



Next generation data-driven reference European models and methods towards silent and green aircraft operations around airports

*Horizon Europe | HORIZON-CL5-2022-D5-01-12*

# Dissemination and Communication Plan – RP1 update



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## PROJECT ABSTRACT

NEEDED responds to the second and third bullets of the “expected outcome” of the HORIZON-CL5-2022-D5-01-12 topic, delivering the next generation data-driven reference European models and methods to estimate present and future aircraft emissions (pollutants and noise), achieving TRL 4 at the end of the project. To do so, NEEDED will advance the state of the art by:

- improving the accuracy of the reconstruction of aircraft operations by using real-world ADS-B data,
- advancing emission inventories for current and future aircraft technologies, while delivering more accurate pollution dispersion models,
- extending the applicability of the ECAC Doc. 29 noise model towards future aircraft technologies,
- performing more accurate estimation of the number of people affected by local air transport operations by using dynamic population maps.

These activities are complemented by (i) local air quality (LAQ) and experimental noise measurements performed at Rotterdam The Hague Airport and Larnaca Airport, (ii) validation of the NEEDED toolchain in a 30-week pilot study involving three airports, and (iii) delivery of a methodology to optimize the flight patterns for minimum detrimental impact on the population in present and future scenarios. The project aims to function as a technology enabler, laying the methodological groundwork for facilitating the entry into service of transformative aircraft technologies while capitalizing on the potential of ADS-B data. The enabler role of NEEDED to the future Air Traffic Management (ATM) regulation and policies is facilitated by the direct involvement of EUROCONTROL.

The consortium combines a wide portfolio of competences from 11 partners from 8 different EU member states (Austria, Belgium, Italy, Sweden, The Netherlands, France, Spain and Cyprus) plus 1 non-EU Country and it is coordinated by AIT Austrian Institute of Technology. NEEDED is scheduled to run from January 1st, 2023, to December 31st, 2026, for a total duration of 48 months and has received funding from the European Union’s Horizon Europe research and innovation programme under Grant Agreement no. 101095754. A full list of partners and funding can be found at: <https://cordis.europa.eu/project/id/101095754>

## LIST OF ABBREVIATIONS

Acronym / Short Name	Meaning
EU	European Union
GA	Grant Agreement
IPR	Intellectual Property Rights
KPI	Key Performance Indicator
RIA	Research and innovation action
WP	Work package

## EXECUTIVE SUMMARY

Effective communication and dissemination are a part of excellent science. They help to increase the impact of research and innovation by bringing research and its outcomes to the attention of non-scientific audiences, scientific peers, potential business partners or policymakers, which promotes collaboration and innovation.

Project communication is also essential to help a project achieve its goals and helps increase the impact of research and innovation. As a project co-funded by the EU, NEEDED obligations for communication, dissemination and promotion of the action are also rooted in Article 17 of the annotated model grant agreement, thus making them a contractual obligation.

The activities to ensure effective communication and dissemination are encapsulated in the project's *WP6 Dissemination, communication, exploitation and IPR management*, which is structured in four tasks:

- T 6.1 Scientific dissemination
- T 6.2 Communication towards non-specialist stakeholders and public outreach activities
- T 6.3 Exploitation and IPR management
- T 6.4 Clustering and liaising with other relevant Horizon projects and initiatives

Of these, T6.1, T6.2 and T6.4 directly contribute to dissemination and communication goals, while also directly or indirectly supporting T6.3.

The present report is covering the programmatic activities for T6.1 and T6.2 and a summary of the activities performed in the first reporting period. It describes the overall approach to dissemination and communication in the project. It outlines the structured approach along the dimensions of objectives, audience/stakeholders, messages, media and means (channels), communication timing (phases), and assessment of the effectiveness of the communication measures (through KPIs).

## 1 INTRODUCTION

The present *D6.5 Dissemination and communication plan RP1 Update* is an update of the D6.1, which covers communication to the project's outside environments (external stakeholders). Project-internal communication is covered in *D7.1 Project handbook*.

This plan can be read in conjunction with the following other project deliverables (once they are issued):

- D6.2 Preliminary exploitation strategy.
- D6.3 Final dissemination and communication report.
- D6.4 Final exploitation strategy.
- D7.1 Project handbook – This is where project stakeholders are defined. Changes to stakeholders made in the project handbook should be taken into consideration for the communication and dissemination activities.
- D7.2 Data management plan (DPM) – relevant for Open Science

All these are public deliverables and once cleared for publication will be available at <https://cordis.europa.eu/project/id/101095754>.

Section 2 of this document describes the general communication approach, whereas Section 3 adopts the same methodological approach but focuses on the specifics of dissemination, building on the more general communication part.



## 2. COMMUNICATION

To plan and execute communication that supports the project goals and impact maximisation, a systematic approach is adopted in NEEDED, according to the numbered scheme below. First, overall goals and objectives for communication are stated (1). Stakeholders as defined in the project management environment analysis are adopted (2). Appropriate types of messages are identified (3), according to audience (=stakeholders (2)) and communication phase (see (5)). A focused set of media channels and means of communication are selected (4) through which NEEDED will transport its messages and enable connection with its stakeholders. The project communication is segmented into phases (5), in-line with the development of the technical activities of the project. Finally, the effectiveness of the communication activities is measured by adopting selected KPIs (6).

1. Goals and objectives
2. Audience
3. Message
4. Media and means
5. Communication phases (timing)
6. Key Performance Indicators.

These aspects are further elaborated in the following subsections.

### 2.1. OBJECTIVES

Objectives for the overall project communication are to:

1. **Promote the visibility of the project** and communicate the greater context in which it operates - Promote the action and its results, by providing targeted information to multiple audiences (including the media and the public), in accordance with Annex 1, in a strategic, coherent and effective manner
2. **Inform stakeholders** about the project and allow them to get in touch
3. **Establish a recognisable and consistent project identity** (visual, language)
4. **Support the project's dissemination and exploitation measures**
5. **Assess** through key performance indicators (KPIs) **the effectiveness of communication and dissemination measures.**

### 2.2. AUDIENCE

NEEDED communication addresses multiple audiences. At first, there is the specialised community, composed by stakeholders in the fields of local air quality, pollutants, and noise assessment from air transport. For communication, NEEDED will benefit from the strategic position of its members within the former H2020 and CleanSky programmes and current HORIZON and Clean Aviation programmes, as well as from existing and upcoming the EU networks. Focusing on the latter, NEEDED has, at the present, joined the HORIZON-CL5-2022-D5-01-12 project cluster together with the funded projects HOPE, INDIGO, MYTHOS and PANDORA (consistently with T6.4), and planned a common dissemination activity already in Sept. 2023, in conjunction with the 13<sup>th</sup> EASN International Conference. Moreover, NEEDED presented the project activities and preliminary results to the AIRMOD meeting in 2023 and 2024, to the SAE A-21 committee in 2023, to the EUROSIM 2023 and to the ISEAS-2023.

Besides this specialist community, NEEDED also targets communication towards the media, broader public and European citizens, with a specific focus on those living and working in the areas nearby major airports and hubs, and hence, more exposed to the impact of civil air traffic. They are considered stakeholders because the project is co-funded with EU taxpayer money, and because it

aims to contribute towards the decarbonisation of road and air transport, and thus to larger societal objectives such as those of the Paris Agreement, the EU Green Deal, and associated efforts. For these reasons, two associations representing the authorities and the population living around airports have been included in the AB, Airport Regions Council (ARC) and Union Européenne Contre les Nuisances Aérienne (EUCNA). These associations are participating actively to the NEEDED GA meetings, providing feedback and comments on the NEEDED advancements.

## 2.3. MESSAGES

Messages will be tailored based on the occasion and the specific audience being targeted, therefore no taxative enumeration of messages can be given here. However, some key types of messages can be formulated. Communication can focus on one or more of these key types of messages:

- Showing how this project and/or related European research (and innovation) actions strengthen the European aeronautic industry.
- Demonstrating how the research and innovation in the project contributes to solving societal challenges (impact on everyday lives, contribution towards decarbonisation, better use of results and spill-over to policymakers, industry and the scientific community).
- Increasing public awareness for local air quality, and impact of air travel on cities and urban areas.
- Demonstrating scientific excellence, envisaging accurate estimation of affected population and impact assessment of present and future aircraft technologies.
- Demonstrating how collaboration in the format of a European research project achieves more than beneficiaries could manage individually
- Announcing publications, events, or other news from the project.

## 1.1 MEDIA AND MEANS

In the sustainability and aviation sectors, communication typically centers around technical updates or product promotions. However, sustainability, particularly renewable energy, circular economy, and green technologies, is emerging as a significant trend. This provides an opportunity for NEEDED to stand out by focusing on local air quality and aircraft noise modeling, emphasizing its role in decarbonization and sustainable innovation.

Competitors often use traditional content that highlights end products or technical results. In contrast, more innovative players highlight the entire project journey to create engaging narratives. NEEDED's communication strategy aims to reach a diverse audience, including stakeholders in sustainability and innovation, as well as the general public, students, media, and eco-conscious consumers, by leveraging its EU funding and commitment to societal goals.

### TARGET AUDIENCE:

The communication strategy for the NEEDED project is designed to engage not only key stakeholders within the renewable energy, sustainability, and innovation sectors but also broader audiences, including the general public, students, media, and eco-conscious consumers. Recognizing the project's EU funding and its alignment with societal goals, we are broadening our outreach to include both professionals and non-stakeholders interested in sustainability and green initiatives.

### TARGET AUDIENCE SEGMENTS

#### Target 1: Eco-conscious Millennials

- **Age Range:** 18-35 years

- **Demographic:** University students, young professionals, and environmentally aware consumers
- **Interests:** Renewable energy, sustainable technology, climate activism, green lifestyle choices
- **Preferred Media:** Social media platforms like Instagram, LinkedIn, blogs on sustainability, and community forums focused on eco-friendly living
- **Engagement Strategy:** Educational content and lifestyle-oriented posts to inspire action, create awareness, and foster engagement with renewable energy topics.

### Target 2: Sustainability-focused Professionals

- **Age Range:** 40-60 years
- **Demographic:** Academics, business leaders, consultants, managers in environmental and energy sectors
- **Interests:** Innovation in energy solutions, corporate responsibility, sustainable business practices
- **Preferred Media:** Industry publications such as GreenBiz, The Economist, and Nature Energy; participation in webinars, podcasts, and LinkedIn groups on sustainability and corporate innovation
- **Engagement Strategy:** In-depth articles, thought leadership pieces, and technical insights that demonstrate the NEEDED project's role in advancing renewable energy solutions.

### Target 3: Non-Stakeholders (General Public and Media)

- **Age Range:** 25-55 years
- **Demographic:** General public, journalists, environmental activists, and eco-conscious consumers
- **Interests:** Environmental conservation, sustainability, news on renewable energy initiatives, and societal impacts of green projects
- **Preferred Media:** Mainstream news outlets, social media, podcasts, and blogs focused on sustainability and environmental issues
- **Engagement Strategy:** Public-oriented content such as accessible project updates, environmental benefits of renewable energy, and human-interest stories that highlight the societal impact of the NEEDED project.

#### 2.3.1. Project visual identity

The visual identity of the project sets a consistent look and feel for project communication. The visual identity is incorporated in all official project documents, especially those destined for communication with the project's external environment, as well as the project's communication channels.

We have created multiple versions of the logo to ensure versatility across different backgrounds, including versions suitable for both light and dark backgrounds, as well as high-definition (HD) and low-resolution formats.



*Figure 1. NEEDED project logo.*

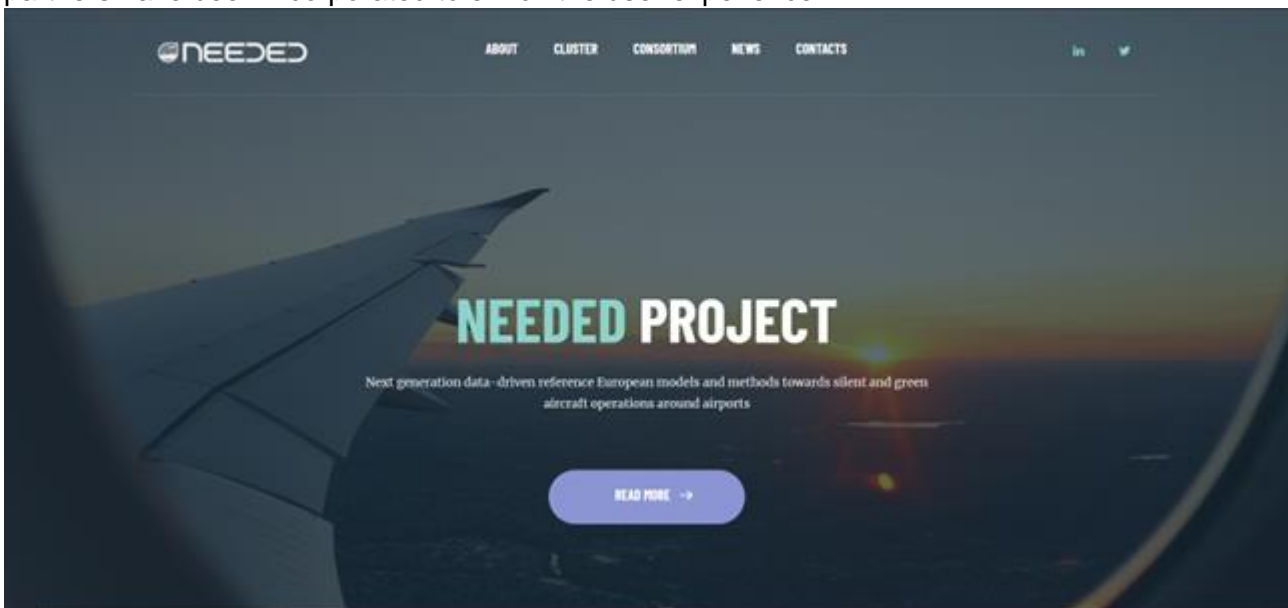
The colour palette is employed on website and in project documents (e.g., deliverables, presentations, etc.). The colour palette (Figure 2) provides the range of colours that may be employed in project communications to ensure a flexible yet consistent visual appearance.



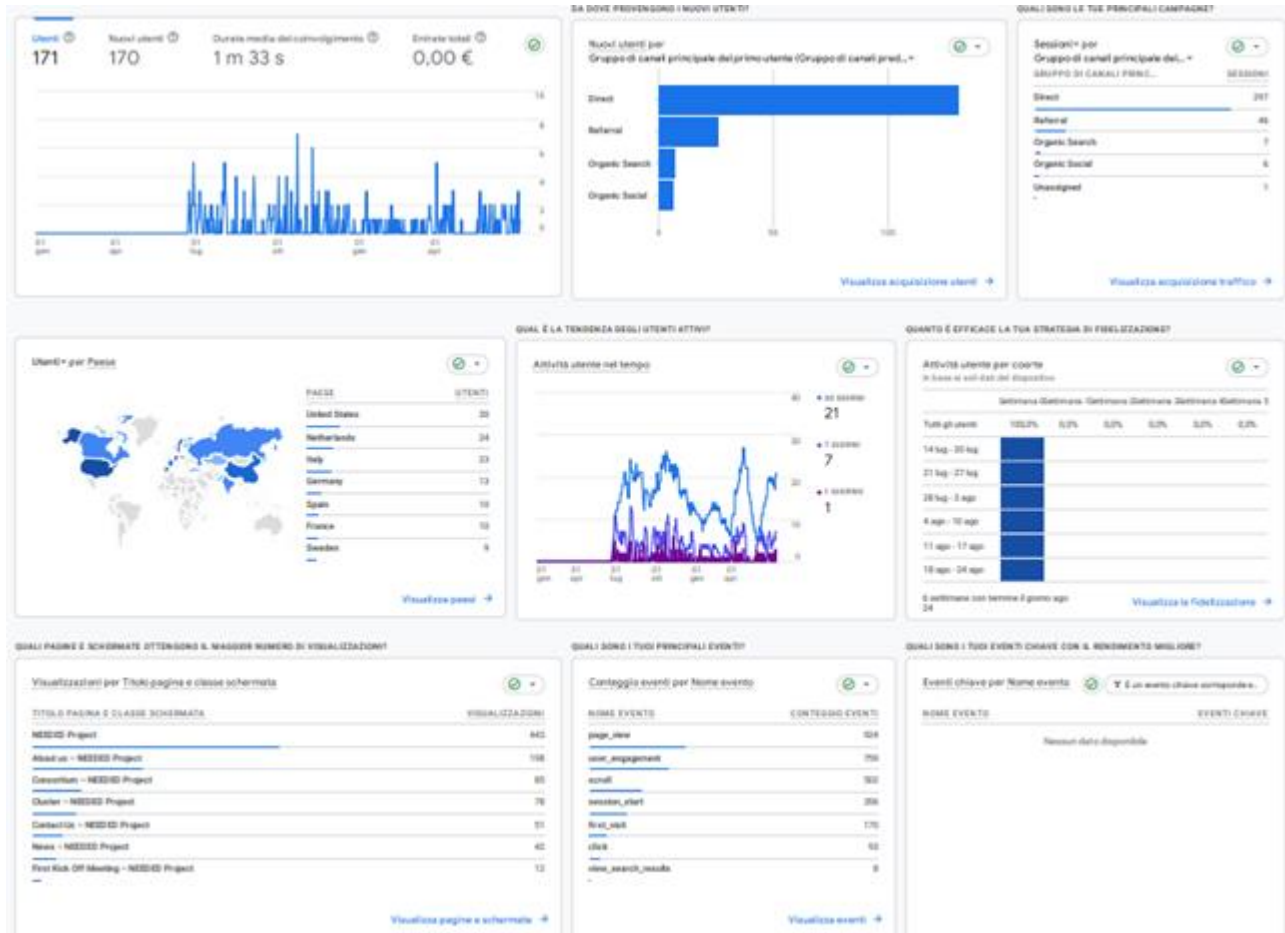
Figure 2: NEEDED colour palette.

### 1.1.1 Project website

The website, operating at the domain <https://www.needed-project.eu/>, provides an overview of the consortium, project objectives and activities, news updates, publications (page to be populated), and links to the project's social media channels. Visual support images provided by consortium partners have been incorporated to enrich the user experience.



Website data indicates approximately 171 new user visits up to M18. The primary sources of traffic comprise organic search, direct links, referrals, and organic social, ranked in descending order of prominence. Geographically, the majority of users originate from the United States, followed by Netherlands, Italy, Germany, Spain, France and Sweden.



### 2.3.2. Social media

NEEDED is employing selected social media to reach its audiences. This is a two-pronged approach:



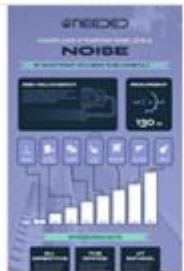
- **Project’s own social media.** The focus is on LinkedIn, where a dedicated project page was set up (<https://www.linkedin.com/company/needed-project.eu/>), as from previous experience this is the most effective online tool for reaching most of the target audience. Additionally, a Twitter account was created that will be used to broadcast the most relevant milestones of the project.
- **The members of the project consortium are also encouraged to leverage the social media of their own organisations (companies, research institutes, etc.) to amplify the messaging of the project.** To increase visibility of project news and posting, the project beneficiaries are encouraged to repost items from the project’s LinkedIn and/or homepage entries to their company social media (e.g., LinkedIn, YouTube), as well as their personal accounts. This appears to be one of the most effective methods to obtain visibility, at the same time it is a voluntary measure to the extent that partner organisations and individuals are willing to carry it.

The selection and use of appropriate hashtags/handles to bring the project to the attention of relevant. NEEDED is surveying the social media of its predecessor and other related battery projects to find the important #hashtags to use.

In connection with dissemination, it may be expedient to use Zenodo.org for making open data available. This topic is covered in the data management plan (DMP) → *D7.2 Data management plan*.

NEEDED’s website and social media channels are maintained and populated primarily by Lead Tech; content input suggestions are routinely made by the project coordinator but are welcome and encouraged from any consortium partner.

With a four-month editorial plan that includes publishing an average of four to six posts monthly, focusing on informative updates about the project, event recaps, and insights from related initiatives to ensure continuous communication and visibility. Messages are tailored to resonate with specific audiences, emphasizing the European aviation industry's strengthening, support for sustainable development, decarbonization efforts, scientific excellence, and collaboration in European research projects. Below is an example of our structured editorial plan.

	A	B	C	D	E	F	G	H
	DATA	FORMAT	descrizione	CONTENT	COPY	REFERENCE	link post	
10-giu	2024.05	GA			<p>During the event the partners were invited to participate in a series of #Eurocontrol events, the outcomes of which will be disseminated in the following weeks.</p> <p>Many thanks to the #EUROCONTROL team for hosting the #event and to all the participants for their dedicated efforts towards advancing the</p>		<a href="https://www.linkedin.com/feed/update/urn:li:activity:7205961924105168853">https://www.linkedin.com/feed/update/urn:li:activity:7205961924105168853</a>	
18-giu				VIDEO G.A.	<p>For NEEDED project we gathered for a General Assembly, an event that provided the opportunity to discuss the progress of the project. This time, we had:</p> <ul style="list-style-type: none"> <li>- 34 experts</li> <li>- 11 institutions</li> <li>- 8 different countries represented</li> </ul> <p>Watch the video to get closer to what we do in a GA meeting!</p> <p>Many thanks to the host @EUROCONTROL that welcomed us in Brussels, Belgium on May 29th and 30th.</p>		<a href="https://www.linkedin.com/feed/update/urn:li:activity:7208876121442903041">https://www.linkedin.com/feed/update/urn:li:activity:7208876121442903041</a>	
25-giu	2024.05	GA	intervista AIT		<p>Join us as we discuss with @Alessandro Zanon, representing @AIT as project coordinator and senior scientist.</p> <p>What are we talking about?</p> <p>#Traveling in 2024 has become easy for each of</p>		<a href="https://www.linkedin.com/feed/update/urn:li:activity:7211412656720809984">https://www.linkedin.com/feed/update/urn:li:activity:7211412656720809984</a>	
28-giu	every day		noise levels		<p>Did you know how important it is to prevent noise pollution?</p> <p>Whether the cause is genetic, age-related, or environmental, approximately 80% of the population has some degree of hearing loss.</p> <p>#Preserving hearing health is important for basic communication, balance, health, and even brain acuity.</p> <p>Regardless of age or degree of hearing loss, it's important to limit excessive noise exposure and use protective equipment when around loud sounds for extended periods.</p>		<a href="https://www.linkedin.com/feed/update/urn:li:activity:72124949">https://www.linkedin.com/feed/update/urn:li:activity:72124949</a>	

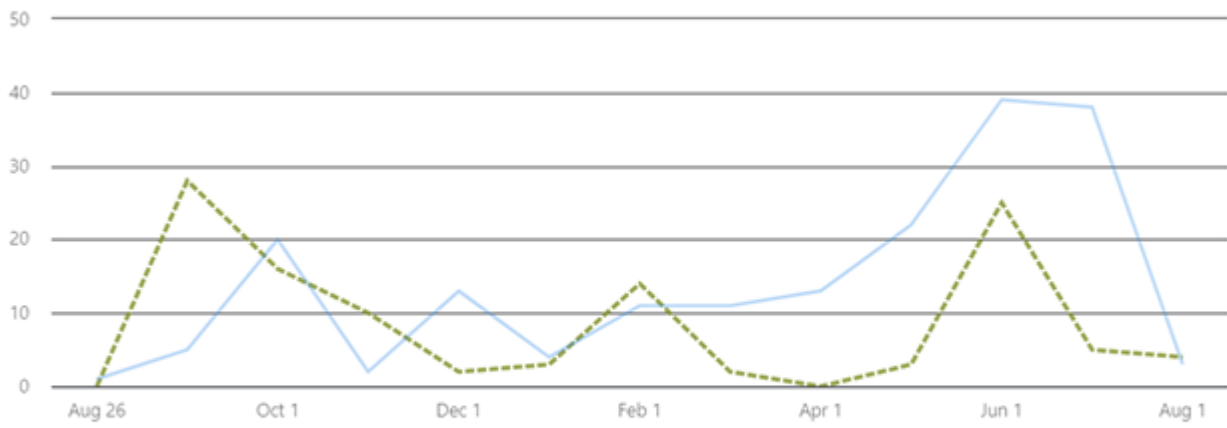
Summarising LinkedIn data in technical terms:

Our LinkedIn profile was activated in February 2023, with useful data available from this date. To date, we have garnered 114 followers, achieving 294 page views up to M18, with 2 clicks on the custom button directing to the project website.

The strategy for the first year was focused on attracting users closely aligned with project themes, given their heightened engagement with existing project information. Once a robust base of engaged users is established, we intend to transition to the second phase, targeting students. Presently, our LinkedIn followers primarily comprise engineers, researchers, students, and managers.

With the conclusion of Month 18, and having gathered both qualitative and quantitative data, the project has reached a stage of advancement conducive to the development of a new strategy informed by the insights gleaned from this data.

Page views ▾ All pages ▾ All filters



<input checked="" type="checkbox"/>	Desktop	182
<input checked="" type="checkbox"/>	Mobile	112

### 2.3.3. Communication materials

The range of communication materials covers printed and digital materials.

**Print materials:** To date, 250 brochures (Figure 3) copies were printed and distributed to partners during the general assembly, we plan to deliver stickers (e.g., with project logo and website URL or QR code, to stick on business cards or project demonstrators such pouch cells.)

**PARTNERS**

AT: AIT, FUGRO  
 SE: @flightradar24  
 NL: Rotterdam The Hague Airport, TU Delft  
 FR: ONERA  
 ES: Anotec  
 CH: OPENSKY NETWORK  
 IT: LEAD TECH  
 CY: THE CYPRUS INSTITUTE

**CONTACT**

WWW.NEEDED-PROJECT.EU

WWW.LINKEDIN.COM/COMPANY/NEEDED-PROJECT.EU

TWITTER.COM/NEEDED\_PROJECT

**NEEDED**

Next generation data-driven reference European models and methods towards silent and green aircraft operations around airports

FOR A BETTER FUTURE

This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement no. 101095754

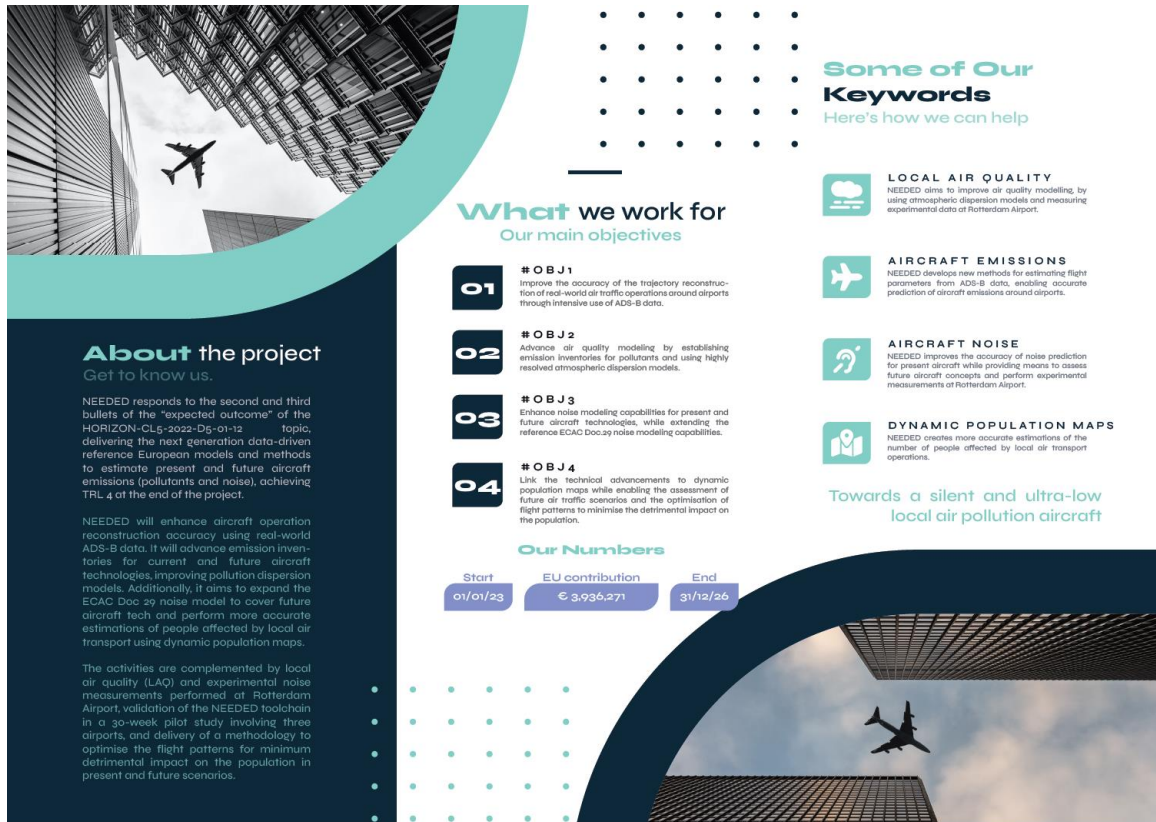


Figure 3 NEEDED Brochure

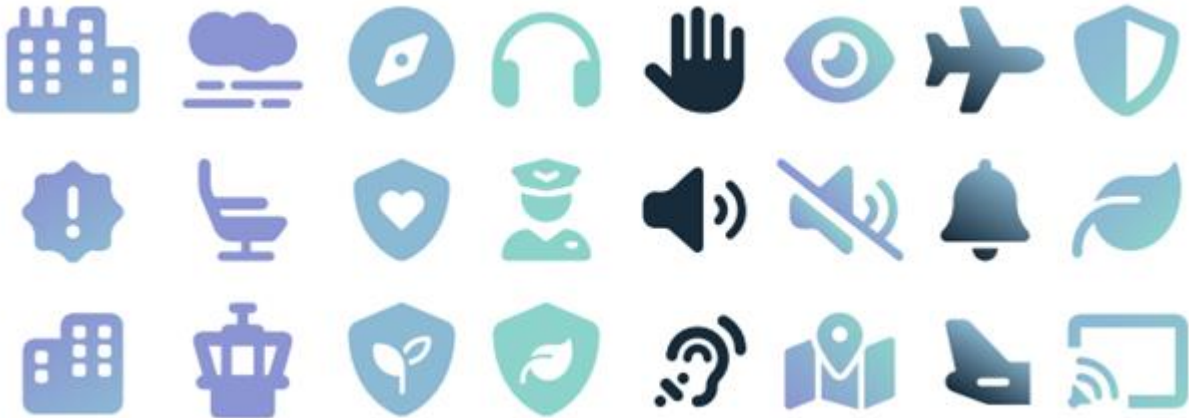
**Digital materials:** To date, we have produced 2 mini-clip capturing the NEEDED kick of meeting and General Assembly meeting (<https://www.linkedin.com/feed/update/urn:li:activity:7208876127442903041>) and conducted four interviews featuring partners of the project and AB counsellors:

- AIT <https://www.linkedin.com/feed/update/urn:li:activity:7211412856720809984>
- EUROCONTROL <https://www.linkedin.com/feed/update/urn:li:activity:7213972216290410496>
- ARC <https://www.linkedin.com/feed/update/urn:li:activity:7219740205195362304>
- UECNA <https://www.linkedin.com/feed/update/urn:li:activity:7225100546729234434> )

These initiatives aim to enhance user engagement by introducing the faces behind the project.

A set of icons depicting the main project themes have been developed. These can be used in presentations and other communication materials to focus attention on key topics.





A separate newsletter is not planned. Instead, news updates are provided via the website and social media channels. However, a joint newsletter with related projects may be envisaged in connection with the activities of *clustering and liaising with other relevant RIA projects* (as part of *T7.1: Project coordination and management of the Advisory Board*) insofar as this is agreed with other projects.

#### 2.3.4. Presence at online and physical events

Representatives of NEEDED will take part in selected conferences and other on- and offline events. For details on this, see Section 3.4.1.

#### 2.3.5. Acknowledgement of EU funding

Acknowledgement of EU funding must and will be made in line with the applicable guidelines [3] for all project materials accessible to the public.

## 2.4. COMMUNICATION PHASES

Project communication will evolve with time and technical progress in the project. Three main phases are envisaged.

- **Phase 1 – Infrastructure setup:** establishing project visual identity, developing document templates, establishing project presence online (website, social media). Timing: M1-M6.
- **Phase 2 – Communication ramp-up.** In this phase, project activities are well under way, but major results are not expected to have materialised yet. Communication will focus on initiating contact and connection with audiences and linking with other projects. Message focus is on project goals and project context. Connectivity and engagement KPIs are in focus for this phase. Timing: M6-M18
- **Phase 3 – Results and events communication.** This phase continues with the activities of phase 2 and adds message focus on project results, publications, events organised or attended by the consortium members. Active support of dissemination activities. Impact KPIs become the focus in this phase (phase 2 KPIs continue to be important). Timing: M18-M48.

## 2.5. KEY PERFORMANCE INDICATORS

In NEEDED we consider two groups of KPIs. The first is a more general measure of connectedness with audiences, mostly but not only online. The second group relates to the scientific output of the project.

**Connectivity and engagement KPIs:** these measure the extent to which the project is reaching its stakeholders and establishing connections, as well as promoting engagement with the project or individual consortium members. On social media, this includes followers, reposts, and comments. On the website, this will be measured through website traffic (e.g., via google analytics or other appropriate tool) and meaningful (non-spam) contacts through the website contact form. Other contacts such as personal meetings or email requests can also be included here.

**Impact KPIs.** These relate to dissemination and measure the scientific output. Examples: conferences and events attended, audience presentations held, publications.

*Table 1: Connectivity and engagement KPIs for NEEDED communication*

Project website	
Site traffic	20k+ visitors over the project life; about 2k (2023), 5k (2024), 6k+ (2025), 7k+ (2026).
Social media	
LinkedIn	500+ followers
	Reposts, comments and likes can be further indicators
Other digital formats	
Videos	One project video, with in-focus technical interviews with WP leaders, and animated mini clips on project highlights (if applicable as part of the video).
Newsletter	Optional – potentially a joint newsletter as part of a project cluster (tbd)

### 3. DISSEMINATION PLAN

Dissemination refers to the transfer of knowledge and results with the aim of enabling others to use or reuse and take up results, thus maximising the impact of funded research [1]. Since EU grants are financed by public funds, EU Beneficiaries are expected to disseminate their project results. In this way, the projects can benefit a larger group of persons and reach wider target groups [4].

This section follows the structure of Section 2 to show the approach towards dissemination that is adopted in NEEDED.

#### 3.1. OBJECTIVES

From [1], the dissemination-specific objectives obligations (resulting from the Grant Agreement) are adopted as objectives::

- **Disseminate results** — as soon as possible — through appropriate means, including in scientific publications (Article 17 of the Model Grant Agreement).
- **Ensure open access** (online access to research outputs provided free of charge to the end-user) to all peer-reviewed scientific publications relating to its results (Article 17 of the Model Grant Agreement).
- **Manage the digital research data generated in the action responsibly**, in line with the FAIR (Findable, Accessible, Interoperable and Reusable) principles (Article 17 of the Model Grant Agreement).
- **Comply, where the case, with additional obligations regarding Open Science** practices, such as measures regarding the validation of scientific publications (Article 17 of the Model Grant Agreement).

#### 3.2. AUDIENCE

The audience addressed by NEEDED is defined section 2.2. For dissemination purposes, the focus will be on the scientific and technical audience. Additionally: CL5-2022-D5-01-12 funded projects – cf. Section 3.4.1.

Further specification of these audiences: scientific/technological stakeholders (worldwide), aeronautics sector, and policy makers (e.g. Airport Regions Council<sup>1</sup> (ARC), the International Air Transport Association<sup>2</sup> (IATA), and the Airports Council International<sup>3</sup> (ACI)), research stakeholders and associations (e.g. EREA<sup>4</sup>).

#### 3.3. MESSAGE

Focus is on communicating and sharing scientific findings, in line with the objectives (see above), as well as advertising project/consortium/partner participation in relevant events.

#### 3.4. MEDIA AND MEANS

##### 3.4.1. International conferences, symposia, and industry forums

Consortium beneficiaries will select at their discretion appropriate conferences, symposia, and industry forums in which to participate and disseminate project results. In the following a non-

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<sup>1</sup> <https://www.airportregions.org/> [Retrieved July 2023].

<sup>2</sup> <https://www.iata.org/> [Retrieved July 2023].

<sup>3</sup> <https://www.aci-europe.org/> [Retrieved July 2023].

<sup>4</sup> <https://erea.org/> [Retrieved July 2023].

exhaustive list of examples is provided: Transport Research Arena (TRA, 2024 and 2026 editions possibly co-organised with other projects funded under the HORIZON-CL5-2022-D5-01-12) at the EU level, SAE Aerospace and Transportation Research Board at a global level. Presentation at events organised by DG-RTD and CINEA, e.g. Horizon-RTR25/RTR26 conference.

### 3.4.2. Peer-reviewed scientific publications

Scientific original articles in peer-reviewed scientific journals under Open Access publication, belonging to the areas of air transport and policy research (e.g. Elsevier Transportation Research, Transport Policy, Case Studies on Transport Policy, etc). If applicable, the Open Research Europe Engineering and Technology Journal<sup>5</sup> will be considered, and scientific publications will be complemented by the publication of open datasets.

### 3.4.3. Portal projects and results page, and CORDIS

Key project results (identified as such as part of project periodic reporting), including public technical deliverables, will be available via the project’s CORDIS entry at <https://cordis.europa.eu/project/id/101095754>.

These automatically roll up into the generalised Projects and results reporting at <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/projects-results>.

### 3.4.4. Open science

**Open Access publication of scientific articles.** The consortium is aware that scientific publications coming from research in the project must be made available in open access. Corresponding budgets were allocated in the project design phase, and the open access requirements have been communicated as part of project meetings. There is support for questions relating to Open Access through the project’s IPR manager in task *T6.3 Exploitation and IPR Management*.

**Open Data.** One of the aims of the open science policy under Horizon Europe is to “require research data to be FAIR and open by default (with exceptions notably for commercial purposes) [5]. The topic of open data and management of research data according to FAIR principles is done in NEEDED as part of project management under *T7.3 Quality, data and risk management* and is documented in the deliverables *D7.2 Data management plan (DMP)*. While open access is default for papers, open data are subject to a case-per-case evaluation, to protect industrially/commercially sensitive information.

## 3.5. COMMUNICATION PHASES

See Section 2.4. Phase 2 and above all Phase 3 will be in focus for dissemination.

## 3.6. KEY PERFORMANCE INDICATORS

Table 2: Dissemination KPIs summarises the KPIs for dissemination.

*Table 2: Dissemination KPIs*

Publications	
Conferences	8 international conference papers, with publication in conference proceedings. Priority will be given to peer-reviewed conferences (such as SAE, TRA, etc.).
Articles	8 original articles in peer-reviewed scientific journals.

<sup>5</sup> <https://open-research-europe.ec.europa.eu/browse/engineering-and-technology> [Retrieved July 2023].

Project deliverables	16 of the project's technical and management deliverables will be publicly accessible via the project's CORDIS entry and on its website.
<b>Open Data</b>	
Datasets	If applicable, one or more datasets will be published as FAIR-compliant Open Data, probably on zenodo.org.

### 3.7. SUMMARY OF DISSEMINATION PERFORMED

This section summarizes the publication and dissemination activities performed during the first 18M of the project, reported also in the EU portal.

The consortium published 4 papers in scientific conferences:

1. Pretto, M., Dorbolò, L., & Giannattasio, P. (2023). [Poster] Exploiting high-resolution ADS-B data for flight operation reconstruction towards environmental impact assessment. Journal of Open Aviation Science, 1(2). <https://doi.org/10.59490/joas.2023.7208>
2. Jayanthi, A. S., Snellen, M., Amiri Simkooei, A., Sijtsma, P., & van Oosten, N. (2024). A comparison of source localization methods with varying sizes of the phased microphone array. In Berlin Beamforming Conference (pp. 1-10). [https://pure.tudelft.nl/ws/portalfiles/portal/217205867/BeBeC\\_2024\\_Conference\\_Paper\\_1\\_.pdf](https://pure.tudelft.nl/ws/portalfiles/portal/217205867/BeBeC_2024_Conference_Paper_1_.pdf)
3. Jayanthi, A. S., Van der Griff, R. C., Snellen, M., & Dedoussi, I. C. (2024). A comparison of measured and modelled aircraft noise levels for rtha. In International Congress on Sound and Vibration (pp. 1-8). [https://pure.tudelft.nl/ws/portalfiles/portal/217205888/ICSV\\_2024\\_Conference\\_paper\\_1\\_.pdf](https://pure.tudelft.nl/ws/portalfiles/portal/217205888/ICSV_2024_Conference_paper_1_.pdf)
4. Olive, Xavier & Waltert, Manuel & Mori, Ryota & Mouyon, Philippe. (2024). Filtering Aircraft Surface Trajectories Using Information on the Taxiway Structure of Airports. Conference: International Conference on Research in Air Transportation 2024, Singapore, July 1-4. [https://www.researchgate.net/profile/Xavier-Olive/publication/382143178\\_Filtering\\_Aircraft\\_Surface\\_Trajectories\\_Using\\_Information\\_on\\_the\\_Taxiway\\_Structure\\_of\\_Airports/links/668efb8eb15ba559074f68db/Filtering-Aircraft-Surface-Trajectories-Using-Information-on-the-Taxiway-Structure-of-Airports.pdf?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19](https://www.researchgate.net/profile/Xavier-Olive/publication/382143178_Filtering_Aircraft_Surface_Trajectories_Using_Information_on_the_Taxiway_Structure_of_Airports/links/668efb8eb15ba559074f68db/Filtering-Aircraft-Surface-Trajectories-Using-Information-on-the-Taxiway-Structure-of-Airports.pdf?tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIn19)

And presented the project and preliminary results in the following ones:

5. EASN 2023, presented by AIT, [Home \(2023\) | easconference.eu](https://easconference.eu)
6. EUROSIM 2023, presented by ECTL, <https://www.eurosim2022.eu/program/>
7. ISEAS 2023, presented by ANOTEC [ISEAS'23 \(iseasci.org\)](https://iseasci.org)

Finally, the project activities and preliminary results have been also presented and discussed with the following working groups/committees:

1. EAEG Aircraft Noise Modelling Task Group (AIRMOD): in 2023 it has been presented the project plan and in 2024 the results of Task 2.2 and Task 2.3.
2. SAE A-21: in 2023 it has been presented the project plan.

## 4. REFERENCES

- [1] European Innovation Council and SMEs Executive Agency., *European IP Helpdesk: successful valorisation of knowledge and research results in Horizon Europe: boosting the impact of your project through effective communication, dissemination and exploitation*. LU: Publications Office, 2022. Accessed: July 2023. [Online]. Available: <https://data.europa.eu/doi/10.2826/437645>
- [2] European Commission, 'AGA - Annotated Model Grant Agreement (Pre-draft)'. Nov. 30, 2021. [Online]. Available: [https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/aga\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/aga_en.pdf)
- [3] 'Communicating your project — Acknowledgement of EU funding - Online Manual - Funding Tenders Opportunities'. <https://webgate.ec.europa.eu/funding-tenders-opportunities/pages/viewpage.action?pagelId=1867972> (accessed July 2023).
- [4] 'Dissemination & exploitation of project results - Online Manual - Funding Tenders Opportunities'. <https://webgate.ec.europa.eu/funding-tenders-opportunities/pages/viewpage.action?pagelId=1867974> (accessed July 2023).
- [5] 'Open Science', Feb. 10, 2023. [https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science\\_en](https://research-and-innovation.ec.europa.eu/strategy/strategy-2020-2024/our-digital-future/open-science_en) (accessed July 2023).