



Reinforcing the AI4EU Platform by Advancing Earth Observation Intelligence, Innovation and Adoption

D6.4: Summary of AI4Copernicus citizen-driven themes and use-cases

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Executive Summary

In this deliverable we present the activities carried out in the context of the *2nd Round of Open Calls* procedures and progress for for Citizen Social Challenges, as-well-as the activities carried out in the context of the *4th Round of Open Calls* procedures and progress for Use-Cases based on the identified Citizen Social Challenges.

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List of Terms & Abbreviations

Abbreviation	Definition
AB	Advisory Board
AI	Artificial Intelligence
AIoD	AI-on-Demand platform
DIAS	Data and Information Access Services
EO	Earth Observation
ESR	Evaluation Summary Report
SME	Small & Medium Enterprise
SO	Support Officer
WP	Work Package

1 Introduction

1.1 Purpose and Scope

In this deliverable, we present a comprehensive report on the outcomes and progress of the 2nd and 4th Rounds of Open Calls within the AI4Copernicus project. The 2nd Round of Open Calls targets individuals, and its scope is identifying, defining and addressing particular social problems or challenges that can be solved using Artificial Intelligence and Earth Observation Data. Then, the citizen challenges collected from the Open Call operate as the basis of the themes that are implemented in the context of the 4th Round.

The 2nd and the 4th Round of Open Calls present an alternative methodological approach for the AI4Copernicus Open Call process to that of the remaining rounds, that is the 2-stage approach: This approach includes two stages, namely one for the bottom-up citizen-driven theme/social cause identification and selection (which corresponds to the 2nd Round) and the second for the bottom-up industry-driven use-case based on the selected citizen-driven themes (which corresponds to the 4th Round). This is illustrated in the following figure:



Figure 1: Relationship between the 2nd and the 4th Open Call Phases

The two-stage approach facilitates an open co-creative value creation process that enables the citizen community/civil society to asynchronously collaborate with the industrial community in order to enhance the shared value creation from a social, economic, technical, environmental and policy perspective among others.

1.2 Approach for Work Package and Relation to other Work Packages and Deliverables

WP6 focuses on technology transfer via the AI4Copernicus Open Calls. In order for this to be achieved, the objectives of this task pertain to the (a) design, (b) implementation and (c) evaluation of the AI4Copernicus Open Calls for Projects (use-cases and small-scale experiments) and Open Calls for citizen-driven theme/social cause selection.

The AI4Copernicus Open Calls programme aims to bring together diverse communities, namely the Artificial Intelligence (AI) community, through the AI-on-demand platform, tools and services, with the Earth Observation Communities, through Earth Observation (EO) data as well as the DIAS ([Data and Information Access Services](#)) tools and services, in order to offer the AI4Copernicus tools and services. These tools and services aim to address the variegating market-driven challenges in diverse industrial domains and citizen-driven social challenges via the AI4Copernicus Open Calls.

The AI4Copernicus Open Calls are organised in five distinct Rounds, targeting SMEs and Individuals. In particular, these Open Call Rounds are:

- 1st Round of Open Calls for Use-Cases: consortia projects with a low-technology SME by default in 4 Industrial Domains: Energy, Security, Health, Agriculture
- 2nd Round of Open Calls for Citizen Social Challenges
- 3rd Round of Open Calls for Experiments: single company projects
- 4th Round of Open Calls for Use-Cases: consortia projects with a low-technology SME by default based on the identified Citizen Social Challenges (of the 2nd Round)
- 5th Round of Open Calls for Micro-Projects for testing the AI4Copernicus services: single company projects

The work plan of WP6 reflects the organisation of the Open Calls and includes the following tasks:

- Task 6.1: Open Calls Operational Planning and Management, running throughout the project's duration (M1-M36) and led by NCSR-D with CF contributing.
- Task 6.2: Open Calls for use-cases in the high-value domains: Energy, Security, Agriculture, Health, running from M7-M36 and led by NCSR-D, with UNITN, ECMWF, SatCen, UoA, INSEAD, and EQUINOR contributing.
- Task 6.3: Open Calls for small-scale experiments across all sectorial domains, running from M4 to M36 and led by NCSR-D, with ECMWF, UoA, INSEAD, UNITN, SatCen, and Equinor contributing.
- Task 6.4: Open Calls for citizen-driven themes and use-cases, also active from M4 to M36 and led by NCSR-D, with the contributions of SatCen, UoA, INSEAD, UNITN, EQUINOR and ECMWF.

The present D6.4 deliverable provides a report on the Open Calls procedures and progress for single company projects. In particular, it provides a report on the progress of the 2nd and 4th Rounds of Open Calls according to the methodology provided by Deliverable D6.1.

Since the activities of WP6 are the central focus of the AI4Copernicus project, the tasks of WP6 are related to most WPs of the project, and in particular:

- WP2: "User requirements and acceptance" in which WP6 provides ongoing input from the Open Calls and feedback from the Project Winners in relation to AI4Copernicus services (in addition to other feedback);
- WP3: "Technical positioning and architecture", WP4: "Implementation, customisation, integration and testing" and WP5: "Bootstrapping AI4Copernicus with high-impact services" which provide a series of technical, bootstrapping, and cloud services to the Open Call Projects for helping the implementation of their solutions;
- WP7: "Exploitation, Communication and Dissemination", which are involved in the active promotion, communication and dissemination of the Open Calls and the organisation of relevant events across the lifecycle of the project. In addition, WP7 provides assistance for the exploitation and sustainability of the Open Calls results and the knowledge transfer from the Open Calls.

1.3 Organisation of the Deliverable

In Section 2, we provide an overview of the activities and the process of the 2nd Round of Open Calls, namely the activities for the Open Call phase, the selection phase, and the award phase. In Section 3, we provide an overview of the activities and the process of the 4th Round of Open Calls, namely the activities for the Open Call phase, the selection phase, and the support phase of the projects (the activities conducted in the sustainability phase will be reported in D6.5). In Section 4, we discuss the results of the aforementioned Open Calls by providing a presentation of the winning projects, usage of the AI4Copernicus services and resources by the projects, and the assets provided in the AIOD catalogue. Finally, in Section 5 we conclude.

2 Overview of the Process of the AI4Copernicus 2nd Open Call

2.1 Introduction

The operation and management of the *Open Calls for social challenges* utilised the methodology reported in Deliverable D6.1. The 2nd Open Call involved the following distinct phases:

- Phase 1 (3 months): Open Call Phase (August 2021 - October 2021)
- Phase 2 (3 months): Selection Phase (November 2021 - January 2022)
- AWARD (February 2022 - March 2022)



Figure 2: AI4Copernicus 2nd Open Call Phases

For carrying out the Open Call, NCSR-D utilised the following three platforms:

- *The AI4Copernicus website* <http://ai4copernicus-project.eu>, which is used for making available to the applicants all the required material (announcements, news, information, and several template documents) that were required for writing their proposals. The official project website is the most important online tool of communication as it allows the partnership to structure information as required so as to connect with the ecosystem that it will be reaching out to.
- *The AI4Copernicus Open Call Platform* <http://calls.ai4copernicus-project.eu>, which has been developed by NCSR-D (and presented in D6.1) and is used by the applicants to submit their proposals and by the AI4Copernicus consortium for the management of the Open Calls. The platform provides the applicants with a set of tools to submit all the basic information about their proposal, include and manage their associate partners in their submission, tools to review and manage their proposal's budget with respect to the rules of the calls and manage their application's supplemental files.

- The NCSR-D NextCloud file server <http://nextcloud.iit.demokritos.gr>, which is used for file storage, document sharing and as a repository between the AI4Copernicus consortium, the Open Call Projects and the External Advisory Board. It facilitates the implementation of the projects and the communication with the Support Officers on a secure sharing platform including summarised and project-specific monitoring materials and an overview of monthly updates per project.

2.2 Phase 1: Open Call Phase

The *Open Calls Phase* covers a period of 3 months: August 2021 - October 2021. During this phase, all relevant AI4Copernicus Open Call Annexes were provided for interested participants to prepare their proposals. The Open Call was announced during mid-August 2021, and the deadline was set to October 31st, 2021.

More activities in this phase included the launch of the AI4Copernicus Open Calls Platform so that all interested applicants could submit their proposals, and the provision of support to the applicants: the Open Calls and the Communications teams provided support to applicants by answering questions by e-mail and maintaining an [online page](#) with Frequently Asked Questions. Finally, several dissemination and communication activities were carried out by the Communications team and were reported in Deliverable D7.4.

An overview of the 2nd Open Call applications is as follows:

- 12 submissions
- 3 female
- 9 male
- 8 countries

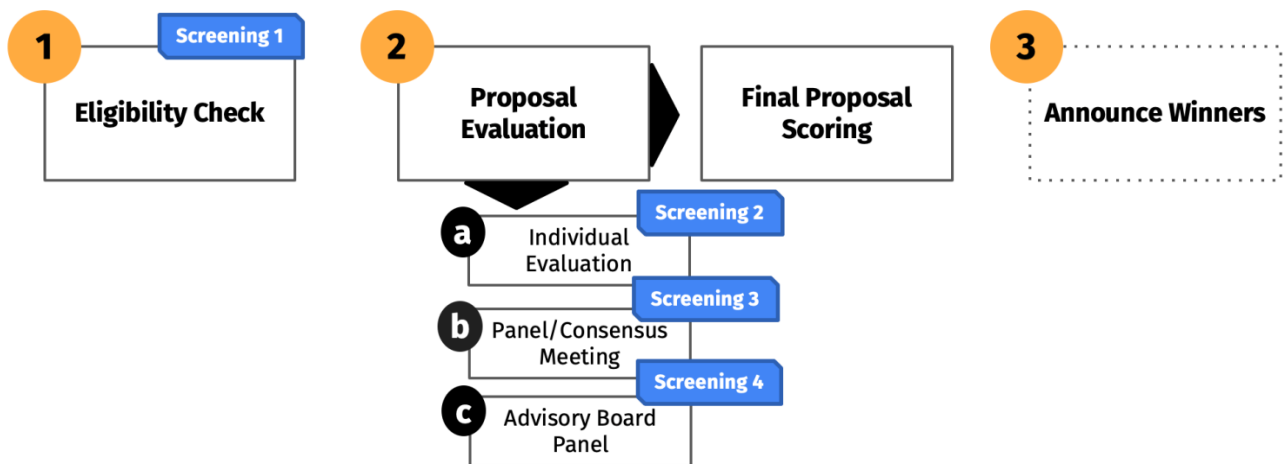
2.3 Phase 2: Selection Phase

This phase involved the implementation of the selection evaluation process with the beneficiaries (individuals). The evaluation process for the 2nd Round of Open Calls, as described in detail under Deliverable D6.1, involved four distinct types of screening and covered a period of 2 months. In particular:

- *Screening #1*: Eligibility Screening,
- *Screening #2*: Proposal Evaluation & Ethics Screening (2 individual evaluators)
- *Screening #3*: Evaluation & Consensus Panels (2 evaluators and the Panel Chair)
- *Screening #4*: Expert Advisory Board Panels (Panel Chairs and Advisory Board Members)

The evaluation process covered a period of 3 months: November 2021 - January 2022.

An overview of the evaluation process of the 2nd Open Call and the high-level overview of the evaluation activities are provided in the figure below:

Figure 3: AI4Copernicus Evaluation Process Overview (2nd Open Call)

2.3.1 Eligibility Check (SCREENING #1)

Proposals went through an eligibility check based on the eligibility criteria that have been specified by the AI4Copernicus partners. This process was conducted during November 2021 and December 2021.

First, the Open Calls Team prepared a set of *Eligibility Forms* used for conducting the process, and identified a list of *evaluators*. Two (2) evaluators (from NCSR-D) were selected to conduct the eligibility check. Once the reviews were completed, all evaluators submitted their respective proposal eligibility forms to the Coordinator for the final signing and approval.

2.3.2 Individual Evaluation (SCREENING #2)

The Open Calls Team proceeded with the *allocation of evaluators for each proposal*, with a standard of two (2) evaluators assigned per proposal. This process was conducted during November 2021. The allocation process adhered to the guiding principles set forth by the consortium partners, ensuring a comprehensive evaluation. According to these principles, each proposal was assigned to two reviewers from different AI4Copernicus partners. Additionally, the allocation of panel chairs was carried out (see next subsection for more details).

An important step in this process was the signing of the *Evaluation Service Agreements*. These documents were prepared by NCSR-D and were signed by all the evaluators and panel chairs (prior to the finalisation of the individual evaluations - December 5th), so that legal compliance can be ensured. The scope of this Agreement is to set the specific obligations regarding the evaluation procedures and confidentiality in the context of the Open Calls evaluation process. This Agreement has been signed between the Project Manager and each evaluator separately.

After all these preparatory steps, the Individual Evaluation process was carried out, offering a period of 2 weeks for each evaluator to provide a score for their assigned proposals. The deadline for completing the individual evaluations was set on December 10th, 2021.

Finally, we close this subsection with some details regarding accessing the proposals. The distribution of the proposals between the evaluators was done via the NextCloud platform. Distinct access rights (i.e., view rights and edit rights) were given to each evaluator and panel chair, depending on their assignments. At first, all evaluators and panel chairs were given access to the next cloud repository, but upon completion of the individual evaluations (December 10th, 2021), the evaluators' access rights changed to “view rights” only for the proposals that they acted as reviewers.

2.3.3 Panel Consensus Meeting (SCREENING #3)

AI4Copernicus experts acted as Proposal Chairs in the dedicated Evaluation and Consensus Panels that were organised for each individual proposal. These panels also involve the 2 proposal Evaluators (who participated in Screening #2). This process was conducted in December 2021.

The allocation of panel chairs was carried out by NCSR-D. The following panel chairs have been appointed:

- Panel Chair #1: Iraklis Klampanos (NCSR-D)
- Panel Chair #2: Manolis Koubarakis (UoA)

First, a series of preparatory actions were carried out. The *Panel Evaluation Forms* were prepared by NCSR-D and shared with the panel chairs and the consortium. Then, a dedicated *Panel Evaluation Meeting* (December 2021) was conducted with all panel chairs and NCSR-D to discuss any issues, concerns, and align before conducting the panel chair meetings. Panel Chairs also had to confirm that all the individual evaluators' reports were uploaded appropriately.

After these actions, the *Panel Consensus meetings* were carried out as follows: each panel chair was advised to arrange a short global call with all the reviewers in his domain at the end of all the proposal-panel meetings. NCSR-D acted as an observer in these calls so as to ensure the alignment of all domains before the final meeting with the Advisory Board. During and after each meeting, the aforementioned *Panel Evaluation Forms* were filled in by their corresponding Panel Chairs and uploaded to each proposal's folder in NextCloud.

2.3.4 Advisory Board Panel (SCREENING #4)

During this final screening, the chairs of the Evaluation Panels presented the outcomes of “Screening #3” to the Expert Advisory Board. This process finalised the list of the Successful Citizen ideas to be funded. Once this process was concluded, the Public Announcement of the Results was made available. This process was conducted during December 2021 and January 2022.

Following Screening #3, the Open Calls team identified a list of 5 proposals that had received marks above the threshold (7/10 based on 2 criteria: excellence and impact). On December 29th, 2021, an e-mail was sent to the Advisory Board containing a briefing about the process so far, i.e., information about the completion of the first part of the internal review process (eligibility check, individual assessment and panel evaluation). In the same email, the Open Calls team shared a feedback form with the details of each of the top 5 proposals (scores and comments) to be filled in by each member of the Expert Advisory Board by January 17th, 2022. Finally, access to the briefing material was provided by NCSR-D via a shared folder in the NextCloud repository.

2.3.5 Selection of successful proposals

Following the receipt of the Advisory Board feedback (by January 2022), NCSR-D updated the projects' Evaluation Forms in terms of scoring and comments.

- Selected Proposals (2)
- Rejected Proposals (10)

2.3.6 Extraction of the Citizen-Driven Social Challenges

As a final step, the Open Calls Team carried out an analysis of the proposals for extracting the **Citizen-Driven Social Challenges** to be applied during the 4th Round of Open Calls. These challenges span across various thematic areas, reflecting the dynamic and evolving landscape of societal needs. These social challenges are illustrated below:

Citizen-Driven Social Challenges
Creating Digital Twins of remote territorial areas
Mapping Health Facilities
Monitoring Illegal Fishing
Optimising Air Quality Footprint
Optimising Waste Management
Predicting Economic Recessions
Predicting Fire Risk probability
Predicting Health Risks
Predicting Poverty
Reducing Greenhouse Gas (GHG) in cities
Reducing the overheating of urban spaces (Urban Heat Island (UHI) effect)

Table 1: Citizen-Driven Social Challenges extracted from the 2nd Open Call

2.3.7 Informing the applicants

The final step was to inform the applicants. These activities were conducted during February 2022.

The preparatory activities included preparing the notification letters and the finalisation of texts per status of the proposal, and the establishment of a dedicated file folder on NextCloud with the finalised personalised documents included in the notification process.

The *Delivery of Notification* to all applicants was held on February 2nd, 2022, via the dedicated email address together with the finalised Evaluation Summary Reports (ESRs). The notification comprised a notification Letter per status (Selected, Rejected Above Threshold/Below Threshold, Rejected/Non-eligible), the finalised ESRs, and, especially for the 2 winners, the Invitation Letter to Selected Projects.

On February 3rd, 2022, a personalised communication was established with the 2 winners, including a request/confirmation of the individual's details and the VAT Registration No, and the sharing of the Bank Account Information document for the payments to be carried out.

2.4 Phase 3: Award Phase

The 2 winning proposals selected for funding from the 2nd Open Call are the following:

- ARTEMIS - Artificial Intelligence and Earth Observation for monitoring of GHG emitted by landfills
- PAUHIE - Project proposal against the Urban Heat Island effect

On March 3rd, 2022, the two winners were announced in the [Award Ceremony](#), which included short presentation videos of the proposals. In this public event, the audience had the opportunity to meet the winners and the proposals funded by the AI4Copernicus project in collaboration with WP7.

Finally, on March 28th, 2022, the funds were deposited into the winners' selected bank, and both projects confirmed their receipt.

3 Overview of the Process of the AI4Copernicus 4th Open Call

3.1 Introduction

The operation and management of the *Open Calls for use cases* based on the identified Citizen Social Challenges (of the 2nd Round) utilised the methodology reported in Deliverable D6.1. The 4th Open Call involved the following distinct phases:

- Phase 1: Open Call Phase (February 2022 - April 2022)
- Phase 2: Selection Phase (May 2022 - June 2022)
- GRANT AGREEMENT (July 2022 - August 2022)
- Phase 3: Support Phase (September 2022 - October 2023)
- Phase 4: Sustain Phase (November 2023 - December 2023)

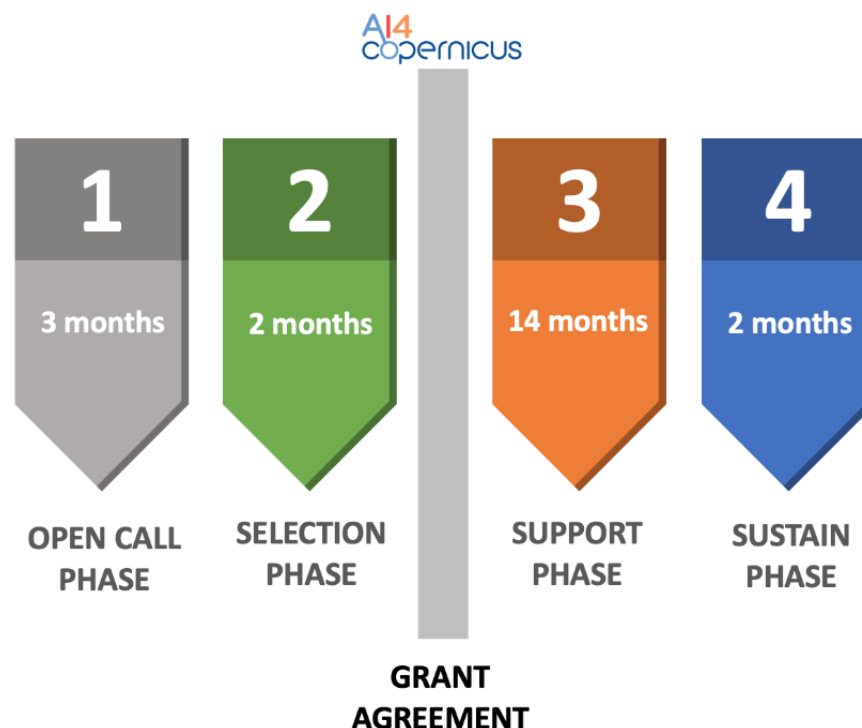


Figure 4: AI4Copernicus 4th Open Call Phases

For carrying out the Open Call, NCSR-D utilised the following three platforms:

- *The AI4Copernicus website* <http://ai4copernicus-project.eu>, which is used for making available to the applicants all the required material (announcements, news, information, and several template documents) that were required for writing their proposals. The official project website is the most important online tool of communication as it allows the partnership to structure information as required so as to connect with the ecosystem that it will be reaching out to.
- *The AI4Copernicus Open Calls Platform* <http://calls.ai4copernicus-project.eu>, which has been developed by NCSR-D (and presented in D6.1) and is used by the applicants to submit their proposals and by the AI4Copernicus consortium for the management of the Open Calls. The

platform provides the applicants with a set of tools to submit all the basic information about their proposal, include and manage their associate partners in their submission, tools to review and manage their proposal's budget with respect to the rules of the call and manage their application's supplemental files. Compared to the other Open Calls, updates were carried out following respective meetings between the teams of Open Calls, Communications and Technical Support. The platform was duly updated including edits and improvements on available wording, submission fields, templates, information for applicants, etc.

- *The NCSR-D NextCloud file server* <http://nextcloud.iit.demokritos.gr>, which is used for file storage, document sharing and as a repository between the AI4Copernicus consortium, the Open Call Projects and the External Advisory Board. It facilitates the implementation of the projects and communication with the Support Officers on a secure sharing platform, including summarised and project-specific monitoring materials and an overview of monthly updates per project.

3.2 Phase 1: Open Call Phase

This phase involves the announcement of the 4th Round of the AI4Copernicus Open Calls for *use cases* based on the identified Citizen Social Challenges (of the 2nd Round). In this phase, the design of the Open Calls' structure, application material and dissemination material (in collaboration with WP7) needed was created. In particular, during the 4th Open Call, all the [relevant templates, annexes and guidelines for applicants](#) were prepared with a user-centric approach. Dedicated web pages on the AI4Copernicus website were prepared, including a specific Communications Toolkit, in collaboration with WP7. During this phase, all relevant AI4Copernicus Open Call Annexes were provided for the interested participants to prepare their proposals. The Open Call was announced to the community on February 1st, 2022, and the deadline was set to April 30th, 2022.

More activities in this phase included the *launch of the AI4Copernicus Open Calls Platform* so that all interested applicants could submit their proposals, and the provision of *support to the applicants*: the Open Calls and the Communications teams provided support to applicants by answering questions by e-mail and maintaining an [online page](#) with Frequently Asked Questions. Finally, several dissemination and communication activities were carried out by the Communications team and were reported in Deliverable D7.4.

An overview of the 4th Open Call applications is as follows:

- 7 submissions
- 17 SMEs
 - 10 high-tech SMEs
 - 7 low-tech SMEs
- 16 countries
- 2 proposals focusing on the Agriculture domain
- 1 proposals focusing on the Health domain
- 1 proposals focusing on the Security domain
- 3 proposals focusing on other domains

3.3 Phase 2: Selection Phase

This phase involved the implementation of the selection evaluation process with the beneficiaries (consortia with 2 or more partners with at least one non-tech SME). The evaluation process for the 4th Round of Open Calls, as described in detail under Deliverable D6.1, involved four distinct types of screening and covered a period of 2 months. In particular:

- *Screening #1*: Eligibility Screening,
- *Screening #2*: Proposal Evaluation & Ethics Screening (2 individual evaluators)
- *Screening #3*: Evaluation & Consensus Panels (2 evaluators and the Panel Chair)
- *Screening #4*: Expert Advisory Board Panels (Panel Chairs and Advisory Board Members)

The evaluation process covered a period of 2 months: May 2022 - June 2022.

An overview of the evaluation process of the 4th Open Call and the high-level overview of the evaluation activities are provided in the figure below:

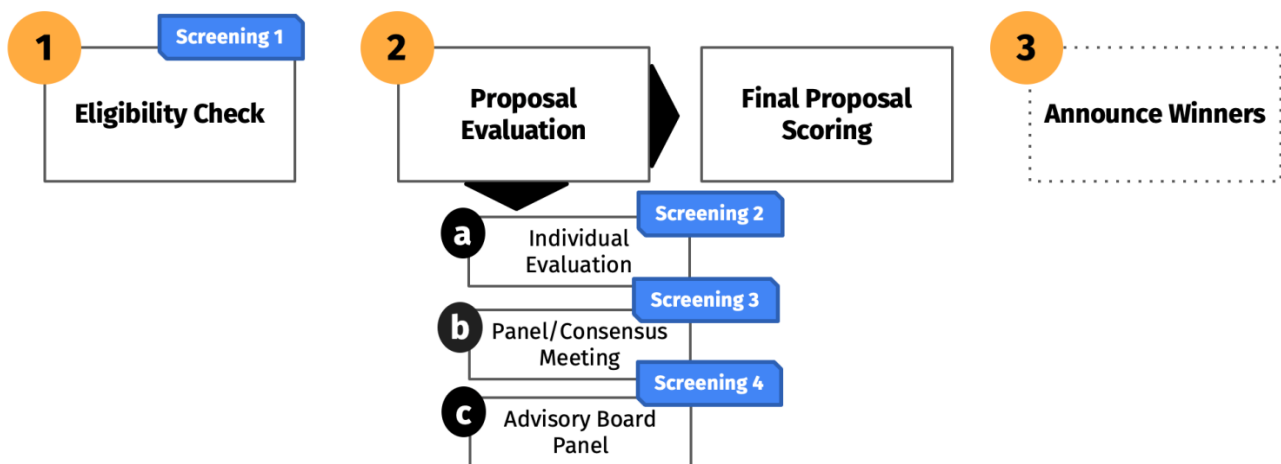


Figure 5: AI4Copernicus Evaluation Process Overview (4th Open Call)

3.3.1 Eligibility Check (SCREENING #1)

Proposals went through an eligibility check based on the eligibility criteria that have been specified by the AI4Copernicus partners. This process was conducted in May 2022.

First, the Open Calls Team prepared a set of *Eligibility Forms* used for conducting the process, and identified a list of *evaluators*. Two (2) evaluators (from NCSR-D) were selected to conduct the eligibility check.

A set of proposals is assigned to each evaluator by the Open Calls Team, ensuring fair distribution of workload and expertise among the evaluators. Once the allocation was finalised, the evaluators were granted access to *the proposals* and eligibility forms through the NextCloud platform. The reviews of the proposals were conducted on an individual basis by all the assigned evaluators. Once the reviews were completed, all evaluators submitted their respective proposal eligibility forms to the Coordinator for the final signing and approval.

3.3.2 Individual Evaluation (SCREENING #2)

Proposals were evaluated by 2 (two) evaluators selected from the AI4Copernicus partners, with wide expertise in AI within the fields prioritised in the industrial domains targeted by AI4Copernicus. This process was conducted in May 2022.

First, the Open Calls Team prepared a set of *Individual Evaluation Forms*, used for conducting the process. All the AI4Copernicus partners provided the names of the evaluators who were actively involved during the 1st Open Call review phase through a common spreadsheet.

In the next step, the Open Calls Team proceeded with the *allocation of evaluators for each proposal*, with a standard of two (2) evaluators assigned per proposal. The allocation process adhered to the guiding principles set forth by the consortium partners, ensuring a comprehensive evaluation. According to these principles, each proposal was assigned to two reviewers from different participating organisations. Additionally, an extra reviewer per industrial domain was put on hold as a contingency measure in case any issues or challenges arose during the evaluation process. Additionally, the allocation of panel chairs was carried out (see next subsection for more details).

A dedicated *Evaluators Meeting* was organised by NCSR-D to inform the evaluators about this process and involved a presentation and discussion with all involved participants and a video recording of the workshop for all evaluators and panel chairs.

An important step in this process was the signing of the *Evaluation Service Agreements*. These documents were prepared by NCSR-D and were signed by all the evaluators and panel chairs (prior to the finalisation of the individual evaluations - May 6th), so that legal compliance can be ensured. The scope of this Agreement is to set the specific obligations regarding evaluation procedures and confidentiality in the context of the Open Calls evaluation process. This Agreement has been signed between the Project Manager and each evaluator separately.

After all these preparatory steps, the evaluators were informed about the proposal assignments across all proposals (ensuring transparency) on May 9th, 2022, initially via email and subsequently through the AI4Copernicus Open Calls Platform. A telco was also held by the NCSR-D Open Calls Team on May 10th, 2022, targeting all Individual Evaluators, where additional clarifications were provided on the overall Evaluation Process. The Individual Evaluation process was carried out offering a period of 2 weeks for each evaluator to complete their assigned proposals. The deadline for uploading the Individual Evaluation forms on the Open Calls Platform was May 23rd, 2022.

3.3.3 Panel Consensus Meeting (SCREENING #3)

AI4Copernicus Domain experts acted as Proposal Chairs in the dedicated Evaluation and Consensus Panels that were organised for each individual proposal. This process was conducted during May 2022. Contrary to the previous Open Calls, and due to the low number of proposals in the case of the 4th Open call, only one panel chair has been appointed:

- 4th Open Call Panel Chair: Philippe Fournand (Blue-Sight)

First, a series of preparatory actions were carried out. The *Panel Evaluation Forms* were prepared by NCSR-D and shared with the panel chair and the consortium on May 12th, 2022, along with a spreadsheet including all Proposals assigned and the Individual Evaluators' details per proposal. The

panel Chair was also expected to confirm that all individual evaluators reports were properly uploaded.

After these actions, the actual *Panel Consensus meeting* was carried out as follows: The panel chair was advised to arrange a short project-specific call with the reviewers in the respective domain. NCSR-D acted as an observer in this call so as to ensure the alignment of all domains before the final meeting with the Advisory Board. Subsequently, the finalised *Panel Evaluation Forms* were filled in by the Panel Chair and were uploaded on the AI4Copernicus Open Calls Platform.

3.3.4 Advisory Board Meeting (SCREENING #4)

During this final screening, the chair of the Evaluation Panel presented the outcomes of “Screening #3” to the Expert Advisory Board. This process finalised the list of Successful Projects to be funded. Once this process was concluded, the Public Announcement of the Results was made available. This process was conducted during June 2022 (with some preliminary actions during May 2022).

Given the high number of proposals to be funded by the AI4Copernicus 3rd and 4th Rounds of Open Call (notice that the 3rd and 4th Rounds of Open Call were carried out simultaneously), it was decided for each AB Member to assess 3-4 proposals, based on the outcomes of the Screening #3. On May 25th, 2022, all AB Members were informed via email on the status of the proposals and the updated evaluation process. A follow-up communication took place on June 10th, 2022 including the proposals for each AB Member to review, including the Panel Evaluation Results of the corresponding results. The AB members provided their scores and/or comments by June 22nd, 2022.

Upon receipt, AB’s feedback was integrated into the Evaluation Summary Reports while the final scores were respectively aligned. Each AB Member was subsequently informed of the final list of projects to be funded on June 24th for their final validation.

3.3.5 Selection of successful proposals

Following the receipt of the AB’s feedback, NCSR-D updated the projects’ Evaluation Forms in terms of scoring and comments.

- Selected Proposals (3)
- Proposals on Reserve List (2)
- Rejected Proposals (2)

3.3.6 Informing applicants

The final step was to inform the applicants. The preparatory activities included the preparation of the notification letters, the finalisation of texts per status of proposal, and the establishment of a dedicated file folder on Nextcloud with the finalised personalised documents included in the notification process.

The *Delivery of Notification* to all participants was held on July 4th 2022 via the AI4Copernicus Open Calls Platform. For the 3 Selected Projects, the notification comprised an Introductory Notice, an attached Invitation Letter and a request or confirmation of PIC availability or the provision of guidelines in case of unavailability. For the remaining proposals, the notification comprised an Informative Notice for the Proposals on the Reserve List and the Rejected Proposals. All Selected

Projects received follow-up communication by the Open Calls team via email on July 6th and 7th, to ensure that the respective notifications were duly received.

3.4 Grant Agreement

The *Grant Agreement process* involves the signing of contractual arrangements with the beneficiaries (consortia projects with a low-technology SME by default), during the 4th Round of Open Calls.

3.4.1 Sub-grant Agreement Preparation

The activities that comprised the preparation of the Sub-Grant Agreement text are the following: First, the Open Calls team prepared Sub-Grant Agreement templates for each project of the 4th Open Call based on the templates of the 1st Open Call. Then, the Open Calls team drafted guidelines on the completion of the Sub-Grant Agreement text in order to complement the main document. During May 2022, a meeting took place between the Open Calls Team, the NCSR-D Legal Officer, and the AI4Copernicus Administrative Manager in order to finalise all relevant documents.

3.4.2 Sub-grant Agreement Finalisation

All Projects selected during the 4th Round of Open Calls received follow-up communication on July 6th and 7th including the Sub-Grant Agreement Template (together with the relevant Annexes), the respective Guidelines, and the overall timeline for the completion of the Sub-Grant Agreement process. The deadline for the return of the completed editable documents was July 15th, 2022.

On July 12th, 2022, a Q&A online session was delivered to all Selected Projects by the Open Calls Team, the NCSR-D Legal Officer, and the AI4Copernicus Administrative Manager, where additional guidelines were provided on the completion of the sub-Grant Agreement document.

Throughout July 2022, several communications took place between the Open Calls Team and the Selected projects, including the provision of additional clarifications on project specific questions for the Sub-Grant Agreement Process, as well as the completion of the relevant Annexes.

Upon receipt of the completed editable texts by the projects, the finalisation/tailoring per project took place, including the following Annexes:

- Annex 1: Description of the Action
- Annex 2: Estimated budget for the Action
- Annex 3: Technical Progress Report Template
- Annex 4: Costs Report Template
- Annex 5: Bank Account Information
- Annex 6: Sub-Project Consortium Declaration
- Annex 7: Selected Third Parties' Declaration of Honour
- Annex 8: SME Declaration

The Sub-grant Agreement texts were finalised based on received comments, adjusted accordingly, and shared with the Selected Projects for review. After some necessary adjustments, the final texts of each Sub-Grant Agreement were reviewed and approved. The Sub-Grant Agreements were then shared with the respective Sub-project Leaders, who reviewed and signed them in late July. Upon

receipt of the signed texts, all documents were shared with the AI4Copernicus Consortium Coordinator (NCSR-D Director and Chairman of the Board) for his signature. Fully signed documents were shared with all selected projects in early August 2022.

3.4.3 List of Selected projects

The 3 projects selected for funding from the 4th Open Call are the following:

- Urbalytics
- AI4 E2O.Green - from Earth Observation 2 Urban Irrigation AI Optimization for urban green space overheating and greenhouse gas reduction
- AI-RON MAN - AI-based wildfiRe predictiON for the risk MANAgement of TLC Infrastructures

3.5 Phase 3: Support Phase

The *Support phase* covered a period of 14 months and involves the *Initial support sub-phase*, which involves the preparation and launch of the AI4Copernicus selected projects (5 months), the *Interim assessment*, which provides an initial feedback of the AI4Copernicus projects progress (1 month), the *Final support sub-phase* (6 months), in which the implementation of the projects continues, taking into account the feedback from the interim-assessment, and, finally, the *Final assessment* (2 months), which involves the final evaluation of the output of each project. During this phase, a series of mentoring and support services is provided to the project.

This process was conducted from September 2022 to October 2023. The timeplan for the support phase is shown in the following table:

Initial Support Phase					Interim Assessment	Final Support Phase						Final Assessment	
M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14
Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
2022					2023								

Table 2: 4th Open Call Support Phase Timeplan

On August 3rd, all projects selected during the 4th Round of Open Calls were informed on the extension of each Projects’ Start Date to September 1st, 2022, while the respective End Date to December 31st, 2023.

3.5.1 Assignment of Support Officers

An assignment plan of Support Officers for the projects selected in the 4th Open Call was prepared by NCSR-D and shared with all AI4Copernicus Project Partners, where the latter were requested to confirm it by late August. The appointment of Support Officers per Selected Project was finalised in mid-September 2022 (and updated in December 2022) and can be seen in the following table:

Project	Support Officer	Organisation
Urbalytics	Vasileios Baousis (until Nov 2022)	ECMWF
	Mohanad Albughdadi (from Dec 2022)	ECMWF
AI4E2O.Green	Dharmen Punjani (until Dec 2022)	UoA
	Eleni Tsalapati (from Jan 2022)	UoA
AI-RON MAN	Dimitris Fragkos	NCSR-D

Table 3: Allocation of Support Officers (4th Open Call)

In order to ensure the effective coordination and collaboration among the Support Officers, a series of Support Officers Coordination Meetings were scheduled. The first coordination meeting took place on October 3rd, 2022 where the Support Officers were informed about their new role. Additionally, as part of the monthly calls for WP6, a monthly meeting was included to facilitate reporting of the progress of the Projects to the WP6 Lead and the rest of the consortium, as-well-as ongoing discussions, updates, and coordination among the Support Officers.

3.5.2 Other Preparatory Activities

In early September 2022, a dedicated mailing list was established for the 4th Open Call Selected Projects, fostering direct communication between the Open Calls team and the members of the selected projects.

Subsequently, in September 2022, a secure working environment was established using the NextCloud platform. This environment aimed to support the implementation of the projects and facilitate effective communication between project teams and Support Officers. It provided a secure space where project-specific monitoring materials were shared, enabling project teams to track their progress in a summarised format. Additionally, an overview of monthly updates per project was made available, ensuring transparent and comprehensive reporting.

3.5.3 Award Ceremony & Technical Workshop

An Award Ceremony was organised on September 26th, 2022. In this [public event](#) the winning proposals of the 4th Open Call were announced thus providing the general public an opportunity to meet the winners and the funded solutions by the AI4Copernicus project in collaboration with WP7.

Furthermore, a Technical Workshop was conducted, exclusively tailored for the selected projects. This was a closed event and featured an introduction to the Support Officers to the Open Call Projects and a presentation of the AI4Copernicus services that were made available by the technical partners of the consortium (Bootstrapping Services, Cloud Resources, and Linked Data tools). The agenda of the closed event is shown as follows:

26 September 2022			
TECHNICAL WEBINAR : Moderator Manolis Koubarakis			
12:00-12:20	Overview of bootstrapping services	SatCen	Omar Barrilero

	<ul style="list-style-type: none"> • Introduction and brief display of the services (10 min) • Q & A (10 min) 		
12:20-12:40	Overview of cluster, resources and Docker registry provided by CREODIAS, WEKEO <ul style="list-style-type: none"> • Overview (10 min) • Demo (5 min) • Q & A (5 min) 	CloudFerro SatCen	Overview: <i>Marcin Ziółkowski</i> Demo: <i>Omar Barrilero</i>
12:40-13:00	Overview of common services: EarthQA engine and linked data tools (UoA)	UoA	<i>Dharmen Punjani</i> <i>George Stamoulis</i>
13:00-13:20	Overview on how resources can be published in the AIoD platform Overview on how resources are integrated in AI4EU Experiments	AI4EU representatives (NCSR-D, Fraunhofer IAIS)	<i>Antonis Troumpoukis</i> <i>Martin Welss</i>
13:20-13:30	<i>Next Steps</i>	NCSR-D	<i>Vangelis Karkaletsis</i>

Table 4: Agenda for the 1st Technical Meeting Workshop

3.5.4 Incubation Services

As a part of the supporting services of the AI4Copernicus, the following sessions were delivered to the projects selected during the 4th Round of Open Calls:

Project-specific support Services:

- Monthly Meetings of each Support Officer with the corresponding Project Representative (or bi-weekly meetings depending on project needs), so as to ensure the smooth implementation of each project. In each of these meetings, held throughout the support phase of the projects (M1-M14), the Project Representative reports the progress of the project and together with the Support Officer discusses any possible Problems, Needs, or any other issues on both the technical and the business level.
- Ad-hoc meetings with technical or business experts from the AI4Copernicus consortium partners wherever the projects needed some help or guidance with their development.

Technical Workshops:

- 1st Technical Workshop: “Overview of all technologies and platforms”, held on September 26th, 2022 by the Technical partners of the AI4Copernicus. The contents and the structure of the workshop were described in a previous section.
- 2nd Technical Workshop: “Cloud Infrastructure”. 1-to-1 meetings for each project between the Project Representative and the Contact Point of CloudFerro. In this meeting details about the Cloud Resources and infrastructure needed from the project are discussed, in

order for CF to grant the cloud resources to the project. These meetings were organised during the initial support phase of the projects (M1-M5).

Business Sessions:

- 1st Business Session: "*Challenges and Practices of Organizations in Developing AI capabilities*" Date: February 7th, 2023. Speaker: Theos Evgeniou (INSEAD).
- 2nd Business Session: "*Business implications of the AI lifecycle*" Date: April 20th, 2023. Speaker: Theos Evgeniou (INSEAD).
- 3rd Business Session: "*AI explainability and Trust*" Date: July 17th, 2023. Speaker: Theos Evgeniou (INSEAD).

AI-Ethics Workshops:

- AI Ethics Introductory Session: "*Trustworthy and Ethical Artificial Intelligence: An overview*". Date: January 30th, 2023. Speakers: Xenia Ziouvelou (NCSR-D), Alexandros Nousias (NCSR-D).
- Ethical & Trustworthy AI self-assessment per project: all projects used the "*Ethical & Trustworthy AI assessment*" tool, created by NCSR-D during the "development phase" of the projects. Following the AI Ethics Session, the tool was filled in by each project and each support officer separately (in order to have two opinions). The completed tools were delivered to NCSR-D by April 20th, 2023.
- Ethical AI workshops (1-on-1 workshops for each project): Dates: April-May 2023. These meetings include a discussion utilising as input the completed "*Ethical AI assessment*" tool of each project. The projects are encouraged to revise the tool after the discussion and share its updated version.
- The *AI Ethics Assessment feedback* for the 4th Open Call projects was provided from NCSR-D to the projects via Nextcloud. The AI Ethics assessment documents provide feedback for all the assessment areas and conclude with a set of concrete recommendations that aim to help each project for the next phase based on the project-specific needs that have been identified.

Communication and Dissemination activities:

- The communication team (WP7) has created a weekly social media campaign titled "*Meet the winners*" (started October 2022) which aims to promote further the projects which resulted from the 4th Open Call. For every project, a specific banner, a short video of the Project Representative pitching the project, a 3-question interview, and several other details (Abstract, Consortium members, Countries, types of beneficiaries), were communicated. A new section "[Winning Projects](#)" was created on the website to highlight this action.
- In coordination with the Communication team (WP7), a physical event titled: "Artificial Intelligence Ecosystem Forum 2023" [was organised](#) on Thursday 29th and Friday 30th June

2023, where the Open Call projects have the opportunity to pitch their ideas in a wide audience consisting of strategic players and leading stakeholders of the AI and EO domains.

3.5.5 Other activities

Several communications were held regarding the availability and feedback of the AI4Copernicus services. On December 8th 2022, the Open Calls team informed the projects about the availability of the Docker registry where the Bootstrapping Resources of WP5 were made available for the projects. On March 22nd 2023, the Open Calls team shared with the projects a questionnaire for collecting feedback on the Bootstrapping Resources as requested by WP2 in the context of D2.3.

On December 13th 2022, the Open Calls team shared with the projects a questionnaire for “collecting natural language questions for discovering EO datasets” as requested by WP3 in the context of collecting user requirements for the development of the EarthQA engine.

The projects provided content to the AI-on-Demand platform in two stages. On June 1st 2023, the projects were provided with instructions on how to submit content on the [AloD CMS](#), and were requested to submit one organisation page for the company of the project. On July 18th 2023, the projects were requested to provide one AI asset page for each asset developed within the project, and simple answers to 3 questions, which were used by NSCR-D to draft a case study per project. After that, all created pages (organisations, AI assets, and Case Studies) were linked by NSCR-D under the [AI4Copernicus project page](#).

3.5.6 Interim assessment

The interim assessment of the 4th Open Call projects was carried out during February 2023 (M6). The assessment was carried out as reported in Deliverable D6.1 (see Section 2.7 of D6.1 for the interim assessment criteria).

The assessment panels for the interim assessment phase consist of one Advisory Board (AB) member per project, along with one or more Project Representatives from each project and the project's appointed Support Officers. The format of the assessment panel for each project is approximately 1 hour long, conducted online, and scheduled to take place during mid-late February 2023. The structure of each panel session starts with a 30-minute presentation of the project (based on a predefined presentation template) by the Project Representative, followed by a 15-minute Q&A session with the AB member and the Project Representative. The remaining 15 minutes are dedicated to a discussion and feedback session exclusively between the AB member and the Support Officers, without the presence of the Project Representative. The assessment results are recorded and submitted in a predefined spreadsheet.

In preparation for the interim assessment, a series of notifications were sent out to ensure all stakeholders were informed about the upcoming assessment process. On January 18th, 2023, an email was sent to all Selected Projects and their respective Support Officers, via the mailing list, providing information about the Assessment Panels, the format of the review, the structure of the panels, and the specific time plan. In addition, on the same date, another round of notifications was sent out, this time to all appointed AB Members. The email provided them with an introduction to the project assigned to them, along with the details of their appointed Support Officer. It also

reiterated the information on the Assessment Panels, the review format, the panel structure, and the overall time plan for the interim assessment.

The Open Calls Team followed up communication between respective parties till the finalisation of each Interim Review Meeting, and the Communications' Team prepared the respective meeting links (via Zoom platform). The finalised Review Meetings' plan was the following:

Project	Meeting Date	AB member	Support Officer(s)
Urbalytics	Feb 22, 11:00 CET	Mihir Sarkar	Mohanad Albughdadi
AI4E20.Green	Feb 23, 10:00 CET	Pierre-Philippe Mathieu	Eleni Tsalapati
AI-RON MAN	Feb 10, 10:00 CET	Alain Arnaud	Dimitris Fragkos

Table 5: 4th Open Call Interim Assessment Meetings

Following the completion of the Review Meetings, the AB Member & SO shared the completed Assessment Forms with the Open Calls' Support Officer, where the selected projects were all considered to be successful and allowed the projects to transition to the next phase.

On March 1st, 2023, all selected projects were informed on the successful completion of the Interim Review Process and their transition to the next phase, as well as on the time-plan for the Final Assessment (M13-M14). Last, the Support Officers, who were copied in these communications, were asked to provide additional feedback to the projects on the Assessment results during their follow-up meetings.

3.5.7 Final assessment

The final assessment of the 4th Open Call projects was carried out during October 2023 (M14). The assessment was carried out as reported in Deliverable D6.1 (see Section 2.7 of D6.1 for the final assessment criteria).

The assessment panels for the final assessment phase maintained the same structure as those of the interim assessment. The format of the assessment panel for each project remains unchanged, with sessions scheduled to take place during mid-late October 2023.

In preparation for the final assessment, a series of notifications was sent out, mirroring the procedures implemented during the interim assessment. The projects and the Advisory Board members on September 13th 2023. The Open Calls Team followed up communication between respective parties until the finalisation of each final assessment meeting, and the Communications' Team prepared the respective meeting links.

The finalised Review Meetings' plan was the following:

Project	Meeting Date	AB member	Support Officer(s)
Urbalytics	Oct 10, 09:00 CEST	Mihir Sarkar	Mohanad Albughdadi
AI4E20.Green	Oct 13, 15:00 CEST	Pierre-Philippe Mathieu	Eleni Tsalapati
AI-RON MAN	Oct 10, 11:00 CEST	Alain Arnaud	Dimitris Fragkos

Table 6: 4th Open Call Final Assessment Meetings

Following the completion of the Review Meetings, the AB Member & SO shared the completed Assessment Forms with the Open Calls' Support Officer, where the selected projects were allowed to transition to the next phase.

3.6 Phase 4: Sustainability Phase

This phase facilitated the sustainability of the selected projects of the 4th Open Call. This phase started in November 2023 and concluded in December 2023. We report the actions of this phase in D6.5 as we have done in the case of the 1st Open call (please refer to Section 2.7 of D6.2 for more details). Although this phase has concluded, this approach allows us to keep the reporting concise and to maintain consistency with the reporting process. In a nutshell, activities in this phase include commercialisation and sustainability mentoring services by AI4Copernicus and the provision of the AI4Copernicus Trustmark.

4 Results

In this section, we present an overview of the results of the 2nd Open Call and the 4th Open Call. We first present the list of funded projects together with some information about each project. In addition, we include the utilisation of the AI4Copernicus cloud and bootstrapping resources and the AIoD platform in the context of the 4th Open Call.

4.1 Winning Projects from the 2nd Open Call

The list of the winners of the 2nd Open Call can be shown in the following table:

Project's Acronym	Project's Name
ARTEMIS	Artificial Intelligence and Earth Observation for monitoring of GHG emitted by landfills
PAUHIE	Project proposal against the Urban Heat Island effect

Table 7: 2nd Open Call Winning Projects

4.1.1 ARTEMIS

Country: Italy

Abstract: Landfills are a major contributor to the world's anthropogenic greenhouse gas (GHG) emissions. The reduction of GHG emitted from landfills, and from the waste management industry in general, is one of the most relevant challenges to achieve a zero-impact economy in the next decades. It would bring several environmental benefits and, most of all, would allow to reduce the impact on public health: improvement of quality of life and reduction of health related costs. The project ARTEMIS aims to exploit Artificial Intelligence to analyse complex data sets that include SENTINEL-5, SENTINEL-2 images and data collected from air quality monitoring stations deployed on the ground with the scope to provide a daily monitoring of GHG concentrations in the areas surrounding the landfills with a spatial resolution less than 1km² (target value 100m). ARTEMIS is a solution that brings both economic advantages (i.e: cost reduction for the implementation/control/verification of more environmentally sustainable waste management process and for the accomplishment of normative duties) and social benefits (e.g.: reduction of diseases, improvement of quality of life and environmental parameters) to the Community and Landfill Managers. ARTEMIS contributes, through the innovation of an industrial sector (SD-9), to the development of more sustainable cities (SDG-11) with worldwide applicability.

Page: <https://ai4copernicus-project.eu/2nd-round-of-open-calls-meet-the-winners/>

4.1.2 PAUHIE

Country: Austria

Abstract: Because of rapid climate change and the densification of the urban structure, the overheating of urban spaces, known as the "Urban Heat Island" (UHI) effect, is a significant problem in many cities. In the past, urban densification was often accompanied by increasing sealing. Therefore, urban space heats up. Because of the compactness and increased building density, the heat locked in the urban canyons keeps temperatures high even during the night. As a result,

residents depend on cooling and cannot relax at night. That creates significant health problems. This project proposal shows a possible solution to this important problem. Artificial Intelligence (AI) technologies and Earth Observation (EO) data can help to reduce the UHI effect by locating heat spots in cities, identifying the specific types of heat generators (horizontal- and vertical surfaces) and proposing targeted countermeasures. With the help of 3D printing, we can produce new components with a function like a self-shading facade.

Page: <https://ai4copernicus-project.eu/2nd-round-of-open-calls-meet-the-winners/>

4.2 Winning Projects of the 4th Open Call

The list of the Winning Projects of the 4th Open Call can be shown in the following table:

Project's Acronym	Project's Name	Domain	No of Enterprises	Type of Enterprises	Technological Status	Countries
Urbalytics	Urbalytics	Urban Monitoring and Planning	2	Startup	Technology advanced company	Italy
				SME	Technology advanced company	
AI4 E2O.Green	from Earth Observation 2 Urban Irrigation AI Optimization for urban green space overheating and greenhouse gas reduction	Agriculture	3	SMEs	Technology advanced company	Croatia
					Technology advanced company	
					Low-tech company	
AI-RON MAN	AI-based wildfiRe predictiON for the risk MANagement of TLC Infrastructures	Security	2	SMEs	Technology advanced company	Italy
					Low-tech company	

Table 8: 4th Open Call Winning Projects

4.2.1 Urbalytics

Companies: Latitudo 40 / LAND Italia

Countries: Italy

Domain: Urban Monitoring and Planning

Abstract of the project: The proposed experiment aims at demonstrating the possibility of applying machine/deep learning algorithms on Sentinel 2 images in order to estimate the Land Surface Temperature and, combining such information with land cover maps and meteorological data, to provide a clear indication of the urban areas affected by the Urban Heat Island phenomenon, of the temporal evolution of this phenomenon and, finally, to suggest a selection of Nature Based Solutions aimed at mitigating the phenomenon. The experiment will be conducted by analysing the territories of the cities of Naples and Milan.

Page: <https://ai4copernicus-project.eu/urbalytics/>

4.2.2 AI4 E2O.Green

Companies: 3D EXECUTIVE MANAGEMENT SYSTEM / LIST GEOINFORMATIKA / Profida

Countries: Croatia

Domain: Agriculture

Abstract of the project: AI4 E2O.Green will develop an Intelligent next gen deep/green tech Platform powered by AI to enable Urban Green and Golf Space Management Companies to effectively manage irrigation, assets, operations and land fields with a powerful combination of satellite and drones imagery as well as the AR and computer vision connected models. Our vision is to bridge the gap from Earth Observation 2 Energy Optimisation and bring next generation AI, IoT and Remote Sensing supported Green Space Irrigation Management to every Green Space in the EU and beyond, in order to foster the rise of climate-neutral cities while making Copernicus data an industry benchmark for sustainable irrigation and energy optimisation of aforementioned green surfaces.

Page:

<https://ai4copernicus-project.eu/ai4-e2o-green-from-earth-observation-2-urban-irrigation-ai-optimisation-for-urban-green-space-overheating-and-greenhouse-gas-reduction/>

4.2.3 AI-RON MAN

Companies: STAM S.r.l. / Gter S.r.l. / La SIA S.p.A

Countries: Italy

Domain: Security

Abstract of the project: The AI-RON MAN project aims to deliver a digital tool to dynamically predict wildfire risk in rural areas where TLC infrastructures are located, supporting first responders to preventively intervene and avoid disruption of communication service. Such tool is expected to significantly improve fire risk prediction capabilities, as well as the preparedness of first responders and the resilience of critical infrastructures. For this purpose, forecasts will be produced for a time horizon sufficient for infrastructure managers to put in place (or at least prepare) proper countermeasures and at the same time suitable to consider predictions reliable, ideally within the next 48 hours. AI-RON MAN tool will also assess the network outage due to damages caused by wildfire, estimating likelihood and impact in terms of coverage area and potential number of users affected.

Page:

<https://ai4copernicus-project.eu/ai-ron-man-ai-based-wildfire-prediction-for-the-risk-management-of-tlc-infrastructures/>

4.3 Usage of Bootstrapping Services & Cloud Resources

Bootstrapping Services: 1 of the 3 projects are using in their final product the Security Bootstrapping service from SatCen (in particular, Sentinel-2 preprocessing and change detection services) and the Agriculture bootstrapping service from Thales (Deep network for pixel-level

classification of Sentinel-2 patches), while have tested the Agriculture bootstrapping service from UNITN. No projects used Health service or Energy datasets.

Cloud Resources: In order to carry out their implementation, each of the projects received a fixed Cloud resources quota. Of the total of 3 projects, 2 projects utilised CREODIAS and have used ~30% and ~70% of the resources respectively.

4.4 AI-on-Demand Platform

During the 4th Open Call, 8 organisations and 5 AI assets were submitted in the AIoD by the projects:

Project	AIoD organisation page
Urbalytics	https://www.ai4europe.eu/ai-community/organizations/company/latitudo-40
	https://www.ai4europe.eu/ai-community/organizations/company/land-italia-srl
AI4 E2O.Green	https://www.ai4europe.eu/ai-community/organizations/company/3d-executive-management-systems
	https://www.ai4europe.eu/ai-community/organizations/company/list-labs
	https://www.ai4europe.eu/ai-community/organizations/company/profida
AI-RON MAN	https://www.ai4europe.eu/ai-community/organizations/company/stam-srl
	https://www.ai4europe.eu/ai-community/organizations/company/gter-srl
	https://www.ai4europe.eu/ai-community/organizations/company/la-sia-spa

Table 9: Table of Organisations published in AIoD by the 4th Open Call projects

Project	AIoD AI asset page
Urbalytics	https://www.ai4europe.eu/research/ai-catalog/urbalytics
AI4 E2O.Green	https://www.ai4europe.eu/research/ai-catalog/ai4-e2ogreen-ai-powered-pipeline-golf-and-grassland-monitoring
AI-RON MAN	https://www.ai4europe.eu/research/ai-catalog/ai-ron-man-wildfire-hazard-risk-assessment-backend-service
	https://www.ai4europe.eu/research/ai-catalog/ai-ron-man-wildfire-hazard-risk-assessment-webapp
	https://www.ai4europe.eu/research/ai-catalog/ai-ron-man-wildfire-hazard-risk-assessment-pipeline

Table 10: Table of AI Assets published in AIoD by the 4th Open Call projects

Finally, 3 case studies were submitted in the AIoD platform by NCSR-D, after getting the relevant input by the projects via a questionnaire. This procedure was followed in order to have a homogenised presentation of all case studies that came from the AI4Copernicus project winners:

Project	AIoD Case study page
Urbalytics	https://www.ai4europe.eu/business-and-industry/case-studies/urbalytics
AI4 E2O.Green	https://www.ai4europe.eu/business-and-industry/case-studies/ai4-e2ogreen-ai-powered-pipeline-golf-and-grassland-monitoring
AI-RON MAN	https://www.ai4europe.eu/business-and-industry/case-studies/ai-ron-man-wildfire-risk-assessment-critical-telecommunication

Table 11: Table of Case studies published in AIoD by the 4th Open Call projects

In addition, after the submission of D6.2 (which comprises the activities of the 1st Open call) the corresponding projects provided some additional assets. We add them here for completion:

Project	Page type	AIoD page
HumanityWatch	Organisation	https://www.ai4europe.eu/ai-community/organizations/company/key-aid-consulting
VALENS	AI Asset	https://www.ai4europe.eu/research/ai-catalog/rf-ais-dashboard

Table 12: Additional pages published in AIoD by the projects

All these pages were linked under the [AI4Copernicus project page](#).

5 Conclusions and Next Steps

In this deliverable, we presented the activities carried out in the context of the 2nd and 4th Rounds of Open Calls procedures. No more actions for the 2nd Open Call are left to be reported. However, in this deliverable we didn't report the actions regarding the provisioning of the sustainability phase to the winning projects and the Trustmark granting process of the 4th Open Call (ref. Section 3.6 on why we had done that). These actions will be reported in Deliverable D6.5.

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