



## **NEANIAS**

### **Novel EOSC services for Emerging Atmosphere, Underwater and Space Challenges**

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**Document: D10.3 Dissemination, outreach and liaison activities report. Report on 1st period activities and achievements of WP10.**

**30/04/2021**



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## Disclaimer

NEANIAS is a Research and Innovation Action funded by European Union under Horizon 2020 research and innovation program, via grant agreement No. 863448.

NEANIAS is project that comprehensively addresses the 'Prototyping New Innovative Services' challenge set out in the 'Roadmap for EOSC' foreseen actions. It drives the co-design, delivery, and integration into EOSC of innovative thematic services, derived from state-of-the-art research assets and practices in three major sectors: underwater research, atmospheric research and space research. In each sector it engages a diverse set of research and business groups, practices, and technologies and will not only address its community-specific needs but will also enable the transition of the respective community to the EOSC concept and Open Science principles. NEANIAS provides its communities with plentiful resource access, collaboration instruments, and interdisciplinary research mechanisms, which will amplify and broaden each community's research and knowledge generation activities. NEANIAS delivers a rich set of services, designed to be flexible and extensible, able to accommodate the needs of communities beyond their original definition and to adapt to neighbouring cases, fostering reproducibility and re-usability. NEANIAS identifies promising, cutting-edge business cases across several user communities and lays out several concrete exploitation opportunities.



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## Abstract

This document is the dissemination, outreach and liaison activities report, report on 1st period activities and achievements of WP10 of NEANIAS project.

The work carried out in the WP10 framework focused on three main objectives: the communication (to increase NEANIAS visibility in terms of activities and outcomes, receive valuable feedback, inform the society and enhance market-uptake for the developed EOSC services), the dissemination (to position NEANIAS as a top-rank European Union EOSC project and EOSC Services Hub and to boost commercial exploitation strategy of the deployed EOSC services) and the user engagement and outreach (to share knowledge for further development and optimization of the considered services and raise awareness and demonstrate how NEANIAS services can cater to the needs and thematic end-user requirements).

Outreach task force has been in permanent and close contact with the entire consortium, managing the knowledge and project activities for communication, dissemination and engagement purposes. The activity is organized by means of four tasks to be carried out throughout the life of the project (month 1 to month 36) on a recurring basis: (i) communication, dissemination and outreach activities, (ii) branding, online presence and material establishment, (iii) stakeholder's engagement and (iv) Open Science initiatives and Research Infrastructures liaison activities with the support of all the partners according to their field of knowledge, specialty and connection with the ecosystem.

The document presents:

- The work plan for the work package, with goals and planned tasks.
- The report of activities carried out during the period, considering the digital channels, the material and templates, the articles and publications, the events and activities participated, and the open science initiatives and research infrastructures liaison activities.
- The WP 10 organization.
- The established KPIs and achievements.

## 1. Work Package 10

### 1.1. WP Objectives

The objectives of WP 10 Communication, Dissemination & Outreach are (i) to establish a visual and textually recognizable impression of the project and its work; (ii) to maximise the impactful visibility of project's work and achievements; (iii) to engage stakeholders that can support sustainability of the project via both update and feedback provisioning and can further empower the vision around EOSC and Open Science and (iv) to provide essential information and knowledge on the NEANIAS project to 3rd parties activating esp. in H2020 and EOSC landscape.

Its achievement was organised in 4 tasks, which are presented below.

### 1.2. WP Tasks

Below are presented the tasks to be carried out, according the grant agreement.

#### 1.2.1. T10.1 Communication, dissemination and outreach activities

The task started with contribution to the Deliverable D10.1 plan of activities, identifying means and timeframe of activities, in combination with the work of T10.3, on stakeholder identification and targeting. The plan, constantly updated, is the road map for the activities of the work package in all directions. The task defines the outreach task force and assigns responsibilities for supervising and conducting activities. It also includes:

- Assignment and quality reviewing of blog posts and press releases that will be generated by invitation to respective project teams and partners.
- Actively support the promotion of the Open Calls of WP5, contribute to develop an appealing value proposition for the Open Calls and ensure that potential applicants are aware and apply.
- Track and report on the project of work, in foreseen reports as well as in internal meetings.
- Contribute to the relevant best practices essay issued by the WP participants.
- Production of interviews or webcasts on projects activities and achievements.
- Production of multimedia presentations with selection and editing of content provided by technical, business and research activities of the project.
- Produce project's newsletter on at least an annual basis.
- Delivery of scientific publications.

The task is led by NKUA with the support of all the partners.

The task progressed appropriately according to the evolution of the project. The content generation and review model has been defined, both of technical-scientific and general informative nature, and they have been published on the different platforms and on the NEANIAS website. The multimedia content, including demonstrators or broad-spectrum presentations, have been uploaded to the YouTube channel and promoted from all NEANIAS digital channels. Likewise, all the necessary resources have been made available to the Open Call for Innovation (more details in the Deliverable "D5.4 Open Call for Innovation, publication of open call offerings, rules for participation, criteria for selection and grants offered").

### **1.2.2. T10.2 Branding, online presence and material establishment**

The task started with the delivery of visual and textual representation of the project to be used in project dissemination activities, considering the website, the digital channels, face to face or online presentations, events, and printed ones. It also delivered guidelines for promotion and use of materials delivered, as well as some guides and training material for its use. Apart from templates, the task delivered early in the project lifetime generic material for reuse in several face to face, printed and on-line occasions and in several languages. This material evolves in the course of the project, both for renewal of the project “face” but also as material matures around the deliveries of the technical and business work packages. The task included:

- establish the web site of the project, apply the branding of the project on its visuals, and maintain it for the duration of the project.
- establish 4 social media platform presence points, style them, monitoring and granting access as required.
- establish and operate mailing lists for newsletter, general and targeted communication.
- deliver and maintain templates for various documents and activities according the needs.
- deliver baseline, generic content in the form of posters, leaflets and textual components.

The task is led by RICOH with the support of NKUA. The task was also supported by CITE, who technically contributed in shaping the document templates for reuse by the project and to a lesser degree to the launch of the web site and launched Facebook channel, as well as INAF who led the implementation of project’s logo.

All the activities pertaining to this task were carried out adequately during the established period, carrying out all the updates and revisions that the needs of the project as well as its partners required.

### **1.2.3. T10.3 Stakeholders engagement**

The task started with the layout of an effective stakeholder engagement plan that allowed NEANIAS to locate and engage the targeted audience defined in the Communication, Dissemination, Engagement and outreach Plan and influencing individuals. The activities for engagement of stakeholders utilised the instruments provided by T10.1, that include, but are not limited to, email and web-based communication (focus on social media), generic promotion material, participation to events and conferences etc.

Furthermore, they expand on those with stakeholder-targeted

- material produced jointly with other project’s work package teams able to address a specific audience,
- events (workshops, sessions in conferences, meetings) planned for specific groups and
- establishment of interactions with key persons representing influential movements and organisations.

The task established the means for disseminating information inside the project, and mainly via internal reports and meeting sessions, the work done with stakeholders, and seeks to draw substantial feedback from them, in order to empower project's activities.

The process was largely boosted by the WP5 activities on Open Business Innovation Call and organises some events (workshops and parallel sessions in events) and work meetings that aimed to capture, in separate and joint occasions, all researchers from research sectors on boarded the project as well as innovators with business perspective.

The task also liaises with OpenAIRE to deliver thematic "portals" for access to Open Access knowledge for the communities engaged in the project.

The task is led by RICOH with the support of NOA, GARR, MEE0, INNOMINE, JUCOBSUNI, UNIMIB, AMU, SZTAKI, INAF, ATHENA, NKUA.

The global coronavirus pandemic (still active) impacted on face-to-face events, and many activities evolved towards digital. Attendance and participation in events, congresses, exhibitions, fairs and others was changed to virtual and the meetings were moved online. The main concern was the capacity to interact with individuals, resolved by the activity of thematic partners and their ability to involve their ecosystem and the ability of scientific partners to establish collaborations with other projects and innovation centres.

#### **1.2.4. T10.4 Open Science initiatives and Research Infrastructures liaison activities**

As NEANIAS seeks to maximize its impact and optimize the use of resources, an essential part is the establishment of liaison activities with initiatives/taskforces/projects that operate in the areas of Open Science, the EOSC and Research Infrastructures (including ESFRI and EOSC Hub satellite projects). The task seeks, locates and establishes the links with those initiatives, according to the plan, and monitors the result of those activities and reports back to all project structures regarding the progress and results of those activities. The task includes:

- Lay MoUs with that establish commitment for the work to be jointly performed.
- Plan and conduct join meetings and participations to events.
- Organise other joint activities, such as workshops, demos, booths, papers etc.
- Stimulate the acquisition of feedback and adoption of both counterparts' results.
- Report on the outcome of the work perform and the benefits yielded for engaged parties.

The task is led by ATHENA with the support of GARR, JUCOBSUNI, RICOH, SZTAKI, INAF, NKUA.

Collaborative activities began to be fruitful when NEANIAS achieved its first project results, allowing knowledge, resources and challenges to be shared with other projects and organizations. All the activities, achievements and synergies established were communicated and disseminated through all NEANIAS channels.

### **1.3. Deliverables Planning**

Project kick-off was the launch of dissemination activities, presenting the first generation of templates and organization of committees.

### 1.3.1. Deliverables Description

The deliverables of this WP are detailed below, specifying its codification, title and description:

- D10.1 Communication, Dissemination, Outreach and Engagement Plan (Draft), report on vision, strategy, and draft plan of opportunities, targets and outcomes expected and baseline dissemination material – regularly updated after delivery.
- D10.2 Project web site, site with visual alignment to the strategy with initial content.
- D10.3 Dissemination, outreach and liaison activities report, report on 1st period activities and achievements of WP.
- D10.4 Communication, Dissemination, Outreach and Engagement Plan (Final), updated / final strategy and activity plan.
- D10.5 NEANIAS open event, execution of one open event on NEANIAS (delivery up to 2 months after the date start).
- D10.6 Dissemination, outreach and liaison activities report, summarizing all activities performed by WP and partners the results and feedback obtained by their audience / counterparts.

### 1.3.2. Deliverables timeline

Finally, the scheduling for deliverables is presented in the following table:

Code	Deliverable Title	Lead beneficiary	Type	Dissemination Level	Month
D10.1	Communication, Dissemination, Outreach and Engagement Plan (Draft)	RICOH	Report	Public	2
D10.2	Project web site	RICOH	Websites, patents filling, etc.	Public	2
D10.3	Dissemination, outreach and liaison activities report	RICOH	Report	Public	18
D10.4	Communication, Dissemination, Outreach and Engagement Plan (Final)	RICOH	Report	Public	18
D10.5	NEANIAS open event	RICOH	Websites, patents filling, etc.	Public	32
D10.6	Dissemination, outreach and liaison activities report	RICOH	Report	Public	36

*Table 1 WP planning.*

## 2. Report of activities

### 2.1. Digital channels

#### 2.1.1. NEANIAS project website

NEANIAS established a dedicated website for the project ([www.neanias.eu](http://www.neanias.eu)), applying the branding of the project on its visuals and keeping it updated considering both the content and the new features and integrations. The purpose of the website is to proactively promote the project and its final results by providing targeted information to various audiences within and beyond the project own community.

The design and development of NEANIAS portal was presented in a specific deliverable belonging to the same WP10. The web project was presented in the document “D10.2 Project Web Site” on month 2.

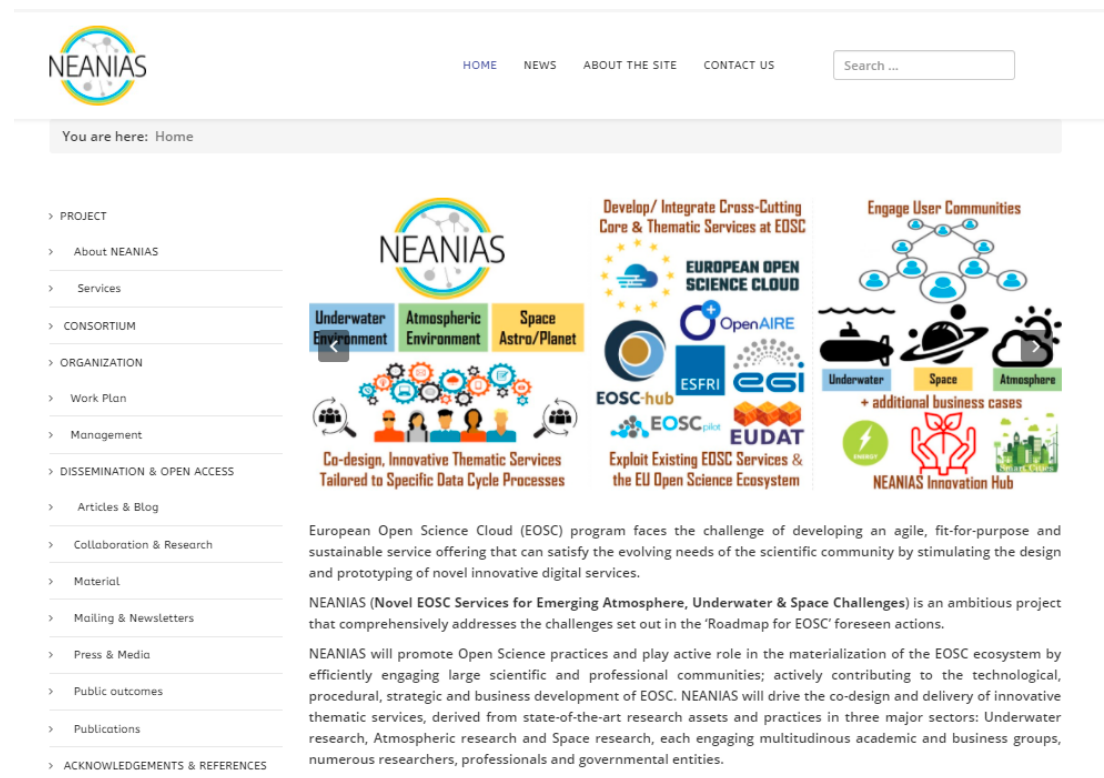


Fig. 1 NEANIAS website

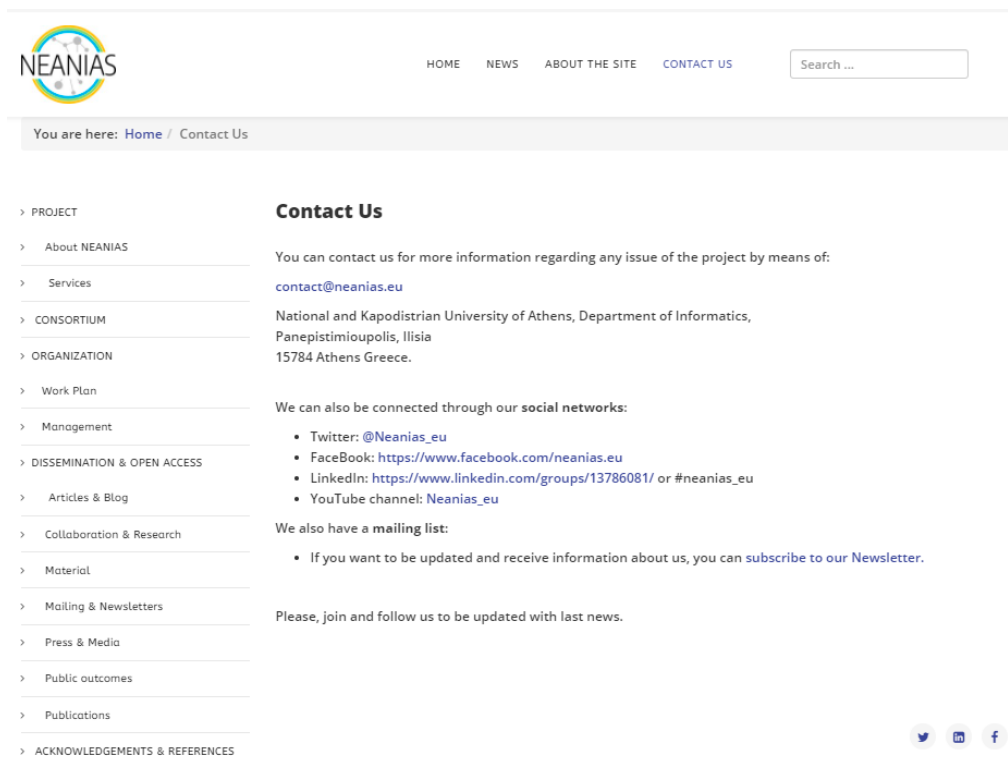
#### 2.1.1.1. NEANIAS Web project

The NEANIAS site presents all the information related to NEANIAS, including:

- Information about the project: the goals, the challenges and the services to be offered.
- Information about the consortium and our organization, the work plan and our management.

- Dissemination and open access content: Articles, blog, collaborations, research, dissemination material, press and media references, public outcomes, publications.
- Mailing & Newsletters access and management.
- Acknowledgements and references.
- Events and activities, with updated information exhibitions about fairs, exhibitions, congresses, webinars, workshops, demos, ...
- Dedicated section to the NEANIAS Open Call.
- News, with the latest information and updates.
- Service information (Contact information, GDPR, cookies policies, ...).

The website also acts as a reference contact point for any person interested in the projects, providing all the data to be contacted (including the created mail account):



*Fig. 2 NEANIAS website as a reference contact point*

From technical perspective, the website also hosts useful tools and features, such as:

- Embedded links to NEANIAS social networks accounts (Twitter, Facebook, LinkedIn, YouTube).
- Gateways to allow the visitor to interact with NEANIAS social networks (Twitter, Facebook, LinkedIn, YouTube) from their accounts in order to promote the endorsement and the dissemination.
- Really Simple Syndication service.
- Enhanced search engine.
- Labelling of content.

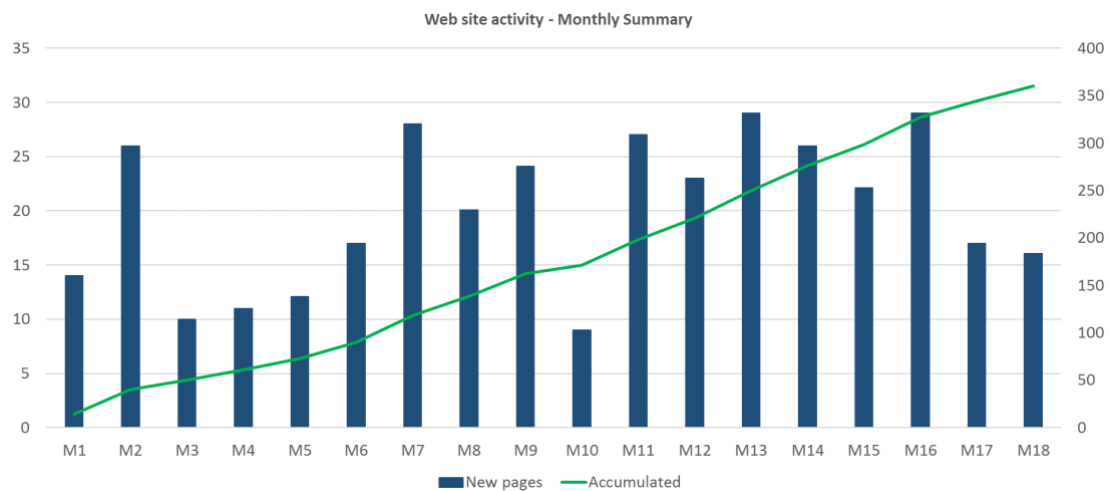


- Integration with e-mail.
- Newsletter management: contact subscription, management of preferences, un-subscription).
- Connection to others NEANIAS services.
- Integration with NEANIAS Open Call forms.

The website has been technically maintained (BBDD, backups, releases management, ...) and upgraded with new services as it became needed or requested.

### 2.1.1.2. Metrics

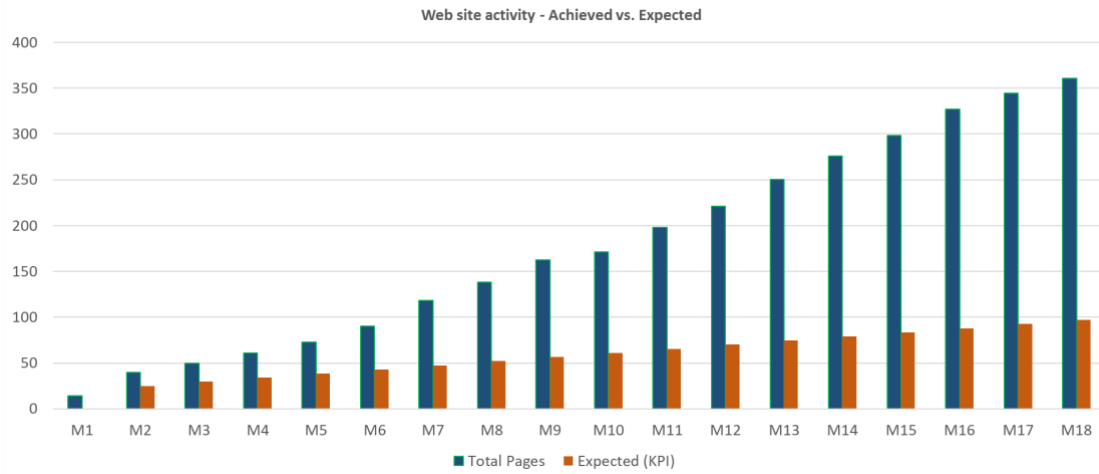
The website has been updated much more than once a week, as shown in the figure below. The objective was to be the point that collects and disseminates the main past or future events in the life of the project.



*Fig. 3 website activity (month and accumulated)*

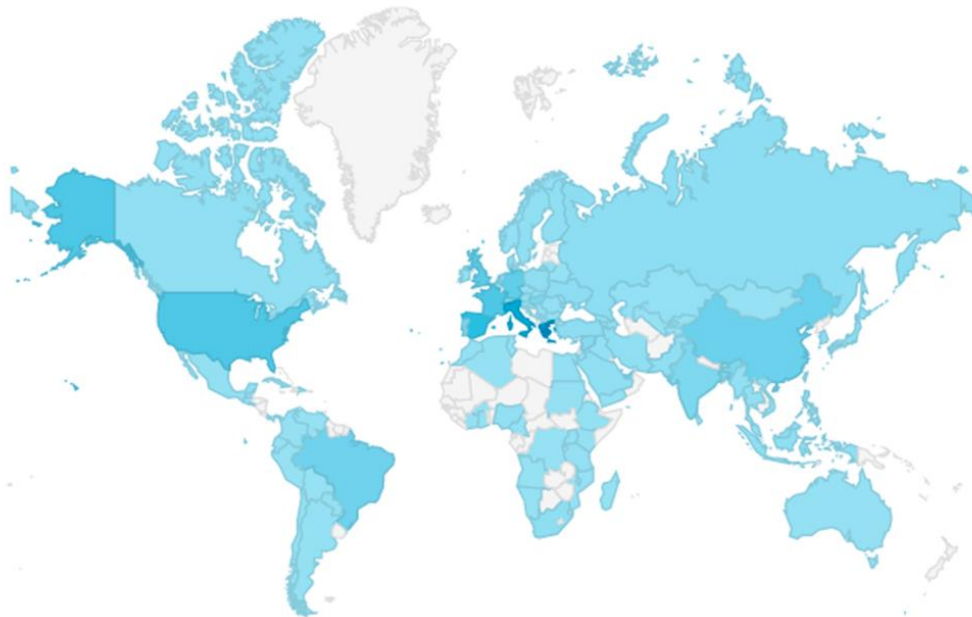
Month 1 and month 2 corresponds to the web setup, with the project presentation. As the project activity grew, the website reflected all the work done.

The resulting figures reflect an intense, continuous and transversal work, far exceeding the initial commitments established in the Grant Agreement.



**Fig. 4 Web site activity. Results and expected (KPI)**

An analytics account was created to track website activity. As a result, it can be stated that NEANIAS is well known in Europe and throughout the world. The following figures illustrate the impact of NEANIAS website, considering the country of access to NEANIAS website.



**Fig. 5 Main visitors to NEANIAS website per country**

Following the distribution of visitors considering the country (only the top 20 are shown).

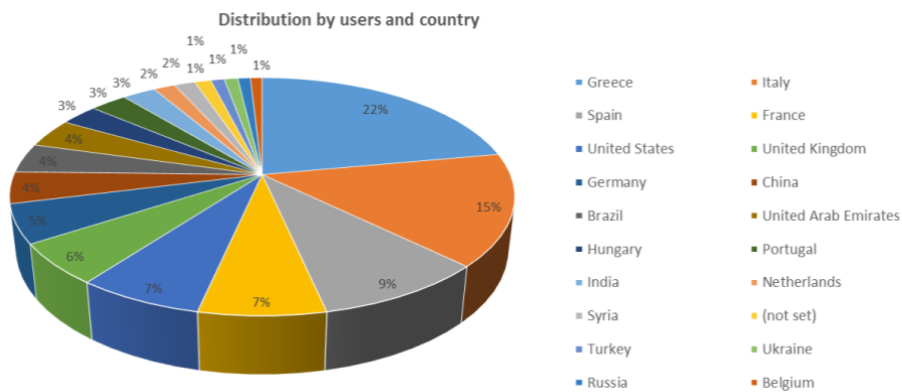


Fig. 6 Distribution of website visitors per country (top-20)

Next, the following figures illustrate the impact of NEANIAS website, considering the number of sessions by country.

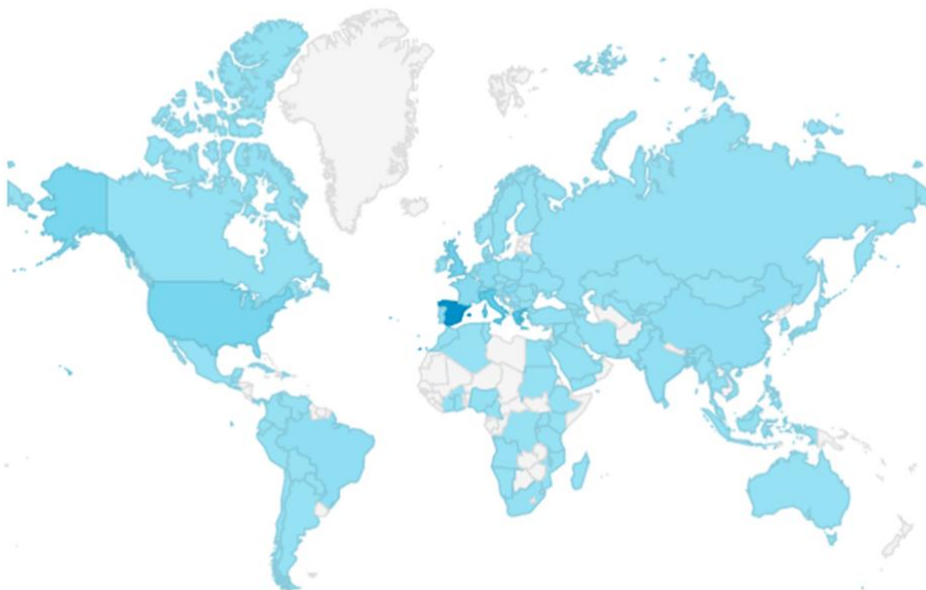


Fig. 7 Main sessions to NEANIAS website per country

Following the distribution of sessions considering the visitor’s country (only the top 20 are shown).

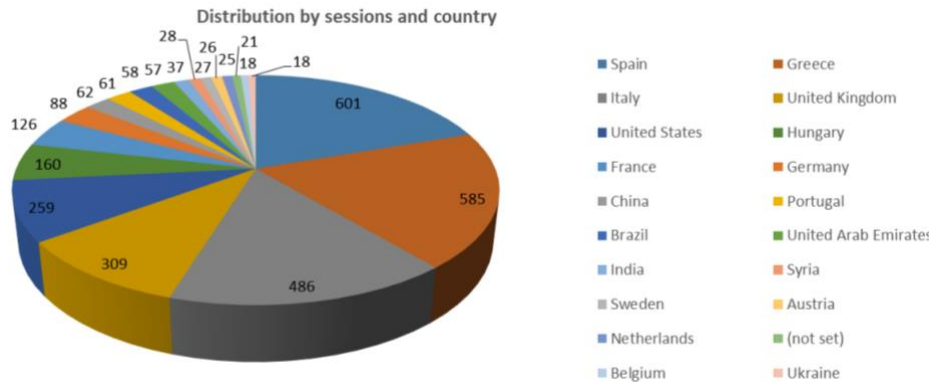


Fig. 8 Distribution of website sessions per country (top-20)

Finally, a summary of the evolution of the number of sessions on the website.

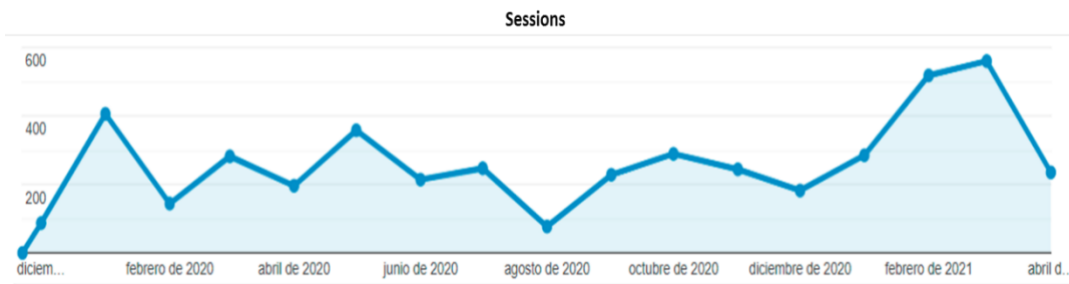


Fig. 9 Website sessions

### 2.1.2. Social media channels

NEANIAS established 4 social media platform presence points, styled them, granted access as required, and periodically tracked using tools built into each platform.

Social media channels have been constantly updated with relevant content, which made it possible to reach relevant groups through the communication and dissemination of information about news, achievements or any relevant event in an easy and fast way. Accessible to anyone who may be interested in NEANIAS, the social platforms are aimed at innovators, researchers, scientists, ICT specialists, businesspeople, policy makers, press, media, disseminators and the general public, promoting the engagement with NEANIAS.

A task of attracting and engaging followers is carried out, involving NEANIAS partners, the ecosystem and taking advantage of the events organized or participated by NEANIAS and its project members (conferences, congresses, workshops, webinars, fairs, exhibitions, etc. hackathons, etc.). ... Joint activities with other projects are also a means of attracting users.

The following social channels considered have been Twitter, Facebook, LinkedIn and YouTube. In order to make it easy to find and branding the project, all of them have a common name (**neanias\_eu**) and are aligned to the project identity principles.

#### 2.1.2.1. Twitter

An official account for NEANIAS has been created, managed and updated on twitter: **Neanias\_eu**. The next figure shows the main page.



Fig. 10 NEANIAS Twitter Home page

The account has been used for short and quick messages to make the audience aware of any news or achievements, allowing them to interact with NEANIAS and offering them access to all the additional information on our website. Twitter has also been the best channel to connect with relevant stakeholders (including other European and H2020 projects) for cross promotion.

The next figure is an example and illustrates the analysis of relevant tweets.



Fig. 11 NEANIAS tweet (sample)

Twitter served both to communicate project content and to interact with other users/agents and be endorsed by third parties, as well as to interact and engage the team, as it is illustrated in the next samples.



Fig. 12 NEANIAS project quoted and endorsed by other projects on Twitter



Fig. 13 NEANIAS, interacting with project members and ecosystem, and promoting national languages for local events

### 2.1.2.2. Facebook

An official account for NEANIAS has been created, managed and updated on Facebook: **Neanias\_eu**. The next figure shows the main page.

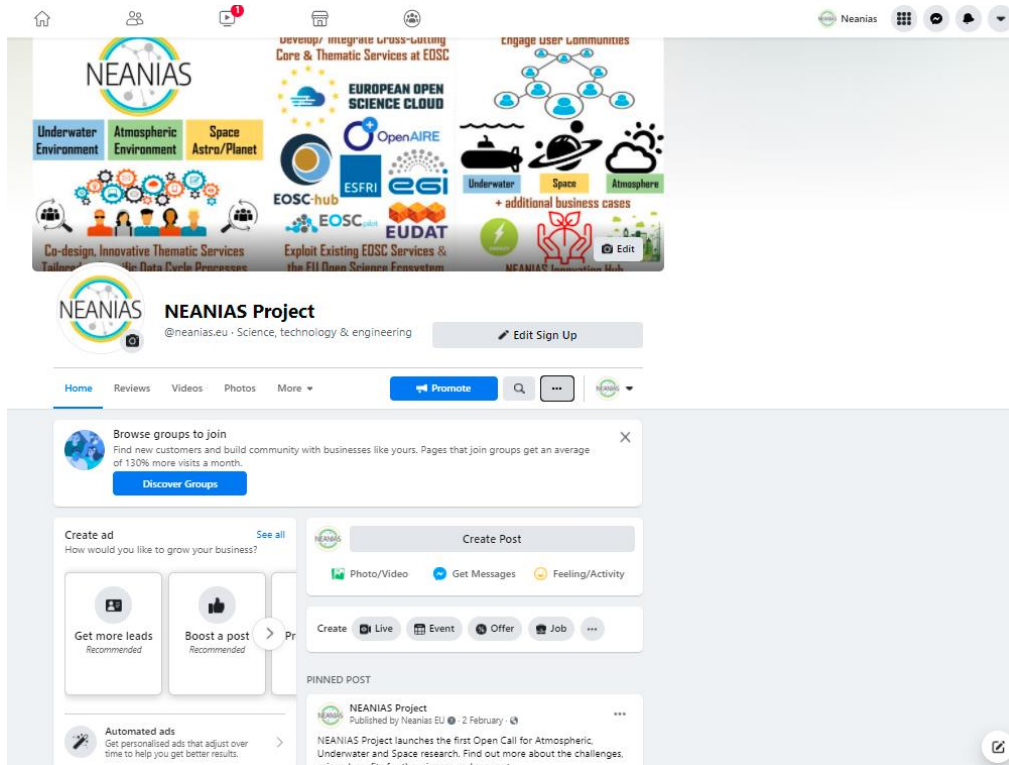


Fig. 14 NEANIAS Facebook Home page

Facebook allowed us to communicate and disseminate in a similar way than Twitter, with longer messages and more detailed information. The following figure is an example and illustrates a representative publication.

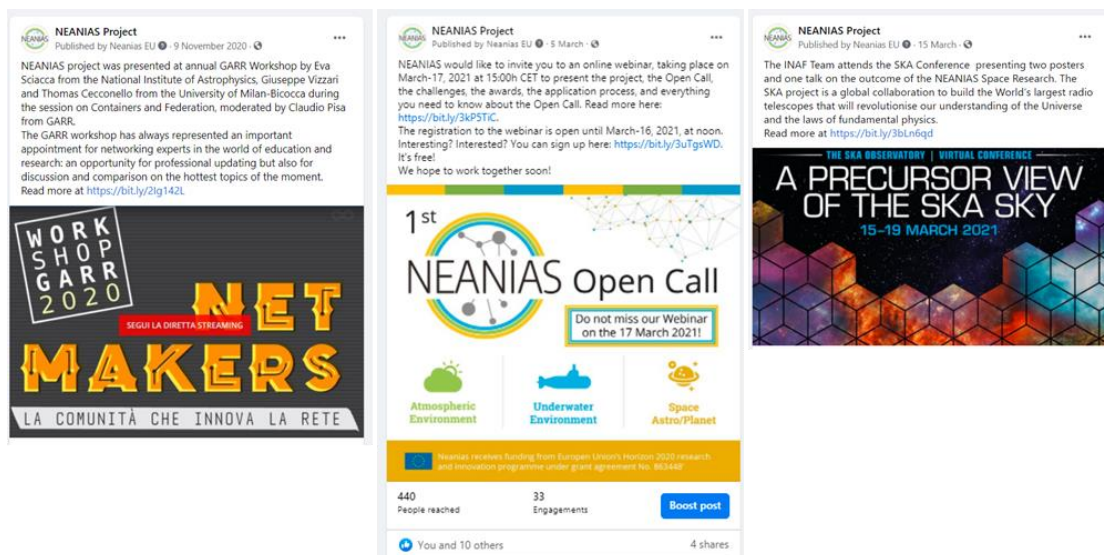


Fig. 15 NEANIAS messages in Facebook (samples)

From Facebook, NEANIAS also participated in several groups to discuss topics of interest related to the project, be updated and facilitate the promotion of activities and events, as shown in the next picture.

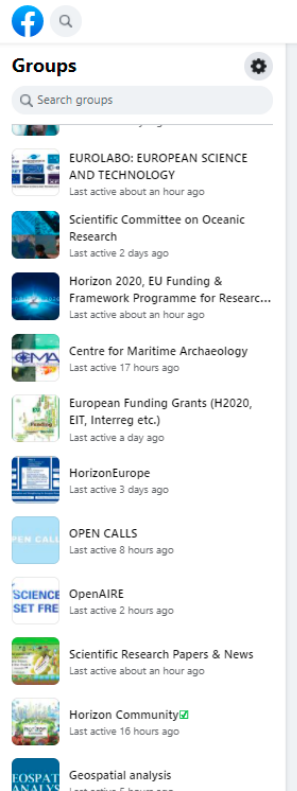


Fig. 16 Facebook groups participated by NEANIAS (sample)

### 2.1.2.3. LinkedIn

A NEANIAS group has been created, managed and updated on LinkedIn (**NEANIAS project**, [www.linkedin.com/groups/13786081/](http://www.linkedin.com/groups/13786081/)) and a hashtag to promote any post (#neanias\_eu). The next figure shows the main page.



Fig. 17 NEANIAS LinkedIn group



LinkedIn allowed us to communicate and disseminate in a similar way to Twitter, with longer messages and more detailed information, among much more professional profiles.

The following figure is an example and illustrates a representative publication.

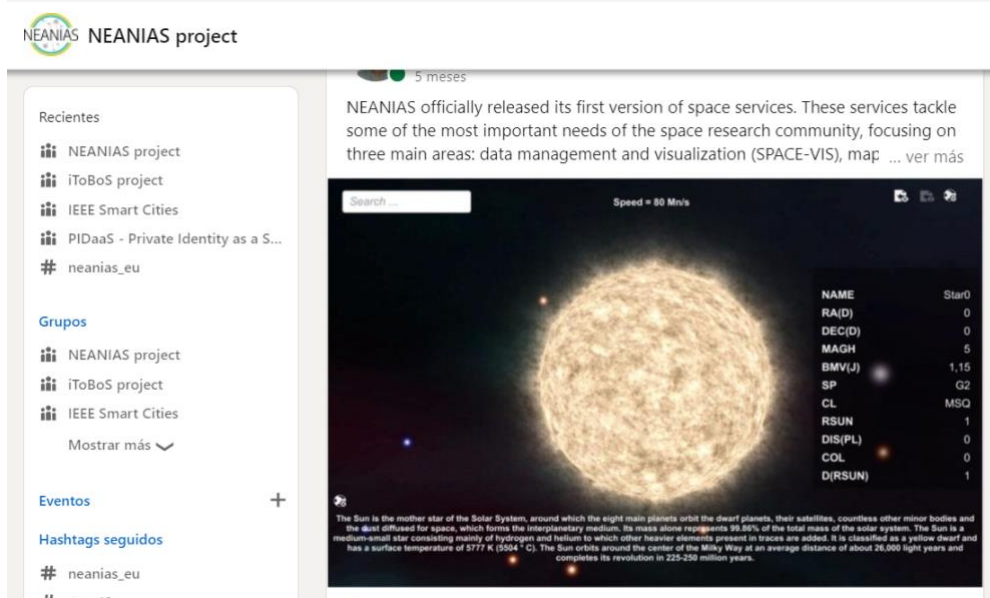


Fig. 18 NEANIAS post on LinkedIn group (sample)

#### 2.1.2.4. YouTube channel

An official channel for NEANIAS was created, managed and updated on YouTube: [Neanias\\_eu](https://www.youtube.com/channel/UC...). The next figure shows the main page.

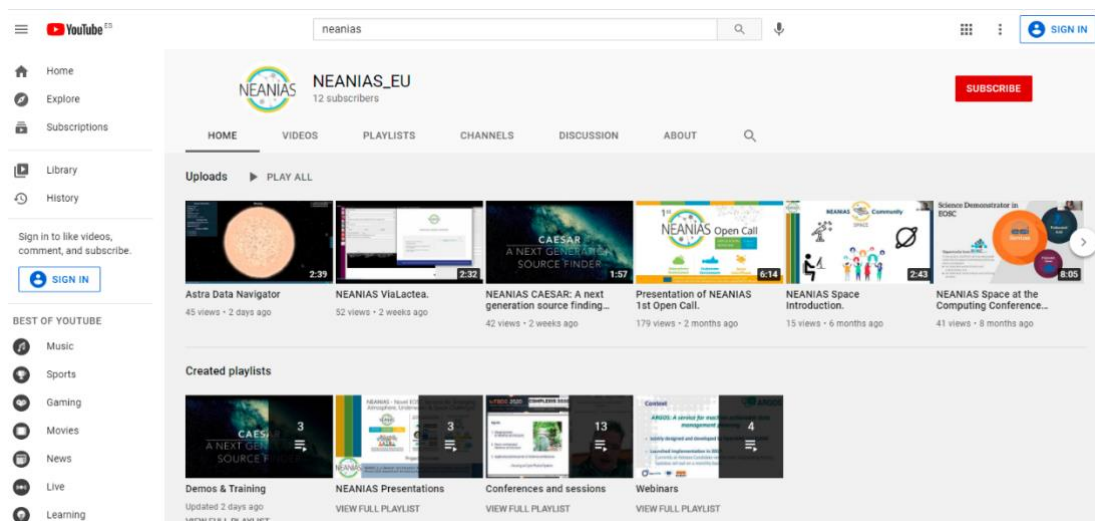


Fig. 19 NEANIAS channel on YouTube

The channel hosts multimedia content, including presentations, demos and training material, conferences, recorded webinars and others. The following figure is an example and illustrates a representative video.

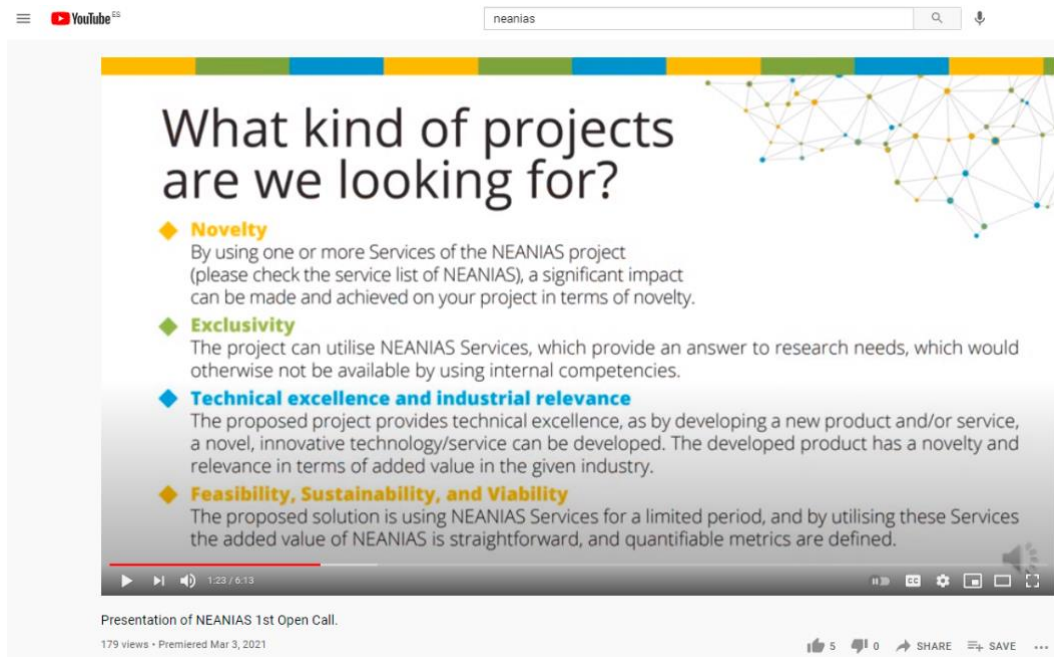


Fig. 20 NEANIAS video on YouTube channel, providing information about the Open Call (sample)



Fig. 21 NEANIAS video on YouTube channel, presenting Space services (sample)



Fig. 22 NEANIAS video on YouTube channel, presenting an Underwater service (sample)

### 2.1.2.5. Tracking and metrics

NEANIAS activity in social networks has continued frequent and intense, both in the generation of content and in the interaction with followers and stakeholders. As a result, a high impact has been achieved, both in the ecosystem and in the general public, as illustrated in the following figures.

On twitter, 16 messages have been published on a monthly average during M1-M18, highly exceeding the project objectives. The monthly rate is closely related to project activity.

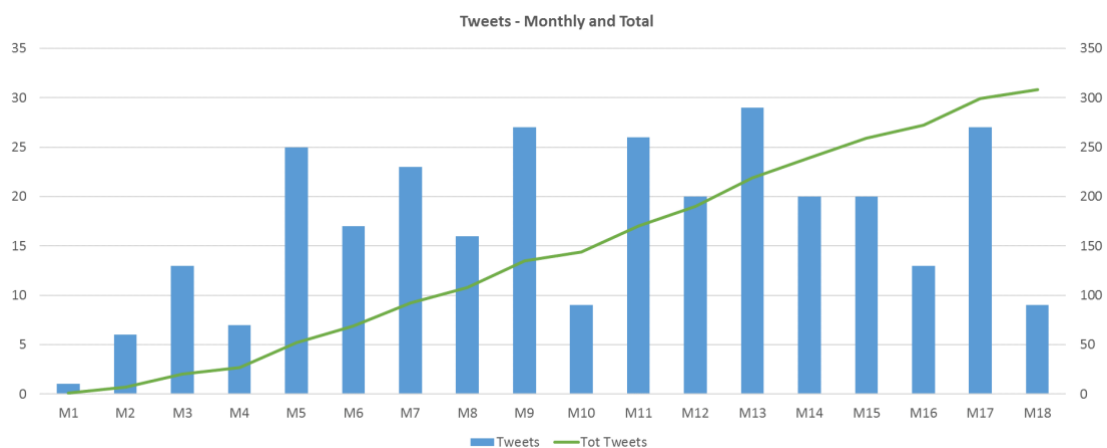


Fig. 23 NEANIAS tweets, monthly and accumulated

On M18, more than 205.000 tweet impressions have been achieved, already exceeding the goal of 30.000 established by the end of the project. The figure below shows the monthly evolution.

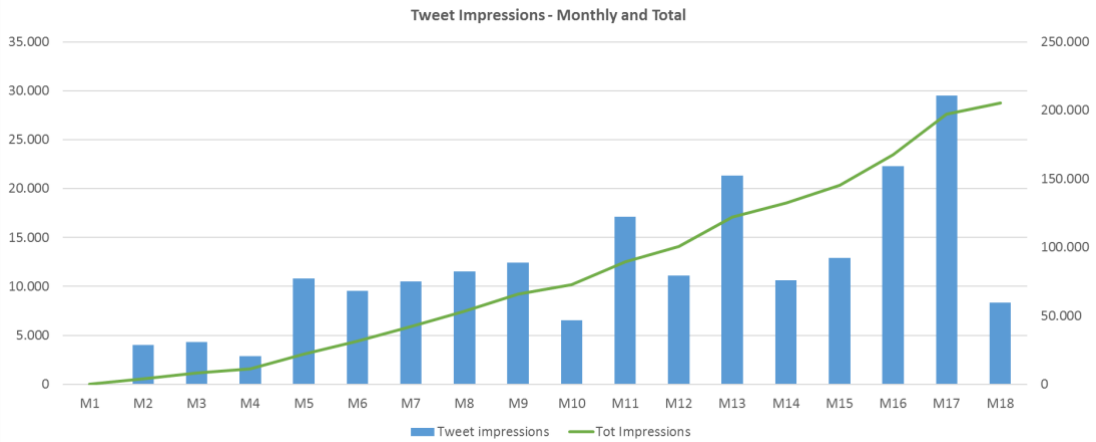


Fig. 24 NEANIAS tweet impressions, monthly and accumulated

The analysis of the number of initial visitors to NEANIAS twitter profile is an indication of how the project arouses interest, as well as the extent to which it is becoming known. The impact is closely linked to relevant events (such as Hackathons, Open Call, participation in events and congresses, ...).

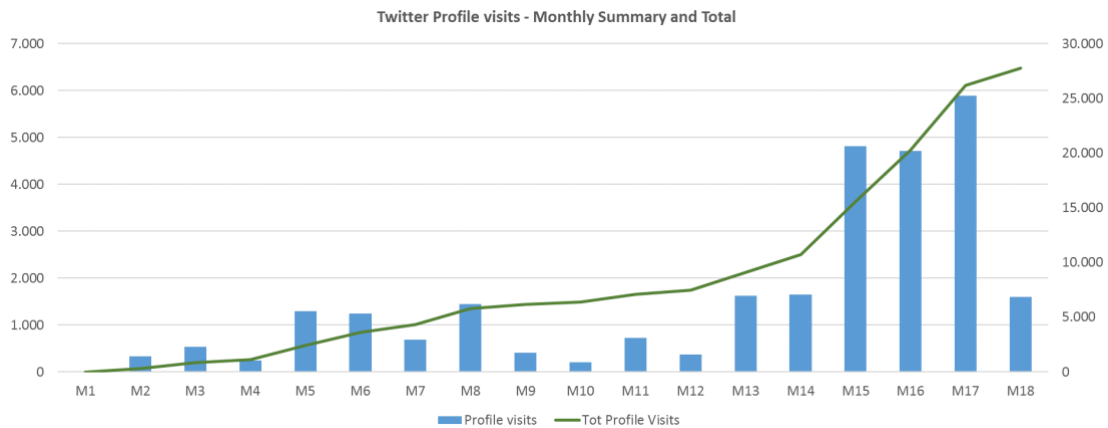


Fig. 25 Visits to NEANIAS twitter profile, monthly and accumulated

Finally, an aggregated monthly analysis of NEANIAS followers by network type. Unsurprisingly, Twitter and Facebook are the main ones. LinkedIn is not as widespread as they are, considering exclusively professional profiles, while access to YouTube is made when new content is published.

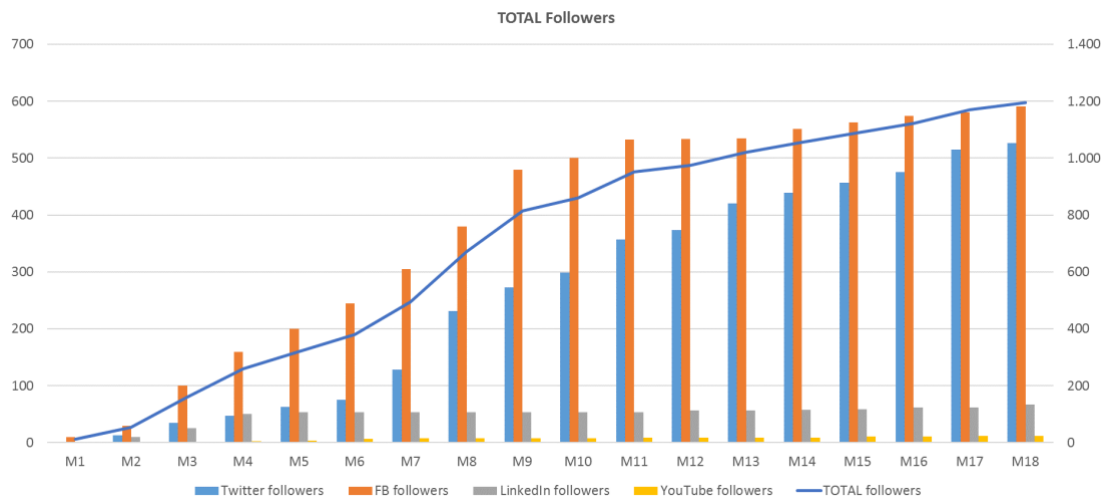


Fig. 26 NEANIAS followers, monthly and accumulated

Due to the global coronavirus pandemic, all face-to-face activities have been severely restricted. To overcome this limitation, all the digital channels of the project have been strengthened and online activity has been strongly reinforced.

All the previous figures show the results obtained. The following figure illustrates the impact obtained compared to what was planned at the beginning of the project under normal conditions.

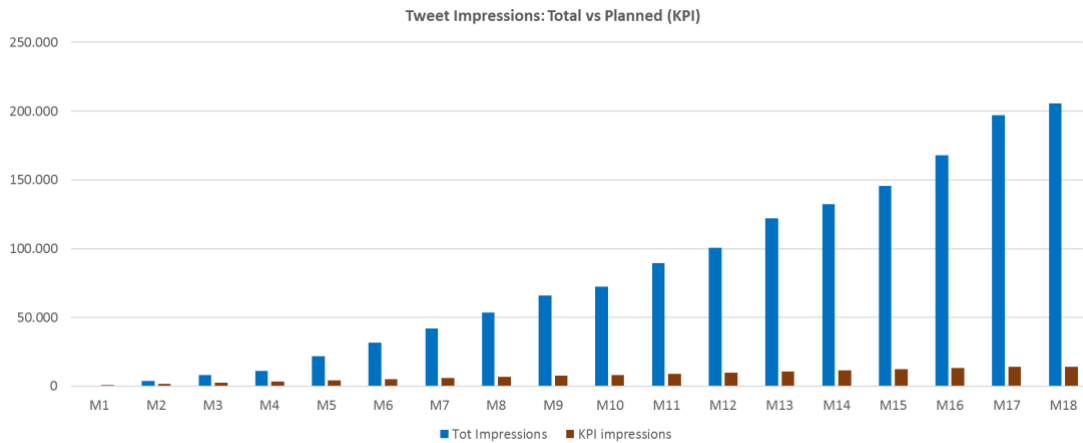


Fig. 27 Impressions on Twitter. Obtained and planned

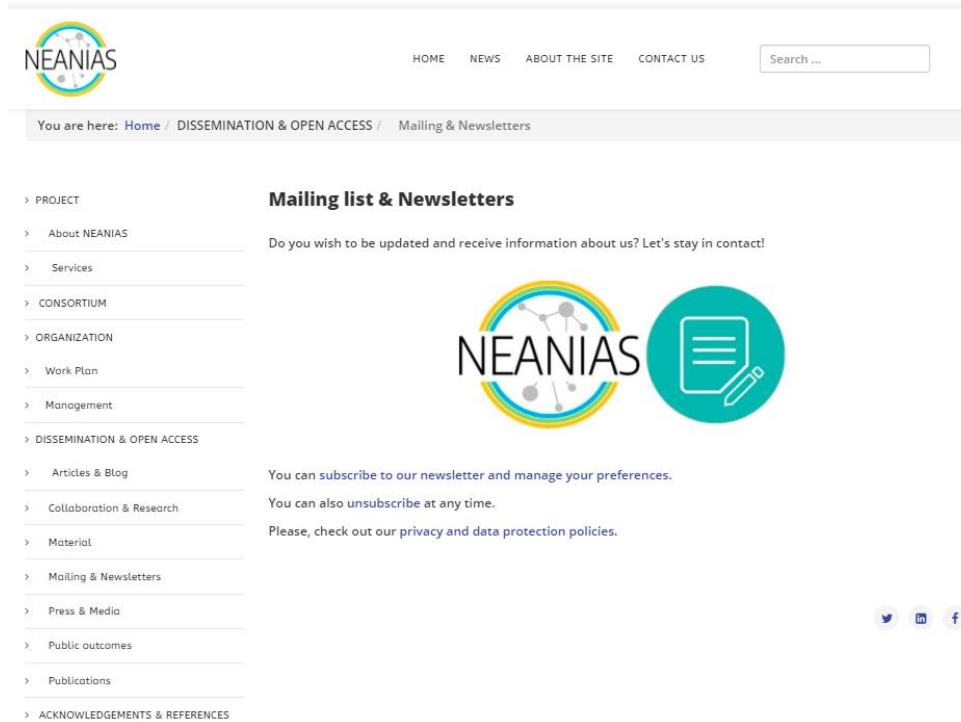
### 2.1.3. Mailing & Newsletter

NEANIAS established and operated a mailing lists for newsletter for general and targeted communication.

#### 2.1.3.1. Management

The management of the contact list is organized from the NEANIAS website. From a dedicated page, the mail services are offered to the audience, complying with the requirements of GDPR.

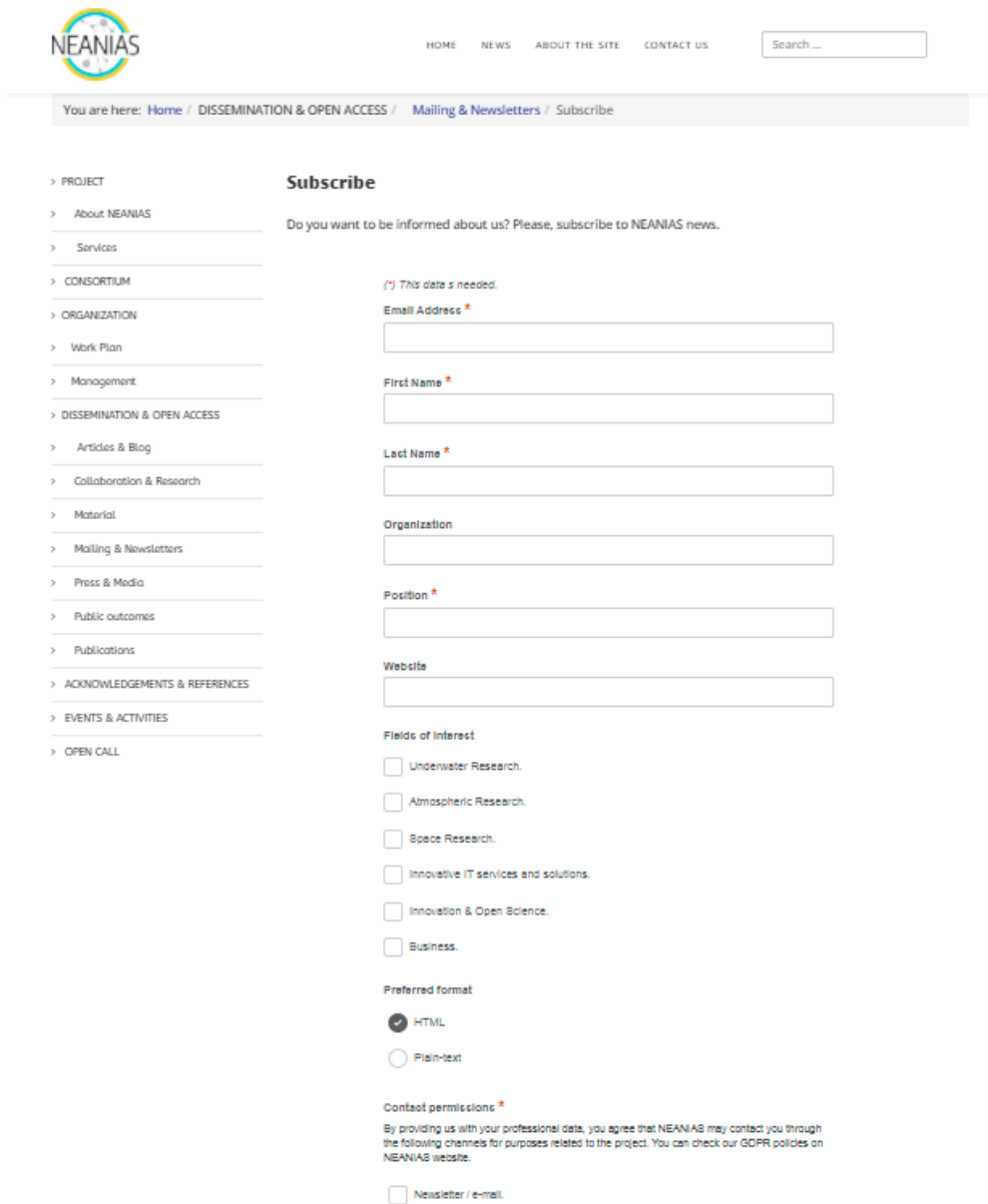
Any contact can request to be connected to NEANIAS populating a form that give us some information about the profiles of NEANIAS audience.



*Fig. 28 Dedicated page on NEANIAS website for mailing purposes*

Preference management (update, unsubscribe) can also be done from any email sent, which includes the information and a link in the footer.

Next, the figure illustrates the subscription form to NEANIAS newsletter. In any moment, the user can easily unsubscribe from the list. The form is integrated with NEANIAS mail engine, that saves all the provided information in a secure manner.



The screenshot shows the NEANIAS website's subscription form. At the top left is the NEANIAS logo. To the right are navigation links: HOME, NEWS, ABOUT THE SITE, CONTACT US, and a search bar. Below the navigation is a breadcrumb trail: You are here: Home / DISSEMINATION & OPEN ACCESS / Mailing & Newsletters / Subscribe.

The main content area is titled "Subscribe". It asks, "Do you want to be informed about us? Please, subscribe to NEANIAS news." Below this is a list of fields:

- Project:** A vertical menu on the left lists various project categories, with "Mailing & Newsletters" selected.
- Form Fields:**
  - Email Address \***: A text input field.
  - First Name \***: A text input field.
  - Last Name \***: A text input field.
  - Organization**: A text input field.
  - Position \***: A text input field.
  - Website**: A text input field.
- Fields of Interest:** A list of checkboxes for: Underwater Research, Atmospheric Research, Space Research, Innovative IT services and solutions, Innovation & Open Science, and Business.
- Preferred format:** Radio buttons for HTML (selected) and Plain-text.
- Contact permissions \*:** A checkbox for "Newsletter / e-mail".

At the bottom of the form, there is a small disclaimer: "By providing us with your professional data, you agree that NEANIAS may contact you through the following channels for purposes related to the project. You can check our GDPR policies on NEANIAS website."

*Fig. 29 Subscription form to NEANIAS Newsletter from NEANIAS website*

### 2.1.3.2. Newsletters

Three newsletters have been published during M1-M18, complying with the committed biannual rate. The production of newsletters includes the design of templates, IT configuration and integrations, the edition of content and the user management. The topics have been studied with the participation of all partners, presenting achievements, news, participation in events, general and scientific information and much more, considering the needs of the project stage (for instance, the Open Call was a main topic in Newsletter #3).

General information about the project and the members was also provided.

Following, some images illustrating the released newsletters.

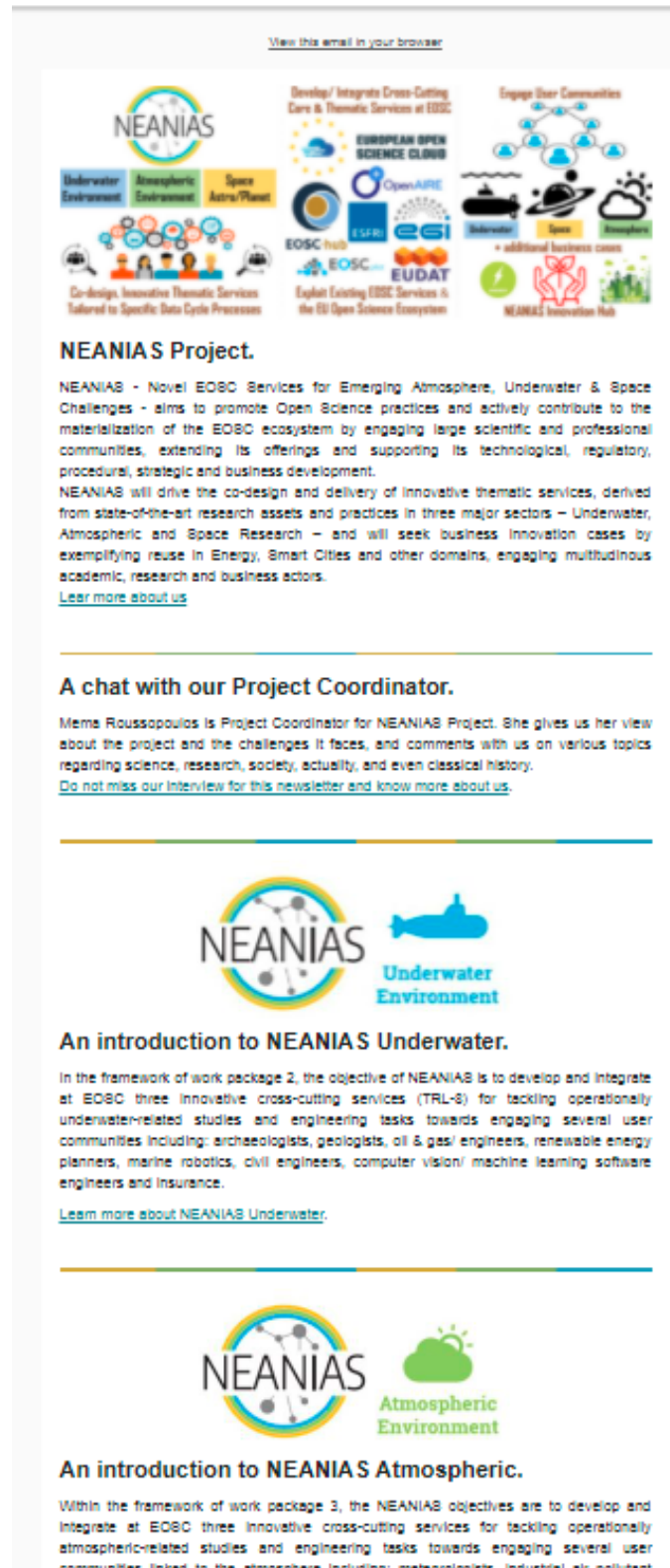


Fig. 30 NEANIAS Newsletter 1 (extract)




Next, an extract from the 2<sup>nd</sup> release of NEANIAS newsletter:

The core services are the way that NEANIAS delivers functionalities within its systems architecture through decoupled functionalities composed by software and documentation. These services interact with each other in order to exchange data and provide the user some combined, higher-level functionality.

[Read more about NEANIAS core services.](#)

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### EOSC integration in NEANIAS's 1st year

NEANIAS project aims to develop and integrate services to the European Open Science Cloud (EOSC) in the field of Underwater, Atmospheric and Space research. The objective is to share a set of thematic services with scientific researchers of EOSC communities on these fields. The NEANIAS service management system, which will support the design, development and delivery of NEANIAS services, has already been defined.

[Read more about NEANIAS EOSC integration.](#)

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### NEANIAS at EOSC Project Expo: findings and award!

NEANIAS actively participated at EOSC Project Expo. This joint event was organized as part of the Realising the European Open Science Cloud by the EOSC-hub, FREYA and SBHOC projects, and was the first virtual exhibition showcasing initiatives and projects of the EOSC framework.

The event was very fruitful for NEANIAS. The exhibition provided us with many opportunities to present the challenges of NEANIAS and our services, both to the general and thematic public. We also had the opportunity to participate in the EOSC framework, to interact with the Innovation ecosystem, make business contacts with potential stakeholders, stay updated through many interesting conferences and last, but not least, to promote open science initiatives and research infrastructures (liaison with other projects). Furthermore, we were awarded!

[Read more about NEANIAS at EOSC Project Expo.](#)

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### More about us? NEANIAS Inside

NEANIAS is not only innovation and technology, but also the people who make it possible and the scientific community to which we address our work. We are pleased to publish this conversation with Simone Mantovani, Managing Director at Meteorological and Environmental Earth Observation (MEEEO) in order to make NEANIAS project better known from different perspectives.


Fig. 31 NEANIAS Newsletter 2 (extract)

Next, an extract from the 3<sup>rd</sup> release of NEANIAS newsletter:

## NEANIAS launches its first Open Call for Atmospheric, Underwater and Space research

The first Open Call for the NEANIAS project was launched on February 8, 2021 in order to utilize the NEANIAS services, develop novel technologies and strengthen European researches in the Atmosphere, Underwater and Space service sectors. Apply to the NEANIAS Open Call if you intend to elaborate a concept of a novel technology and/or you intend to validate your start-up or your new development by working with leading European research institutions and companies! The application ideas will be selected by NEANIAS experts representing the Atmospheric, Underwater and Space thematic areas.

A total of 24.000 € non-refundable support, of which at least 12.000 € will be allocated through this First Open Call, for each winner to support the work on their business case. The winners of the Open Call will also gain access to the infrastructure and knowledge base of NEANIAS and they will have the opportunity to work intensively with leading European institutions on their technology in a 3-months timeframe.



### Everything you need to know about our Open Call

On NEANIAS Project website you can find anything you need to know about the Open Call. Please, [do not hesitate to visit us!](#) You can also follow us on [Twitter](#), [Facebook](#) and [LinkedIn](#) to stay updated! For any additional information on the Open Call you can also contact us and we will help you with any need you may have. We have a dedicated e-mail address for you: [OpenCall@neanias.eu](mailto:OpenCall@neanias.eu).

### Online webinar for NEANIAS Open Call

NEANIAS team would like to invite you to an online webinar, taking place on the March-17, 2021 at 16:00h CET to present the project, the Open Call, the challenges, the awards, the application process, and everything you need to know about the Open Call.

**What do you get?**

Gain insider insight to current trends and emerging technology support for your research project, start-up and company. This webinar will give a first-hand look inside the application process, what is offered and the potential support opportunities through EU-funded initiative NEANIAS.

**This is the programme:**

- 15:00-15:10 Innomine Group is presenting the NEANIAS project and the aims of the Open Call of NEANIAS.
- 15:10 - 15:30 Representatives of the Underwater, Atmospheric and Space thematic areas talk about the aims of the Open Call, in technical terms.
- 15:30-16:00: Open questions.

The registration to the webinar is open until March-18, 2021, at noon. Interesting? Interested? Please, [sign up on our webinar registration form](#). It is free!

### Open Call video Presentation

Do you want us to present the NEANIAS Open Call, the challenges, the awards and the application process? Do not miss this video presentation that explains everything you

Fig. 32 NEANIAS Newsletter 3 (extract)

Finally, an excerpt from the footers of the NEANIAS newsletter, common to any release

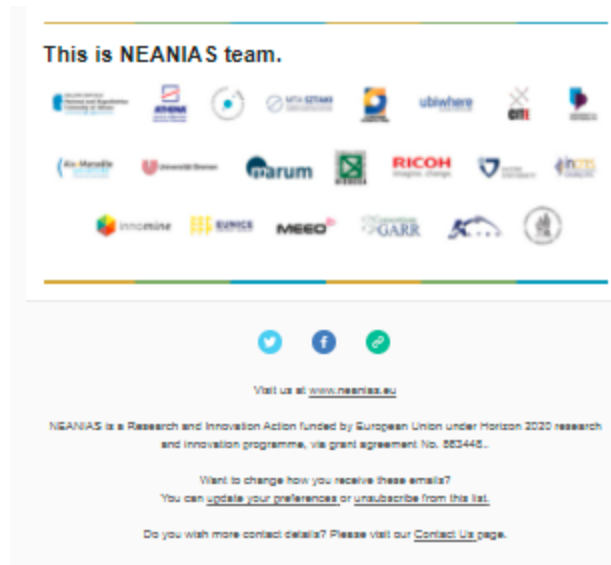


Fig. 33 NEANIAS Newsletter. footer

## 2.2. Material and templates

### 2.2.1. NEANIAS identity

The first step was to create a digital identity and branding for NEANIAS by means of



Fig. 34 NEANIAS logo. The first one (on the left) and the new one (on the right)

The first one (on the left) was created for the proposal and used initially. The new, updated and more modern logo (on the right) was created later and replaces the previous one. Once the new logo was approved, all the templates were redone.

Additionally, the thematic services also have its own image, as shown below.



Fig. 35 NEANIAS logos for thematic services

Besides the three high-level themed logos for Underwater, Atmospheric and Space, each service has its own logo.

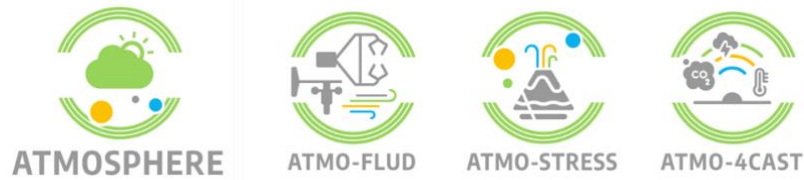


Fig. 36 NEANIAS Atmospheric thematic services identity

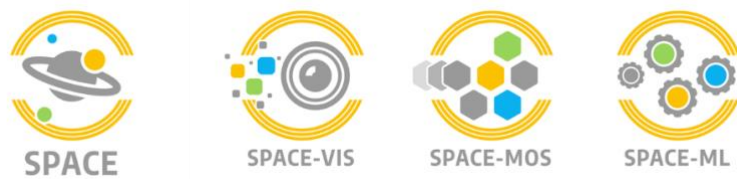


Fig. 37 NEANIAS Space thematic services identity



Fig. 38 NEANIAS Underwater thematic services identity

Furthermore, for significant events, special designs have been developed. Following some examples.



Fig. 39 NEANIAS Open Call design (1)



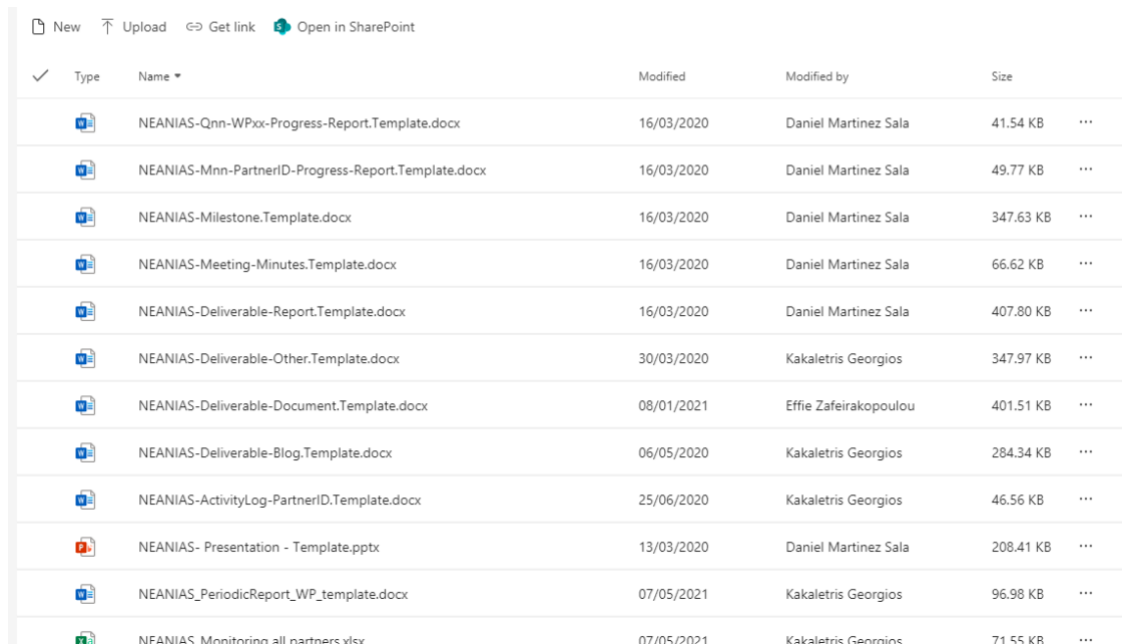
Fig. 40 NEANIAS Open Call design (2)



Fig. 41 NEANIAS banner, endorsing a NEANIAS event by the ecosystem in different languages

### 2.2.2. Document templates

The WP10 team produced a set of templates for various documents and activities. All of them were maintained and updated according to the needs, hosting them in NEANIAS SharePoint and training the team for their use, as it is illustrated in the figure below:



✓	Type	Name	Modified	Modified by	Size
	Word Document	NEANIAS-Qnn-WPxx-Progress-Report.Template.docx	16/03/2020	Daniel Martinez Sala	41.54 KB ...
	Word Document	NEANIAS-Mnn-PartnerID-Progress-Report.Template.docx	16/03/2020	Daniel Martinez Sala	49.77 KB ...
	Word Document	NEANIAS-Milestone.Template.docx	16/03/2020	Daniel Martinez Sala	347.63 KB ...
	Word Document	NEANIAS-Meeting-Minutes.Template.docx	16/03/2020	Daniel Martinez Sala	66.62 KB ...
	Word Document	NEANIAS-Deliverable-Report.Template.docx	16/03/2020	Daniel Martinez Sala	407.80 KB ...
	Word Document	NEANIAS-Deliverable-Other.Template.docx	30/03/2020	Kakaletris Georgios	347.97 KB ...
	Word Document	NEANIAS-Deliverable-Document.Template.docx	08/01/2021	Effie Zafeirakopoulou	401.51 KB ...
	Word Document	NEANIAS-Deliverable-Blog.Template.docx	06/05/2020	Kakaletris Georgios	284.34 KB ...
	Word Document	NEANIAS-ActivityLog-PartnerID.Template.docx	25/06/2020	Kakaletris Georgios	46.56 KB ...
	PowerPoint Presentation	NEANIAS- Presentation - Template.pptx	13/03/2020	Daniel Martinez Sala	208.41 KB ...
	Word Document	NEANIAS_PeriodicReport_WP_template.docx	07/05/2021	Kakaletris Georgios	96.98 KB ...
	Excel Spreadsheet	NFANIAS_Monitoring_all_partners.xlsx	07/05/2021	Kakaletris Georgios	71.55 KB ...

*Fig. 42 Document templates on NEANIAS SharePoint*

The application of the templates includes the following:

- Deliverables
- Report activities.
- Meetings
- Project presentations
- Baseline text for specific purposes (mailings, invitations, ...) related to any special need proposed by the project team.

In any templates the project graphics are applied as appropriate, customizing for particular purposes when necessary.

Next figure illustrates a “.ppt” template to be used in any activity related to the project. The current document is another example, edited from a project “.doc” template.

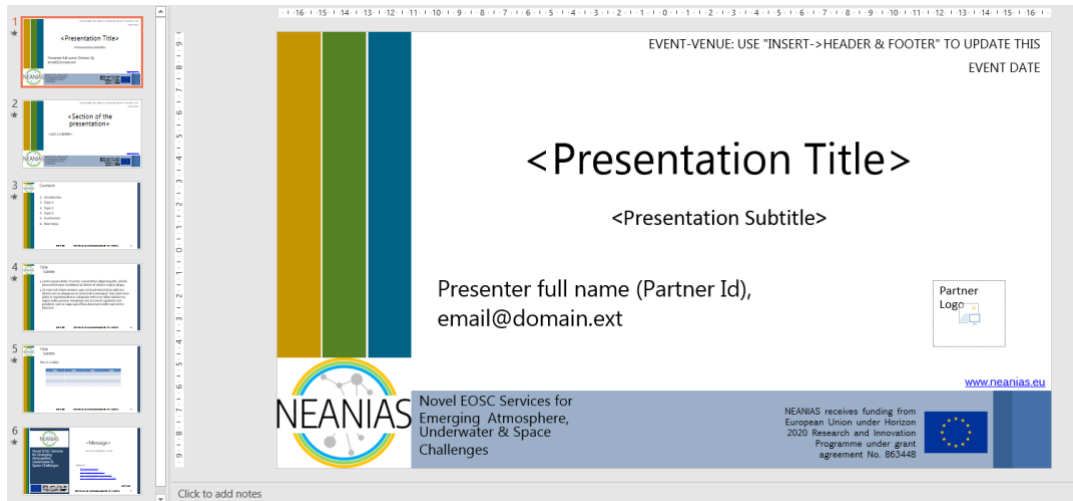


Fig. 43 Template for presentations

In addition, templates for special needs were also created. The example below illustrates a call for the Open Call.



Fig. 44 Open Call presentation

Below, a baseline text showing how to promote NEANIAS digital channels:

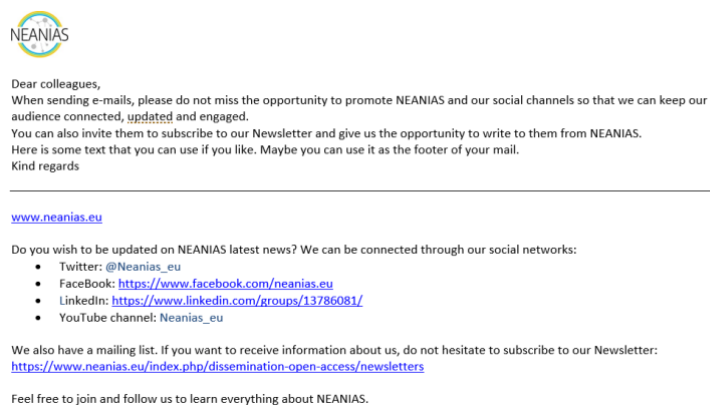


Fig. 45 baseline text provided to promote NEANIAS channels

### 2.2.3. Dissemination material

The WP produced, delivered and updated baseline generic content in the form of posters, leaflets and textual components. All the material is available on the project SharePoint.

Following, some samples:

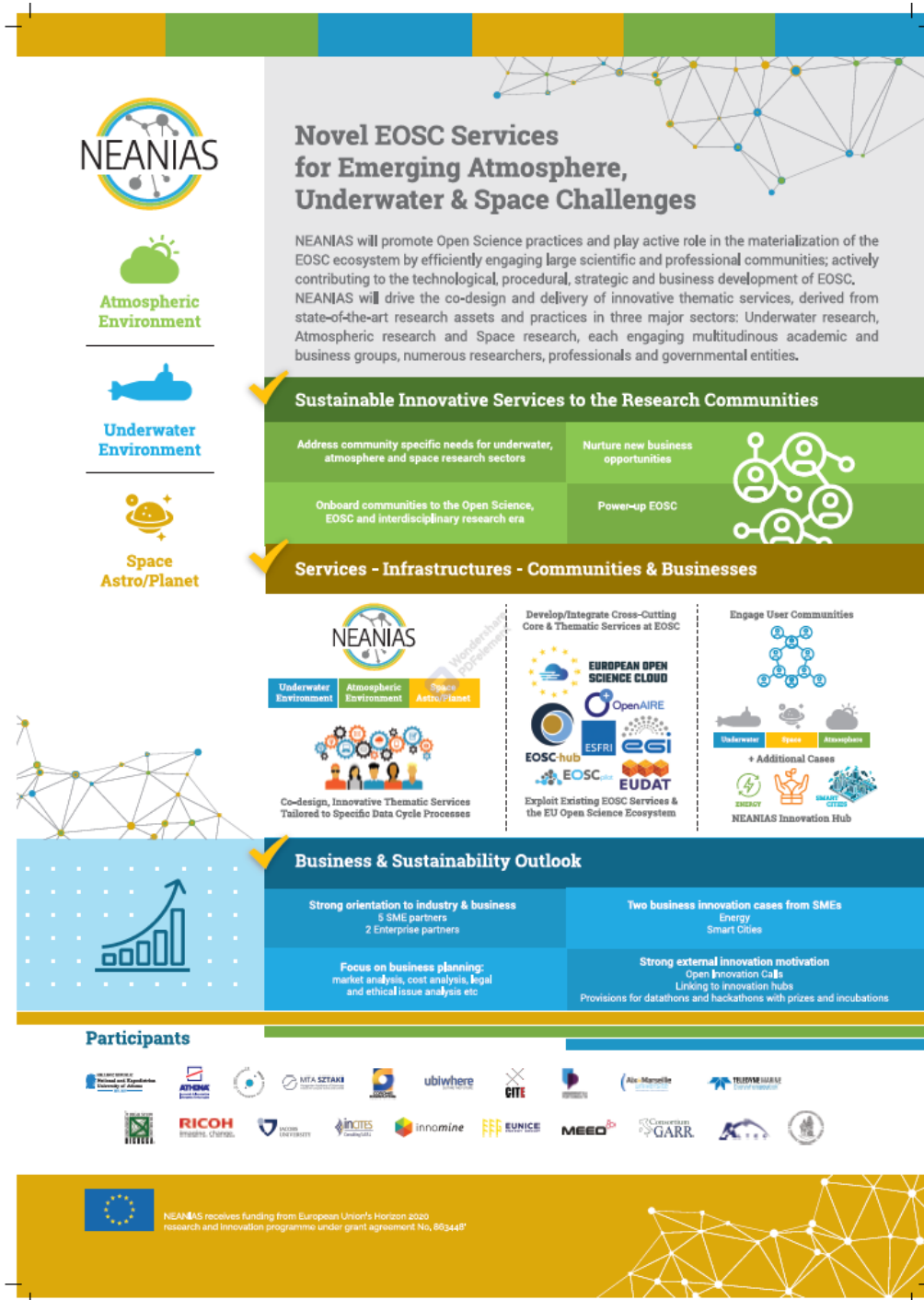


Fig. 46 NEANIAS poster



**Atmospheric Environment** | **Underwater Environment** | **Space Astro/Planet**

**NEANIAS**

**Novel EOSC Services for Emerging Atmosphere, Underwater & Space Challenges**

NEANIAS will promote Open Science practices and play active role in the materialization of the EOSC ecosystem by efficiently engaging large scientific and professional communities; actively contributing to the technological, procedural, strategic and business development of EOSC.

NEANIAS will drive the co-design and delivery of innovative thematic services, derived from state-of-the-art research assets and practices in three major sectors: Underwater research, Atmospheric research and Space research, each engaging multitudinous academic and business groups, numerous researchers, professionals and governmental entities.

**✓ Sustainable Innovative Services to the Research Communities**

Address community specific needs for underwater, atmosphere and space research sectors	Nurture new business opportunities
Onboard communities to the Open Science, EOSC and interdisciplinary research era	Power-up EOSC

**✓ Services - Infrastructures - Communities & Businesses**

<p>Underwater Environment   Atmospheric Environment   Space Astro/Planet</p> <p>Co-design, Innovative Thematic Services Tailored to Specific Data Cycle Processes</p>	<p>Develop/Integrate Cross-Cutting Core &amp; Thematic Services at EOSC</p> <p>EUROPEAN OPEN SCIENCE CLOUD</p> <p>OpenAIRE   ESFRI   EGI   EOSC Hub   EOSC   EUDAT</p> <p>Exploit Existing EOSC Services &amp; the EU Open Science Ecosystem</p>	<p>Engage User Communities</p> <p>Underwater   Space   Atmosphere</p> <p>+ Additional Cases</p> <p>NEANIAS Innovation Hub</p>
---	--	---

**✓ Business & Sustainability Outlook**

<p>Strong orientation to industry &amp; business 5 SME partners 2 Enterprise partners</p> <p>Focus on business planning: market analysis, cost analysis, legal and ethical issue analysis etc</p>	<p>Two business innovation cases from SMEs Energy Smart Cities</p> <p>Strong external innovation motivation Open Innovation Calls Linking to innovation hubs Provisions for challenges and hackathons with prizes and incubations</p>
---	---

**Participants**

NEANIAS receives funding from European Union's Horizon 2020 research and innovation programme under grant agreement No 101019719

Fig. 47 NEANIAS banner (1)



Fig. 48 NEANIAS banner (2)

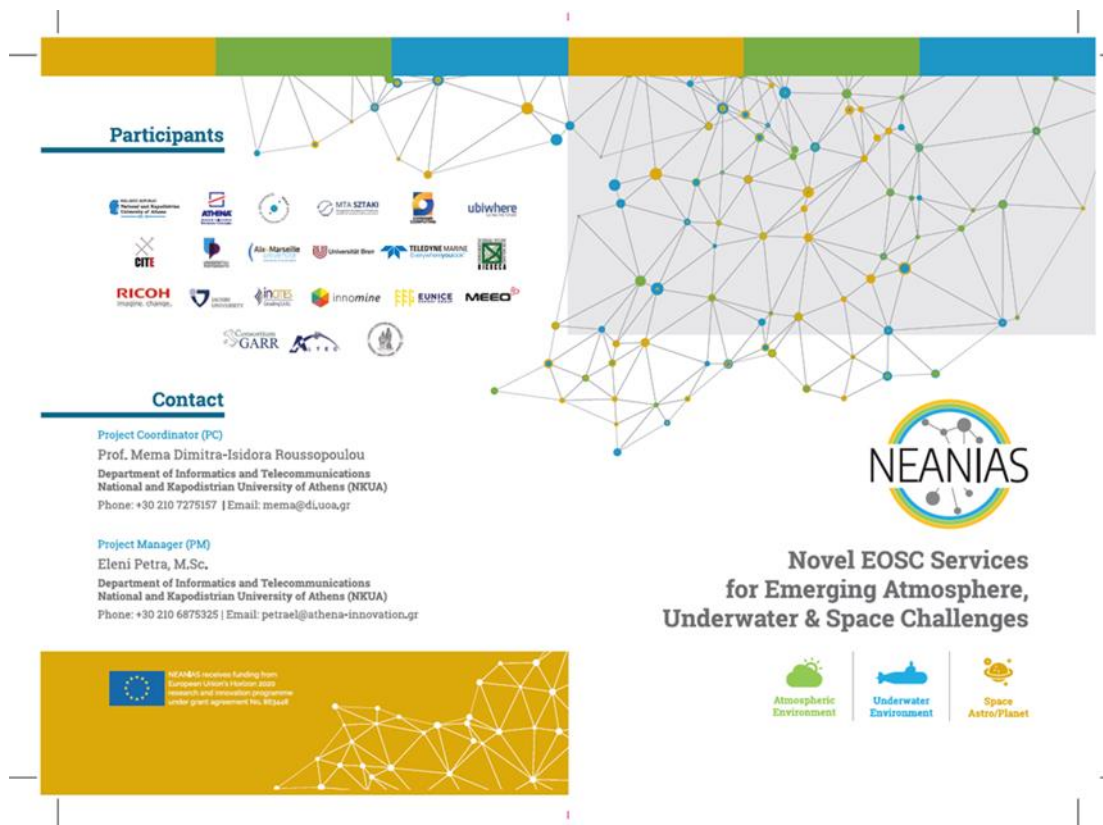
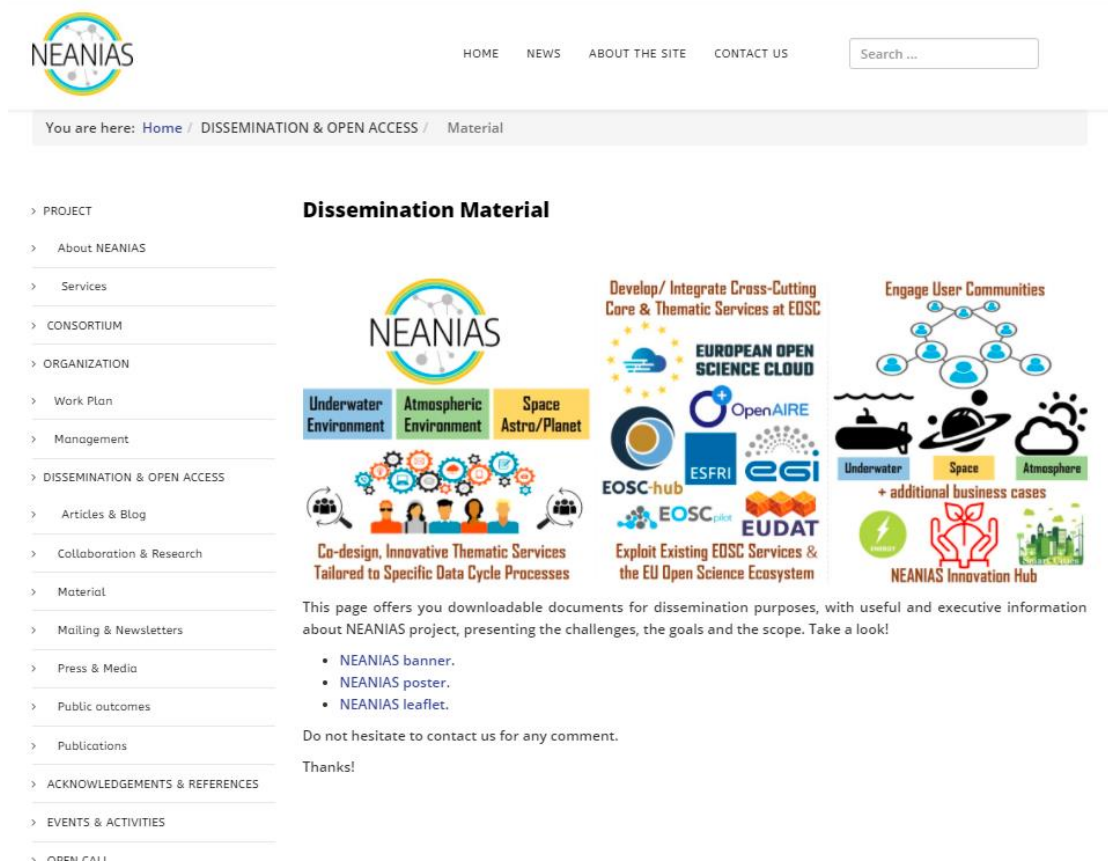


Fig. 49 NEANIAS leaflet

In addition, dissemination material is offered on the website for public uses.



*Fig. 50 Downloadable public dissemination material on NEANIAS website*

The dissemination material was also deployed in meetings and face-to-face events, thus helping to consolidate the project's brand. Unfortunately, the impact of the global COVID-19 pandemic limited this type of act, with digital documents being the main dissemination and promotion tool. Figures below show some dissemination material used in face-to-face events.



Fig. 51 Dissemination and branding material for face-to-face events

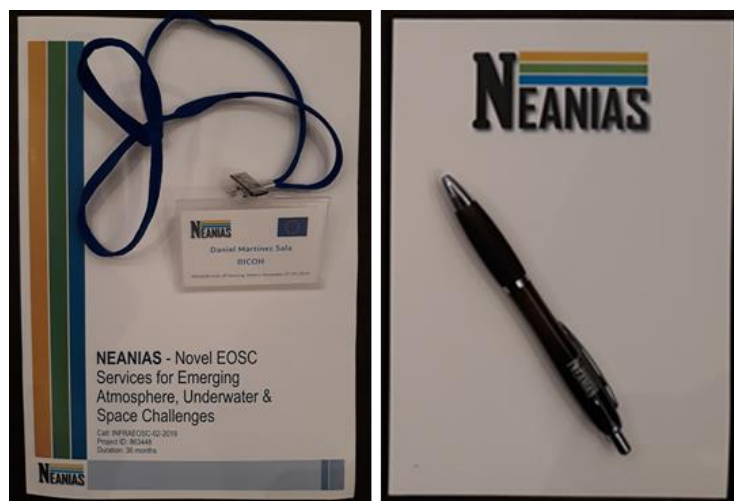


Fig. 52 Dissemination and branding material for face-to-face events (2)

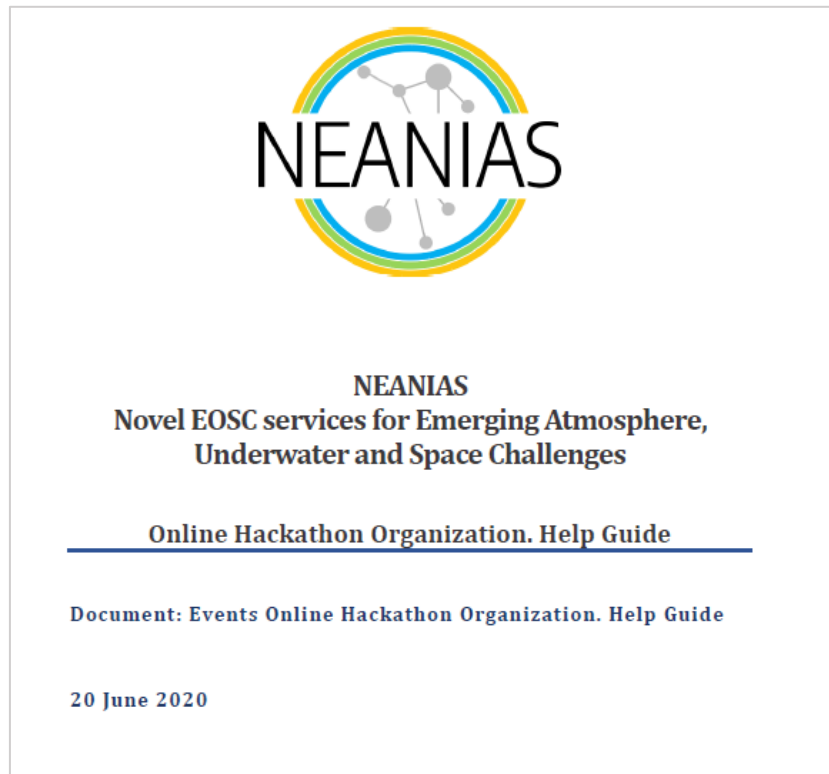
### 2.2.4. Material for internal training

Presentations and content have been made, used for internal meetings and training, regarding the use of digital tools and platforms as well as the development of the team's capacities in

communication and dissemination issues. The material has been proactively created based on the needs identified.

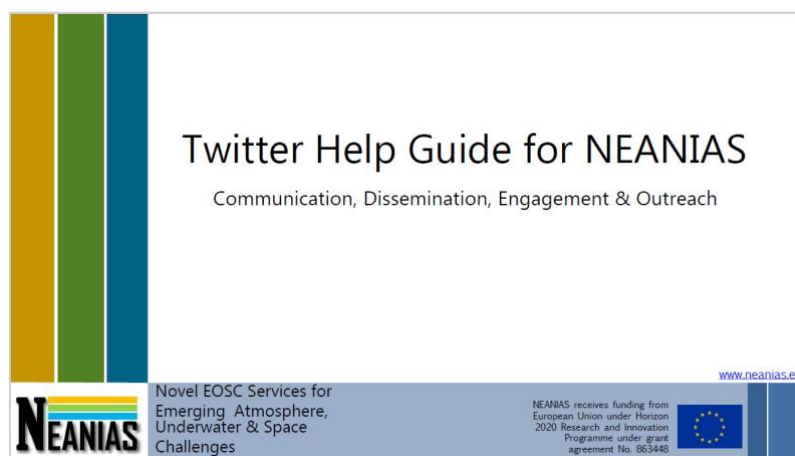
Following, some examples:

- Guide with recommendations for organizing online events.



*Fig. 53 Training material. Help guide to host an online hackathon*

- Guide to empower people in NEANIAS digital channels



*Fig. 54 Training material. Twitter Help guide for NEANIAS team*

## 2.3. Articles and publications

Article and publication production includes general purpose articles, press and media content, and scientific publications. The primary language was English, in order to reach the widest potential audience. However, the languages spoken in the project have been used according to the specific scope, publishing in order languages 12 times. The website hosts all the work generated.

### 2.3.1. Articles of general purpose

The project published 145 articles of general interest that may be distributed over the press, other media sites, including project news, collaborations, outputs or achievements. The work is aimed to reach the general public, related initiatives, research groups or technology providers.

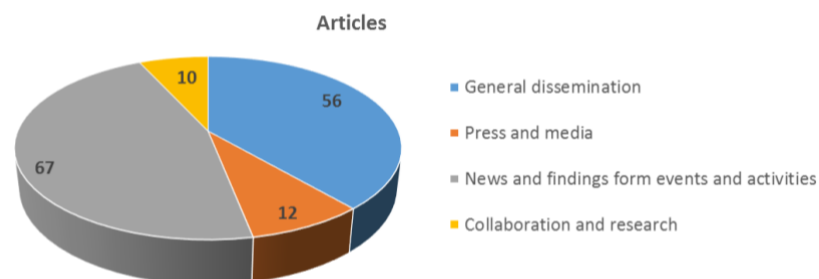


Fig. 55 Production of articles

The articles can be organized within the following categories:

- General information: content for both a general public and target sectors (underwater, atmospheric, space, ICT) presenting and analysing about research, open science, astronomy, cloud, business, innovation, project achievements, NEANIAS inside, machine learning, co-creation, among others. Each article has been done using the most appropriate format (article, interview, video-blog, ...). Following, some illustrative examples:
  - “Cloud-Based Visual Discovery in Astronomy: Novel EOSC Services for Exploring Large Scale Catalogues”.
  - “Core Services foundation and implementation”.
  - “[IT] L’astrofisica di nuova generazione: tra sfide e opportunità”.
  - “How to host an online Hackathon? launch and management”.
  - “NEANIAS inside. A chat with our Project Coordinator”.

Although English is the predominant vehicular language, content translated into other languages (Italian, Spanish, Greek, German, Portuguese, Hungarian) has also been generated (12 articles).

Those articles of scientific interest are also offered in downloadable pdf format, with the look & feel of the project, as displayed below:

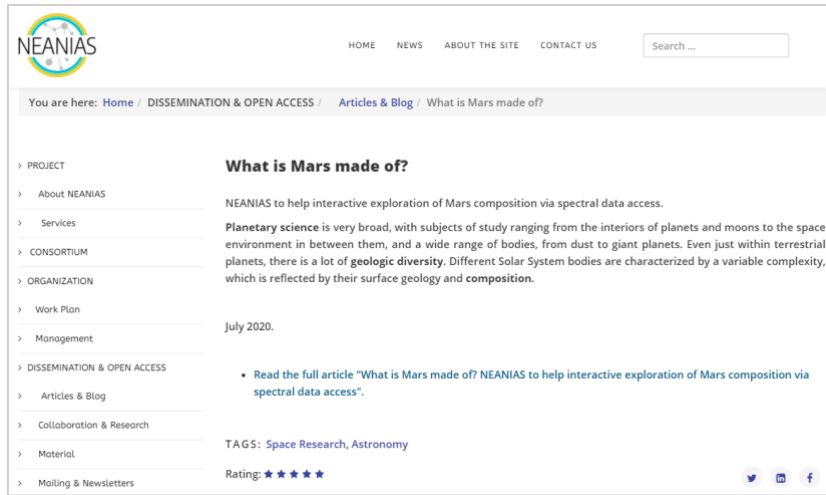


Fig. 56 Article on NEANIAS website, ready to be downloaded



Fig. 57 NEANIAS article in downloadable pdf format, with NEANIAS identity

- Press and media: Presentations and comments on the presence of NEANIAS in the media at the European level. Following, some illustrative examples:
  - *“NEANIAS Project is presented in Hydrographische Nachrichten, a journal of applied Hydrography”*
  - *“NEANIAS project and its proposal in the monitoring and forecasting of air quality in the cities was introduced in Noticias de Aveiro. The article is written in Portuguese”.*
  - *“NEANIAS Project and the challenges of the data management in the research and the innovation were presented in CloudComputing-Insider, a trademark of the Vogel Communications Group. The article is written in German.*
  - *“NEANIAS Project was presented with the article "New Knowledge through international Data Exchange: A Cloud for Marine, Atmospheric and Planetary Researchers" in IDW Magazine”.*
  - *“The NEANIAS Project and its application for the smart cities in the European Open Science Cloud was presented in WattsOn Portugal. The article is written in Portuguese”.*
- News and findings from events and activities: on the website NEANIAS team presented and analysed the activity, main findings and results of the congresses, conferences, events, workshops, fairs, etc. participated. Following, some illustrative examples:
  - *“NEANIAS presented at Milano Digital Week”.*
  - *“NEANIAS attended the e-Infrastructures Reflection Group workshop (e-IRG)”.*
  - *“NEANIAS awarded at EOSC Project Expo”.*
  - *“NEANIAS at the XXX Astronomical Data Analysis Software and Systems (ADASS) Conference”.*
  - *“NEANIAS at EOSC Landscape Final Validation Workshop”.*
- Collaboration and research, presenting collaborations in research and even research positions for the project. Following, some illustrative examples:
  - *“NEANIAS at the University of Malta”.*
  - *“NEANIAS at Greek's Space Center Management Board”.*
  - *“NEANIAS presented at the University of Cape Town”.*
  - *“NEANIAS at ENTA laboratories (Environmental and Networking Technologies and Applications)”.*
  - *“Post Doc position for research in astrophysics”.*

### 2.3.2. Press releases and media

The press releases offered general purpose announcements and publications to the public disseminated via web site as well as electronic and printed press. This media aimed to reach the widest possible audience (general public, funders and other not connected stakeholders).

Media	Date	Language
Hydrographische Nachrichten Journal	03/03/2021	Germany
SmartCities Magazine	05/01/2021	Portugal
WattsOn	31/12/2020	Portugal
BIT Magazine	30/12/2020	Portugal
Noticias de Aveiro	29/12/2020	Portuguese



GARR News	20/12/2020	Italian
Coralia News	12/06/2020	Greece
IOTBDS	10/05/2020	English
Cloud Computer Insider	07/02/2020	Germany
IDW Magazine	16/01/2020	English
TO BHMA News	13/01/2020	Greek
Press Conference: "The impacts of climate change on Greek airports"	10/01/2020	English

*Table 2 NEANIAS presence on media*

### 2.3.3. Scientific publications

Scientific publications consider research publications in international top-rank journals and conferences in diverse fields that span Archaeology, Geology, Astrophysics, Planetary Science, Computer Science, Geoscience, Renewable Energy, Climate, and Atmospheric research. Addressed to targeted interest groups in research, business and technology, among others.

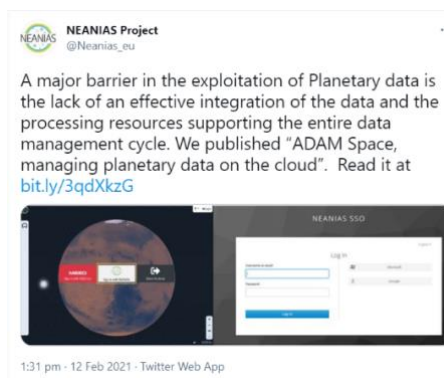
Following the peer reviewed articles published during the period:

Title	Author	Publisher	Date
Selfie Drones for 3D Modelling, Geological Mapping and Data Collection: Key Examples from Santorini Volcanic Complex, Greece	Fabio Bonali, Varvara Antoniou, Othonas Vlasopoulos, Alessandro Tibaldi and Paraskevi Nomikou	GISTAM	2020
Towards Porting Astrophysics Visual Analytics Services in the European Open Science Cloud	Eva Sciacca, Fabio Vitello, Ugo Becciani, Cristobal Bordiu, Filomena Bufano, Antonio Calanducci, Alessandro Costa, Mario Raciti and Simone Riggi	Advances in Intelligent Systems and Computing	2020
Parallel and Distributed Training of Deep Neural Networks: A brief overview	Attila Farkas, Gábor Kertész and Róbert Lovas	2020 IEEE 24th International Conference on Intelligent Engineering Systems (INES)	2020
Machine learning methods in Smartphone-Based Activity Recognition	István Pintye	SACI 2020 - IEEE 14th International Symposium on Applied Computational Intelligence and Informatics	2020
Seafloor mapping from multispectral multibeam acoustic data at the European Open Science Cloud	Mertikas, P and Karantzas, K	Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci.	2020

Evolutionary Map of the Universe (EMU): Compact radio sources in the SCORPIO field towards the Galactic plane	S Riggi, G Umana, C Triglio, F Cavallaro, A Ingallinera, P Leto, F Bufano, R P Norris, A M Hopkins, M D Filipović, H Andernach, J Th van Loon, M J Michałowski, C Bordiu, T An, C Buemi, E Carretti, J D Collier, T Joseph, B S Koribalski, R Kothes, S Loru, D McConnell, M Pommier, E Sciacca, F Schilliró, F Vitello, K Warhurst, M Whiting	Monthly Notices of the Royal Astronomical Society	2021
Real-Time Web-based Remote Interaction with Active HPC Applications	Tim Dykes, Ugo Varetto, Claudio Gheller and Mel Krokos	12th International Conference on Information Visualization Theory and Applications	2021
Big data and machine learning framework for clouds and its usage for text classification	István Pintye, Eszter Kail, Péter Kacsuk and Róbert Lovas	Wiley Online Library	2021
The NEANIAS Project: Bathymetric mapping and processing goes cloud	Paul Wintersteller, Nikolaos Foskolos, Christian Ferreira, Konstantinos Karantzalos, Danai Lampridou, Kalliopi Baika, Jafar Anbar, Josep Quintana, Stergios Kokorotsikos, Claudio Pisa and Paraskevi Nomikou	Hydrographische Nachrichten	2021
A new view of observed galaxies through 3D modelling and visualisation	Tim Dykes, Claudio Gheller, B. S. Koribalski, K. Dolag and Mel Krokos.	journal Astronomy and Computing	2021

**Table 3 Scientific publications**

All the articles were disseminated from NEANIAS social networks and published on the NEANIAS website, introducing the work, the authors, their affiliations, the abstract, the acknowledgements to NEANIAS and all the information about the publisher, as well as the link to download the work, as it is shown in the figures below:



**Fig. 58 NEANIAS twitter announcing a new publication**



- > PROJECT
- > About NEANIAS
- > Services
- > CONSORTIUM
- > ORGANIZATION
- > Work Plan
- > Management
- > DISSEMINATION & OPEN ACCESS
- > Articles & Blog
- > Collaboration & Research
- > Material
- > Mailing & Newsletters
- > Press & Media
- > Public outcomes
- > Publications
- > ACKNOWLEDGEMENTS & REFERENCES
- > EVENTS & ACTIVITIES
- > OPEN CALL

### A new view of observed galaxies through 3D modelling and visualisation.

The peer-review article "A new view of observed galaxies through 3D modelling and visualisation", by University of Portsmouth and collaborators, has been published in the journal Astronomy and Computing.

"A new view of observed galaxies through 3D modelling and visualisation"

- Authors: Tim Dykes (1), Claudio Gheller (2), B. S. Koribalski (3), K. Dolag (4) and Mel Krokos (5).
- Affiliations: (1) HPE HPC/AI EMEA Research Lab, Bristol, United Kingdom, (2) Institute of Radioastronomy, INAF, Via P. Gobetti, 101 40129 Bologna, Italy, (3) CSIRO Astronomy and Space Science, Australia Telescope National Facility, P.O. Box 76, Epping, NSW 2121, Australia, (4) Universitäts-Sternwarte München, Scheinerstr.1, D-81679 München, Germany, (5) School of Creative Technologies, University of Portsmouth, Eldon Building, Winston Churchill Avenue, Portsmouth, United Kingdom.

#### Abstract

Observational astronomers survey the sky in great detail to gain a better understanding of many types of astronomical phenomena. In particular, the formation and evolution of galaxies, including our own, are a wide field of research. Three dimensional (spatial 3D) scientific visualisation is typically limited to simulated galaxies, due to the inherently two dimensional spatial resolution of Earth-based observations. However, with appropriate means of reconstruction, such visualisation can also be used to bring out the inherent 3D structure that exists in 2D observations of known galaxies, providing new views of these galaxies and visually illustrating the spatial relationships within galaxy groups that are not obvious in 2D. We present a novel approach to reconstruct and visualise 3D representations of nearby galaxies based on [observational data](#) using the scientific visualisation software Splotch. We apply our approach to a case study of the nearby [barred spiral galaxy](#) known as M83, presenting a new perspective of the M83 local group and highlighting the similarities between our reconstructed views of M83 and other known galaxies of similar inclinations.

#### Acknowledgement

KD acknowledges support by the ORIGINS cluster, funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) under Germany's Excellence Strategy, EXC-2094, 390783311. MK acknowledges support by NEANIAS, funded by the EC Horizon 2020 research and innovation programme under Grant Agreement No. 863448.

The article can be found in the journal Astronomy and Computing., Volume 34, January 2021, 100448 (DOI: [10.1016/j.ascom.2021.100448](https://doi.org/10.1016/j.ascom.2021.100448)).

TAGS: [Space Research](#), [3D Modelling](#), [Scientific Visualisation](#)



*Fig. 59 Scientific article on NEANIAS website*

### 2.3.4. Multimedia content

NEANIAS has produced multimedia content, both for general dissemination and for scientist and researchers. All the content is published on NEANIAS YouTube Channel and communicated and promoted from the social networks.

Work	Main Target
NEANIAS Space. CAESAR	Researchers
NEANIAS Space. Via Lactea Service	Researchers
NEANIAS Space. Astra Data Navigator	Researchers
NEANIAS Underwater. Seabed Classification from Multispectral, Multibeam Data service presentation.	Researchers
NEANIAS Open Call Video presentation	General audience
NEANIAS Space presentation	General audience
NEANIAS Project Overview	General audience
NEANIAS Space services for the Astrophysics community.	Researchers

NEANIAS Space servizi presentati al workshop GARR	Researchers
NEANIAS Underwater. Seafloor Mosaicing from Optical Data (MOS Service)	Researchers
NEANIAS Atmospheric. Atmo Flud Service.	Researchers
NEANIAS Atmospheric. Atmo STRESS Service	Researchers
NEANIAS Space. ADAM Platform	Researchers

*Fig. 60 Multimedia content published on NEANIAS channels*

## 2.4. Events and activities

NEANIAS has communicated, disseminated, involved and interacted, both with the ecosystem and with the general public, through many activities that, due to the global COVID-19 pandemic of 2020, have been carried out mainly through digital channels. Among them, it can be included fairs, congresses, conferences, workshops, webinars or hackathons.

All of them have been reported on NEANIAS website (considering the goals, the challenges, the work carried out and the results) and disseminated through the NEANIAS digital channels.

### 2.4.1. Conferences and workshops (co)organised or participated by NEANIAS

Following, the most relevant workshops and conferences (co)organised or participated by NEANIAS team, reported and disseminated through all NEANIAS digital channels during this period:

Event Name	Type of event	NEANIAS role	Place & Date
International Workshop on 3D Rendering for Big Data.	Workshops & Webinars	(co)organization	Online, 28/04/2021
Blue Research and Innovation Days	Conference	(co)organization	Online, 19-23/04/2021
NEANIAS Underwater Services Webinar.	Workshops & Webinars	(co)organization	Online, 20/04/2021
SKA Conference 2021	Conference	Participation	Online, 15-19/03/2021
Milano Digital Week	Conference	(co)organization	Milano & online, 18/03/2021
NEANIAS Open Call Webinar	Workshops & Webinars	(co)organization	Online, 17/03/2021
Artificial Intelligence for big satellite data	Workshops & Webinars	Participation	Online, 25/02/2021
Software and Cyberinfrastructure for Astronomy VI	Conference	Participation	Online, 14-18/12/2020
e-Infrastructures Reflection Group workshop	Workshops & Webinars	Participation	Online, 1-2/12/2020
GARR-2020 Workshop	Workshops & Webinars	Participation	Online, 2-6/11/2020
Research Data Alliance 2020	Workshops & Webinars	Participation	Online, 9-12/11/2020

XXX Astronomical Data Analysis Software and Systems (ADASS) Conference	Conference	Participation	Granada & online, 8-12/11/2020
Innovation and technology for a green, digital and fair recovery	Conference	Participation	Online, 2/11/2020
EOSC Landscape Final Validation Workshop	Workshops & Webinars	Participation	Brussels & online. 28-29/09/2020
2nd ESFRI RIs-EOSC Workshop "Research Infrastructures shaping EOSC"	Workshops & Webinars	Participation	Online, 06-07/10/2020
Computing Conference 2020	Conference	Participation	Online, 16/07/2020
InnoWorld 2020	Conference	Participation	Online, 04/07/2020
European Astronomical Society Annual Meeting	Congress	Participation	Online, 29/06/2020 - 3/07/2020
IoTBDs-2020 (5th International Conference on Internet of Things, Big Data and Security)	Conference	Participation	Prague & online, 9/05/2020
6th International Conference GISTAM-2020	Conference	Participation	Online, 7-9/05/2020
Toward the Big Data Analysis: Visual Analytic, Machine Learning and future perspectives Webinar	Workshops & Webinars	Participation	Online, 22/04/2020

*Table 4 Workshops and conferences (co)organised or participated by NEANIAS*

### 2.4.2. Fairs and exhibitions participated

Participation in the EOSC Project Expo should be highlighted. NEANIAS actively participated at EOSC Projects EXPO - Realising the European Open Science Cloud Conference. Organized as part of the Realising the European Open Science Cloud joint event by the EOSC-hub, FREYA and SSHOC projects.

The EOSC Projects EXPO was the first virtual exhibition showcasing initiatives and projects of the European Open Science Cloud. NEANIAS representatives attended the booth during the exhibition days, and we chatted with the more than 30 projects that participated with us, as well as with the visitors to the event. Some synergies with other projects have been identified and a productive collaboration may be realized in near future.

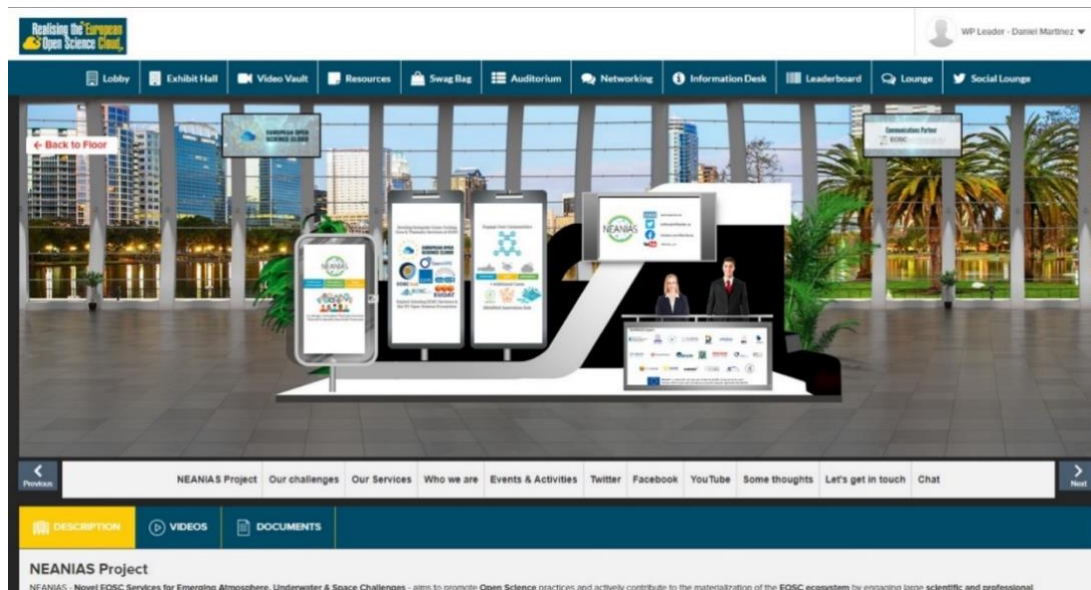


Fig. 61 NEANIAS booth at EOSC Project Expo

The event was very fruitful for NEANIAS. The exhibition provided us with many opportunities to present the challenges of NEANIAS and our services, both to the general and thematic public. We also had the opportunity to participate in the EOSC framework, to interact with the innovation ecosystem, make business contacts with potential stakeholders, stay updated through many interesting conferences and last, but not least, to promote open science initiatives and research infrastructures liaison with other projects.

And last, but not least, NEANIAS was awarded for the best booth as a result of a contest carried out among the attendants, participants and the organization of the exhibition.



Fig. 62 NEANIAS awarded at EOSC Project Expo

NEANIAS booth featured banners, downloadable material (executive presentations and brochures), multimedia content, links to our website and connections to our digital channels. We are pleased to think that NEANIAS messages are clearly reaching our stakeholders as an important task of our dissemination, collaboration, outreach and engagement activities, making NEANIAS well known and appreciated by the ecosystem.

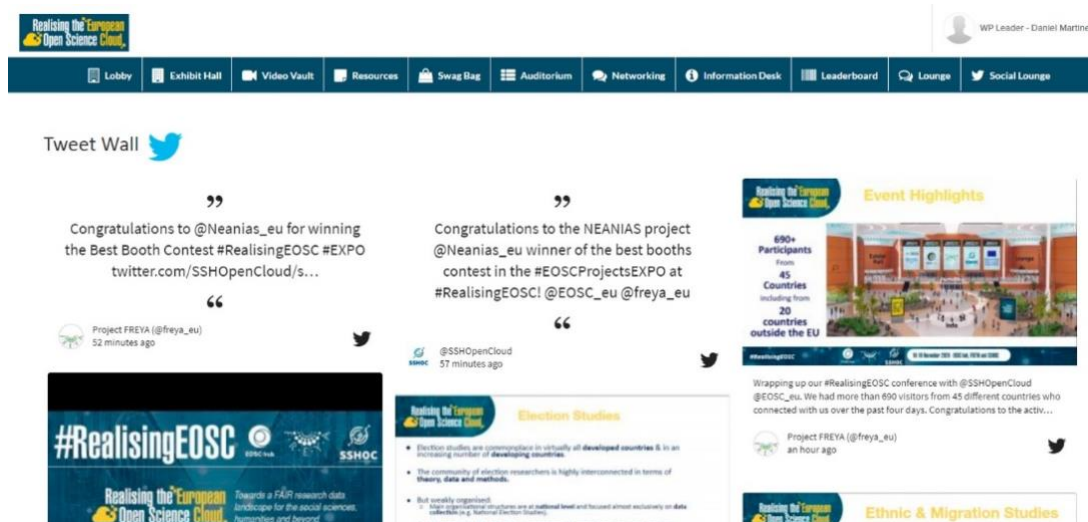


Fig. 63 Acknowledgments from EOSC ecosystem to NEANIAS project

NEANIAS also participated in Milano Digital Week and Smart City Expo World Congress 2019.



Il progetto NEANIAS prevede lo sviluppo di servizi innovativi per la scienza aperta ed integrati nello European Open Science Cloud (EOSC). Questo evento presenterà il progetto, alcuni servizi rilevanti non solo per la ricerca scientifica ma anche per la sostenibilità ambientale. L'evento, che si terrà interamente online, prevede una serie di interventi di diversi partner del progetto EU H2020 NEANIAS che presenteranno alcuni dei servizi tematici sviluppati e offerti alla comunità scientifica tramite lo European Open Science Cloud, oltre ad alcune delle tecnologie abilitanti 'sotto il cofano'.



Fig. 64 NEANIAS at Milano Digital Week

### 2.4.3. Other events attended

Following, the most relevant conferences, congresses, workshops and webinars attended by NEANIAS team, reported and disseminated through all NEANIAS digital channels during this period, which provided the project members networking with the ecosystem and updates about the state-of-art:

Event Name	Type of event	Host	Place & Date
Virtual conference on Applications of Statistical Methods and Machine Learning	Conference	Space Sciences Institute	Online, 17-21/05/2021
EU International Ocean Governance Forum	Congress	European Commission	Online, 14-16/12/2020
Budapest Science Meetup	Conference	Meetup	Online, 10/12/2020
EOSC Enhance Webinar EOSC Portal Release 1 - What's new	Workshops & Webinars	EOSC	Online, 3/12/2020

Dissemination, outreach and liaison activities report. Report on 1st period activities and achievements of WP10.

IoT Solutions World Congress	Congress	Fira de Barcelona and the Internet Consortium (IIC)	Online, 2-3/12/2020
OpenAIRE Week	Congress	OpenAIRE	Online, 12-16/10/2020
Smart City Live 2020	Congress	Fira de Barcelona	Online & Barcelona, 17-18/11/2020
EOSC Projects EXPO - Realising the European Open Science Cloud Conference	Conference	EOSC-hub, FREYA and SSHOC projects	Online, 16-19/11/2020
EOSC Project Expo	Fair & Exhibitions	EOSC-hub	Online, 16-19/11/2020
EOSC Governance Symposium 2020	Conference	EOSC Executive & Governing Boards	Online, 19-22/10/2020
ELKH Cloud at the service of science: past, present, future	Conference	ELKH Cloud	Online, 28/10/2020
EOSC Portal Orders Webinar	Workshops & Webinars	EOSC	Online / Amsterdam, 27/10/2020
EOSC-hub Technical Architecture Webinar	Workshops & Webinars	EOSC-Hub	Online, 13/10/2020.
Integrating services into EOSC through EOSC-hub Webinar	Workshops & Webinars	EOSC-Hub	Online, 29/09/2020
The business of cloud: Calculating the ROI of cloud migration Webinar	Workshops & Webinars	Mobile World	Online, 22/09/2020
EOSC Business Model Recommendations Webinar	Workshops & Webinars	EOSC-Hub	Online, 15/09/2020
EOSC Hub Week 2020	Conference	EOSC-hub	Online, 18-20/05/2020
COVID-19: actions, tools, good practices and points of contact in Greece Webinar	Workshops & Webinars	Research Data Alliance	Online, 10/04/2020
EOSC Pillar Webinar	Workshops & Webinars	EOSC Pillar	Online, 3/04/2020
EOSC ARGOS Webinar	Workshops & Webinars	OpenAIRE and EUDAT	Online, 28/02/2020.
MWC 2020	Congress	GSMA	Barcelona, 25/02/2020 *
4YFN 2020	Congress	GSMA MWC	Barcelona, 26/02/2020 *
European Multidisciplinary Seafloor and water column Observatory (EMSO) conference	Conference	ERIC (European Research Infrastructure Consortium)	Athens, 12-14/02/2020
Smart City Expo World Congress 2019	Congress	Fira de Barcelona	Barcelona, 21/11/2019
Smart Cities Sector Study in Catalonia	Conference	Agency for the Competitiveness of the Companies of the Government of Catalonia	Barcelona, 20/11/2019
Smart Mobility World Congress 2019	Congress	Fira de Barcelona	Barcelona, 19/11/2019

*Table 5 Other workshops, webinars, congresses, conferences, fairs*



#### 2.4.4. Innovation events

Following, the most relevant hackathons and outstanding innovation event participated by NEANIAS team, reported and disseminated through all NEANIAS digital channels during this period:

Event Name	NEANIAS Role	Place & Date
Blue Research and Innovation Days Hackathon	Co-organisation	Online, 21-23/04 2021
1st Open Call	Organisation	Online, 08/04/2021
Copernicus Hackathon 2020	Support	Athens & online, 8/5 - 5/6 2020
Copernicus Hackathon 2019	Support	Athens, 8-9/11 2019

*Table 6 Innovation events*

The Open Call also represented a commercial exploitation event for the three thematic sectors of NEANIAS, as well as for the core IT technologies.

##### 2.4.4.1. Blue Research and innovation days' hackathon

The main objective of Blue Research and Innovation Days was to present ongoing cutting-edge projects along with a specially-shaped hackathon towards bringing together consortia, the scientific community and industry working at the core of the 'blue economy' by promoting synergies as well as shaping common future activities. The event gave the opportunity in every project to present its particular objectives, the current results, its cloud services, Open and Big Data research and results, the possible business cases providing by this way the possibility to the participants to investigate common approaches to specific problems, complementarities, synergies perspectives, future collaborations.

All blue economy (marine, fisheries, underwater) enthusiasts: data scientists and practitioners, students, researchers, representatives from both private and public sector, that work to improve the fisheries, marine, underwater and environmental management with applications in energy, geohazards management, underwater archaeology, or develop ICT solutions for marine, underwater monitoring were invited to join the hackathon co-organized by the NEANIAS, I4Sea and INFORE projects from April 21 to 23, 2021, online. The event was kindly supported by ATHENA RC.

Eleni Petra represented NEANIAS as member of the Blue Research and Innovation Days Hackathon Programme committee, and Evi Nomikou (WP2 Leader), Kalliopi Baika, Danai Lampridou, Valsamis, and Makis Ntouskos were the NEANIAS representatives in the Blue Research and Innovation Days Hackathon Scientific Committee.

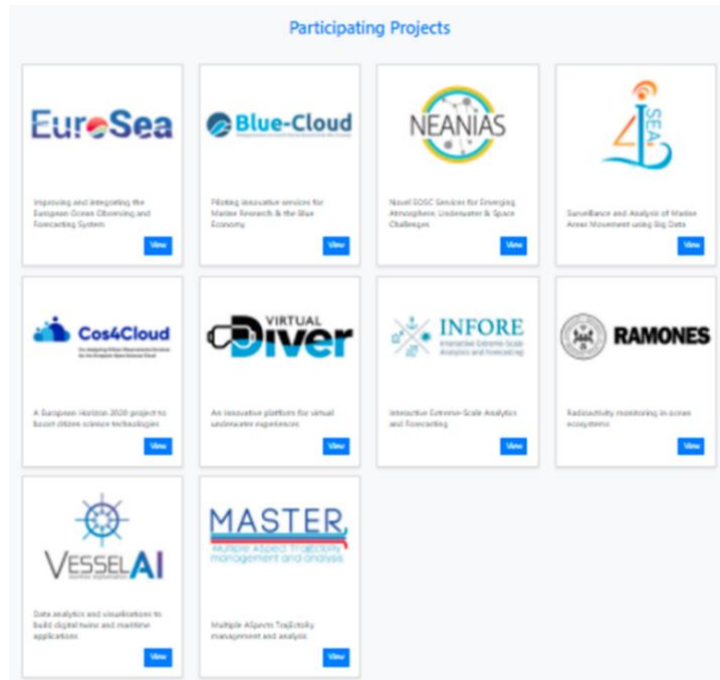


Fig. 65 Blue Research and innovation Week.

The hackathon at the end of the week integrated challenges from three specific projects towards providing the participants access to real world scenarios, business cases and open issues. Thus, it promoted the design and development of new approaches and novel solutions related to various Blue Economy aspects. The hackathon started on 21st of April, during the Blue Research Innovation Days and completed at the end of same week. Challenges were integrated from three specific projects, NEANIAS, i4sea and INFORE providing the participants access to real world scenarios, business cases and open issues.

7 Teams and 26 participants took part in the Hackathon where 5 teams ended presenting their work.



Fig. 66 Hackathon awards and NEANIAS

#### 2.4.4.2. 1<sup>st</sup> NEANIAS Open Call

The purpose of NEANIAS Open Call is to spark and support the development of a wide variety of innovation projects by providing novel services created in the frame of the NEANIAS project, fostering interdisciplinary collaborations and contributing to advance research and innovation in Europe. The overarching goal was to build up and strengthen the European innovation community by identifying and supporting innovative projects with novel services developed

in the Underwater, Atmospheric and Space research fields. Innovation in this scope may refer to (a) new operation models for existing services, that can exploit NEANIAS resources (b) improving existing services utilizing NEANIAS offerings to increase their overall offering (c) brand new services inspired by NEANIAS offerings (d) new services in need offerings such as NEANIAS and EOOSC ones, and many more.

To boost the development of new business opportunities and accelerate the onboarding of external users into the project, NEANIAS organized its first Open Call for Atmosphere, Underwater and Space Science initiatives. The first Open Call was launched on the 8 February 2021, 9:00 CET and was closed on the 9 April 2021, 23:00 CEST. NEANIAS team also organised an online webinar, taking place on the 17 March, 15:00h CET to present the Open Call. The registration to the webinar was open until March-16, 2021.



*Fig. 67 NEANIAS Open dedicated Call banner*

At the close of the Open Call, 19 valid participation requests have been received with a very balanced representation: 5 from Atmospheric research, 7 from Space research and 7 from Underwater research, all of them linked to innovation and the European Open Science Cloud. The response of the interested participants also reflects a good representation of eligible countries, counting on the participation of companies and organizations from 8 European countries: Germany (2 applicants), Greece (7 applicants), Hungary (3 applicants), Italy (2 applicants), Portugal (1 applicant), Romania (1 applicant), Spain (1 applicant), Sweden (2 applicants), of which only half have been related to European projects previously.

#### **2.4.4.3. Copernicus Hackathon 2020**

The Copernicus Hackathon in Athens was organised by Corallia, the innovation unit of the Athena Research and Innovation Center in Information Communication & Knowledge Technologies, with the support of NEANIAS Project. 15 teams participated in this event that was held online from Friday, May 8, 2020 2:00 PM to - Friday, June 5, 2020.

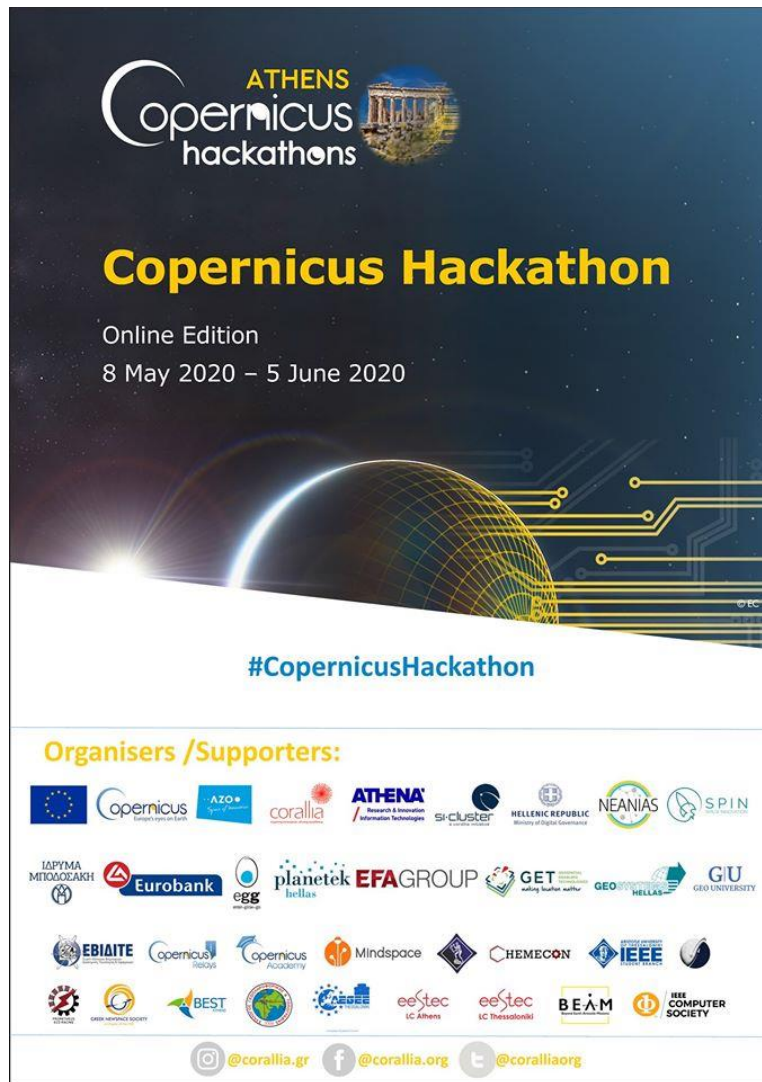


Fig. 68 Copernicus Hackathon in Athens, 2020

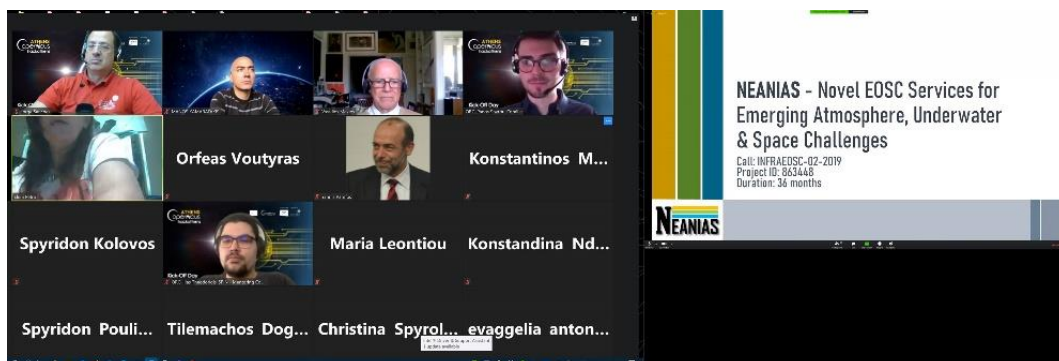


Fig. 69 NEANIAS presentation at Copernicus Hackathon 2020

On Friday 19.6.2020, at ATHENA RC premises, NEANIAS project representatives, welcomed representatives of winning teams of the Athens CopHackOn 2020. NEANIAS project

representatives, Eleni Petra, PM, Prof. Konstantinos Karantzalos Steering Committee Scientific Coordinator, Prof. Evi Nomikou, WP2 leader, Prof. Spyros Rapsomanikis, WP3 Leader (remotely), Dr. George Papastefanatos, WP8 leader and Mr. Panos Spyrou from Corallia (remotely) welcomed representatives of the two winning teams of the Athens CopHackOn 2020 and had the opportunity to discuss about the teams' applications as well as their future plans and get their award, a laptop PC and NEANIAS souvenirs.

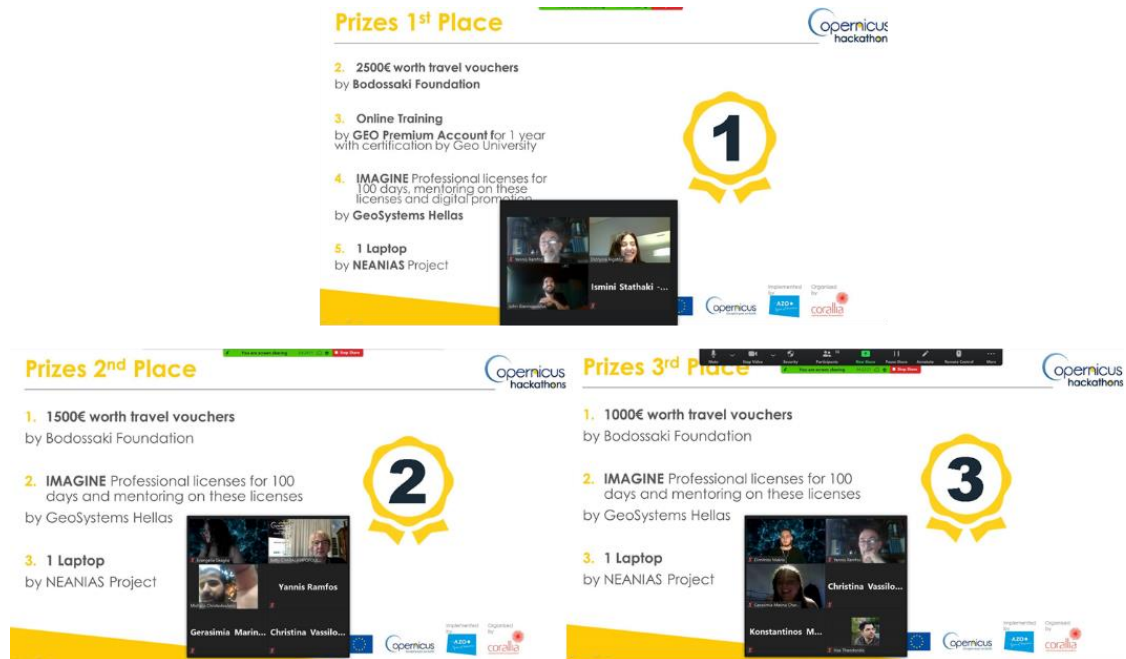


Fig. 70 Copernicus Hackathon 2020, awards

#### 2.4.4.4. Copernicus Hackathon 2019

NEANIAS team participated in Copernicus Hackathon on 8-9/11/2019 in Athens, presenting relative challenge regarding air quality monitoring and forecasting in tourism. The Copernicus Hackathon, part of the European Union Copernicus Start-up Programme, is set to facilitate the co-creation of disruptive and breakthrough solutions, new business ideas and opportunities based on Copernicus data and services in Athens, Greece.

The Copernicus Hackathon in Athens is organized by the innovation unit of the Athena Research and Innovation Center in Information Communication & Knowledge Technologies, in collaboration with the Greek Space Technologies and Applications Cluster (si-Cluster), the Hellenic Association of Space Industries (HASI), Space Innovation (SPIN), the project i4Sea, and the Greek Copernicus Relay Network and the Greek Copernicus Academy Network.



*Fig. 71 Copernicus Hackathon in Athens, 2019*

### 2.4.5. Meetings

NEANIAS intended to have attended and participated in numerous conferences and fairs to present the project, enrich networking, identify new business models and opportunities, and establish connections with the ecosystem, as well as identify new trends and technological opportunities in the project's application areas. Sadly, several events were cancelled due to the coronavirus outbreak, especially those of a more transversal, multidisciplinary and multitudinous type. Others moved to virtual.

Nevertheless, the NEANIAS team held many e-meetings with relevant stakeholders, presenting NEANIAS and discussing innovation, business and the challenges of new cloud services to keep up-to-date and enrich the knowledge about the scope of the project, being the NEANIAS digital channels a fruitful point of contact.

Regarding the ecosystem, contact has been maintained from thematic sectors, promoting professional contacts and the opportunities offered by participation in congresses and conferences.

In addition, the participation of NEANIAS members in European working groups gave us the chance to achieve new networking with relevant players. It is worth noting that Eleni Petra, Project Manager and Georgios Kakaletis, Technical Manager of NEANIAS project, became members of the EOSC Training and Skills Working Group and the Architecture Working Group respectively.

## 2.5. Open Science initiatives and Research Infrastructures liaison activities

As NEANIAS seeks to maximise its impact and optimise the use of resources, an essential part is the establishment of liaison activities with initiatives/taskforces/projects that operate in the areas of Open Science, the EOSC and Research Infrastructures (including ESFRI and EOSC Hub satellite projects). The task meant seek, locate and establish the links with those initiatives, according to the plan, and monitor the result of those activities and report back to all project structures the progress and results of those activities.

### 2.5.1. Projects & initiatives liaised with, from the same call, sharing experiences and solutions to challenges.

Three Projects and initiatives liaised with NEANIAS, from the same call, sharing experiences and solutions to challenges.



Fig. 72 Projects from the same Call, liaised with NEANIAS

#### 2.5.1.1. Cos4Cloud Project

<https://cos4cloud-eosc.eu>

Cos4Cloud project aims to facilitate open science and citizen science initiatives by designing and implementing services. The project will design and prototype these new services using deep machine learning, automatic video recognition, and other cutting-edge technologies.

Main facts and achievements:

- NEANIAS and Cos4Cloud introduced and discussed within the context of future collaboration, with a short presentation of NEANIAS scopes and goals and a presentation of the 3 thematic services offered by NEANIAS (Underwater, Atmospheric and Space) along with 4 core services.
- Invitation from NEANIAS to participate in the Blue Research & Innovation Days during April along with BlueCloud.
- Proposition for an organization of a common webinar by all the projects of the same call EINFRA-02-2019 (Cos4Cloud, NEANIAS, INODE, TRIPLE, CS3MESH4EOSC). Participation in the event.

#### 2.5.1.2. TRIPLE Project

<https://www.gotriple.eu>

TRIPLE Project was launched on 7 October 2019. It will be one of the dedicated services of OPERAS, the Research Infrastructure supporting open scholarly communication in the social sciences and humanities (SSH) in the European Research Area.

Based on the Isidore search engine developed by the French National Centre for Scientific Research (CNRS), the TRIPLE platform will provide a single access point for users (researchers, institutions such as universities and libraries, but also enterprises, consultancies, media and service providers):

- to discover and reuse open scholarly SSH resources, i.e. research data and publications, which are currently scattered across local repositories;
- to find and connect with other researchers and projects across disciplinary and language boundaries
- to make use of innovative tools to support research (e.g., visualisation, annotation, trust building and recommender system);
- to discover new ways of funding research (e.g., crowdfunding).

Main facts and achievements:

- 1-4-2021: First contact discussing:
  - Introduction
  - Discussion about next meeting where the EOSC WP leaders will be present, for a more detailed insight and alignment for the next steps.
  - MoU preparation, exchange and signature of the two projects

- Organization of common webinars, workshops, and discussions regarding collaboration even after the termination of the two projects.
- 12-4-2021: Invitation by NEANIAS to the Blue Research & Innovation Days 19-23 April.
- 18-5-2021: Common workshop scheduled discussing:
  - EOSC Onboard processes.
  - Common issues and needs related to EOSC.
  - Open – FAIR.
  - Zenodo.
  - Communities engagement.
  - Synergies.
  - Future collaboration.

### 2.5.1.3. INODE Project

<http://www.inode-project.eu>

INODE (Intelligent Open Data Exploration), a classic unified, comprehensive platform that provides extensive access to open datasets through natural language queries in the fields of Cancer Biomarker Research, Research and Innovation Policy Making and Astrophysics; for a wide range of users from larger scientific communities to public.

Main facts and achievements:

- Invitations between projects:
  - NEANIAS proposed INODE: Blue Research & Innovation Days 19-23, April
  - INODE proposed NEANIAS: INODE / EOSC workshop, which is scheduled for May 21, 10:00-12:00 (CET).
- Project Managers of NEANIAS & INODE in continuous communication in order to organize a common meeting for further collaboration.
- Proposition for an organization of a common webinar by all the projects of the same call EINFRA-02-2019 (Cos4Cloud, NEANIAS, INODE, TRIPLE, CS3MESH4EOSC).

### 2.5.2. Other Relevant H2020 Projects & research infrastructures liaised with NEANIAS

In addition, there are sixteen relevant H2020 Projects and research infrastructures liaised with NEANIAS:





*Fig. 73 Other Relevant H2020 Projects & research infrastructures liaised with NEANIAS*

NEANIAS is continuously linked with these projects and initiatives, being aware of prospective projects and the activities that we advertise and participate in, mainly those related to Underwater, Atmospheric and Space research, as well as the computer technologies that allow the development of NEANIAS services.

#### 2.5.2.1. OPENAIRE (RI)

[www.openaire.eu/openaire-project](http://www.openaire.eu/openaire-project)

OPENAIRE aims to shift scholarly communication towards openness and transparency and facilitate innovative ways to communicate and monitor research by means of Align policies, Provide open science services, Link research, Monitor (open) science, Train for open science, Build global bridges and Facilitate Open Innovation.

#### 2.5.2.2. RDA

<https://grants.rd-alliance.org/>

The Research Data Alliance (RDA) is an international member-based organisation focused on the development of infrastructure and community activities to reduce the social and technical barriers to data sharing and re-use and to promote the acceleration of data driven innovation and discovery worldwide. RDA Europe 4.0 is an offshoot of the international Research Data Alliance (RDA) and a Coordination & Support Action co-funded by the European Commission under the Research and Innovation Framework Programme, Horizon 2020 (H2020). The objective of RDA Europe 4.0 is to become the centrepiece for a EU Open Science Strategy, bringing forward an RDA legacy in Europe, providing skilled, voluntary resources from the EU investment to address Digital Single Market issues. In order to reach this objective, between 2018 and 2020 RDA Europe 4.0 supported growing the community of research data experts and practitioners by a series of open calls offering grants for new RDA Europe national nodes, early career researchers and experts, RDA ambassadors, and RDA output-adoption.

#### 2.5.2.3. CATRIS

<https://project.catris.eu/>

CatRIS is an open, trusted and user-friendly portal to a harmonised and aggregated catalogue of services and resources provided by Research Infrastructures (RI) and Core Facilities (CF)

across Europe. It is a bottom-up initiative that is meant to be populated and run by RI and CF service providers at European, national, regional and institutional levels. CatRIS will be complementary to and interoperable with the EOSC catalogue.

#### **2.5.2.4. Blue-Cloud**

<https://www.blue-cloud.org/>

Blue-Cloud is a European H2020 project with the overarching aim of federating and piloting innovative services for Marine Research and the Blue Economy. The project is working towards the establishment of a marine-thematic EOSC serving the Blue Economy, Marine Environment and Marine Knowledge agendas. The European Open Science Cloud (EOSC) aims to provide a virtual environment with open and seamless services for storage, management, analysis and re-use of research data, across borders and scientific disciplines.

There is a collaboration agreement in specific topics: Dissemination activities together – exchange of logos/website updates regarding projects collaboration/social media, discussed about common strategies.

#### **2.5.2.5. ECOGAL**

<http://www.ecogal.eu/>

The project aims to understanding the Galactic ecosystem, from the disk of the Milky Way to the formation sites of stars and planets. It is based on a unique combination of theoretical modelling and multi-wavelengths observations, three fundamental issues: planets, galaxies and stars.

#### **2.5.2.6. ESCAPE (RI)**

<https://projectescape.eu/>

ESCAPE (European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures) brings together the astronomy, astroparticle and particle physics communities. With this, ESCAPE puts together a cluster with ESFRI projects with aligned challenges of data-driven research, with demonstrated capabilities in addressing various stages of data workflow and concerned with fundamental research through complementary approaches.

#### **2.5.2.7. EOSC Enhance**

<https://eosc-portal.eu/enhance>

As a trusted virtual environment enabling the data-driven, cross-disciplinary Open Science which holds the key to advances in research and innovation, the EOSC will offer some 1.7 million European researchers and 70 million professionals in science, technology, and the humanities and social sciences a single access point to data services spanning the full data life cycle. This will be achieved by federating existing research infrastructures currently dispersed across disciplines and states.

During the lifetime of EOSC Enhance, project partners develop and improve the functionality of the EOSC Portal, further augmenting the catalogue of services assembled to date, and connecting independent, thematic data clouds for the benefit of users and service providers across Europe.

#### 2.5.2.8. EMSO-ERIC

<http://emso.eu/>

The European Multidisciplinary Seafloor and water column Observatory (EMSO) aims to explore the oceans, to gain a better understanding of phenomena happening within and below them, and to explain the critical role that these phenomena play in the broader Earth systems. EMSO consists in a system of regional facilities placed at key sites around Europe, from North East to the Atlantic, through the Mediterranean, to the Black Sea. Observatories are platforms equipped with multiple sensors, placed along the water column and on the seafloor. They constantly measure different biogeochemical and physical parameters, that address natural hazards, climate change and marine ecosystems.

EMSO offers data and services to a large and diverse group of users, from scientists and industries to institutions and policy makers. It is an extraordinary infrastructure to provide relevant information for defining environmental policies based on scientific data. EMSO is a consortium of partners sharing in a common strategic framework scientific facility (data, instruments, computing and storage capacity). Formally it is a European Research Infrastructure Consortium (ERIC), legal framework created for pan-European large-scale research infrastructures.

#### 2.5.2.9. I-BIDaaS

<https://www.ibidaas.eu/concept/>

I-BiDaaS is a self-service solution, aiming to empower users to easily utilize and interact with big data technologies by designing, building and demonstrating a unified framework that significantly increases the speed of data analysis while coping with the rate of data asset growth and facilitates cross-domain data-flow towards a thriving data-driven EU economy.

I-BiDaaS will shift the power balance within an organisation, increase efficiency, reduce costs, improve employee empowerment and increase profitability. Moreover, I-BiDaaS will deliver a full array of big data business analytics solutions for structured, unstructured, noisy and potentially synthetic data for companies in multiple industries that are more accessible, cost effective and employee-empowering than existing solutions, which gives companies the confidence to deploy Big Data Self-Service solutions across the organisation, from consumer-facing employees with little IT experience or expertise to top management and helps companies to optimize decision-making at the tactical, operational and strategic levels.

#### 2.5.2.10. CONCORDIA

<https://www.concordia-h2020.eu/>

A Cybersecurity Competence Network with leading research, technology, industrial and public competences. CONCORDIA provides excellence and leadership in technology, processes and services to establish an user-centric EU-integrated cyber security ecosystem for digital sovereignty in Europe.

#### 2.5.2.11. RAMONES

<https://ramones-project.eu/>

The project aims to design, develop and validate (i) for the first time, a broad set of novel instruments for measuring radioactivity in seabed and water column; (ii) novel adaptation, self-deployment and self-awareness collaborative marine robotics capabilities for the efficient

operation and sensing with the new marine radiometry instrumentation and (iii) novel statistical, artificial intelligence and environmental modelling methodologies for processing and modelling marine radioactivity multi-modal data.

#### 2.5.2.12. Ni4Os

<https://ni4os.eu/>

National Initiatives for Open Science in Europe – NI4OS Europe, aims to be a core contributor to the European Open Science Cloud (EOSC) service portfolio, commit to EOSC governance and ensure inclusiveness on the European level for enabling global Open Science.

The project presents the following lines of action: (i) Support the development and inclusion of the national Open Science Cloud initiatives in 15 Member States and Associated Countries in the EOSC governance; (ii) Instill within the community the EOSC philosophy and FAIR principles for data Findability, Accessibility, Interoperability and Reusability; (iii) Provide technical and policy support for on-boarding of service providers into EOSC, including generic services (compute, data storage, data management), thematic services, repositories and data sets.

#### 2.5.2.13. MASTER

<http://www.master-project-h2020.eu/>

MASTER (Multiple ASpects TrajEctoRy management and analysis) is a project funded under the call H2020-MSCA-RISE-2017 with the objective of forming an international and inter-sectoral network of organisations working on a joint research programme to define new methods to build, manage and analyse multiple aspects semantic trajectories.

#### 2.5.2.14. VesselAI

<https://vessel-ai.eu/>

VesselAI aims at realising a holistic, beyond the state-of-the-art AI-empowered framework for decision-support models, data analytics and visualisations to build digital twins and maritime applications for a diverse set of cases with high impact, including simulating and predicting vessel behaviour and manoeuvring (including the human factor), ship energy design optimisation, autonomous shipping and fleet intelligence.

#### 2.5.2.15. INFORE

<https://www.infore-project.eu/>

The aim of the INFORE project is to address the challenges posed by huge datasets and pave the way for real-time, interactive extreme-scale analytics and forecasting. The ability to forecast, as early as possible, a good approximation to the outcome of a time-consuming and resource demanding computational task allows to quickly identify undesired outcomes and save valuable amount of time, effort and computational resources.

#### 2.5.2.16. EIT Climate-KIC

<https://www.climate-kic.org/>

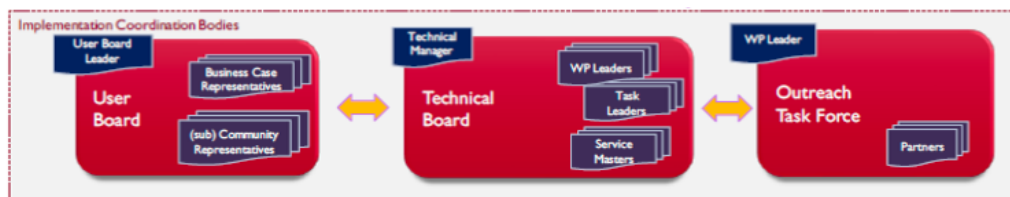
EIT Climate-KIC is a Knowledge and Innovation Community (KIC), working to accelerate the transition to a zero-carbon, climate-resilient society. Supported by the European Institute of Innovation and Technology, we identify and support innovation that helps society mitigate

and adapt to climate change. We believe that a decarbonised, sustainable economy is not only necessary to prevent catastrophic climate change, but presents a wealth of opportunities for business and society. They bring together partners in the worlds of business, academia, and the public and non-profit sectors to create networks of expertise, through which innovative products, services and systems can be developed, brought to market and scaled-up for impact. EIT Climate-KIC brings together the most effective groups to create the innovation that can lead to systemic change.

## 3. WP10 Organization

### 3.1. Coordination Model

The Outreach Task Force is created to lead and coordinate Dissemination activities. The composition of the Outreach Task Force is based on the Grant Agreement and is led by Outreach Manager and engages partners with key roles in outreach WPs. Next chart illustrates the model.



*Fig. 74 Coordination model*

The role of the team is to monitor outreach activities, identify opportunities and mobilise resources, as outreach in NEANIAS is quite intensive, ambitious and of strategic importance for the success of the project. WP10 is composed of all project members, who were requested to contribute with their knowledge and networking, as well as the specific tasks in charge.

### 3.2. Coordination activities

The Communication, Dissemination, Engagement and Dissemination WP means a cross-task throughout the life of the project that involves all partners. To lead and coordinate the activities, the WP leader has established the following means:

- WP 10 working group
- WP 10 committee
- Project meetings
- On demand meetings

#### 3.2.1. WP 10 working group

To organize and manage the WP-10 activities, a working group has been created, made up of a representative from each partner. This group, which constitutes the executive committee of the WP 10, meets monthly, the third Friday of each month. The agenda always contains the following points:

- Overview
- Activity per WP, considering dissemination activities (already done and planned), articles and contents.
- Risks
- Actions for next month
- KPIs status
- Next steps

Moreover, any particular issue is discussed considering the needs (for instance, the production of newsletter, the organization or participation in any event, collaboration with other projects and liaison activities, actions for the Open Call, legal issues, training needs, concerns, ...).

The next pictures illustrate some content discussed in the meetings.

- Document template used for presentations in WP10 meetings:

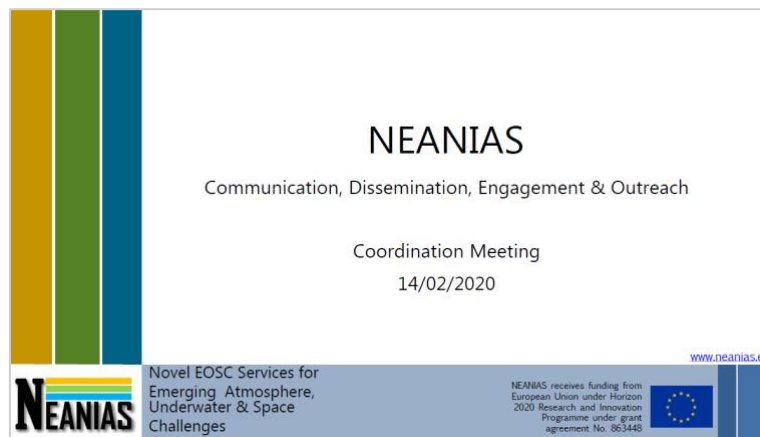


Fig. 75 WP10 monthly meeting. Example (1)

- Example of agenda of topics to be discussed in a WP 10 meeting.

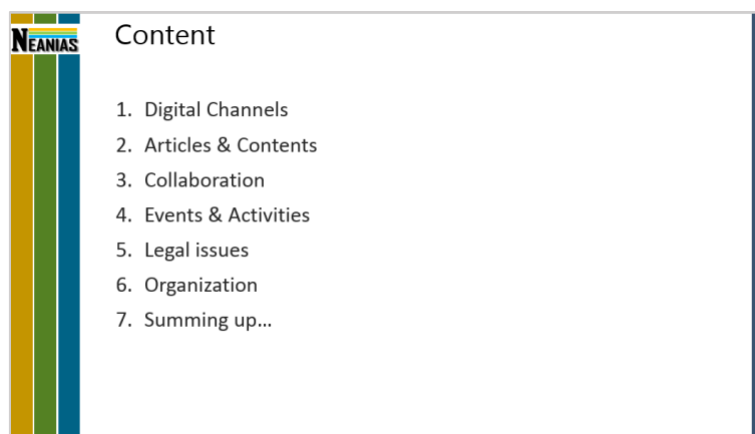


Fig. 76 WP10 monthly meeting. Example (2)

- Following, sample of presentation and subsequent discussion on the contents of NEANIAS website and how to maximize the impact on our audience.

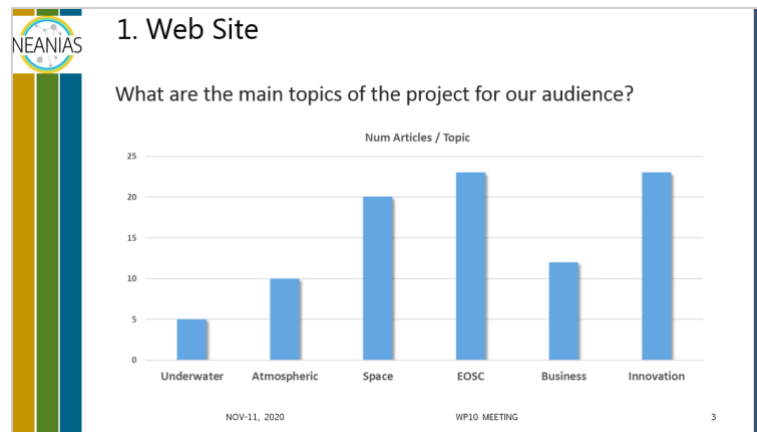


Fig. 77 WP10 monthly meeting. Example (3)

- Following, an example about the use and impacts of NEANIAS digital channels.

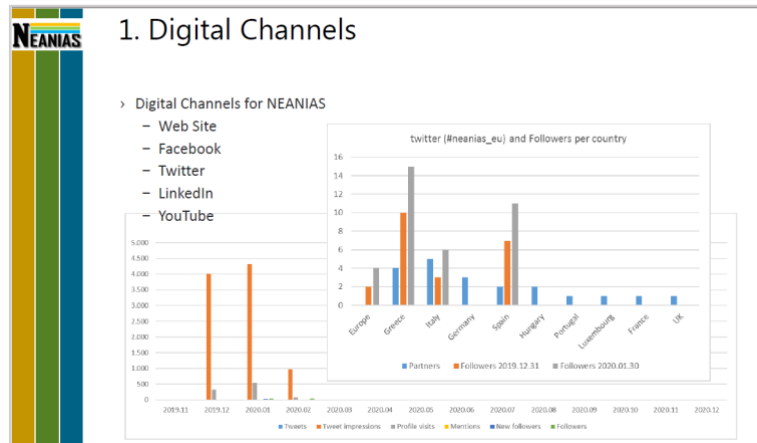


Fig. 78 WP10 monthly meeting. Example (4)

The next figure illustrates a discussion about the organization of EOSC project expo:



Fig. 79 WP10 monthly meeting. Example (5)



### 3.2.2. WP 10 Committee

To ensure that the entire project is well represented, and the workload is well balanced among all members, some tasks have been coordinated among the leaders of the NEANIAS work packages. Then, each of the WP leaders has managed internally among their members the best way to achieve the challenges purposed:

- Production of articles and contents.
- Representative content for the newsletter.
- Stakeholders' engagement.
- Collaboration with other projects.
- Participation in thematic events.
- Integration with other digital platforms.

### 3.2.3. Project meetings

The project meetings, both of the Project Management Board and the Plenary Meetings, have been very fruitful in communication, interaction, engagement and planning of actions involving WP10. They have also been a place to discuss follow-up, share achievements, and communicate general messages.

The pictures below illustrate it:



#### Day 3<sup>rd</sup> September

Link: <https://global.gotomeeting.com/join/416492573>

<i>Technical, Managerial and Business sessions</i>		
Start Time	Session Title and Info	Presenters / Moderators/Contributors
9:00 - 11:00 CE9T	Discussion on the thematic /core services open issues (cont.)	Chair: Prof. K. Karantzas (SSCCo), G. Kakaletis (TM), WP leaders, Task leaders
11:00 - 12:00	WP 1,10: Management issues (Administrative & Financial aspects), Management tools, KPIs, Dissemination issues - Discussion	Chair: Prof. M. Hatzopoulos, E. Petra, Dr. N. Chondros (NKUA), Dr. Daniel Martinez (RICOH),
12:00 - 14:00	Lunch break	
14:00 - 15:00	WP 5, WP9: Business cases, Assessment and Sustainability issues	Chair: Dr. K. Kovacs (INNOMINE), Dr. I. Neokosmides (INCITES)
15:00 - 16:00	Discussion on the Business cases, Assessment and Sustainability issues	WP5, WP9 Workpackage leaders, Task leaders NEANIAS partners
16:00 - 17:00	Focused group meetings (optional – parallel sessions)	
17:00	End of meeting	

*Fig. 80 Plenary meeting and WP10 (example 1)*


**Wednesday 27 November**

<i>Introduction and kicking off of all activities</i>		
Start Time	Session Title and Info	Presenters / Contributors
09:00	Welcome & Round Table	Prof. M. Roussopoulos (NKUA), All
09:40	Project objectives	Prof. M. Roussopoulos (NKUA), E.Petra (NKUA)
10:10	Contribution to EOSC strategy and goals	Dr. G. Papastefanatos (ATHENA)
10:40	Under Water Research Sector	Prof. P. Nomikou (NKUA)
11:05	Coffee break	
11:25	Space Research Sector	Dr. E. Sciacca (INAF)
11:50	Atmosphere Research Sector	Prof. S. Rapsomanikis (ATHENA)
12:15	Core Services	Dr. R. Lovas (SZTAKI)
12:40	Engagement of the 3 Sector Communities	Dr. U. Becciani (INAF)
13:10	Lunch	
14:10	Data Management Plan, IPR and Licensing	G. Kakaletis (CITE)
14:30	Communication, Dissemination & Outreach	D. Martinez (RICOH)
15:00	Exploitation and Sustainability	Th. Rokkas (INCITES)
15:20	Innovation Issues and Actions	Dr. K. Kovacs (INNOMINE)
15:40	Management organization, tools & procedures	N. Chondros (NKUA), G. Kakaletis (CITE)
16:10	Coffee break	
16:30	Consortium agreement, Administrative & Financial aspects	M. Hatzopoulos (NKUA), K. Papadaki (NKUA)
17:00	Quality Assurance & Risk Management	G. Kakaletis (CITE) / K.Kakaletis (CITE)
17:30	End of the day	
19:00	Social Dinner	

*Fig. 81 Plenary meeting and WP10 (example 2)*

And then some illustrative images about the face-to-face (before the pandemic) and virtual meetings.



*Fig. 82 NEANIAS meeting (1)*



*Fig. 83 NEANIAS meeting (2)*



*Fig. 84 NEANIAS meeting (3)*



*Fig. 85 NEANIAS meeting (4)*

### 3.2.4. On demand meetings

In addition to all the above, several meetings have been held on demand in order to manage particular issues related to the objectives of WP. The meetings, requested by the WP-10 leader or any project member, could have been at the member level, the WP level, or with several representatives to discuss a certain matter, such as:

- KPIs discussions.
- Production of content.
- Participation in an event.
- Publishing on media.
- Analysis of contingencies.
- Stakeholder engagement.
- Networking and user attraction.
- Training needs in digital channels
- Digital resources needs.
- IT integrations.
- Dissemination material needs.
- Content in other national languages.
- Joint collaboration in relevant task (open call, reports, ...)
- Etc.

### 3.2.5. Main meetings

As executive summary, next table displays the main meetings held.

Meeting	Place and date
WP10 Teleconference	online monthly meeting
General teleconference	online 2019.11.04
Workspace demo	online 2019.11.19
General teleconference	Face-to-face 2019.11.27 to 29
General teleconference	online 2020.03.18 to 19
General teleconference	online 2020.03.2 to 3
General teleconference	online 2020.11.19 to 20
General teleconference	online 2021.03.29 to 30
Project Management Board meeting	online monthly meeting

*Table 7 Main meetings (executive)*

## 4. WP10 Summary

As a conclusion, the following table summarizes the indicators of success of the dissemination, exploitation and communication activities. The detail is presented in Report of Activities section above.

### 1. KPI's concerning user (supply and demand) attraction:

Range	Type of dissemination and communication activities	Target	Contributed values
Ecosystem	Workshops / conferences (co)organized.	9	5
Ecosystem	Workshops supported by presenters and panellists on project specific topics.	30	15

*Table 8 KPIs concerning user (supply and demand) attraction.*

### 2. KPIs concerning innovation dissemination:

Range	Type of dissemination and communication activities	Target	Contributed values
Ecosystem	Open calls applicants/participants	30	21

*Table 9 KPIs concerning innovation dissemination*

### 3. KPIs concerning scientific dissemination:

Range	Type of dissemination and communication activities	Target	Contributed values
Wide range	Average social media posts per month	8	40
Wide range	General public articles languages supported	9	15
Ecosystem	Peer reviewed scientific publications	25	10
Ecosystem	Other scientific publications and artifacts	30	4
Ecosystem	References and acknowledgements	100	8
Ecosystem	Whitepapers (as per work plan)	4	0
Ecosystem	Multimedia & training material published	30	13
Ecosystem	Gold Open Access publications percentage	30%	0
Wide range	Fairs and exhibitions participated	20	3
Wide range	Commercial exploitation events participation	10	2

*Table 10 KPIs concerning scientific dissemination*

### 4. KPIs concerning social dissemination:

Range	Type of dissemination and communication activities	Target	Contributed values
Wide range	Websites launched (workplan)	1	1

Wide range	Website content updating (average)	weekly	2 x week
Ecosystem	Templates for dissemination activities and other premade dissemination material	10	10
Ecosystem	Hardcopy/tangible material forms	5	18
Wide range	Social media dissemination channels	4	4
Wide range	Social media impressions (social media channels total)	30,000	205.000
Wide range	Social media followers (total across media)	2000	1.196
Wide range	Average technical blog posts per month	4	4
Wide range	Average general public blog posts per month	4	4
Wide range	General public articles on printed or online media	30	12
Wide range	Newsletters issued (biannual)	6	3

*Table 11 KPIs concerning social dissemination*

5. KPIs concerning strengthen impact via joint efforts:

Range	Type of dissemination and communication activities	Target	Contributed values
Ecosystem	Relevant H2020 Projects & research infrastructures liaised with NEANIAS (total)	20	16
Ecosystem	Projects & initiatives liaised with, from the same call, sharing experiences and solutions to challenges.	3 (all)	3
Ecosystem	MoUs signed with 3rd parties.	10	2
Ecosystem	Datathons/hackathons organized by the project	4	1
Ecosystem	3rd party datathons/hackathons supported by project	4	2
Ecosystem	Datathons/hackathons participants	500	130
Ecosystem	Individuals directly addressed via scientific, academic communication, innovation stimulation, training and engagement activities	3000	6417

*Table 12 KPIs concerning strengthen impact via joint efforts*

## List of acronyms

Acronym	Description
<b>EOSC</b>	European Open Science Cloud
<b>GDPR</b>	General Data Protection Regulation
<b>ICT</b>	Information and Communication Technologies
<b>IPR</b>	Intellectual Property Rights
<b>KPIs</b>	Key Performance Indicators
<b>OTF</b>	Outreach task force
<b>MoU</b>	Memorandum of Understanding
<b>SME</b>	Small and Medium Enterprise
<b>WP</b>	Work Package
<b>WWW</b>	World Wide Web