ES/HE_ESPACIO2023/Videos

CONVOCATORIA HORIZON-CL4-2024-SPACE-01

OPEN	21 Noviembre 2023
CLOSE	20 Febrero 2024
BUDGET:	46,3 M€

CONVOCATORIA HORIZON-EUSPA-2023-SPACE

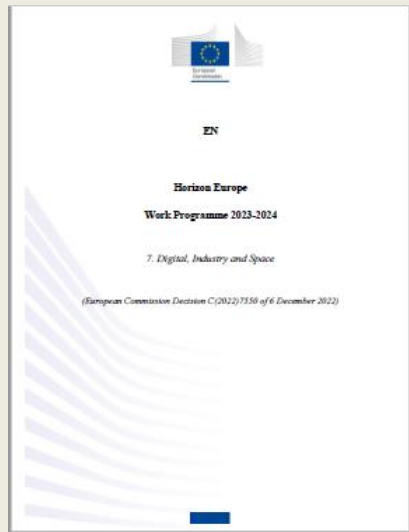
OPEN	Octubre 2023
CLOSE	Febrero 2024
BUDGET:	46,5 M€

HEADING 4: APPLICATIONS FOR GALILEO, EGNOS AND COPERNICUS, INCLUDING GALILEO PRS & GOVSATCOM

- **HORIZON-EUSPA-2023-SPACE-01-41:** EGNSS - Transition towards a green, smart and more secure post-pandemic society
- **HORIZON-EUSPA-2023-SPACE-01-42:** EGNSS - Closing the gaps in mature, regulated and long lead markets
- **HORIZON-EUSPA-2023-SPACE-01-43:** Copernicus-based applications for businesses and policy-making
- **HORIZON-EUSPA-2023-SPACE-01-44:** The Galileo PRS Service for governmental-authorized use cases
- **HORIZON-EUSPA-2023-SPACE-01-45:** Joint test activities for Galileo PRS services
- **HORIZON-EUSPA-2023-SPACE-01-46:** Designing space-based downstream application with international partners
- **HORIZON-EUSPA-2023-SPACE-01-61:** EU GOVSATCOM for a safer and more secure EU

Convocatorias (futuras) del área de espacio

CONVOCATORIA HORIZON-EUSPA-2023-SPACE



OPEN	Octubre 2023
CLOSE	Febrero 2024
BUDGET:	46,5 M€

CONVOCATORIA HORIZON-CL4-2024-SPACE-01

OPEN	21 Noviembre 2023
CLOSE	20 Febrero 2024
BUDGET:	46,3 M€

https://eventos.cdti.es/ES/HE_ESPACIO2023/Videos

CONVOCATORIA HORIZON-CL4-2024-SPACE-01

Heading 3: Evoluciones del servicio de Copernicus

- HORIZON-CL4-2024-SPACE-01-35: Copernicus for Land and Water

OPEN

21 Noviembre 2023

CLOSE

20 Febrero 2024

- HORIZON-CL4-2024-SPACE-01-36: Copernicus for Security **RESTRICCIONES ESPECIALES DE ELEGIBILIDAD**

Heading 5: CAPACIDADES INNOVADORAS: QUANTUM

- HORIZON-CL4-2024-SPACE-01-64: Quantum Space Gravimetry Phase-B study & Technology Maturation **RESTRICCIONES ESPECIALES DE ELEGIBILIDAD**

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Heading 6: Targeted and strategic actions supporting the EU space sector

- HORIZON-CL4-2024-SPACE-01-72: Space technologies for European non-dependence and competitiveness **RESTRICCIONES ESPECIALES DE ELEGIBILIDAD**

Condiciones específicas en los topics del área de espacio (PT 2023-2024)

Specific conditions

Expected EU
contribution per
project

Indicative budget

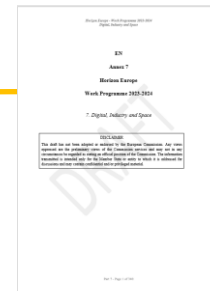
Type of Action

Eligibility conditions The conditions are described in General Annex B. The following exceptions apply:
If projects use **satellite-based** earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of **Copernicus** and/or **Galileo/EGNOS** (other data and services may additionally be used).

Technology
Readiness Level

Procedure

Legal and
financial set-up of
the Grant
Agreements

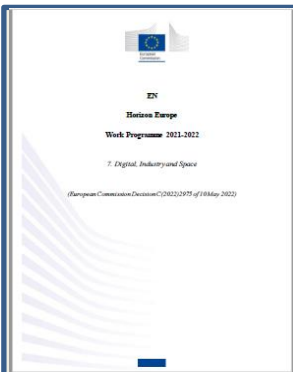


Condiciones especiales de elegibilidad:

- Si uso de datos espaciales => provenientes del Programa Espacial UE
- Restricciones en los consorcios

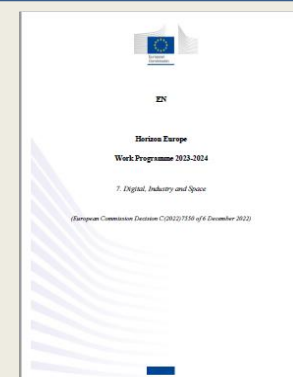
Set up financiero en LUMPSUM (NOVEDAD PT 23-24)

Topics del área de espacio con restricciones en los consorcios



CONVOCATORIA HORIZON-EUSPA-2022-SPACE-02

2/6 topics con restricciones



CONVOCATORIA HORIZON-CL4-2023-SPACE-01

6/14 topics con restricciones

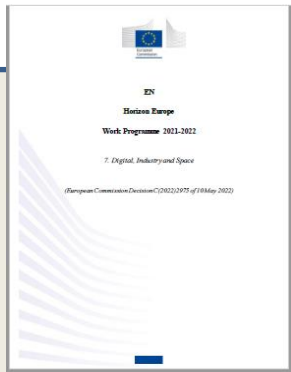
CONVOCATORIA HORIZON-CL4-2024-SPACE-01

3/4 topics con restricciones

CONVOCATORIA HORIZON-EUSPA-2023-SPACE

4/7 pero se aplica con excepciones
en cuanto a los países elegibles

Topics convocatorias EUSPA con restricciones

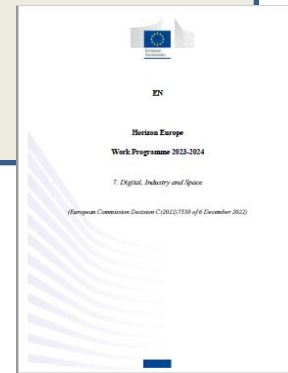


CONVOCATORIA HORIZON-EUSPA-2022-SPACE-02

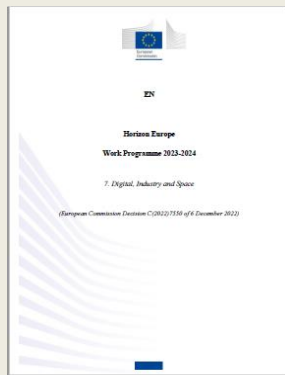
2 topics con restricciones, basadas en el PE de la UE

CONVOCATORIA HORIZON-EUSPA-2023-SPACE-02

4 topics con restricciones, basadas en el PE de la UE



Topics convocatorias HORIZON-CL4-SPACE con restricciones en los consorcios



CONVOCATORIA HORIZON-CL4-2023-SPACE-01 6/14 topics con restricciones

CONVOCATORIA HORIZON-CL4-2024-SPACE-01 3/4 topics con restricciones

Dónde encontrarlo (Programa de Trabajo 23-24)

OJO

Specific conditions	The Commission estimates that the EU contribution of around EUR 20 000 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Expected EU contribution per project	The total indicative budget for the topic is EUR 20 000 million.
Indicative budget	Research and Innovation Actions
Area of Action	The conditions are described in General Annex A. The following exceptions apply: The page limit of the submission is 70 pages.
Administrability conditions	The conditions are described in General Annex B. The following exceptions apply: If projects use satellite-based earth observation, positioning, navigation, and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used). In order to achieve the expected outcomes, and safeguard the Union's strategic assets, interests, autonomy, and security, it is important to avoid a situation of technological dependency on a non-EU source, in a global context that requires the EU to take action to build on its strengths, and to carefully assess and address any strategic weaknesses, vulnerabilities and high-risk dependencies which put at risk the attainment of its ambitions. For this reason, participation is limited to legal entities established in countries or territories which are associated to the Union's strategic interests, or which are associated to the Union's strategic interests, or which are associated to the Union's strategic interests.
Eligibility conditions	For the daily justified and exceptional reasons listed in the paragraph above, in order to guarantee the protection of the strategic interests of the Union and its Member States, entities established in an eligible country listed above, but which are directly or indirectly controlled by a non-eligible country or by a non-eligible country entity, may not participate in the action unless it can be demonstrated by means of guarantees accepted by their eligible country of establishment that their participation in the action would not negatively impact the Union's strategic assets, interests, autonomy, or security. The guarantees shall in particular substantiate that, for the purpose of the action, measures are in place to ensure that: (a) control over the applicant legal entity is not exercised in a manner that restricts or restricts its ability to carry out the action and to deliver results, that imposes restrictions concerning its infrastructure, facilities, assets, resources, intellectual property or know-how needed for the purpose of the action, or that undermines its capabilities and standards necessary to carry out the action; (b) access by a non-eligible country or by a non-eligible country entity to sensitive information relating to the action is prevented, and the employees or other persons involved in the action have a national security clearance issued by an eligible country, where appropriate; (c) ownership of the intellectual property arising from, and the results of, the action remain within the recipient during and after completion of the action, are not subject to control or restrictions by non-eligible countries or non-eligible country entity, and are not exported outside the eligible country, nor is access to them from outside the eligible country granted, without the approval of the eligible country in which the legal entity is established.
Technology Readiness Level	Activities are expected to achieve TRL 7 by the end of the project – The reference TRL definition is the ISO 16390:2013 applicable to the space sector.
Procedure	The procedure is described in General Annex C. The following exceptions apply: The grantee authority can fund a maximum of one project.

Eligibility conditions

• Limited to MS + NORWAY, ICELAND

• +UK (a veces)

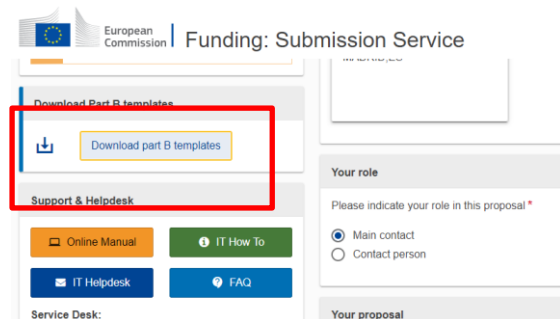
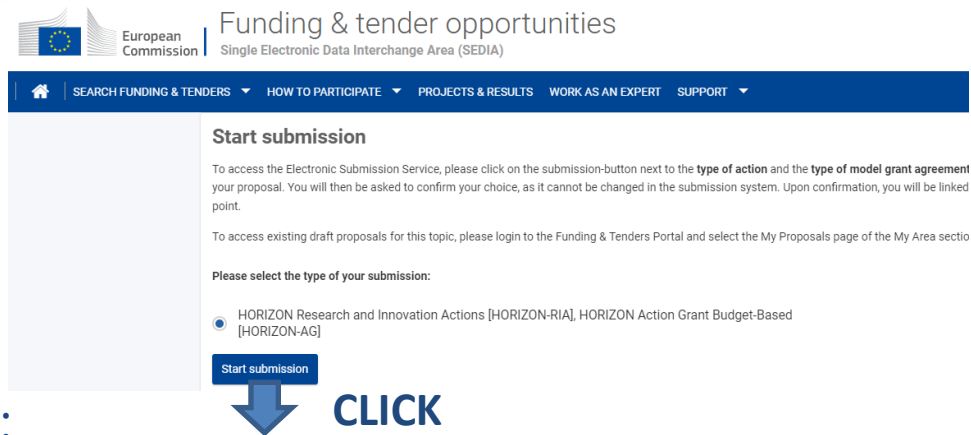
• Even if entity in eligible country, provide **guarantees:**

- NO CONTROL
- NO ACCESS
- NO OWNERSHIP

} from 3rd country

Dónde encontrar la *SELF DECLARATION* (Funding and Tenders)

- All declarations:
 - assembled by the **coordinator**
 - **uploaded** in a **single file**
- All **participants** must fill out the form:
 - except entities **validated** as public bodies by the Central Validation Service



Condiciones específicas financiera: LUMPSUM

66% DE LOS TOPICS CON LUMP-SUM

- Propuesta => mayor dificultad
- Mismos criterios de evaluación
- Mismo régimen de prefinanciación y pago
- No más auditorías financieras tradicionales

*Legal and
financial set-up of
the Grant
Agreements*

The rules are described in General Annex G. The following exceptions apply:

Eligible costs will take the form of a lump sum as defined in the Decision of 7 July 2021 authorising the use of **lump sum** contributions under the Horizon Europe Programme – the Framework Programme for Research and Innovation (2021-2027) – and in actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025).¹.

Más información:

https://eventos.cdti.es/ES/HE_ESPACIO2023/Videos

Posible partenariado co-programado en espacio

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility (CCAM)	Animal Health & Welfare*
Rare diseases*	Photonics	Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* Co-funded or co-programmed	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

■ Institutionalised Partnerships (Art 185/7)
■ Institutionalised Partnerships / EIT KICs
■ Co-Programmed
■ Co-Funded

* Calls with opening dates in 2023-24
** Calls with opening dates not before 2022



**MoU EN DISCUSIÓN
ESTABLECIMIENTO (esperado)
2023**



Resultados preliminares 2021-2022

- Participación ES en 50% de las propuestas presentadas
 - Coordinadas ES: 34
- 11 Proyectos coordinados
 - 2º país (FR (1º)= 12)
- Tasa éxito ES (37%) (DEL TOTAL PROPUESTAS)
 - Media UE 33%
- Retorno ES (UE 27) = 12,2%
 - 3º país (después de FR, DE)



Más Información

Puntos Nacionales de Contacto- ESPACIO



andrea.julia.perez-carro@cdti.es

- Infodays y otros eventos
- Distribución de la información
- Servicio gratuito de revisión propuestas/ideas de proyecto
- Apoyo en la búsqueda de socios



[Horizon Europe - Brokerage Event for Cluster 4 – Space calls 2023 - Home \(b2match.io\)](https://research-innovation-community.ec.europa.eu/events/3jM2kV6qwHjteovSf3VOrp/overview)



ripaca@inta.es

Más información: <https://research-innovation-community.ec.europa.eu/events/3jM2kV6qwHjteovSf3VOrp/overview>

Conclusiones

**Actividades UE I+D+i espacio => Horizonte Europa - Clúster 4
+ otros clústeres (espacio sector transversal)**

**Muchos topics en espacio aplicarán condiciones especiales:
Limitaciones a los consorcios, LUMPSUM, ...**

Apoyo de CDTI a los participantes en todo el proceso

+info sobre programas y ayudas CDTI
para
proyectos de I+D empresarial e innovación



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