



CASSINI
Hackathons & Mentoring

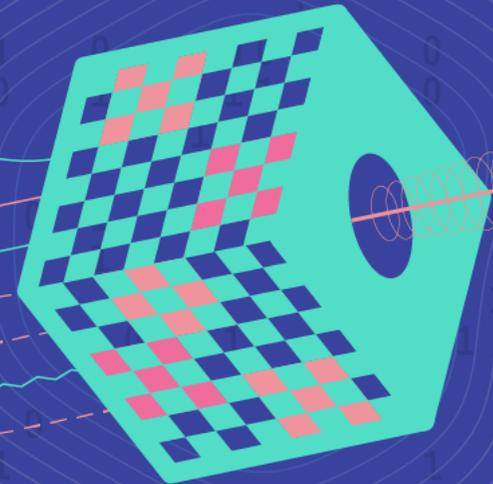
Participant Playbook

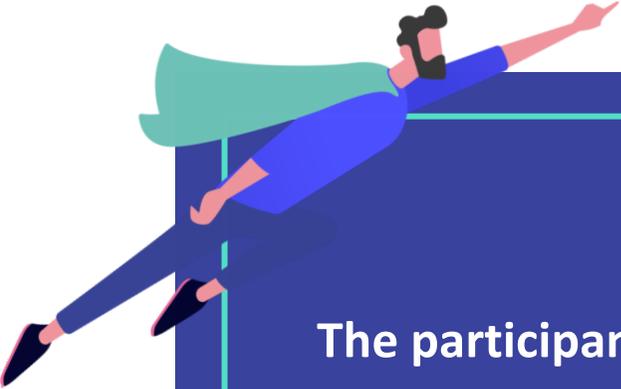
Connecting the Arctic
28 September 2021

Implemented by

VERHAERT | MASTERS IN INNOVATION

 **space-tec**
PARTNERS





The participant playbook is intended to guide you through the **most important information** about the **2nd CASSINI Hackathon & Mentoring**.

Inside you will find information about the **tools, platforms, and communication channels** you need to make the most of the weekend.

We can't wait to see how you use EU space technologies to **connect the Arctic!**



What you will find in this playbook



1. Core information

- Overview of the 2nd CASSINI Hackathon
- The theme and challenges
- EU Space programme
- Tools & resources
- Accessing help & support

2. The Hackathon

- How to get involved
- The 10 local organisers
- Accessing the data cube with WEKEO
- The Big Ideas Campaign
- The hackathon agenda & rules
- Overview of the hackathon platforms
- The demo day & awards ceremony

3. Mentoring programme

- Introduction to the programme
- How it will work
- How to make the most of it

Coming soon



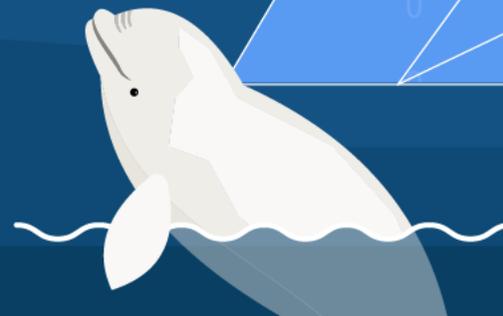
2nd CASSINI HACKATHON

5-7 NOVEMBER 2021

Connecting the Arctic



CASSINI
Hackathons & Mentoring



The 2nd CASSINI Hackathon & Mentoring | 5-7 November

1 Hackathon

10 Locations around Europe

EU Space

Hybrid

Local

European

Global Themes

You?

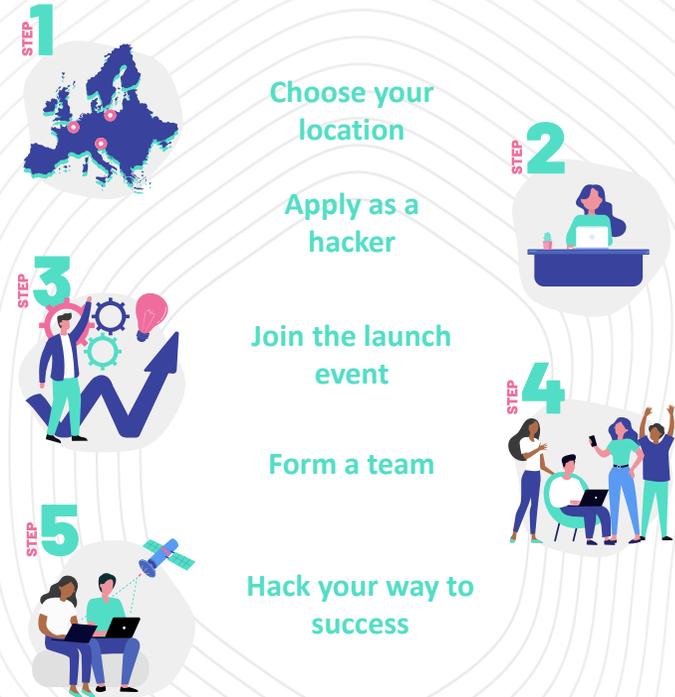
Connecting the Arctic

The second CASSINI hackathon challenges you to develop innovative solutions that supports the Arctic's future. The hackathon is open to anyone with a passion for entrepreneurship, nature, and EU space technologies and challenges them to use one or both of the following:

- 1) geospatial information from Copernicus Earth observation data and its services
- 2) positioning technologies from Galileo & EGNOS
- 3) Secure connectivity technologies to conceptualise solutions for the future.

No previous experience using space technologies, data, or signals? No problem! The hackathon has all the tools and training you need to succeed.

Applying is easy!



CASSINI
Hackathons & Mentoring



Why participate in the hackathon?

{ Code the future }

Draw on your unique skills to create solutions that solve critical problems that literally affect our future.

{ Put your skills to the test }

Roll up your sleeves and compete against fellow coders, creatives and business experts for your chance to win!

{ Expand you network }

Develop your understanding of Copernicus, Galileo & EGNOS with our tailor-made training and support, and learn to design for the future.

{ Discover EU Space }

Meet fellow hackers and experts from inside and outside the European space ecosystem. Gain experience networking and grow your connections.

{ Access expert knowledge }

Engage with our technical and business experts who will be on-hand throughout the event to help, advise and support you in reaching your goals.

{ Take home the prize }

Don't miss your chance to win prizes on a local and European level. Cash and mentoring opportunities are just two of the many prizes up for grabs!



Challenge #1: Safe passage at sea

Container ships, cruise liners and fishing trawlers are just some of the **many seafaring vessels that need to navigate safely in our oceans**. The Arctic presents an incredibly challenging environment for these journeys with the addition of sea ice and extreme temperatures. As climates around the world are impacted by our human behaviour, conditions in the Arctic continue to change, calling for adaptive measures. Rising temperatures indicate that future shipping lanes will soon appear in the Arctic, and they will require better connectivity and accurate positioning services.

This challenge calls on bold innovators to either **develop ideas or design products, devices or services** that ensure seafaring vessels have safe passage at sea. Leverage European space data, information and signals from secure connectivity infrastructures, Copernicus, Galileo and EGNOS to bring your concept to life. Participants may choose from the following solution areas:

- Navigation route optimisation
- Extreme weather and sea ice warnings
- Support for the development and connectivity of future shipping lanes
- Environmental disaster and emergency management



14 LIFE BELOW WATER



Encouraging the development of sustainable solutions that support safe passage at sea in the arctic will contribute to the United Nation's Sustainable Development Goal 14 to conserve and sustainably use the oceans, seas and marine resources for sustainable development.



Challenge #2: Life on land

Countries in the Arctic polar region experience seasonally varying snow and ice cover, as well as extreme cold-weather conditions. These countries, along with the people and plants that inhabit them, are particularly susceptible to the effects of climate change, such as rising air and water temperatures and melting sea ice. Several remote research stations are located in the region, and their occupants would greatly benefit from innovative connectivity and communication solutions.

This challenge calls on bold innovators to either **develop ideas or design products, devices or services** that improve our understanding of the effects of climate change in Scandinavia, Alaska, Russia and Canada, or to mitigate the impact of these changes. **Leverage European space data, information and signals from secure connectivity infrastructures, Copernicus, Galileo and EGNOS to bring your concept to life.** Choose from the following solution areas:

- Environmental monitoring & climate change mitigation
- Renewable energy exploration
- Environmental protection
- Improving connectivity (higher speeds and lower latency) for research stations in remote areas



Encouraging a better understanding of the impact of rising air and water temperatures in the arctic will contribute to the United Nation's Sustainable Development Goal 13 to take urgent action to combat climate change and its impacts.



Challenge #3: Caring for our wildlife

Wildlife in the Arctic includes many species of fish and marine mammals, birds and land animals. As human activity and industry look to expand throughout untapped areas of our planet, the natural habitats of these animals become threatened. Rising temperatures also endanger the lives of animals who call the ice their home and whose food comes from the surrounding areas.

This challenge calls on bold innovators to either **develop ideas or design products, devices or services** to better understand and protect wildlife in the Arctic. **Leverage European space data, information and signals from secure connectivity infrastructures, Copernicus, Galileo and EGNOS to bring your concept to life.** Choose from the following solution areas:

- Protecting marine biodiversity
- Understanding and forecasting migration routes
- Understanding and mitigating the effects of exploration and development on wildlife
- Understanding the effects of climate change on natural habitats



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



Understanding the impact exploration, development and climate change has on arctic wildlife will contribute to the United Nation's Sustainable Development Goal 12 to ensure sustainable consumption and production patterns and Sustainable Development Goal 13 to take urgent action to combat climate change and its impacts.



Connecting you with the EU Space programme

The EU Space programme consists of several flagship programmes including Europe's Earth observation, satellite navigation, secure communications and space situational awareness programmes. The 2nd CASSINI Hackathon challenges participants to use data and signals from Copernicus, Galileo & EGNOS.



Copernicus is the European Union's Earth observation programme, looking at our planet and its environment to benefit all European citizens. It offers information services that draw from satellite Earth Observation and in-situ (non-space) data.

copernicus.eu



Galileo is Europe's Global Navigation Satellite System (GNSS), providing improved positioning and timing information with significant positive implications for many European services and users.

euspa.europa.eu/european-space/galileo/What-Galileo



The European Geostationary Navigation Overlay Service (EGNOS) is Europe's regional satellite-based augmentation system (SBAS) that is used to improve the performance of global navigation satellite systems (GNSSs).

euspa.europa.eu/european-space/egn/what-egn



The EU Space programme continued

The CASSINI Hackathons & Mentoring will look to engage participants with secure communications and space situational awareness in future editions.

GOVSATCOM

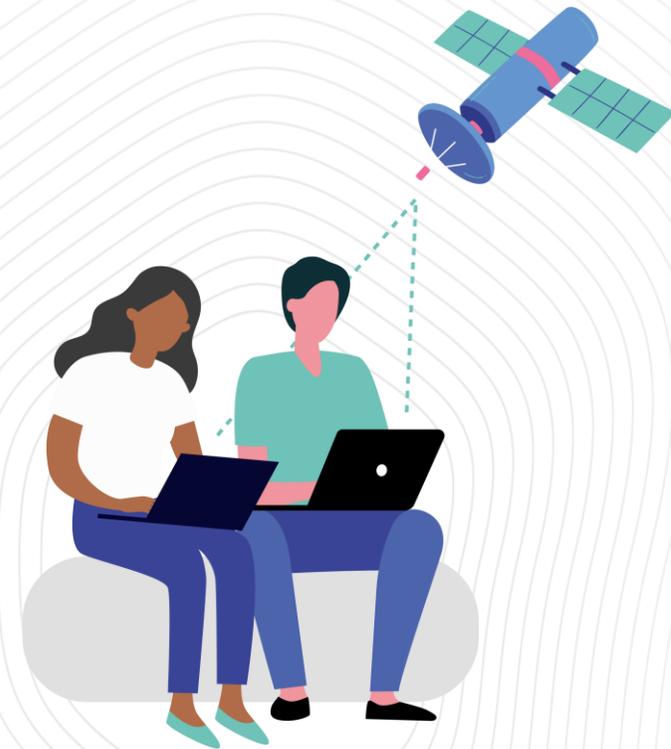
The European Union Governmental Satellite Communications (GOVSATCOM) programme provides secure and cost-efficient communications capabilities to security and safety critical missions.

euspa.europa.eu/european-space/govsatcom

EUSST

The Space Situational Awareness initiative will provide Europe and its citizens with complete and accurate information on objects orbiting Earth, on the space environment and on threats coming from space.

eusst.eu



CASSINI
Hackathons & Mentoring

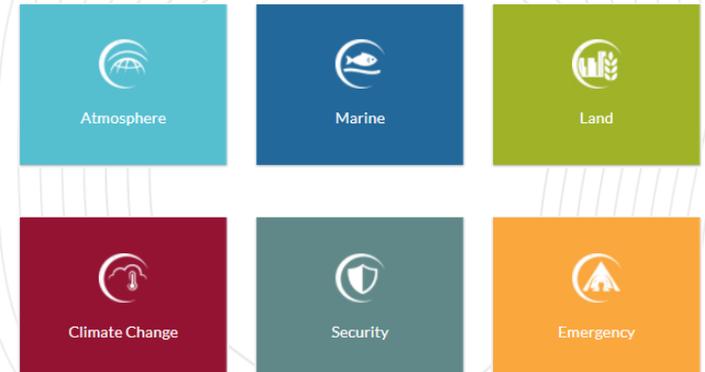


Spotlight on Copernicus data & information

Never worked with Copernicus Earth observation data & information? No problem!

We have put together some important resources to get you started:

- [What is the Copernicus programme?](#)
- [Overview of the programme](#)
- [Introducing the Copernicus Sentinel missions](#)
- [The Copernicus services](#)



Spotlight on Galileo & EGNOS

Just getting started using satellite positioning technologies? We have collected some important resources for you to get started:

- [What is Galileo?](#)
- [EGNOS and Galileo: Programme Reference Documents](#)
- [GNSS raw measurements white paper](#)
- [Database of GNSS raw measurements](#)
- [Glossary for GPS test](#)
- [GNSS market report](#)
- [Galileo-enabled devices](#)



All the tools you need to succeed!

As participants you have access to invaluable tools, training, and support to help you with your hacking. We provide everything you need, so you can give everything you got!



Data access

We want to minimise the time you need to spend processing data! That's why we're creating a dedicated data cube for each hackathon. The data cube contains pre-processed Copernicus data & information for a specific geographical region and time period with a focus on the hackathon theme at hand. Find the data cube on the DIAS platform supporting that edition.

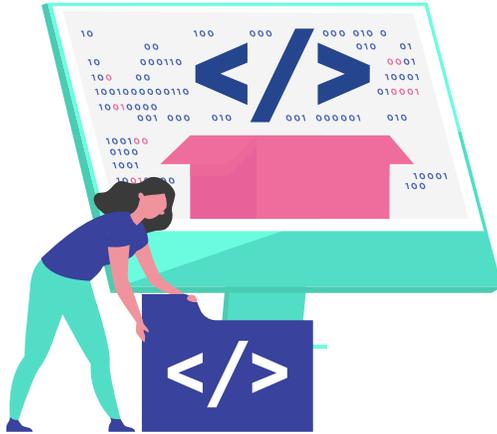
[Go to DIAS](#)

Cloud infrastructure

Access virtual storage and computational resources for the duration of the hackathon. The DIAS platform supporting each hackathon will enable you to discover and manipulate Copernicus data and information. You will also have all the processing power and storage you need to hack your way to success.



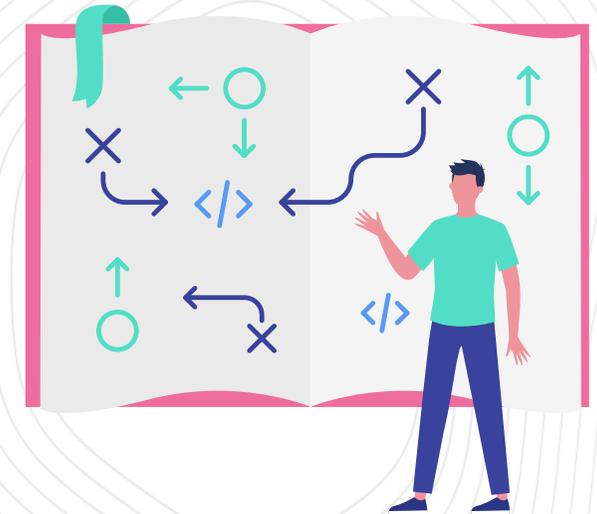
Some of our other tools...



Code repository

Still missing crucial data? We've got you! You will have access to our code repository for space-data sources. Hackers are invited to share their code with the CASSINI Hackathon community as open source on Github.

github.com



Playbook

New to hackathons? No problem. We've prepared two playbooks that will allow you to make the most of your first hackathon experience. Access helpful tips on how to face challenges, where to go if you need support, and what tools you'll be required to use throughout the event in the Participant Playbook. The Business Design Playbook guides you to discover, build and tap into business opportunities with your ideas.

[Business Design Playbook](#)

[Participant Playbook](#)



Looking for additional resources?

Here are a collection of publicly available trainings:



The Copernicus MOOC addresses 3 key topics:

- Chapter 1 - Understanding Copernicus data and services– what they are, and how they can be accessed and used
- Chapter 2 - Learning from success stories – understanding how existing Copernicus-enabled services and applications have been developed and deployed
- Chapter 3 - Doing it yourself – acquiring the key skills and knowledge to develop and deploy Copernicus-enabled products and services and to navigate the Copernicus ecosystem.

copernicus.eu/copernicus-mooc



Attend 14 on-demand training sessions that will steer the technical and business development of your Galileo-enabled IoT product.

In the first part of our Point.MOOC, you'll learn all about the basics of creating an IoT business by journeying through the customer problem, product concept design, business model creation and launching your product.

Not sure where to start with Galileo integration? The second part of Point.MOOC examines positioning in our connected world, and dives deep into Global Navigation Satellite Systems and the European system, Galileo.

point-iot.thinkific.com



Access 18 webinars about entrepreneurship in the space industry by Astropreneurs Training.

From the potential for space data and funding sources, through to pitching and business plans, a wealth of knowledge and expertise awaits.

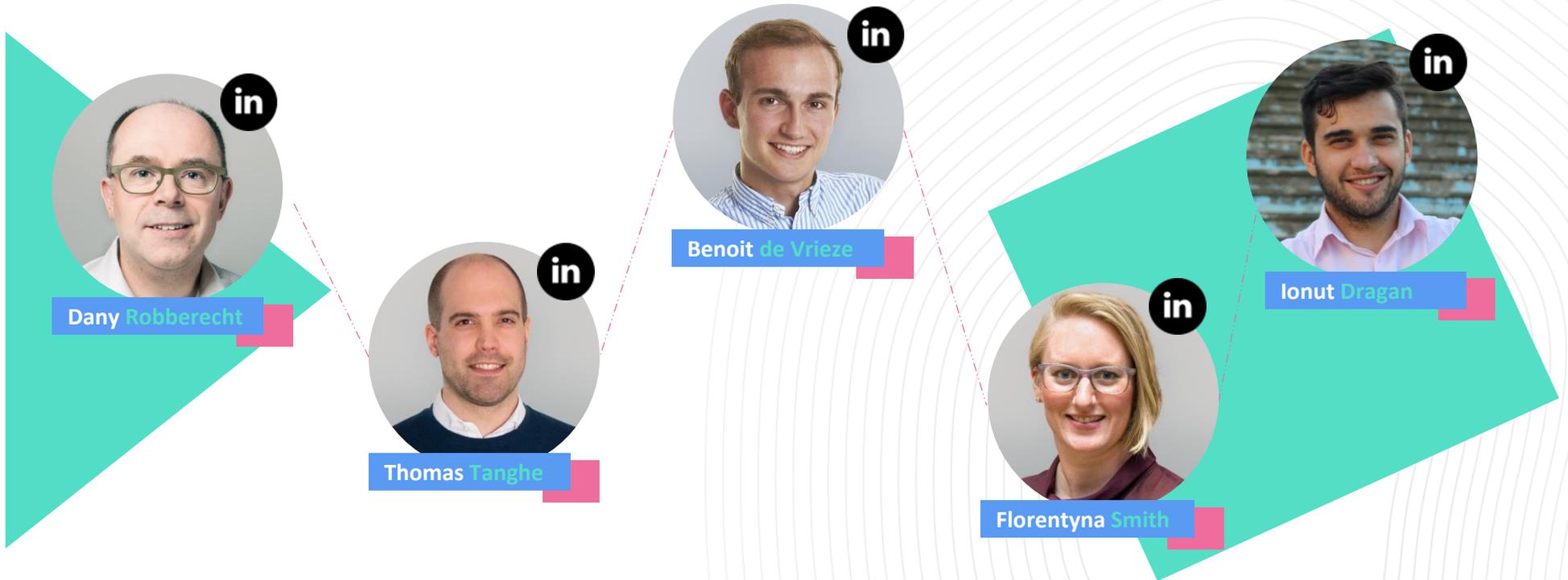
Astropreneurs is a three-month acceleration programme that includes business and technical mentorship, support to fund your business idea and access to our "SPACE Economy "Astropreneurs" network".

astropreneurs.eu/training



Meet the core team behind the hackathons & mentoring

Got questions? One of us will get back to you with the answer.

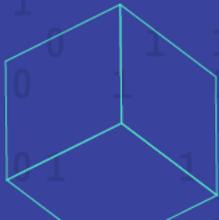
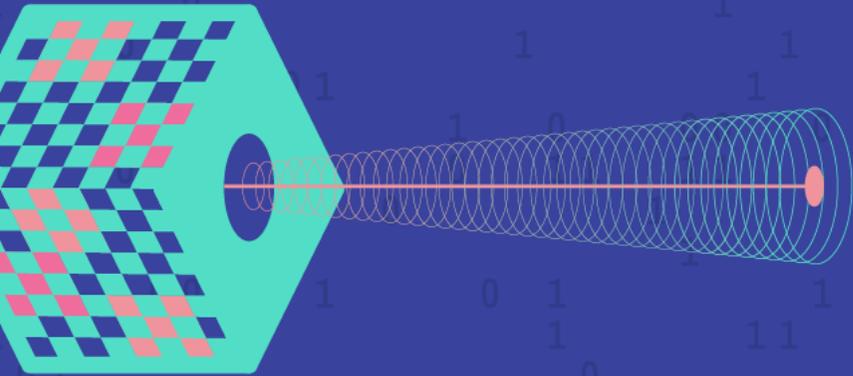


Reach us at: hello@hackathons.cassini.eu





CASSINI
Hackathons & Mentoring



The Hackathon

In this section, you will find all the information you need to participate in the hackathon.

The CASSINI Hackathon event

Hackathon activities are split across three main events:



1. **Big ideas campaign**

25th – 28th
Oct

2. **THE HACKATHON**
5th – 7th Nov

3. **Demo day + Awards**

10th Nov



CASSINI
Hackathons & Mentoring

Get involved as a participant

Ready to apply your skills and knowledge to solve global challenges & make a positive impact?

We are looking for determined hackers with a passion for developing sustainable solutions. No previous space experience is required. Just choose a challenge that interests you, and leverage EU space technologies to connect the Arctic! Follow this simple process to get involved:



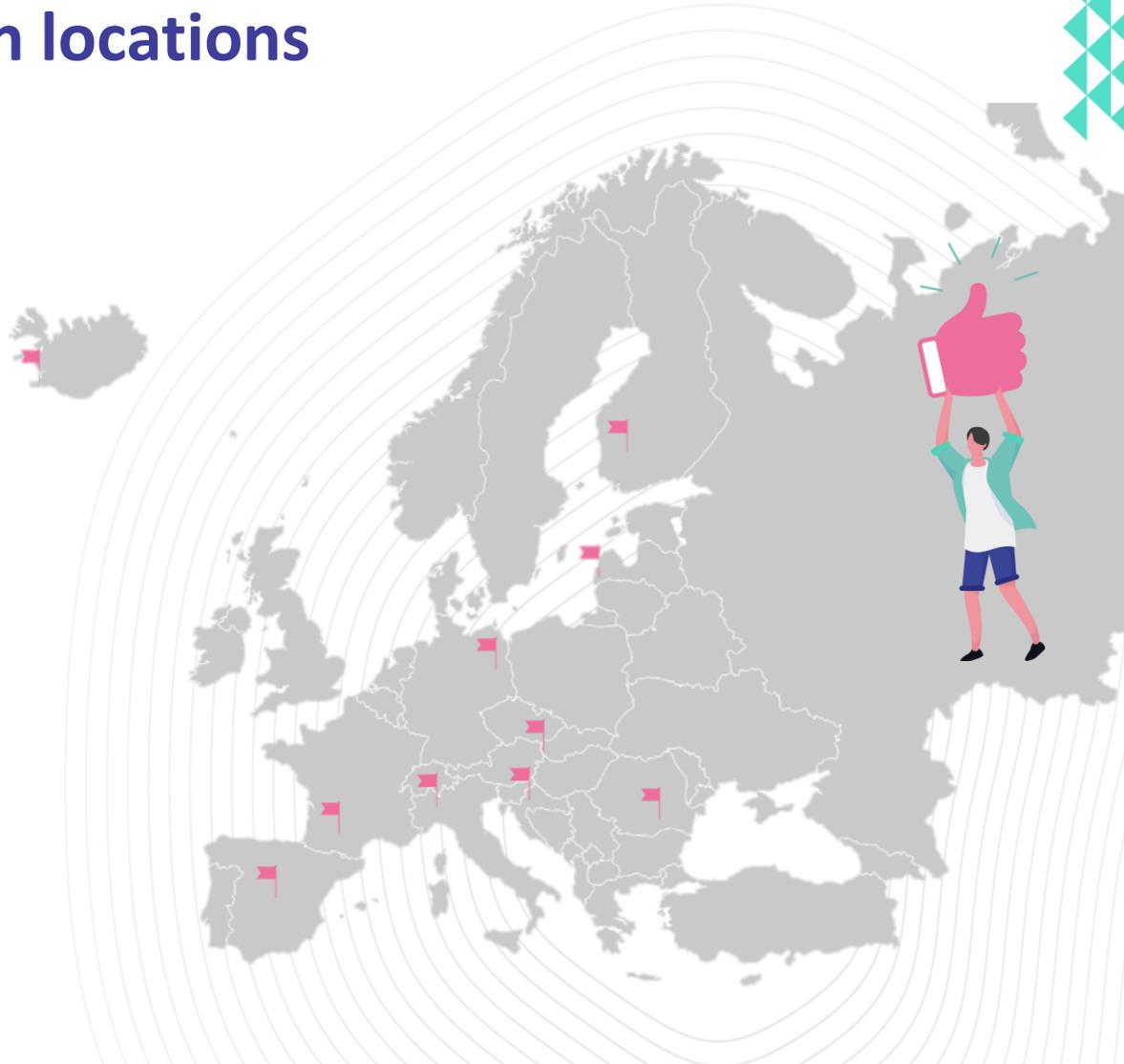
Discover the 10 hackathon locations

The 2nd CASSINI Hackathon takes place simultaneously in 10 different locations around Europe.

As a virtual participant, you can take part in any of the locations – it is up to you! You can choose from:

- [Croatia](#)
- [Finland](#)
- [France](#)
- [Germany](#)
- [Iceland](#)
- [Italy](#)
- [Latvia](#)
- [Romania](#)
- [Slovakia](#)
- [Spain](#)

Each location will look to connect the Arctic with a focus on the problems and challenges faced by their local ecosystems. They each have their own expert mentors and prizes as well!



CASSINI Hackathon Croatia Bok!



The Hackathon

In Zagreb the CASSINI Hackathon Croatia will be organised by INVENTO. This hackathon will be a hybrid event, so you can join in person or virtually!

As a local innovation ecosystem booster with 15 years in the game, the organisation has a strong focus on mentoring young Croatian entrepreneurs and encouraging new innovations.

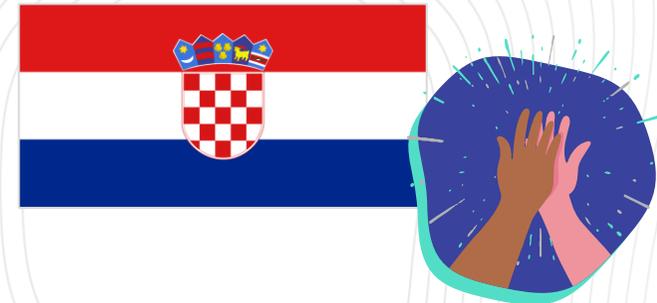
The Prizes

Incubation!

The Croatian Hackathon is an opportunity for likeminded professionals to meet and explore new ideas. The winning teams will be rewarded with incubation in the local BIRD accelerator and be gifted an annual license from the GDI Group.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/croatia





The Hackathon

In Tampere the CASSINI Hackathon Finland will be organised by Nordic Startup School. This hackathon will be a hybrid event, so you can join in person or virtually!

Nordic Startup School (NSS) is a startup ecosystem builder from the Nordics. As the hub for entrepreneurs, investors, and strategic industry experts, the organisation is bringing the best of the Nordics to the rest of the world.

The Prizes

Cash prizes

Winners of the CASSINI Hackathon Finland will receive:

- 1st place: €5,000 prize
- 2nd place: €2,000 prize
- 3rd place: €1,000 prize

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/finland





The Hackathon

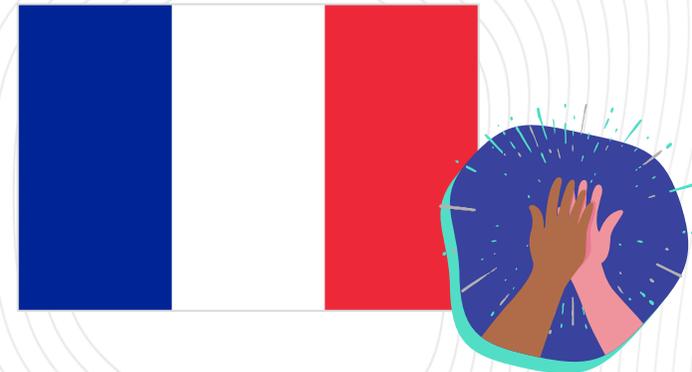
In Toulouse the CASSINI Hackathon France will be organised by Aerospace Valley. This hackathon will be a physical event, so you can join in person!

Aerospace Valley is one of the biggest European clusters dedicated to aeronautics and space. It is made up of 809 members from industry and research including 562 SMEs, large corporate groups in aerospace, the major aerospace research establishments, engineering schools and local authorities.

The Prizes

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/france



CASSINI Hackathon Germany Hello!



The Hackathon

In Berlin the CASSINI Hackathon Germany will be organised by N3XTCODER. This hackathon will be a hybrid event, so you can join in person or virtually!

N3XTCODER is an impact tech hub that helps both young and established companies to develop and scale sustainable and social digital solutions. N3XTCODER identifies and works with the best data-backed technology solutions and projects, providing them with the expertise and skills required to transform an idea into a disruptive digital product.

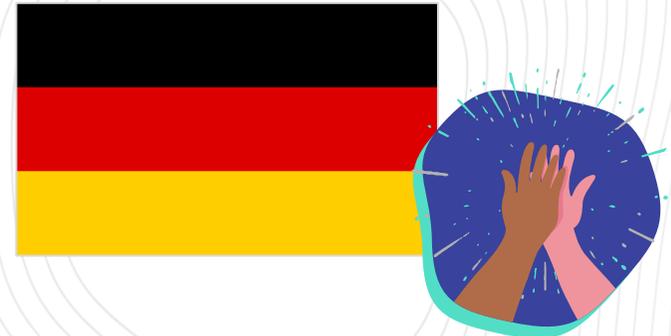
The Prizes

Boost your idea

The winning team at the German Hackathon will have the chance to further develop their idea with an intensive “Product Lab” with N3XTCODER and leading German partners in the tech/sustainability sectors.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/germany



CASSINI Hackathon

Iceland Halló!



Physical
event

The Hackathon

In Reykjavik the CASSINI Hackathon Iceland will be organised by Startup Iceland. This hackathon will be a physical event, so you can join in person!

Startup Iceland is a non-profit organisation that regularly hosts events related to entrepreneurship and innovation. The goal of Startup Iceland is to create a sustainable startup ecosystem that will nurture Icelandic companies for years to come.

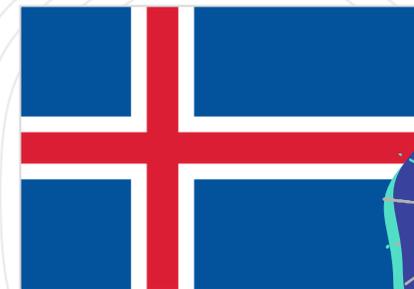
The Prizes

Win a share of €8,000!

- 1st place at the Icelandic Hackathon will win €5,000 and be featured on the 'Reykjavik Grapevine' Youtube channel.
- The 2nd and 3rd placed participants will win €2,000 and €1,000 respectively.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/iceland



CASSINI Hackathon

Italy
Ciao!



The Hackathon

In Lomazzo the CASSINI Hackathon Italy will be organised by ComoNExT. This hackathon will be a hybrid event, so you can join in person or virtually!

ComoNExT is a Digital Innovation Hub established in 2010 which now hosts more than 150 tenant businesses including many local startups. As an incubator, ComoNExT is certified by the Ministry of Economic Development and is a member of the SMACT Competence centre.

The Prizes

Valuable programmes

- 1st place wins a 3-month pre-incubation programme
- 2nd place wins a 3-day pre-incubation placement
- 3rd place wins a guided tour of the high-tech labs of the University of Insubria.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/italy



CASSINI
Hackathons & Mentoring



The Hackathon

In Riga the CASSINI Hackathon Latvia will be organised by Green Tech Cluster. This hackathon will be a hybrid event, so you can join in person or virtually!

Green and Smart Technology Cluster is a cooperation network made up of SMEs and the institutions of education, research and business support in Latvia. The organisation is the only cluster in Latvia where members can meet to discuss green mobility, renewable resources, energy efficiency, space technologies and other related topics.

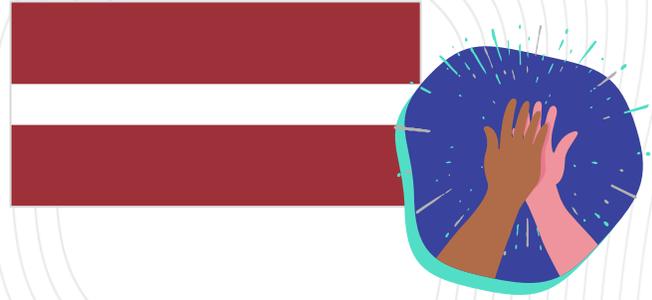
The Prizes

Founding for development

- 1st place at the Latvian Hackathon will win 1800 Euros for development and 200 Euros for marketing
- 2nd place will win 950 Euros for development and a 15-hour business development mentoring session
- 3rd place will win 750 Euros

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/latvia



CASSINI Hackathon Romania Salut!



The Hackathon

In Bucharest the CASSINI Hackathon Romania will be organised by idEA. This hackathon will be a hybrid event, so you can join in person or virtually!

IdEA is an organisation specialised in developing educational programmes, accelerators, incubators and offering funding advice.

The Prizes

Win up to €4,000

The top teams of the CASSINI Hackathon Romania will receive a total pool of €4,000 euro which includes cash and other benefits.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/romania



CASSINI Hackathon Slovakia Ahoj!



Physical
event

The Hackathon

The CASSINI Hackathon Slovakia will be organised by SARIO. This hackathon will be a physical event, so you can join in person! Choose one of the three locations: Bratislava, Zilina or Kosice.

The Slovak Space Office is a joint project of the Slovak Investment and Trade Development Agency and the Ministry of Education, Science, Research, and Sport of the Slovak Republic. SARIO is in charge of developing the Slovak space ecosystem and bilateral international cooperation.

The Prizes

Valuable programmes

- A night at Laboratory of Cosmic Physics
- 15h of business & technical mentoring
- An opportunity to pitch the idea in front of the Slovak VC community
- An opportunity to pitch the idea to the Slovak Space Incubator
- 3 years of free membership in Slovak Aerospace Cluster

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/slovakia



CASSINI Hackathon

Spain
iHola!



The Hackathon

In Madrid the CASSINI Hackathon Spain will be organised by BlueSpecs. This hackathon will be a hybrid event, so you can join in person or virtually!

BlueSpecs is a digital transformation agency helping organisations, both public and private, remain relevant in the digital era. Their main focuses are grass-roots entrepreneurship, start-up acceleration and advanced digital technologies.

The Prizes

Win a share of €1,500!

- 1st place at Spain's Hackathon will receive €1,000 for the best idea.
- 2nd place will receive a prize of 500 Euros.

A team chosen by Thales Alenia Space will receive mentoring from their experts, potentially leading to the development of a pilot within the company.

Mentoring

The top 3 teams across all hackathons will be awarded with an additional +100 hours of expert mentoring.



hackathons.cassini.eu/spain



Getting started with the WEkEO



The 2nd CASSINI Hackathon is supported by WEkEO, providing participants with free access to cloud processing infrastructure and data storage for the duration of the event.

For data processing, each team will have access to a Virtual Machine (VM) with the D-Light environment, including:

- 2 vCPUs
- 16GB RAM
- 500GB Block Storage
- 500 GB File Storage
- 500 GB Object Storage

Instructions on how to test the VMs and then set up your team's own VM will follow soon. But, to get started with WEkEO, we encourage you to review the following resources:

- [Introduction to the WEkEO DIAS](#)
- [Getting started with WEkEO](#)
- [WEkEO IT infrastructure](#)

wekeo.eu



The data cube: Copernicus Sentinel data

Below is an overview of the Copernicus Sentinel data and information that will be accessible in the data cube for the 2nd CASSINI Hackathon: Connecting the Arctic

Safe passage at sea

- Sentinel-1 imagery – summer 2015 and summer 2020

Life on land

- Sentinel-2 imagery – full year 2019 and 2020 (winter 2019-2020: high temperatures in southern Norway led to very low snow coverage, while the north saw a record amount of snow in spring 2020)

Caring for our wildlife

- Sentinel-1 imagery – summer 2015 and summer 2020
- Sentinel-2 imagery – full year 2019 and 2020 (winter 2019-2020: high temperatures in southern Norway led to very low snow coverage, while the north saw a record amount of snow in spring 2020)
- Sentinel-3 imagery – summer 2020

- **Sentinel-1** is frequently used for sea ice mapping, iceberg detection, and vessel detection. Selecting two different years will allow the participants to see the changes in sea ice coverage, while the within-year time series can be used for tracking sea ice drift, icebergs and vessels in the region.
- **Sentinel-2** is a versatile source of information – it can be used both for snow cover mapping in winter, and mapping of vegetation growth in summer. Snow cover information is useful for determining the impact on hydropower generation in spring time, while vegetation mapping can assist in finding optimal locations for reindeer herding during summer.
- **Sentinel-3** imagery provides insights into algal blooms, to help map marine areas with potential harmful blooms, or where marine food is abundant.



The data cube – Copernicus services

Copernicus Land Monitoring Service:

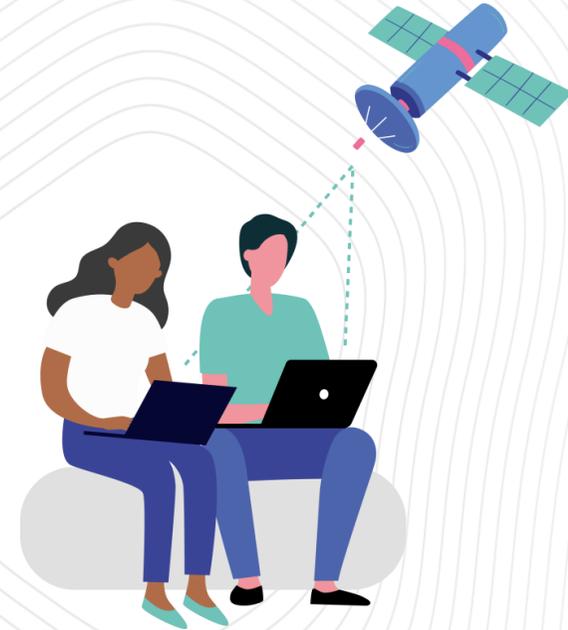
- High Resolution Snow & Ice monitoring as a reference dataset for snow and ice parameters
- Global Snow Water Equivalent, needed for estimating meltwater runoff in spring for hydro-energy companies
- Global Lake ice and Snow cover extent as a low-resolution reference dataset

Copernicus Climate Change Service:

- Global temperature records
- Climate and energy indicators
- Projections of Arctic sea ice extent, as well as past sea ice extent
- Wave height and wind speed records
- Surface radiation budget for estimating the impact of climate change on the Arctic

Copernicus Marine Environment Monitoring Service:

- Arctic ocean physics, sea ice, ocean waves and tides, biogeochemistry analysis and forecast
- Near-Real-Time in situ data for the Arctic



Get precise location data with JASON

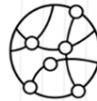


The 2nd CASSINI Hackathon is supported by JASON, a cloud GNSS processing service by Rokubun, providing participants with accurate location/navigation results immediately.

[JASON](#) is a GNSS post-processing cloud service to get accurate location at affordable cost. It is a fully automatic Post Process Kinematic (PPK) processing engine such that users are delivered precise location/navigation results in few clicks.

J A S O N

JASON key features



Automatic PPK, JASON fetches the nearest GNSS base station



Automatically match your camera events



Up to centrimetic accuracy



Use our API to automate your campaign data processing workflow



CASSINI
Hackathons & Mentoring

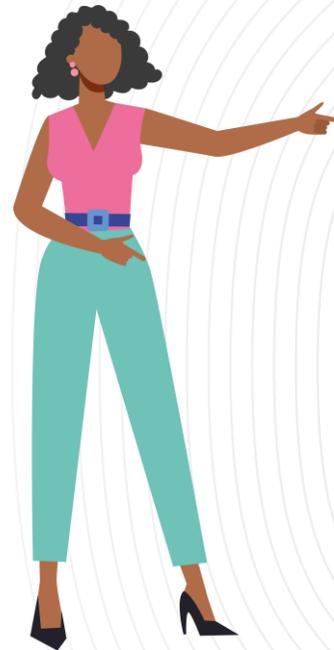


Accessing JASON by Rokubun

Participants of the CASSINI Hackathons & Mentoring have access to the 14-day free trial of JASON. After the 14 days, you will continue to have access on a pay-per-use basis. [You can see the full pricing options here.](#)

For that reason, we recommend that you sign up after the 25th October in order to have access to the full suite of features during the hackathon.

As users of JASON, you will have access to the standard support team via: support@rokubun.cat. There will also be access to a dedicated CASSINI Hackathon support session on Saturday 6th November, during the hackathon.



Learn more about JASON:

- [How to use JASON](#)
- [How to improve accuracy](#)
- [Features](#)
- [Coverage](#)
- [FAQs](#)
- [Documentation](#)

R O K U B U N



Big Ideas Campaign

The Big Ideas Campaign is a series of evening events between 25 - 28 October filled with exciting and invaluable sessions intended to get you warmed up for the hackathon weekend! Join the campaign and take advantage of the benefits!

Training

Learn about EU space technology, Copernicus, Galileo & EGNOS. We'll make sure you are equipped with the knowledge and tools to succeed during the hackathon.

Inspiration

Get inspired by our success stories, past winners and training sessions we prepared so you can make a difference in the Arctic!

Networking

Take advantage of the Pan-European network and engage the community!



What's in store: the Big Ideas Campaign agenda

During the week of the Big Ideas Campaign, you'll have access to several info and training sessions, together with workshops and interesting keynotes.

In addition, you can access sessions led by the local organisers with interesting and insightful topics related to space technologies, business expertise and the Arctic.

Oct 25
Monday

17:00 CEST

Launch session!

Welcome to the 2nd CASSINI Hackathon.

Learn about the hackathon, the Arctic and hear from inspiring entrepreneurs using EU Space technologies.

19:10 CEST - Iceland

Preventing soil erosion with space data

19:30 CEST - Iceland

Challenges facing 'safe passage at sea

19:50 CEST - Iceland

Challenges facing our 'wildlife'

Oct 26
Tuesday

17:00 CEST

Copernicus & WEKEO

Learn about the use of the DIAS platform, the data storage and cloud computing

18:00 CEST

An arctic deep dive

18:00 CEST - France

Copernicus data and services for the Arctic

18:00 CEST - Slovakia

Success stories in EO

Oct 27
Wednesday

17:00 CEST

The challenges & data collide

18:00 CEST

Introduction to satellite communications

18:00 CEST - France

How to build a business plan

18:00 CEST - Latvia

The applications of Copernicus data

18:00 CEST - Romania

Space, technology & research

Oct 28
Thursday

17:00 CEST

Introduction to Galileo & EGNOS

18:00 CEST

Introduction to JASON

18:00 CEST - Latvia

Use of satellite data in business



Get to know the hackathon rules

- No development may start before the actual date and time of the Hackathon Weekend. Please do not begin hacking before Friday 5 November 2021 at 20:30 CEST.
- To ensure a level field for all contestants, all code must be created by the team, during the Hackathon Weekend.
- You are permitted to use publicly available or openly licensed APIs, SDKs, frameworks and other software libraries for your project.
- Any software development tools and/or programming language can be used.
- Teams that violate these rules will be automatically disqualified.

For full information about participating the CASSINI Hackathons, read the [Terms & Conditions](#)



Participating in the virtual hackathon

Register on our website: hackathons.cassini.eu/#apply then engage with us across the following platforms:

Hackathon platform

Want to register as a participant? Great! Head to the hackathon platform, register, and join/form a team.

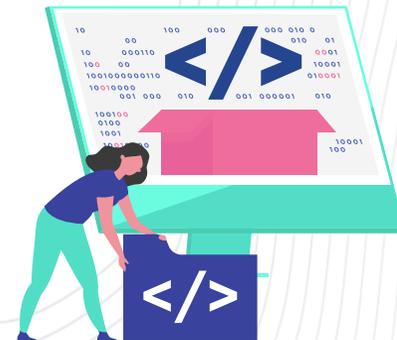
taikai.network/en/cassinihackathons/challenges/connectingtheartctic

TAIKAI

Community platform

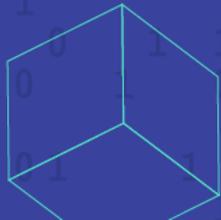
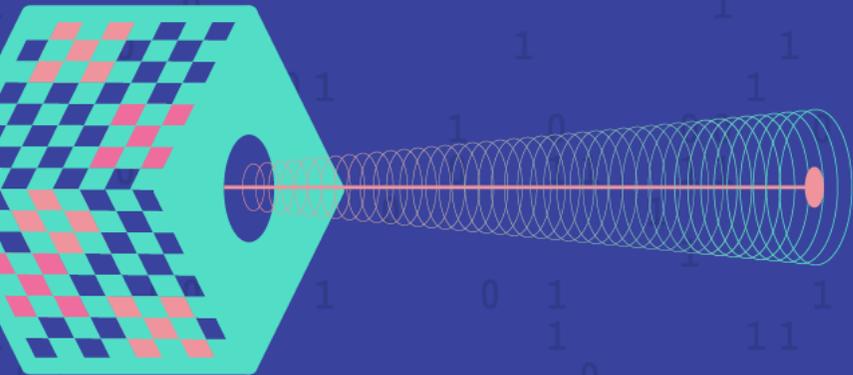
Keep up to date with the latest hackathon information, find team mates and ask questions on our community platform.

discord.gg/cassinihackathons





CASSINI
Hackathons & Mentoring



Mentoring Programme

In this section, you will learn about the mentoring programme available to the top 3 teams selected in the hackathon.

Each winner has access to 100 hours of mentoring

Three winning teams can benefit from 100 hours of mentoring spread across the six months following the event.

How does it work?



Each team will have a lead mentor who will guide them through the mentoring programme.



The lead mentor will connect the teams with different expert mentors who are available in 5-hour blocks.



Teams will monitor their progress over the six months on their path to creating a sustainable and commercially viable solution!



Meet some of our mentors

The overall winners of the hackathon will have the opportunity to match with their ideal mentors. Our mentors' backgrounds range from product development, Earth observation and GNSS through business development, marketing, design and more.



Carlos Bello Marcos
INNOVA4EU



Dimitris Matsakis
P.L.A.N.



Dr. Johanna Braun
Owner, Innovation, Venture &
Sustainability Advisory



Dennis Kibirev
Mesh Ai, FrontierFunder



Floriano Bonfigli
AC75



Pablo Garrido
EIT Urban Mobility



Alexandre Mencik
Space Platform



Pedro Branco
Virtual Angle B.V.





CASSINI
Hackathons & Mentoring

Thank you

