

EU Space data for market downstream innovation

TAT ESA/NASA EO course 2022, Prague; 5th September 2022

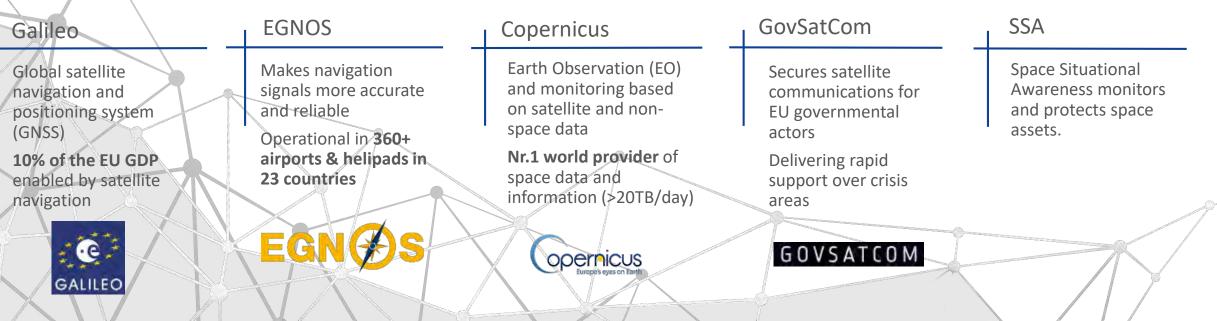
Chiara Solimini, EUSPA



A new EU Space Programme and new Agency

With the new regulation, space data is at the heart of a technological revolution





Happy Birthday EUSPA!

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IT S BEEN 365 DAYS

Tusin

All EU Space Program components with an integrated market/user driven approach

New integrated segmentation

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Market & User Knowledge



The first EUSPA Market Report addressing the new market segmentation has been released



• The EO and GNSS Market Report combines the market and application insights into a single report that provides global coverage of the EO and GNSS applications across multiple market segments





New EUSPA EU Space Market Report with focus on both GNSS and EO

https://www.euspa.europa.eu/sites/default/files/uplo ads/euspa market report 2022.pdf

Market segmentation



• In total **17 market segments** were derived, common for EO and GNSS domains, taking into account as much as possible the specificities of both



User Consultation Platform 2022



The UCP is engaging with **other user communities**, industries, service providers and R&D, bringing together **expertise** and **insights** from different applications, sharing experiences, and strengthening an EU network of **innovators** by encouraging **cooperation** across broad disciplines





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Offer Creation



New opportunities for space downstream 2021-2027



Igniting innovative space downstream applications

Horizon Europe – Cluster 4 "Digital, Industry and Space" - applications

Call 2021 : opened on 28 Oct 2021, closed on 16 Feb 2022 - GRANTS Call 2022 : indicative opening on 27 Oct 2022, closing 16 Feb 2023

Horizon Europe EUSPA calls



Fundamental Elements

Development of EGNSSenabled chipsets, receivers and antennas

> Fundamental Elements (Space Programme)

GRANTS/ PROCUREMENTS



START-UP SUPPORT CASSINI EUSPACE Supports innovative entrepreneurs, start-ups and SMEs in the space industry

CASSINI

Seed and growth funding facility, hackathons, prizes, business accelerator, matchmaking for space Start-ups and SMEs – VARIOUS INSTRUMENTS

cassini.eu

Fundamental Elements

Horizon Europe 2022 (2nd call)



	Type of Action	Торіс	Indicative budget (EUR mln)	Funding rate	Dening: 27 October 2022 Idline: 16 February 2022 (indicative ary 2022
	IA	EGNSS applications for Smart mobility	9.5	70% (except for non-profit legal entities, where a rate of 100% applies)	pening: 27 October 2022 Idline: 16 February 2023 (indicative)
	РСР	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%	
T	RIA	GOVSATCOM Service developments and demonstrations	9,1	100%	
Ĩ.		TOTAL budget:	48,1		10

EUSPA Horizon Europe proposals shall...

EUSW dedicated sessions on 5-6 October Registration Open! https://www.euspaceweek.e u/programme



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- Exploit the EU Space programme components, including EGNSS and Copernicus data and services.
- Exploit **EGNSS differentiators such as HAS**, OS-NMA, Galileo Signal Authentication Service and SAR for the development of new innovative applications.
- Deliver new innovative applications, with commercial impact and a clear market uptake.
- A Business Plan and evidence of user engagement shall be compulsory and shall be provided as part of the proposal, to demonstrate the user need and sustainability of the project (for Innovation Actions).
- Proposals addressing PRS (Public Regulated Service) related applications not in scope of action.
- Proposals under this topic should exploit synergies and be complementary to national activities and activities funded by ESA.
- Participation of industry, in particular SMEs and midcaps, is encouraged;
- Participation of, or outreach to, entities based in countries without a space tradition is encouraged;
- Involvement of post-graduate researchers (engineers, scientists, and others) is also encouraged, for example through professional work experience or through fellowships/ scholarships when applicable;

CASSINI Space Entrepreneurship Initiative



CASSINI is the European Commission's initiative to boost space entrepreneurship, tailored to the needs of Europe's New Space industry

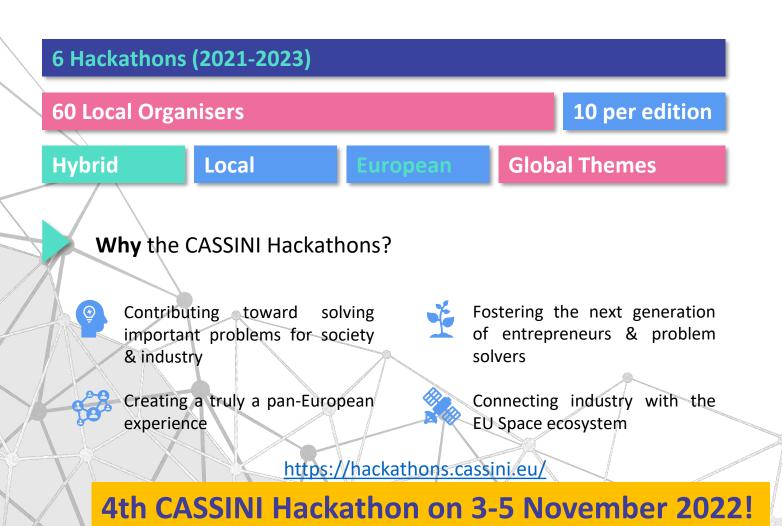
CASSINI supports entrepreneurship during the entire innovation cycle



IDEAS / INNOVATION	TECHNOLOGIES EXPANSION AND GROWTH				
Incentivising new ideas	Developing disruptive technologies	Increasing number of Venture Capital funds with focus on space	Connecting with VC funds and commercial partners		
CASSINI Hackathons CASSINI Prizes	Horizon Europe European Innovation Council	CASSINI Seed and Growth Funding Facility	CASSINI Matchmaking		



Discover the CASSINI Hackathons





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#3 Cassini Hackathon in May 2022



The 3rd Hackathon has challenged hackers to uplift the **tourism sector** with **resilience**, **sustainability** and **digitalization using EU Space data**

Finding

sustainable

destinations

Where to go and

how to get there?

3rd CASSINI Hackathon on 12–14 May 4th CASSINI Hackathon on 3-5 November



Cassini Hackathons selected great winners out of national champions







An application that uses cutting edge AI and EU Space data to identify uncharted hiking trails, providing information about climate and user location.

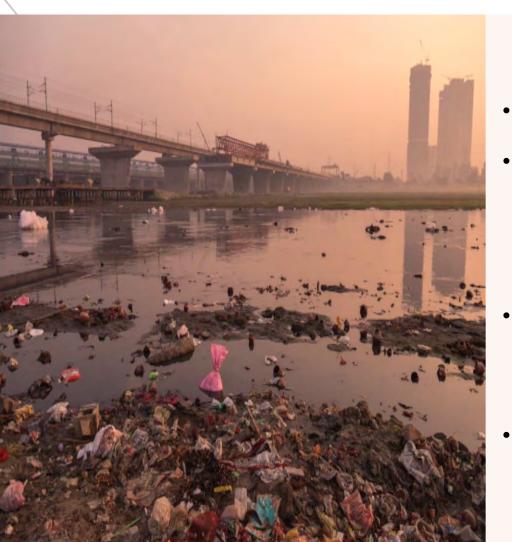


An API-based service that provides quality measurements and reports about water and air quality for any location in the world



A quality index (Q-SEA) that describes the water condition of the Italian seaside and offers the opportunity to make a comparison between areas.

CASSINI Maritime Prize





- Prize for the best data-driven marine or maritime digital application
- Solutions for the **detection**, **monitoring** and the **removal of microplastics**, plastic litter as well as of larger items in **rivers**, **shores** and **coastal zones**, in order to support the prevention of ocean pollution
- Use of **Copernicus and/or Galileo data** in combination with other data sources. Use of Artificial intelligence, high performing computing, big data processing and management is also encouraged
- First **3 winners** will receive **EUR 950.000** cash prize each

The CASSINI Prize will open for submissions at the <u>EC's Funding & Tenders portal</u>

Other CASSINI Prizes: myEUspace prize contest



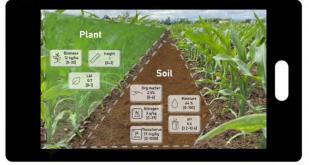
mobile app & panic button for safety of women



mobile robot to replace human in Dirty-Dull-Dangerous jobs



Smart glasses for improving mobility of people with low vision



mobile app for sustainable precision farming

- Objective: stimulate innovation in Europe with the development of commercial solutions like mobile apps, wearables, robotics using EU space data and their synergies
- New edition of competition for space data solutions with a prize pool of € 1.000.000 will be open for applications in September 2022!

Last year edition: myeuspacecompetition

MATCHMAKING CASSINI Matchmaking with Investors CASSINI Industrial Partnering

CASSINI Matchmaking

EUSW dedicated sessions on 5 October Registration Open! https://www.euspaceweek.eu/p rogramme

Objective: Step-by-step support to start-up, scale-up companies and SMEs to **improve their ability to attract venture** capital funding and form industrial partnerships

CASSINI Matchmaking will feature two tracks:

- Investor matchmaking: links between startups and VC funds
- Industrial partnering: links between startups and large corporations



Startups, scaleups or SMEs can benefit from direct access to investors





- Investors can get in touch with steady, high-performing companies with a great business solution
- Corporations can fuel innovation and make their organisations fitter for the future

Capacity building workshops



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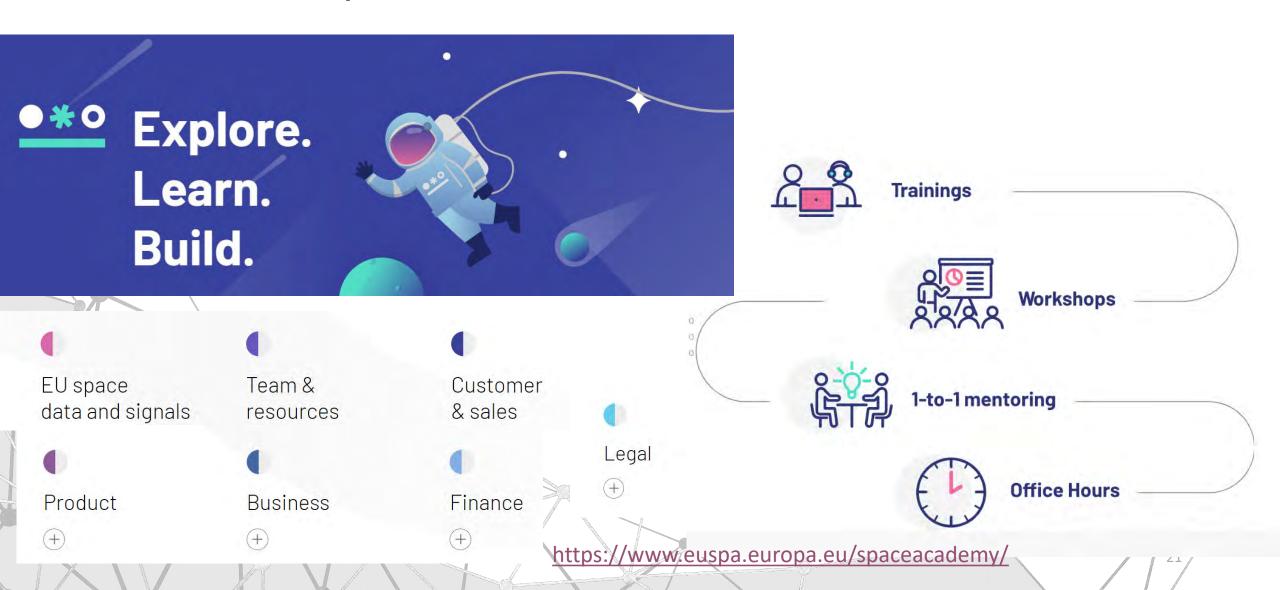
			Past
Session	Theme	Venue + online	Date
Episode 1	Infrastructure lifecycle support	EUSPA, Prague	28.03.22
Episode 2	Security and defence	COM, Brussels	02.05.22
Episode 3	Consumer solutions: well-being, education and entertainment	EUSPA, Prague	23.05.22
Episode 4	Access to space	ESA, Paris	13.06.22
Episode 5	Fund setup, investment strategy, investment team, exit strategy	EIF, Luxemburg	27.06.22

Batch 1:March-July 2022Batch 2:Sep-Dec 2022Batch 3:March-July 2023Batch 4:Sep-Dec 2023

Upcoming

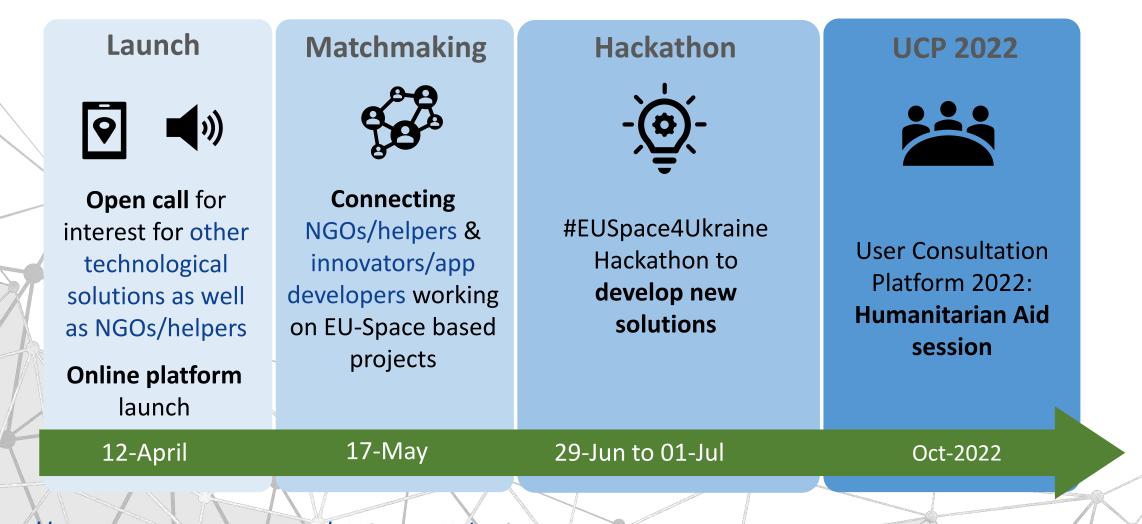
EUSPA Space Academy: Lift off to a successful space business





EUSpace4Ukraine roadmap





https://www.euspa.europa.eu/EUSpace4Ukraine

Watch this Space



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Linking space to user needs

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