CASSINI #EUSpace
Hackathons & Mentoring

10th CASSINI HACKATHON

EU SPACE FOR CONSUMER EXPERIENCE

7-9 NOVEMBER 2025

Participant Briefing

N3XTCODER

Greetings from N3XTCODER

Dear Participants,

We are delighted that you will join us this weekend and are pleased to show you the lineup of sessions, experts and jury members who volunteer their valuable time and expertise to facilitate the 10th CASSINI Hackathon Germany, themed “EU Space for Consumer Experience”.

We are happy to see that you come from such diverse fields, from geodata science, AI and software engineering to the gaming industry, the tourism or sports sector and so on. This perfectly fits the interdisciplinary idea of the hackathon!

This briefing document is designed to help us collaborate seamlessly during the hackathon weekend. Please read through it carefully and don’t hesitate to contact us with any questions.

About the Hackathon Event in Berlin

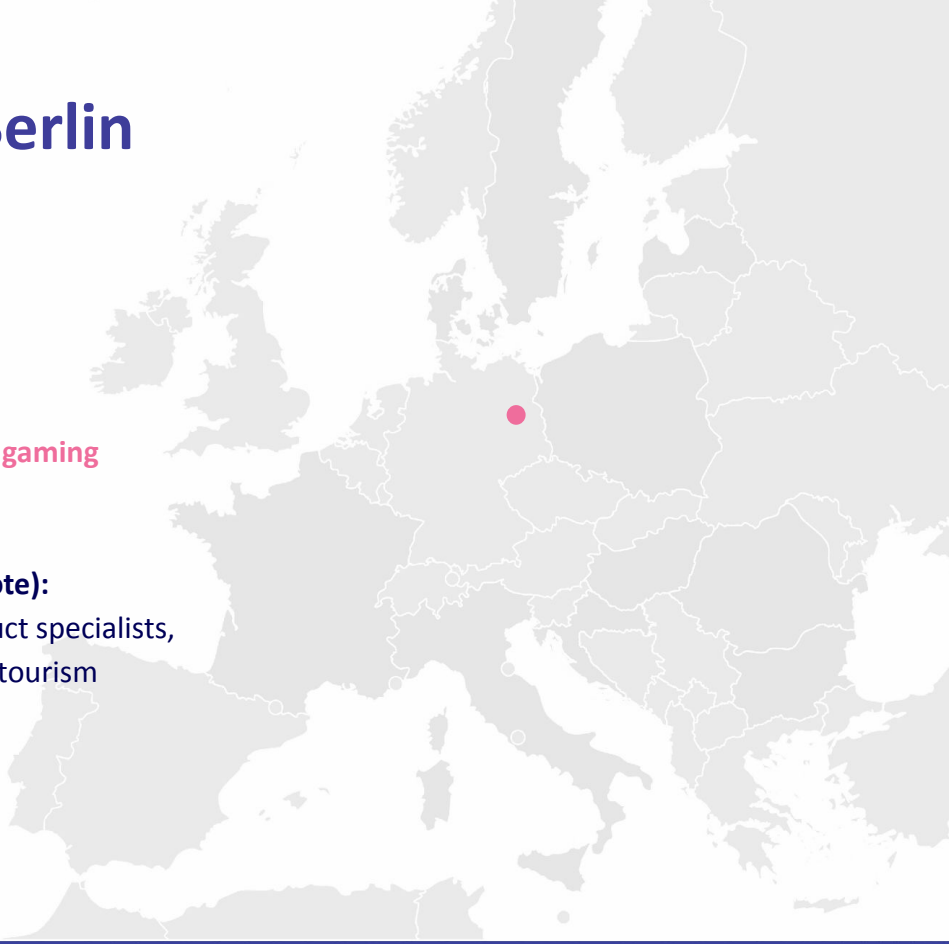
When: 7th – 9th November 2025

What: **EU Space for Consumer Experience**

Where: At 42 Berlin in Berlin, Harzer Str. 42, 12059 Berlin

Objective: Find the most innovative applications of **space data** for **consumer experience** and **explore its potential for the gaming world, sports and the tourism industry**

Participants: **1000+ across Europe, 100+ in Germany (onsite & remote):** Data scientists, AI and software engineers, digital product specialists, entrepreneurs, students as well as gaming, sports, and tourism experts



Agenda

Friday, November 7

17:00 - 17:45	**Welcome Desk is Open:** Meet and greet for participants, networking with drinks and snacks
17:45 - 18:00	**Local Kick-off at 42 Berlin: Quick check-in before the opening from Central Hub with N3XTCODER**
18:00 - 19:00	**Central Hackathon Kick-off:** Welcome from the Central Hub by European Commission and organisers. A look ahead to the weekend
19:00 - 20:00	**Local Panel:** Panel discussion with • Jamie Perera (Artist in the field of Geodata) • Manouchehr Shamsrizi Associate Fellow, Zentrum für Geopolitik, Geoökonomie und Technologie der DGAP • Clara Fischer N3XTCODER • Norman Volkmann (Digitales & IT bei visitBerlin (Berlin Tourismus & Kongress GmbH) • Moderation: Leonhard Nima N3XTCODER
20:00 - 21:30	**Local Matching and Ideation Session:** The teams form and start to hack!

Saturday, November 8

09:00 - 09:30	**Welcome Desk is Open**
09:30 - 09:35	**Central Kick-off Session:** What's ahead
09:35 - 09:45	**Local Check-in:** Agenda, local experts and teams present themselves
10:00 - 13:00	**Working Session**
10:00 - 11:00	**Central Workshop #1:** Needs Analysis (Optional)
13:00 - 14:00	**Lunch break**
14:00 - 18:00	**Working Session**
15:00 - 16:00	**Central Workshop #2:** Product /Service (Optional)
16:00 - 17:00	**Central Workshop #3:** Pitching (Optional)
18:00 - 19:00	**Dinner**
19:00 - 19:15	**Central Round-up of the Day**
19:15 - 19:45	**Local Check-out**
19:45 - 21:30	**Working Session**

Sunday, November 9

09:30 - 10:00	**Welcome Desk is Open**
10:00 - 10:10	**Central Kick-off Session:** What's ahead
10:10 - 10:20	**Local Check-in:** Agenda, Submission Rules
10:20 - 14:30	**Working Session**
10:20 - 10:50	**Central Workshop #4:** Roadmap Building (Optional)
10:50 - 11:20	**Central Workshop #5:** Business Modelling (Optional)
12:30 - 14:00	Lunch available
13:30 - 14:00	**Local Submission:** Check & submit
14:00	⚠️ **Submission Deadline** ⚠️
15:00 - 17:00	**Local Pitches**
17:00 - 17:30	**Break**
17:30 - 18:00	**Local Winner Announcement**
18:00 - 19:30	**Central Winner Announcement**

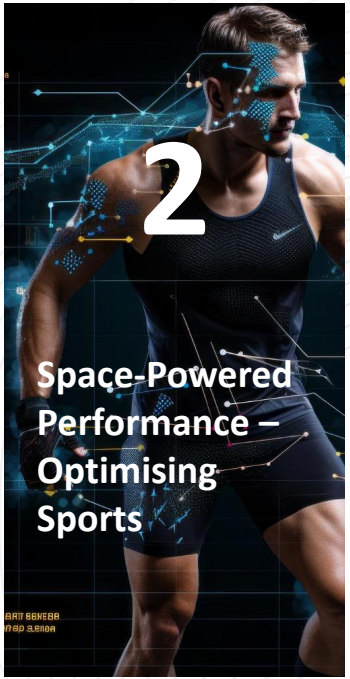
Challenges and Projects

On the following slides you will find an introduction of the hackathon challenges and the projects

Overview of Hackathon Challenges

During the course of the hackathon event and the following mentorship period, **participants, experts and other stakeholders** are encouraged to develop solutions in three main subject areas.

Leveraging EU space data, and other technologies, such as AI models and machine learning, the **interdisciplinary teams** matched for the hackathon based on interest and skill settle on one the challenges, develop a solution and present it to the expert jury. Winning teams can pitch on an EU-wide level to gain **further prizes and acceleration**.



Challenge #1: Immersive Gameplay with Space Technology and Data

Unleash the potential of space technologies to revolutionise the gaming world. Use cutting-edge space assets, such as **Copernicus Earth observation data, Galileo positioning services, and satellite connectivity to create immersive, thrilling, or science-driven gaming experiences**.

Design a **detailed game concept that leverages one or more of these assets**: Copernicus for realistic terrain, weather patterns, or environmental monitoring; Galileo for precise positioning and navigation in dynamic gameplay; or satellite connectivity for real-time updates or enhanced multiplayer scenarios.

Develop **core gameplay mechanics that creatively integrate these technologies**, explaining how players will interact with features like resource management, exploration, or real-time event responses to deliver an engaging experience that blends strategy, science, and adventure.

SUSTAINABLE DEVELOPMENT GOALS

Challenge #2: Space-Powered Performance – Transforming Sports

Leverage EU space technology and data to push the boundaries of sports performance and fan engagement. **Use space technologies such as Galileo, Copernicus Earth observation data, and satellite connectivity to improve athlete training, enhance audience experiences, and optimise real-time sports analytics and insights.**

Design a detailed concept that demonstrates how space assets can be applied to:

- **Sports performance:** Utilise GNSS for precise athlete tracking and analytics with wearable technologies, or satellite imagery to create training plans that consider terrain, weather, and elevation in real time.

- **Fan engagement:** Develop immersive AR applications that use live satellite data to enhance extreme sports experiences, visualising stats such as altitude, wind speed, and location.

Show how space innovation can redefine the playing field by **creating solutions that are data-driven, impactful, and engaging**.

Challenge #3: Beyond Horizons – Redefining Travel with Space Innovation

Use space technologies to transform how we explore and experience the world. **Leverage assets such as satellite navigation, Copernicus Earth observation data, or climate monitoring tools to create solutions that promote sustainable tourism, interactive travel experiences, and personalised adventures.** Bring travellers closer to Earth's beauty while supporting environmental preservation.

Your solution should focus on:

- **Leveraging satellite imagery, Galileo positioning, or Copernicus data** to enhance personalised and safer travel experiences.
- Promoting **sustainable and environmentally conscious exploration.**
- Creating immersive or interactive travel **solutions that connect people to the planet in innovative ways.**
- Enabling **travel providers** to enhance their services to craft unforgettable, eco-conscious journeys.

Meet the Projects

#1 - Community Champs

An immersive AR game using space tech where kids complete real-world sustainability missions, connect globally, create impact and become changemakers in their communities.

#2 - Core Conservative

Everybody is conservative. Nobody wants to see everything changed in the morning after waking up. But live is change. Core Conservative will visualize what is important, what has to change to keep it.

Meet the Projects

#3 - Identifying Social Sports Spaces & Potential New Spots

In many areas, sports fields and play spaces are poorly mapped, under-maintained, or simply unknown. People want to be more active and connected. Let's map and identify new spots for everyone!

#4 - Race_Publica

AI + EU-space data for smarter, greener waterways — tokenised rewards for eco-optimized routes.

Meet the Projects

#5 - re_patterning : art data polycrisis

Re-knowledging land, sea and space data to explore our planetary boundaries - we need artists, researchers, hackers, technologists, futurists, rewilders, sense makers, and anyone curious.

#6 - Smart Waterways Berlin I

Harness satellite data to make the use of Berlin's waterways smarter, ecosystem-friendly and more sustainable. Join the mission to protect our water ecosystem while keeping it a vibrant destination!

Meet the Projects

#7 - Smart Waterways Berlin II

The Smart Waterways Berlin Challenge II invites participants to use satellite data to spot where conflicts are caused by water traffic and design smarter, data-driven management tools.

#8 - Stockartist

This is an online trading game in the form of the first web3 art world/art market simulator and artists' stock exchange market.

Meet the Projects

#9 - ApexSafe

Intelligent trail running safety powered by ESA satellites and AI. Real-time risk analysis detects hidden dangers along your route before they become problems. Stay safe in challenging terrain.

#10 - Are You a True Magellan

Link your travel history with the right travel destination - keeping your preference and liking with reduced carbon footprint.

Meet the Projects

#11 - TerraVoyager

TerraVoyager is a smart travel app that uses EU space data from Copernicus and Galileo to help travellers explore the world safely and sustainably. It offers personalized route suggestions realtime.

#12 - re:publica Challenge

To be defined…

Meet the Projects

#13 - Skyforge

Forge the skies. Shape the storms. A real-time strategy and simulation game that shows how human actions reshape the weather.

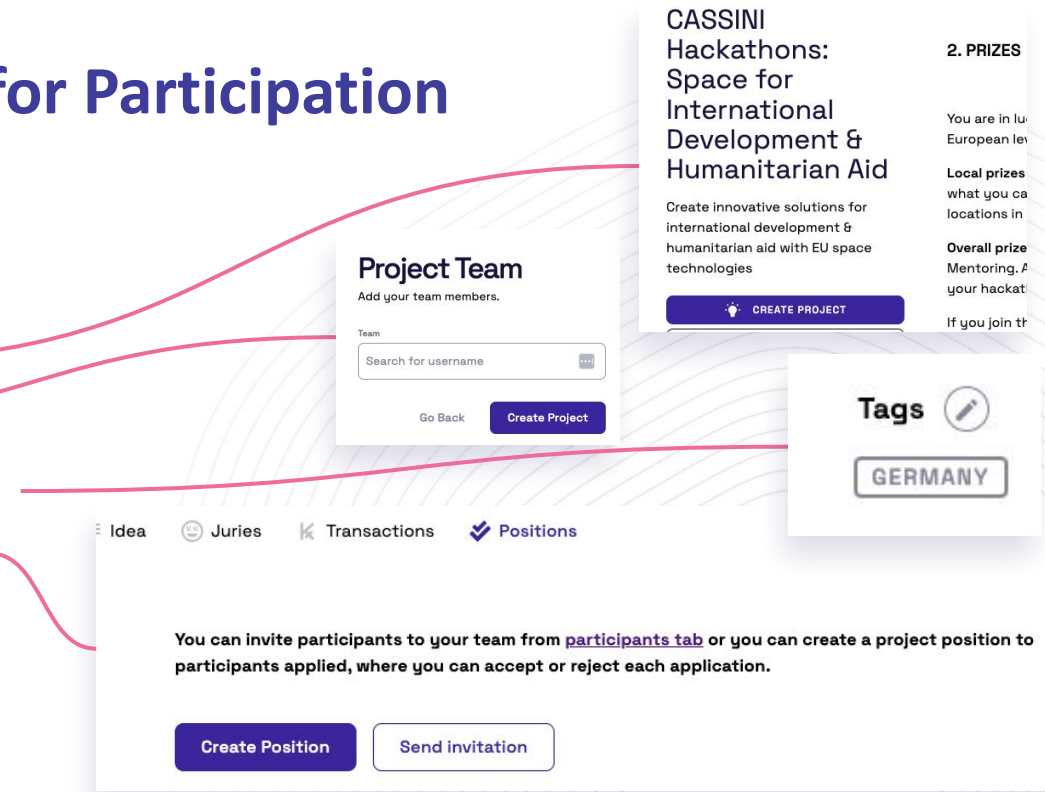
Do you have a project that isn't listed here? Let us know!

Important Milestones for Participation

If you are a project owner

🚀 Let us know about your project ASAP!

1. Publish your project on Taikai
2. Add team members
3. Ensure the 'Germany' location tag is selected
4. Create open positions or send invitations
5. Go on the Participants tab Filter for Germany
6. Send a message to anyone you'd like to include (you can also directly invite team members by sending them an invitation link)



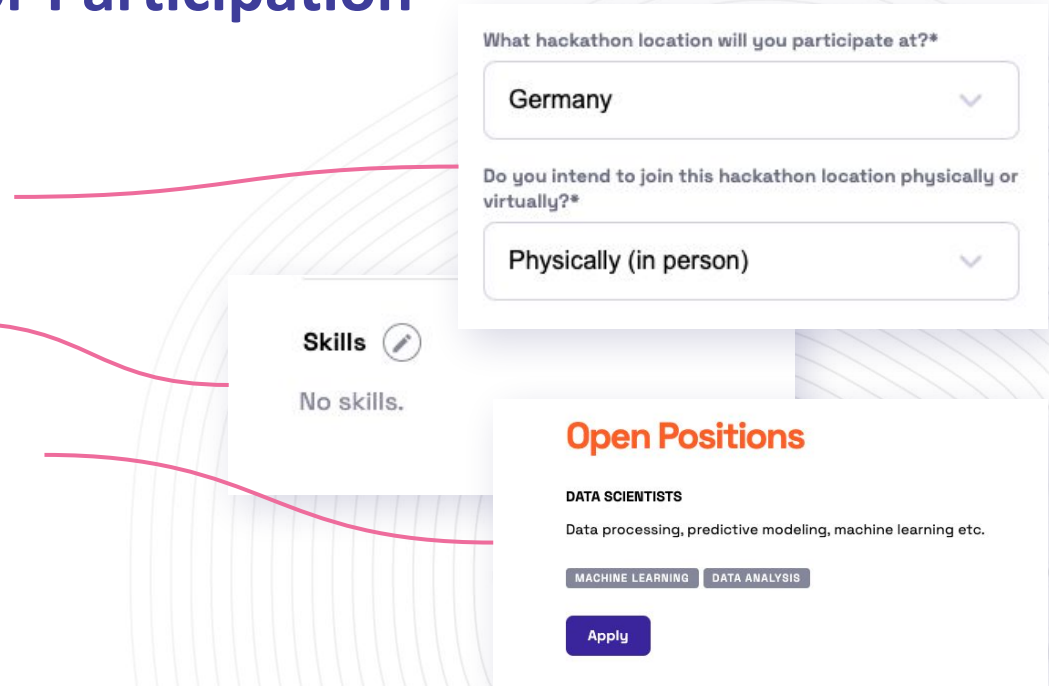
You can find instruction videos on our website

Important Milestones for Participation

If you are a participant

🚀 Ensure that your registration includes Germany as your location

1. Complete your profile! Most importantly add your skills so project owners can find you
2. Go into the Projects tab. Filter for Germany
3. Check for open positions. Apply by messaging the owner
4. Join Discord. Send a message about yourself and your skills on #find-a-team or #germany-general



You can find instruction videos on our website

Meet our Jury and Experts

Familiarize yourself with the experts and jury members so you can recognize each other at the venue.

Meet our Jury

Jamie Perera

Jamie Perera is an Asian mixed heritage composer, sound artist and producer from East London. His work is inspired by transformation in the Anthropocene, with themes that juxtapose nature, people, places and timescales. He combines electronic production and contemporary orchestration with field recordings, data, and video.

LinkedIn

Rebecca Krum

Head of Marketing & Communication bei re:publica

LinkedIn

Norman Volkmann

Digitales & IT bei visitBerlin
(Berlin Tourismus & Kongress GmbH)

LinkedIn

Florian Jaksch

Associated Partner at SDG Investment

LinkedIn

Meet our Experts

Patrick von der Heyde
Product & Operations
N3XTCODER

Thomas Preiss
Co-Founder
Common Goal

Mascha Dittmer
Product Owner
Code-B

Jonas Wegener
AI Expert, Communication Strategist
N3XTCODER

Jonathan Moore
Co-Founder, CTO
N3XTCODER

Huy Do Duc
Software Developer
Interactive Scape

Vitalik Kotick
Co-Founder
Superapp

Leonhard Nima
Founder
Studio Nima

Clara Fischer
Founder
Voice of Tech

Laura Borel
AI Enablement Consultant
N3XTCODER

Aleksandra Zinoveva
Full-Stack Developer
N3XTCODER

Manouchehr Shamsrizi
Associate Fellow
Deutsche Gesellschaft für Auswärtige Politik

Overview of EU Space programme and resources

On the following slides you will find additional information and resources on EU Space data provided by the Cassini team.

You can also access the tools here.

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 hackathon challenges participants to use data and signals from Copernicus, Galileo & EGNOS or future services using IRIS2.

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.

More information

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

More information

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).

More information

The EU Space programme continued

The EU Space programme consists of several flagship programmes including Europe's Earth observation, satellite navigation, secure communications and space situational awareness programmes. The hackathon challenges participants to use data and signals from Copernicus, Galileo & EGNOS or future services using IRIS2.

GOVSATCOM

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

More information

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.

More information

IRIS 2

The IRIS2 Satellite Constellation will offer enhanced communication capacities to governmental users and businesses, while ensuring high- speed internet broadband to cope with connectivity dead zones.

More information

Spotlight on Copernicus data & information

Never worked with **Copernicus Earth observation data**? No problem!
We have put together some important resources to get you started:

Copernicus
Europe's eyes on Earth

[What is the Copernicus programme?]

[Overview of the programme]

[The Copernicus services]

[Copernicus Data Space Ecosystem]

[The Copernicus Browser]

Spotlight on Galileo & EGNOS

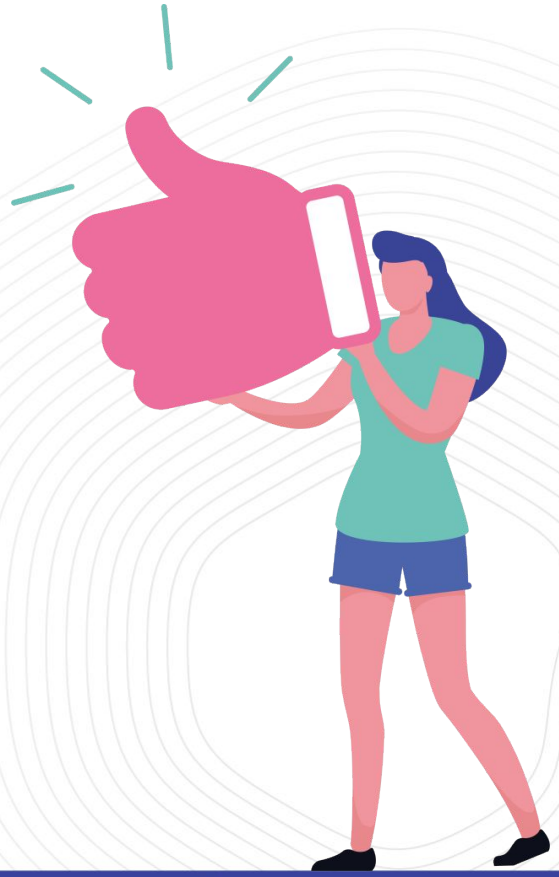
Just getting started using satellite positioning technologies?
We have collected some important resources for you to get started:

[What is Galileo?]

[What is EGNOS?]

[Galileo-enabled devices]

[EO & GNSS Market Report]



Some of our other tools…

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.

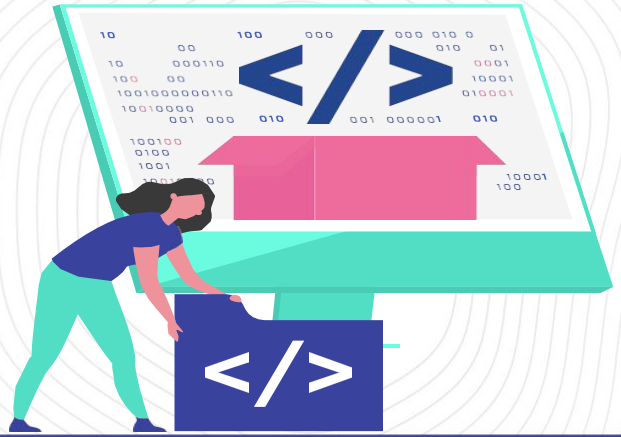
Business Design Playbook

Participant Playbook

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



Criteria for Winners, Outreach Package and Code of Conduct

Check out the winning criteria to advise the projects best, see our outreach package to advertise the event on social media and in your personal network and finally please read through the code of conduct.

Selecting the winners

Teams participating in the hackathon will be evaluated based on the same evaluation criteria that will be used at the overall Demo Day. These criteria are as follows:

Relevance:

- Link with the hackathon's challenges
- Usage of EU space data and signals

Quality of the team

- Technical expertise
- Business expertise
- Commitment to the project
- Pitch quality

Innovativeness

- Customer problem identification
- Value creation
- Technical inventiveness
- Business viability

Prizes

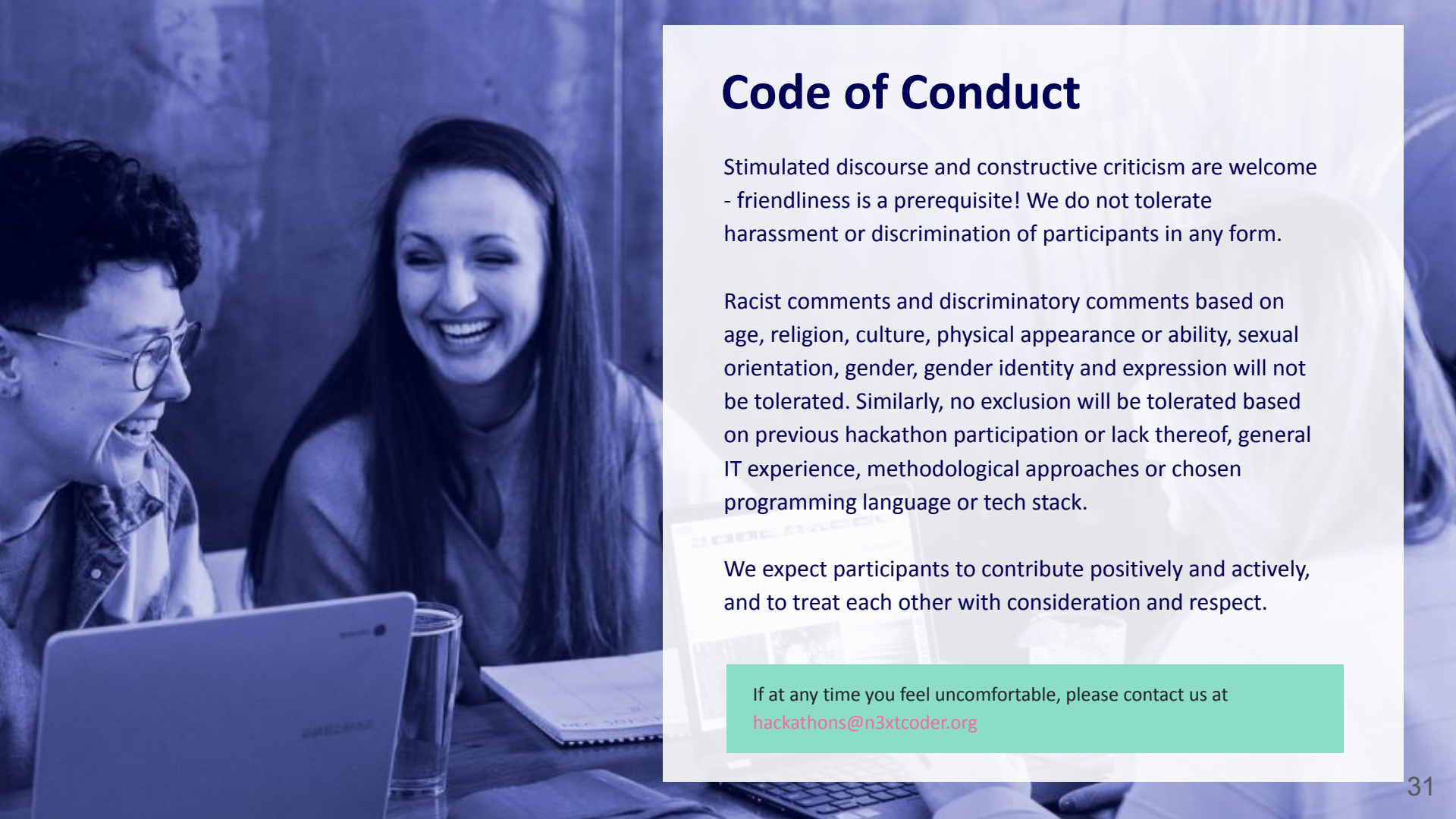
Local prizes will include:

- 1st place: 1.000 €
- 2nd place: 500 €
- 3rd place: 300 €

The prizes are kindly sponsored by our partner Visit Berlin.

Additionally:

- A Product Lab with our N3XTCODER AI, data and business experts (with experience in over 150 AI projects) and Mentoring from our Partner 42 Berlin worth 5000 €
- 5 tickets to re:publica (18.-20. May 2026) valued at 1.795 € sponsored by re:publica
- Beyond that, the first-place team will advance to the international stage, competing against winners from nine other hackathon locations for cash prizes of up to 9,000 € (1st: 5,000 €, 2nd: 3,000 €, 3rd: 1,000 €) and six months of mentoring.



Code of Conduct

Stimulated discourse and constructive criticism are welcome - friendliness is a prerequisite! We do not tolerate harassment or discrimination of participants in any form.

Racist comments and discriminatory comments based on age, religion, culture, physical appearance or ability, sexual orientation, gender, gender identity and expression will not be tolerated. Similarly, no exclusion will be tolerated based on previous hackathon participation or lack thereof, general IT experience, methodological approaches or chosen programming language or tech stack.

We expect participants to contribute positively and actively, and to treat each other with consideration and respect.

If at any time you feel uncomfortable, please contact us at hackathons@n3xtcoder.org

N3XTCODER

Contact N3XTCODER Team:

hackathons@n3xtcoder.org