

# CASSINI Challenges 2024

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Webinar for space  
visionaries

Idea stage info & tips

# How to interact during the webinar

Participants' microphones are **muted**. To address any questions during the webinar, **please use the chat**.

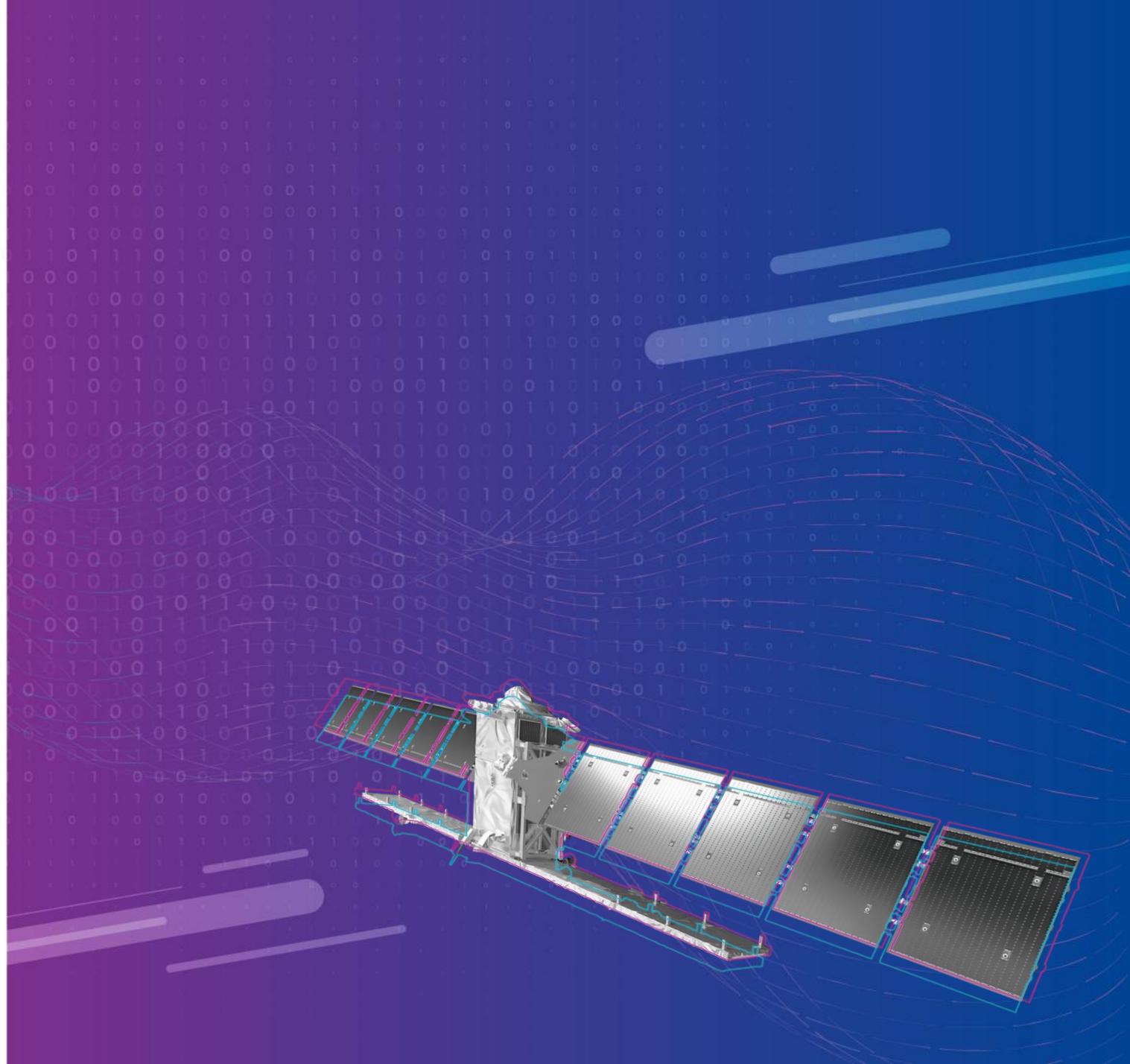
Questions are collected and addressed at the end of the session. Questions and answers will be also **published in form of clarification notes** on the EUSPA website.

The webinar will **not be recorded**.

For technical issues that may arise during the webinar (sound problems, not viewing content, etc.) you can use the chat and we will support you.

# Agenda

- EU Space & CASSINI Overview
- Cassini Challenges 2024 – Idea
- Prize
- Challenge
- New technology fields in the 2024 Cassini Challenges edition
- Evaluation Criteria
- Eligibility criteria
- How to apply?
- Testimony from previous winner: Caius
- Q&A



# The EU Space Programme



EO programme looking at our planet



GNSS service for positioning & timing info



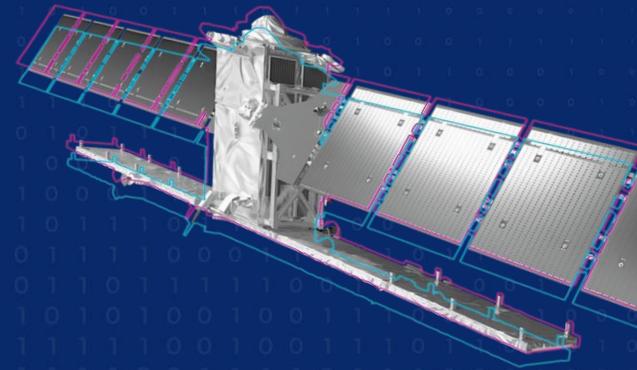
Boosts GNSS's performances in Europe



Ensure secure communication capabilities



Informs about use and hazards of space



 **CASSINI #EUSpace**

*€1 Bn EU initiative to support space start-ups  
& SMEs in 2021-2027*

*Covers the full EU Space Programme, from  
upstream tech to downstream applications*

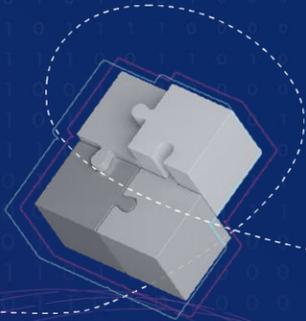
# CASSINI backs each stage of the space entrepreneurship journey



• EU Space Academy



• Hackathons & Mentoring



• Challenges



• Business Accelerator



• Matchmaking



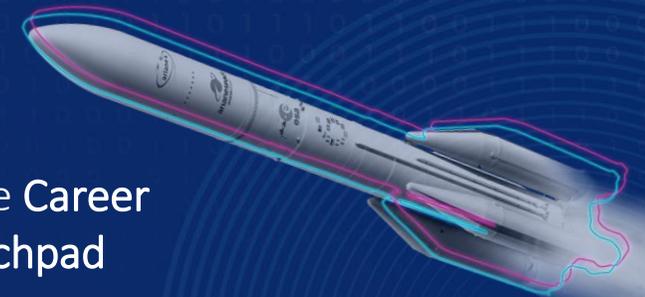
• Growth Facility



• Entrepreneurship Days



Space Career Launchpad



# CASSINI Challenges 2024: The Prize

	Idea	
10,000€ award		15 teams awarded



Idea deadline: 25 November 2024, 23:59 CET

# CASSINI Challenges 2024: The Challenge



Make it with Space!

- To solve any problem on earth using space technology in the fields of satellite navigation, Earth observation, satellite communication or space surveillance and tracking;
- Solutions must enhance the competitiveness and innovation of the EU Space industry

TRL 1-3

Ideas

Prototypes

Products



# Where to learn about space technology?



●\*○  
**EU Space Academy**  
**Learning Platform**



# New technology fields in CASSINI Challenges 2024

## Satellite Communications

- e.g. Beamforming technology
- Software Defined Satellites
- D2D (Direct 2 Device)
- AI and secure satcom network
- Multi-orbit, -frequency secure satcom user terminal
- Secure IoT user terminal
- Improved modcod

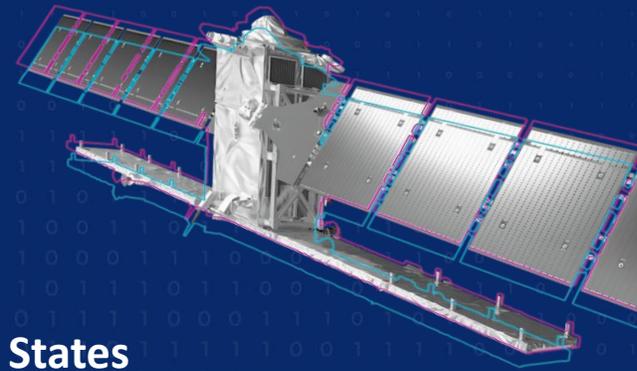
## Space Surveillance & Tracking (SST)

- E.g. Space-Based Surveillance Systems
- SST sensors
- Detection and uncertainty algorithms
- Orbit determination techniques
- Space Traffic Coordination

## Upstream solutions for EO, GNSS, satcom and SST

- e.g. space manufacturing systems
- Ground systems
- In-orbit systems
- Data platforms

# Eligibility criteria – see ToR for details



## Team composition

Individual, team or company  
Team coordinator as contact point

## Nationality/ location of entity



## EU Member States

**Switzerland + Norway:** prevalence of sat.nav., positioning & timing

**Norway, UK, Iceland:** prevalence of EO

**non-EU countries** associated to Horizon Europe: no prevalence of sat. nav./EO



## Participation open to

- ✓ Start-ups
- ✓ Scale-ups
- ✓ Entrepreneurs
- ✓ University students
- ✓ Researchers

## Age



All applicants must be at least of 18 years of age by the date of registration

# Award criteria

## Relevance and user impact of the identified Challenge

Which commercial, social or environmental challenge have you identified? How is it linked with space technologies? Which application areas/target users are impacted today by the challenge and how? How widespread is the impact?

## Innovation, feasibility and market potential of the Solution

What is the solution that you propose? How disruptive is it/will it be once it enters the market? Which space technologies will it use or how it will contribute to the EU space competitiveness? What are the risks you identified?

## Maturity of the Solution

What technical and commercial progress have you made so far with your solution? What is the development roadmap and go to market strategy? How many potential/existing customers have you onboarded and what feedback have you received from them?

## Quality of the Team

How are you going to secure the relevant expertise to develop and commercialize the solution? How are the responsibilities split? Are there any competences that your team is missing that would need to be acquired? What are the risks in terms of human resources that you may face? What are the challenges you faced and how did you manage them? How do you address diversity in your team?

# How to apply?

PARTICIPATE NOW



1. Read the Terms of Reference  
<https://www.euspa.europa.eu/cassinichallenges>
2. Fill out the questions in the application form on  
<https://cassinichallenges.awardsplatform.com/>
3. Submit a video explaining your idea and team (< 3 minutes)
4. Submit supporting documents
  - Legal entity form
  - Financial identification form
  - Declaration of Honour
5. Submit your entry!

Idea deadline: 25 November 2024, 23:59 CET

# CASSINI Challenges 2024: Idea timeline

25 November 2024  Deadline for the submission of Ideas  
23:59 CET

December-January  
(estimated) Interviews with shortlisted teams

February 2025  
(estimated) Announcement of winners for Idea track

June 2025  
 Prague



Award Ceremony:  
CASSINI Entrepreneurship Days



# Testimony & tips from previous winner: Caius



*"Winning the Cassini Challenges Idea Track gave us the chance to network with partners and cover key product development costs, such as Galileo trackers and server resources for training neural networks."*

*Our product Caius Paskou helps livestock farmers to identify fertile areas, allowing overgrazed fields recover while offering tailored recommendations."*

 **CASSINI #EUSpace**

# Questions?

Applicants may send their questions via email to [prizes@euspa.europa.eu](mailto:prizes@euspa.europa.eu).

The answers and clarifications will be published on a regular basis on the competition website.

You can ask questions about the Idea track until 7 working days before the deadline.

PARTICIPATE NOW



25 November 2024  
23:59 CET

