

Hackathon Copernicus

Bari, May 27-29 2022

Handbook

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Planetek Italia organizes the **Hackathon Copernicus Bari 2022**, a 3-day day event in which software developers, graphic designers, interface designers but also young innovators passionate about data analysis will team up and create innovative mobile applications, based on Copernicus' data and services.

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The **Copernicus program** is funded and coordinated by the **European Commission**. It collects satellite images from different sources including in-situ sensors, processes them and provides reliable and updated information mostly as Free and OpenData in six thematic areas: land, sea, atmosphere, climate change, emergency management and security.

Hackathon Copernicus - Bari 2022 will take place in the weekend from Friday 27th to Sunday 29th of May 2022.

Participation to the Hackathon Copernicus - Bari 2022 is free of charge.

The event is intended as a 3-day full immersion in the creation of innovative applications.

This **Handbook** describes all the Hackathon processes and information: Rules of participation (how to apply, participant eligibility, schedule, prizes, intellectual property, etc.), Themes and Challenges, as well as the role of involved partners (organisers, organising committee, mentors, sponsors, etc.).

The latest update of this document is always available online at: <http://hackcopernicus.planetek.it/handbook>.

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Rules of Participation

Preamble

The Hackathon Copernicus is originated to stimulate the generation of new business ideas based on Copernicus data and services.

The Hackathon Copernicus is implemented by Sprint Lab (hereinafter “Coordinator”) and organised by Planetek Italia (hereinafter “Organiser”).

The organiser **Planetek Italia** is an Italian SME (Small and Medium Enterprise), established in 1994, which employs 50 men and women, passionate and skilled in Geoinformatics, Space solutions, and Earth science. The company provides solutions to exploit the value of geospatial data through all phases of data life cycle from acquisition, storage, management up to analysis and sharing. Planetek operates in many application areas ranging from environmental and land monitoring to open government and smart cities, and including defense and security, as well as scientific missions and planetary exploration.

Partners of Planetek Italia for the organization of Hackathon Copernicus - Bari 2022 are **The Hub, onData, Ciheam Bari, ECFAS project and DTA (Distretto Tecnologico Aerospaziale)**.

The Hub manages Impact Hub Bari and runs the SPRINT 2022 initiative, a great innovation programme with over 32 events and 2000 people involved among professionals, startups, students, institutions, innovators, companies and schools, experimenting with open innovation and digital innovation in industrial processes. A dynamic development path aimed at building a virtuous and concrete connection between innovative companies, training and the world of work.

onData is the Italian non-profit organisation that promotes transparency, digital skills and investigative journalism.

Ciheam Bari is a Centre for post-graduate training, applied scientific research and design of *in loco* partnership actions within the framework of international research and cooperation programmes.

ECFAS is a project run by a [consortium](#) of entities and is about the implementation of a European Copernicus Coastal Flood Awareness System.

DTA promotes the meeting and collaboration between the excellence of the aerospace sector, promoting and carrying out research and development projects, training and transfer of technological innovation.

1. Objectives

The Hackathon Copernicus pursues the following objectives:

- Increase the number of users of Copernicus data and services
- Stimulate the generation of new business ideas based on Copernicus data and services
- Raising awareness of the opportunities offered by Copernicus data and services
- Train potential users on how to access and use Copernicus data and services

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- Support the development of a thriving Copernicus downstream eco-system, by favouring cooperation between multiple stakeholders and maximise the socio-economic benefits of Copernicus

The Bari Copernicus Hackathon furthermore aims at encouraging the creation of start-ups and new business, by fostering the interconnection of talents, knowledge and professionalism, through the creation of a large network in which exchange and development are integrated with new business opportunities, feeding a fertile and impactful entrepreneurial fabric for the entire economy.

2. Date and location

The Bari Copernicus Hackathon takes place on the 27th-29th of May 2022 in Bari.

3. Pre-event trainings

Participants are expected to attend any pre-event trainings proposed by the Organiser.

Pre-event Hackathon Series webinars

Planetek organises a cycle of three meetings from April till May 2022 in an informal and relaxed context, to understand and deepen the opportunities that arise from the observation of the Earth and space technologies for companies, startups and enthusiasts. Information and registration forms of the Hackathon Series meetings are available at the [Training page](#) of the Hackathon Copernicus.

During these events, Planetek presents the Hackathon initiative, Copernicus' data and services, and technological resources for the participants, encouraging the attendance of free online technical webinars, giving tools for exploiting the time available during the hackathon.

Pre-event webinars

A series of dedicated free webinars are available for participants. The webinars show how to access and exploit Copernicus data and services, which tools to use for data processing, and where to find ready-made scripts for automatic data processing and analysis. The webinars show examples of applications and the IT infrastructures available for the hackathon such as [Rheticus®](#), the [CreoDIAS](#) and the [Sentinel Hub](#). All the webinars are recorded and available online for the participants to review the contents provided.

Webinar
Copernicus programme and the DIAS
Copernicus programme: data & services
Geospatial data processing: SNAP and Spatial Modeling
Satellite data on the Cloud: Sentinel HUB
From satellite data to geo-analytics: Rheticus®
Satellite data processing on the Cloud: M.App Enterprise
Satellite data processing on the CreoDIAS: Virtual EO Lab
From business ideas to commercial ventures: Copernicus Accelerator

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The recordings of the webinars can always be found at <http://hackcopernicus.planetek.it/training>.

Planetek EO-learning website

Participants are strongly suggested to attend basic EO courses, available for them at the [EO-Learning \(planetek.it\)](http://planetek.it) and reachable from the [Training page](#) of the Hackathon Copernicus.

4. Who can join?

All Participants to the Hackathon Copernicus – Bari 2022 shall have skills relevant to software development, including computer programmers, graphic and interface designers, Geographic Information Systems and Earth Observation experts, project managers and thematic experts (agriculture, energy, forestry, oil & gas...), data analysts.

5. Event logistics and related cost

Participation to the Copernicus Hackathon is free of charge.

6. Registration

Participants are requested to register for the Copernicus Hackathon before Sunday 29th May at <http://hackcopernicus.planetek.it/registration>.

Participation is limited to 90 participants. Participants can register alone or in teams of two or more, without maximum limit. The Organiser would suggest to have teams with 4 to 5 people to cover all skill sets needed in a start-up. The preferred composition of teams includes experts in app development, graphic / interface design, GIS / Earth observation, business management and people with thematic expertise and/or knowledge of users' needs in the different domain of **Climate Changes**. If not already registered as teams, the Organiser will match the Participants before or during the Hackathon to ensure that each team is composed of participants with a mix of relevant skills as mention above. An on line pre-event on the REMO platform is set on May 17th 2022.

7. Challenges

The participants, led by mentors from both the geospatial market and the start-ups ecosystem, are invited to propose and develop disruptive ideas that exploit Copernicus resources to create applications, useful to meet the Hackathon challenges and to build sustainable business models.

Participants are encouraged to organise themselves in multidisciplinary teams to present their ideas to a Selection Board, which consists of authoritative representatives of the digital communication, the aerospace and the industrial Italian market.

A description of the challenges is available at [Copernicus Hackathon 2022](#).

The challenges concern the effect of climate changes on the following sectors:

- Real-estate insurtech
- Critical infrastructures

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- Smart cities.

8. Technical support

The Copernicus Hackathon offers business and technical training before and during the event. Organisers provide the Participants with access to relevant coaching and IT infrastructure (hardware, software, API...) throughout the Hackathon, to facilitate access and use of Copernicus data.

Separate conditions may apply for usage of such coaching and IT infrastructure.

9. Expected output

The Copernicus Hackathon constitute a coding experience during which Copernicus data and services are actually accessed and used. The expected output shall thus go beyond mere concept presentations.

10. Evaluation

The Organiser has appointed a selection board, to select the best team at the end of the Hackathon.

The solutions presented to the selection board will be evaluated based on the following evaluation criteria:

Criteria	Weight
Relevance to the hackathon topic.	25%
Interest of the project <i>Is the project innovative? Does it create value for the users? Is it feasible technically?</i>	50%
Quality of the team <i>Technical and business expertise, understanding of the thematic area, commitment to the project</i>	25%

All experts appointed for the evaluation will sign a declaration of secrecy and non-interest with the Organiser.

11. Selection Board

Participants will present their ideas to a Selection Board, which will consist of authoritative representatives of the digital communication, the aerospace and the industrial Italian market.

Components of the Selection Board will be available soon.

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12. Mentors

The participants to Copernicus Hackathon-Bari 2020 will be supported by various mentors who will accompany the activities during the whole 3-day period, and who will provide diversified skills in the field of geospatial data management, big data analysis, access to open data and in the development of innovative business initiatives.

14. Awarding of Prizes

A prize will be given to the best team at the end of the Hackathon. Details will be available soon.

15. Confidentiality & Ownership of the Results

Participants will own the intellectual property rights to all their developments made during the Copernicus Hackathon. Ownership of the teams' output shall be with the teams' Participants, who will jointly own the app concepts / draft developments.

It is up to the respective teams to protect the developments in the relevant legislations, as far as the apps are in a development status allowing such protection.

The Participants need to ensure that the output of their group work will be an app which will be clearly "free-standing", i.e. based on a software programme which is developed "from scratch" by the Participants and does not contain already existing software from third parties. That will ensure that the later commercial use of the app(s) will not encounter any problems in terms of intellectual property rights belonging to a third party.

The Organiser confirms to not disclose any confidential information acquired through the organisation of a Copernicus Hackathon to any third party. The Organiser furthermore ensures that all experts and mentors involved in the Copernicus Hackathon commit to a non-disclosure agreement.

16. Data Protection

The Organiser will handle and protect personal data of all Participants within the frame of the Data Protection Law in the EU - General Data Protection Regulation - GDPR. The personal data of all Participants are handled exclusively in a Member State of the European Union or in a Contracting State of the Agreement on the European Economic Area. Any transfer of personal data to a third country is excluded.

The Participant allows the Organiser to transmit their contact details to the EC and the Coordinator to inform them of all matters related to the Copernicus Hackathon Programme and of any other issues the Coordinator and the EC deem relevant and appropriate.

By participating in the Copernicus Hackathon, all participants acknowledge that the EC, the Coordinator and the Organiser may use their names, country of origin, comments, likenesses, photos and videos (incl. photos/videos taken of the participants during the Copernicus Hackathon), and nonconfidential descriptions of their apps developed during the Copernicus Hackathon in publicity or advertising concerning the Copernicus Hackathon or otherwise in any medium now known or hereafter devised (including the Internet or other interactive networks) at any place and time without further compensation or right of review and agree to waive their rights with respect to any such publicity and advertising.

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The obligations related to personal data protection shall continue to be in effect for an unlimited period or as long as prescribed by applicable law.

17. User satisfaction

Participants agree to complete a short user satisfaction questionnaire after the Hackathon.

18. Miscellaneous

The award decisions shall not be subject to legal challenge. The decisions rendered by the expert appointed by the Organiser shall be final and binding for all Participants of the Copernicus Hackathon. Participants shall have no right to a justification of such decisions.

The European Commission, the Coordinator and the Organiser reserve the right to modify these terms, including any of the deadlines set forth herein, at any time.

Participation in the Copernicus Hackathon shall be governed by the Italian law and, in case of any dispute related to this agreement, the court of jurisdiction is the Court of Bari.

19. Contact

For more information please visit: <http://hackcopernicus.planetek.it>

If you have any further questions, please send them to HackCopernicus@planetek.it

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Document History

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1.0	Massimo Zotti	May 17, 2019	First release
1.1	Massimo Zotti	May 20, 2019	Updated Cover
1.2	Massimo Zotti	July 24, 2019	Updated Footer, Webinars' list and on-site events dates and venues
2.0	Massimo Zotti	Oct 10, 2019	Updated Footer and list of Webinars, Challenges, e-learning courses, Selection Board and Prizes
3.0	Silvia Salsone	March 16, 2020	Updated dates, Footer and list of pre-events, Challenges, Selection Board and Prizes.
4.0	Silvia Salsone	April 20, 2020	Update venue, organization instruction, challenges and prizes
4.1	Silvia Salsone	April 28, 2020	Updated Pre-event Training and Registration rules
5.0	Silvia Salsone	June 01, 2020	Updated prizes and judge list added

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