

**PERIN** Portugal in Europe  
Research and Innovation Network

# INICIAR 2022 COM O HORIZONTE EUROPA - PILAR II

## CLUSTER 4 - ESPAÇO

*Joan Alabart 14-01-2022  
Portugal Space*

A equipa 



**Digital, Industry and  
Space, alternate space**

📍 Joan Alabart (PT Space)



**Digital, Industry and  
Space, alternate space**

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Space)

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**Pillar 1**  
Excellent Science

European Research Council

Marie Skłodowska-Curie  
Actions

Research Infrastructures



**Pillar 2**  
Global Challenges and  
European Industrial  
Competitiveness

Clusters

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

Joint Research Centre



**Pillar 3**  
Innovative Europe

European Innovation Council

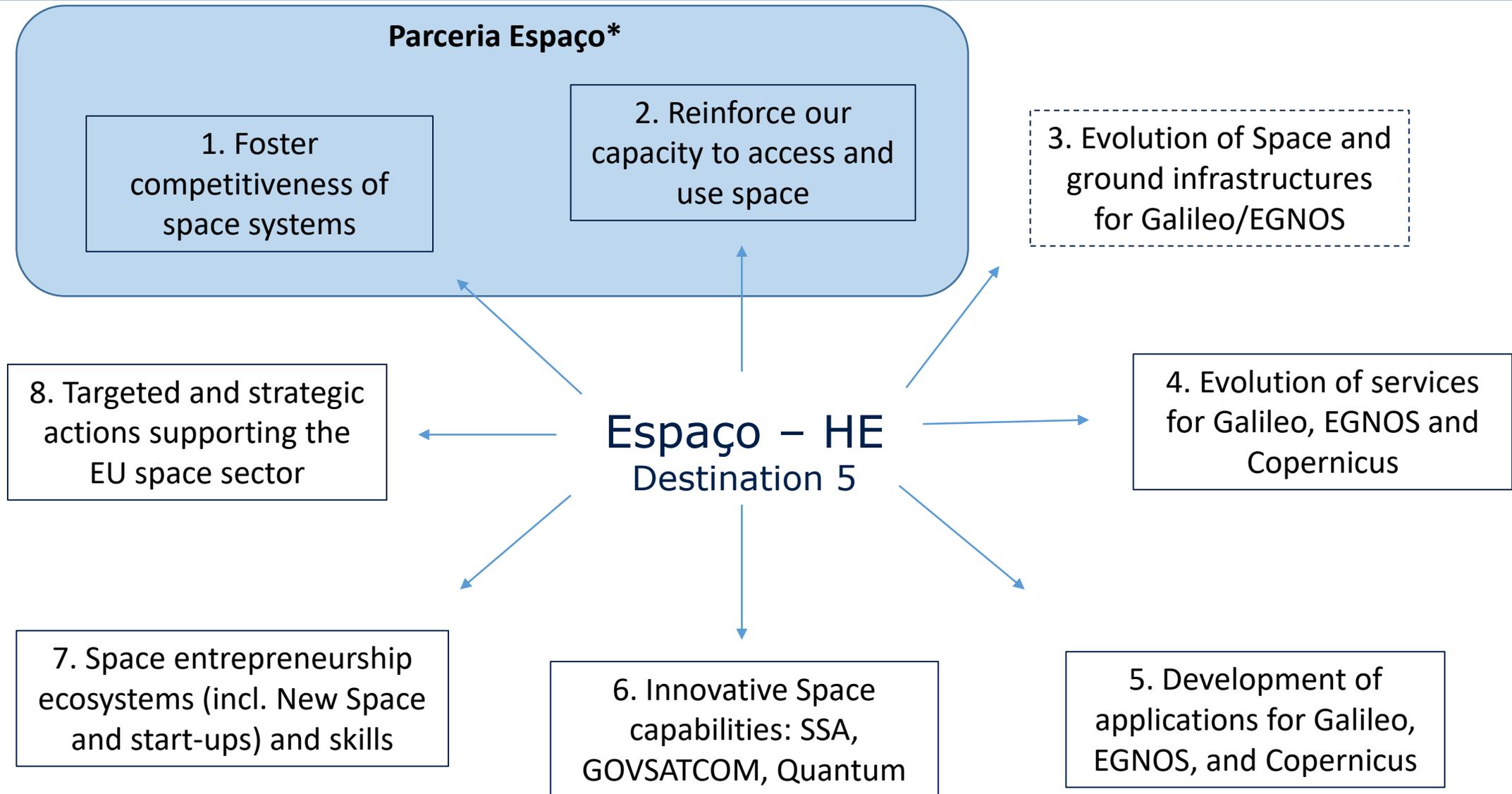
European innovation  
ecosystems

European Institute of  
Innovation  
and Technology

**Widening Participation and Strengthening the European Research Area**

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system



## Espaço – Horizonte Europa – WP 2021/22

SECTIONS	NUMBER OF TOPICS/ACTIONS	ESTIMATED BUDGET (EUR M)
Competitiveness	5 Topics	57
Access to space	4 Topics	64
EGNSS upstream	3 Other Actions	98
Copernicus services evolution	7 Topics	50
EGNSS and Copernicus applications	3 Topics	72
SSA / GOVSATCOM / Quantum	3 Topics	92
Cassini space entrepreneurship (incl. IOD)	3 Topics, 3 OA	51
Targeted and Strategic Actions (incl. Space science)	3 Topics	29
<b>TOTAL estimated budget WP 2021-2022</b>	<b>45</b>	<b>513</b>

**Calls para 25 topics abertas!**

**Abertura Calls**

**2021 – 28/10/2021– 16/02/2022**  
**2022(\*) – 28/10/2021– 16/02/2022**

(\*) Call EUSPA 2022: Abertura 27/10/2022 - Fecho 16/02/2023

Fonte: EC Info Week 2021

## Espaço – Horizonte Europa – Calls Abertas

<b>1. Foster competitiveness of space systems</b>	<b>57.2 M€</b>	<b>5 topics</b>
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Topics	Total Budget	Exp. N. Projects
End-to-end satellite communication systems and associated services (RIA)	12M€	2
End-to-end Earth observation systems and associated services (IA)	8.1M€	3
Future space ecosystems: On-Orbit Operations, new system concepts (RIA)	6M€	3
Future space ecosystems: On-Orbit Operations, preparation of demonstrator mission (RIA)	26M€	1
Technologies and generic building blocks for Electrical Propulsion (IA)	5.1M€	3

## Espaço – Horizonte Europa – Calls Abertas

<b>2. Reinforce our capacity to access and use space</b>	<b>63.8 M€</b>	<b>4 topics</b>
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Topics	Total Budget	Exp. N. Projects
Reusability for European strategic space launchers - technologies and operation maturation including flight test demonstration (RIA)	39M€	1
Low cost high thrust propulsion for European strategic space launchers - technologies maturation including ground tests (RIA)	19.8M€	1
New space transportations solutions and services (RIA)	3M€	2
Multi sites flexible industrial platform and standardised technology for improving interoperability of European access to space ground facilities (RIA)	2M€	1

## Espaço – Horizonte Europa – Calls Abertas

4. Evolution of services of the EU Space Programme components Galileo, EGNOS and Copernicus	50.1 M€	7 topics
Topics	Total Budget	Exp. N. Projects
Copernicus Land Monitoring Service evolution (RIA)	5M€	1
Copernicus Marine Environment Monitoring Service evolution (RIA)	10M€	1
Copernicus Climate Change Service evolution (RIA)	11M€	1
Copernicus Atmosphere Monitoring Service evolution (RIA)	7.5M€	1
Copernicus Security and Emergency Services Evolution (RIA)	5M€	1
Copernicus Anthropogenic CO2 Emissions Monitoring & Verification Support (MVS) capacity (RIA)	6M€	1
Copernicus evolution for cross-services thematic domains (RIA)	5.6M€	2

## Espaço – Horizonte Europa – Calls Abertas

<b>5. Development of applications from the EU Space Programme components</b>	<b>32.6 M€</b>	<b>3 topics</b>
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Topics	Total Budget	Exp. N. Projects
EGNSS and Copernicus applications fostering the European Green deal (IA)	14M€	5
EGNSS applications for Safety and Crisis management (IA)	9.3M€	3
EGNSS applications for the Digital Age (IA)	9.3M€	3

## Espaço – Horizonte Europa – Calls Abertas

<b>6. Innovative space capabilities: SSA, GOVSATCOM, QUANTUM</b>	<b>19 M€</b>	<b>2 topics</b>
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Topics	Total Budget	Exp. N. Projects
Quantum technologies for space gravimetry (RIA)	17M€	1
Space Weather (RIA)	2M€	2

<b>7. Space entrepreneurship ecosystems and skills</b>	<b>3 M€</b>	<b>1 topic</b>
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Topics	Total Budget	Exp. N. Projects
Education and skills for the EU space sector (CSA)	3M€	1

## Espaço – Horizonte Europa – Calls Abertas

<b>8. Targeted and strategic actions supporting the EU space sector</b>	<b>28.82 M€</b>	<b>3 topics</b>
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Topics	Total Budget	Exp. N. Projects
Space technologies for European non-dependence and competitiveness (RIA)	10.32M€	4
Space technologies for European non-dependence and competitiveness (RIA)	10.5M€	4
Space science and exploration technologies (RIA)	8M€	6

# Espaço – Horizonte Europa – Informações Úteis

## Horizon Europe – Info Days – Cluster 4 / Destination 5

**Informação em detalhe sobre os topics!**



## Espaço – Horizonte Europa – Brokerage Tool

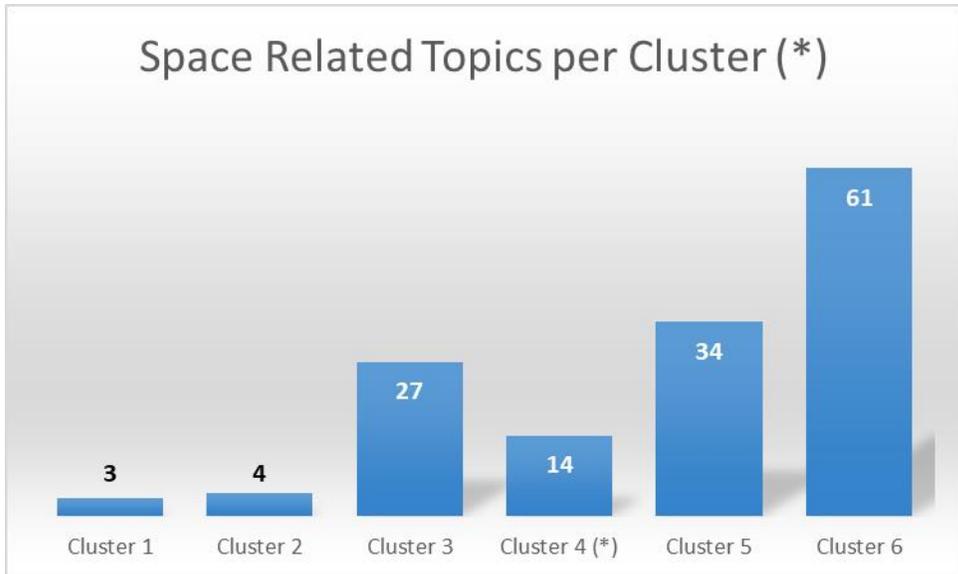


10 November 2021 - 16 February 2022

**2nd Horizon Europe Space  
Brokerage Event. ONLINE  
long-term matchmaking  
until call deadline**

<https://horizon-europe-space-brokerage-event.b2match.io/>

# Espaço nas calls de *Não-Espaço*



(\*) Considerando unicamente topics fora do Espaço

**Abertura Calls**

**De 2021 muitas já abriram!**

Keyword trend Map



*Example:* HORIZON-CL6-2021-BIODIV-01-12 Improved science based maritime spatial planning and identification of marine protected areas

## Espaço – Horizonte Europa – CASSINI



**Are you a** **<Energised entrepreneur>** ?

Feeling driven to solve? **You're in luck.**  
**The #CASSINIHackathons are here!**

**3rd CASSINI  
Hackaton  
31/03 – 02/04!**

# MUITO OBRIGADO!

**Mailing List Espaço :**

[Formulário Registo](#)

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# PERIN

Portugal in Europe  
Research and Innovation Network

**FCT** Fundação  
para a Ciência  
e a Tecnologia



**AICIB** AGÊNCIA DE  
INVESTIGAÇÃO  
CLÍNICA  
E INOVAÇÃO  
BIOMÉDICA

Erasmus+

**DGES**  
Direção-Geral do Ensino Superior

**CIÊNCIA VIVA**