



## Air Carbon Recycling for Aviation Fuel Technology

# Update 1 of Dissemination, Communication and Awareness Plan

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### DELIVERABLE 5.5

Date	08/02/2023
Grant Number	101022633
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Status	Approved
Dissemination	Public
Keywords	Communication, Dissemination, Website Traffic

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101022633. This work is supported by Japan Science and Technology Agency (JST) (Grant Agreement No JPMJSC2102) and São Paulo Research Foundation (FAPESP) (Grant number 2022/04751-0).



## Document history

Version	Date	Name	Description
v0.1	2022-06-21	Vanesa Gil, FHa Eduardo Bernad, FHa Carla Ochoa, FHa	Consolidated draft for revision by ALL partners.
v0.2	2022-07-12	All partners	Second draft.
v0.3	2022-07-18	Vanesa Gil, FHa Eduardo Bernad, FHa	Final document approved by ALL partners and after Quality Assurance submitted to the EC.
v04	2023-02-08	Teresa Villuendas, FHa Vanesa Gil, FHa	Disclaimer modified Acknowledgement and page footer updated.

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## List of Acronyms

CDA	Communication, Dissemination and Awareness
CDAP	Communication, Dissemination and Awareness Plan
CINEA	European Climate, Infrastructure and Environment Executive Agency
DoA	Description of Action
EC	European Commission
EU	European Union
JST	Japan Science and Technology Agency
QR	Quick Response
WP	Work Package



## Executive Summary

4AirCRAFT “Air Carbon Recycling for Aviation Fuel Technology” aims at developing a game-changer technology for ground-breaking jet fuel sustainable synthesis by the efficient CO<sub>2</sub> conversion into liquid fuel. 4AirCRAFT will move beyond the state of the art by the combination of highly efficient electro-, bio- and chemo- catalysts and their controlled spatial distribution within application tuned catalyst carrier structures based on metal-organic frameworks and engineered inorganic scaffolds with hierarchical porosity distribution.

The present document, D5.5 Update 1 of Dissemination, Communication and Awareness Plan, is the first update of the communication, dissemination and awareness plan (CDAP) already submitted in M3. This updated document provides the guiding principles to support the aims of 4AirCRAFT and maximise the project’s impacts at a large audience, as well as describes the actions, activities and opportunities performed.

The CDAP is a document based on a strong cooperation of its partners which enables the impact at different sectors and levels. Moreover, a final report summarizing dissemination and communication activities and materials will be addressed by the end of the project.

This first update covers the activities from the first CDAP until June 2022, inclusive.



## 1. Introduction

The ultimate goal of 4AirCRAFT is to develop a next generation of active, stable, and selective catalysts for the direct CO<sub>2</sub> conversion into high density liquid fuels. This very innovative technology can become a breakthrough on the clean and efficient sustainable fuel production for aviation (and other sectors). That is the reason why the communication and dissemination strategies for the project's concept and expected results needed to be defined from the early stages [M3] through the public deliverable D5.2 Communication, Dissemination and Awareness Plan and to be updated during the project's life.

The aim of this deliverable is to update the first Communication, Dissemination and Awareness strategy and set up further steps to be taken in the coming months as well as outline the progress made by the partners in terms of communication, dissemination and awareness between M3 and M15.

This is done with the aim of having adequate impact with the 4AirCRAFT research, ensuring effective communication and dissemination of project activities and results, in an understandable language for non-technical people.

This deliverable is part of Task 5.1 Communication, dissemination and awareness activities, aligned to Grant Agreement and Consortium Agreement nº 101022633. It entails the first update of the communication strategy carried out during the life of the project.

Work Package (WP) 5 is responsible for the dissemination of 4AirCRAFT results and communication of goals and research activities. Aragon Hydrogen Foundation is leading and monitoring this task at consortium level working in close collaboration with the rest of partners.

CDAP is aligned with major milestones and in strong interaction will all the WPs in accordance with the activities outlined in the Description of Action (DoA).

The present document describes the main actions foreseen to ensure an adequate communication, dissemination and awareness activities to developed until M15, and the tentative one for the following months.

## 2. External Communication, Dissemination and Awareness Plan

External CDA actions were established with the aim of circulating and spreading the project's objectives, task activities and project results to a wide audience by promoting the adoption of project's results and demonstrating its impact.

CDAP facilitates the exchange of information and interaction not only with other related projects and initiatives but also with activities in industry, research and society as a whole.

A wide and effective dissemination of results was planned as one of the strong cornerstones of the project and all partners were committed to contribute. To multiply the repercussions and broaden the community reached by this effort, 4AirCRAFT established communication links with energy, transport and (petro-) chemical sector related entities including sustainable fuels producers, end-users, large consumer of long-chain hydrocarbons, CO<sub>2</sub> large producers and components and manufacturers.

### 2.1 Strategy and Methodology

A careful design of the action plan for communication and dissemination of the results in a project like 4AirCRAFT is vital for reaching success in making impact. For this reason, the Communication and dissemination strategy document will be updated as the project progress:

- D5.2 Communication, Dissemination and Awareness Plan [M3].
- D5.5 Update 1 of dissemination, communication and awareness plan [M15].
- D5.6 Update 2 of dissemination, communication and awareness plan [M27].
- D5.7 Final report on dissemination and exploitation [M37].

During the first fifteen month of 4AirCRAFT timeline in WP5, a set of tools, methodologies and communication flows addressing the external audience have been thoroughly selected and tailored to the context.

The updated of the exploitation of the results will not be described in this deliverable as its update is also prepared in the Month 15 (D5.4 Update of plan for exploitation strategy).

### 2.2 4AirCRAFT Key Messages

4AirCRAFT communication and dissemination actions were directed by a common axis drawn according to the general aim of the project, expressed in the DoA as follows:

- The ultimate goal of 4AirCRAFT (Air Carbon Recycling for Aviation Fuel Technology) is to develop a next generation of active, stable, and selective catalysts for the direct CO<sub>2</sub> conversion into high density liquid fuels enabling the sustainable synthesis of aviation fuel. Key to the process will be the combination of highly efficient electro-, chemo- and bio- catalysts, which are selectively embedded within novel catalyst carriers, based on engineered hybrid scaffolds in a single cascade reactor, where the introduced CO<sub>2</sub> is converted to high-density hydrocarbons.
- The 4AirCRAFT game-changer concept relies on driving the conversion of CO<sub>2</sub> and H<sub>2</sub> into aviation fuels under much milder and greener conditions relative to conventional processes. Therefore, focusing on the cost optimisation potential methodologies and



the good social perception and reputation of embracing sustainable productive methods.

- 4AirCRAFT means design of advanced catalyst for one-step fuel synthesis reactor, with new providers coming into scene. Their awareness on the project impacts and potential is important for them to appropriately shift resources to a potential huge market demand related to renewable synthetic liquid fuels. New technologies bring new perspectives, either to fulfil existing needs from other sectors or to imagine new products and applications. This particularly fertile framework is favourable to cross-sectorial innovation.

## 2.3 Target groups

All communication and dissemination activities carried out so far have been primarily designed to firstly impact agents at EU, Japan and international level, secondly on a national level of all countries directly involved and thirdly at local and regional environments of all project partners.

All communication activities planned and carried out have been organised according to the main target groups already identified in D5.2 Communication, dissemination and awareness plan (Scientific Community; Potential end-users and adopters; General Public/citizens; Related projects and initiatives; Authorities, Policy Makers and Public bodies; Other stakeholders).

## 2.4 Communication and Dissemination Material

### 2.4.1 Press kit

A press kit in M12 were developed with the aim of provide information of the project in a non-technical language. It also was uploaded to the website, in the publication section, where it is available for download (<https://4aircraft-project.eu/publications/>). This document will help partners drafting their press releases and journalist in their job of writing about 4AirCRAFT. It will include a non-technical summary of the project (easy for journalists to understand), objectives, ambitions, structure and partners.

### 2.4.2 Flyer

A digital flyer (see Figure 1), following the project corporative image, has been developed in order to easily disseminate the project in different events where the partners of the project are taking part. This factsheet has also been uploaded to the website and available for download in the publication section (<https://4aircraft-project.eu/publications/>).

Yearly updates of this material will be released with progress of the project and aiming to provide information about first available results such as facts & figures (easily 'tweetable' facts) and the main impacts on society and the environment.



Figure 1. 4AirCRAFT leaflets

### 2.4.3 Presentation

An official general presentation of 4AirCRAFT describing project overview, goals, concept, strategies, motivation and activities was prepared. This presentation was distributed with all the partners for their individual dissemination activities throughout the project lifetime.

### 2.4.4 QR code

A QR code (Figure 2) linking directly to the home page of the website has been developed so that it can be placed on materials prepared by the partners for outreach activities (such as posters, presentations). In this way, anyone who wants to learn more about the project can scan this code with a mobile phone and access directly to the website.

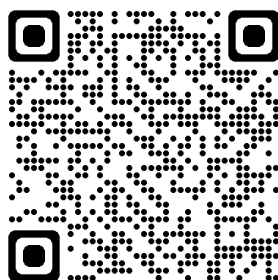


Figure 2. 4AirCRAFT website's QR code

### 2.4.5 Other materials

Some technical posters were prepared in the framework of the project used for partners to disseminate their research in some events (such as conferences, congress, forums, fairs) described in section 2.5.5. They are also available on the website, in the publication section.

Other materials to be provided during the project duration are the public deliverables listed in Table 1. Publication will occur via the website.

**Table 1. Deliverable list.**

Deliverable	Title	Due date (month)	Status
D5.1	Logo, visual identity, guidelines and document templates	3	Approved by EC / Uploaded to the website
D5.2	Communication, Dissemination and Awareness Plan	3	Approved by EC / Uploaded to the website
D5.3	Project's website	6	Pending for approval by EC*
D6.2	Data Management Plan	6	Pending for approval by EC*
D5.5	Update 1 of dissemination, communication and awareness plan	15	Current deliverable
D6.3	Midterm publishable summary report	19	----
D4.1	Toolbox of 4AirCRAFT cascade reactor testing, operation windows and limitations	27	----
D5.6	Update 2 of dissemination, communication and awareness plan	27	----
D4.4	Environmental and Economic Assessment from a Life Cycle perspective of the 4AirCRAFT project	36	---
D6.4	Final publishable summary report	36	---

\* Pending for approval by EC: The public deliverable will be uploaded to the website once the document is approved by the European Commission.

## 2.5 Communication and Dissemination tools and channels

Communication activities in 4AirCRAFT are linked to a wide spectrum of communication channels to reach all the target audiences detailed previously. They will support the dissemination of results and activities for creating awareness.

The website is the main source of dissemination of the project. The public deliverable D5.2 summarizes the main ideas about the website. It presents the main concepts and objectives on which our research is based. The news section is continuously updated with the events in which our partners participate. The publications section, on the other hand, collects the public deliverables created in the framework of the project as well as the posters presented at the congresses that gather the main results. Currently, after one year of the project, still no publication of the results in a scientific journal has been written.

No social network was created in the framework of this project to disseminate the main results. Therefore, the website symbolises the heart of dissemination and communication activities. For this reason, each partner as well as their institution should disseminate their main achievements carry out in the framework of the project using their social networks (Twitter, LinkedIn, ResearchGate).

### 2.5.1 Conference/Forums/Fairs/

This section summarizes the conferences, forums, symposiums and other events attended by 4AirCRAFT partners during the first 14 months of the project. The project objectives, outcomes and expected impact along some of the first results of the ongoing research activities were presented to targeted audience aligned to section 2.3.

**Table 2. List of events participated in May 2021 – June 2022.**

Event&Organiser	Title (Type)	Date	Location	Partner	Key message	Attendants& Targeted group
Joint Japan-EU webinar by EURAXESS Japan Winning Projects: Horizon2020-SICORP Biofuels & Alternative Fuels Call	4AirCRAFT: Air Carbon Recycling for Aviation Fuel Technology (Oral)	04/09/2021	Digital	Aragon Hydrogen Foundation	Showcase 4AirCRAFT project that have secured support from both the Horizon 2020 Framework Program and JST.	General Public, Research Community, Policy Makers and Institutions, other stakeholders
Clustering Workshop by CINEA H2020 Carbon Capture, Utilization and Storage (CCUS) & Alternative Fuels Projects	4AirCRAFT (Oral)	23/09/2021 - 24/09/2021	Digital	Aragon Hydrogen Foundation (FHA, Spain) Consejo Superior de Investigaciones Cientificas (CSIC, Spain) Bielefeld University (Germany)	Awareness and communication of project objectives, expected outcomes and impact	27 projects participated / Research community, Policy makers, other Stakeholders
European Researchers' Night 2021	Catalyst for Air Carbon Recycling in Aviation Fuel Technology (Poster)	24/09/2021 - 25/09/2021	Turin (Italy)	University of Turin (Italy)	Awareness and communication of Sustainable Aviation Fuels	> 50 / Citizens, Students, Research Community
European Research Days – European Researchers in Japan organised by EURAXESS Japan	Sustainable Development Goals, Strategic and Synergic Collaboration Europe - Japan (Oral)	07/12/2021 - 09/12/2021	Digital	Hokkaido University (Japan)	Awareness of 4AirCRAFT as European cooperation with Japan	General Public, Research Community
Winter School "Future directions in research on Power-to-X for sustainable	4AirCRAFT: Air Carbon Recycling for Aviation Fuel Technolog (Invited talk)	10/02/2022	Digital	Aragon Hydrogen Foundation (FHA)	4AirCRAFT objectives and key research activities, preliminary results.	> 75 attendants / Scientific Community, End-users and other interested

chemicals & fuels" organised by KEROGREEN project					Project synergies	Stakeholders, Related projects
Renmad Hydrogen 2022 Organised by ATA Insights	4AirCRAFT: Air Carbon Recycling for Aviation Fuel Technology (Digital)	23/02/2022 - 25/02/2022	Zaragoza (Spain)	Aragon Hydrogen Foundation (FHA)	4AirCRAFT challenges, ambition, outcomes and impact	> 300 attendants / End-users and Adopters, Policy makers and Institutions
Catalysis at the Energy – Chemistry Nexus – 2022 Winter School: "A roadmap for catalysis to support a society powered by renewable energies"	From CO <sub>2</sub> capture and storage to its conversion in sustainable fuels (Poster)	14/03/2022 - 18/03/2022	Aussois (France)	University of Turin (Italy)	4AirCRAFT activities on CO <sub>2</sub> conversion to jet fuels	> 50 participants / Scientific Community, Related projects and initiatives
UniTO Open Days at the Chemistry Department	Dalla cattura e stoccaggio di CO <sub>2</sub> alla sua conversione in combustibili sostenibili (Poster)	13 – 14/05/2022	Turin (Italy)	University of Turin (Italy)	4AirCRAFT activities on CO <sub>2</sub> conversion to jet fuels	Students, Research Community, General public
European Hydrogen Energy Conference 2022 organised by Spanish Hydrogen Association	Hybrid catalyst for the direct CO <sub>2</sub> and H <sub>2</sub> conversion into jet fuels (Oral contribution)	18/05/2022 - 20/05/2022	Madrid (Spain)	Aragon Hydrogen Foundation (FHA)	4AirCRAFT objectives and first results on some of the key activities: catalyst carriers	> 1000 attendees / Scientific & Technological Community, End-users and Adopters, Institutions, Policy Makers, Related projects, other stakeholders
Power-to-X Symposium 2022: <i>Uniting industry and academia on new solutions for carbon-neutrality</i> Co-sponsored by European Energy Research Alliance	Synthesis of nanocatalyst for the co hydrogenation to fuels (Poster)	01/06/2022 - 03/06/2022	Aarhus (Denmark)	University of Helsinki (Finland)	Hydrogenation processes optimization by catalyst development	> 100 attendees / Research community, Stakeholders, Related projects
15 <sup>th</sup> International Ceramic	Catalyst supports produced by	20/06/2022 - 24/06/2022	Perugia (Italy)	Consejo Superior de Investigacio	Fine tuned design and manufacturi	> 1000 attendees / Scientific

Congress organised by CIMTEC 2022 – International Conference on Modern Materials and Technologies –	combined freeze-casting technique (Invited talk)			nes Cientificas (CSIC)	ng of catalyst carriers - hierarchical porous structures for catalytic process optimization	Community, Other Stakeholders
23 <sup>rd</sup> World Hydrogen Energy Conference	Air Carbon Recycling for Aviation Fuel Technology (Oral contribution)	26/06/2022 - 30/06/2022	Istanbul (Turkey) – Hybrid event, online participation	Aragon Hydrogen Foundation (FHA)	4AirCRAFT objectives and first results on biocatalysts, inorganic nanocatalysts and catalyst carriers	> 1000 attendees / Research Community, Related Projects, End-users and Adopters, Other Stakeholders

The 4AirCRAFT consortium has evaluated tentative events where the 4AirCRAFT results might be disseminated in the future. The tentative list will evolve during the project lifetime and will be updated in following versions of this plan.

The tentative events are:

- 8<sup>th</sup> International Conference on Metal-Organic Framework and Open Framework Compounds
- Summer School and Workshop in Calorimetry and Thermal Analysis 2022
- CO<sub>2</sub>-based Fuels and Chemicals 2023
- Organic Chemistry Conference - ORCHEM 2022 - organised by the German Chemical Society (GDCh)
- 27<sup>th</sup> International Symposium on Chemical Reaction Engineering (ISCRE 27)
- 15<sup>th</sup> European Congress on Catalysis (EuropaCat)
- World Hydrogen Technology Convention 2023
- Other: North American Catalysis Society Meeting, Faraday Discussion meetings, Electrochemical Society Meetings (ECS, USA), Gordon Conferences

### 2.5.2 Workshops

4AirCRAFT events to date are the project kick-off (May 2021) and info-day for external advisors (June 2021).

Two dedicated workshops, which might be organized in parallel to other on-going relevant projects, are planned during 2023 and 2024. The 4AirCRAFT workshops will promote the project results and facilitate knowledge exchange while end-users and stakeholders will gain access to the project outcomes.

#### 2023 Workshop (Tentative date – Spring 2023):

Target: Scientific community, End-users and Adopters

Focus: Rational design and manufacturing of catalysts, sustainable synthesis of high-density hydrocarbons, synthetic fuels, etc.

Goal: Knowledge exchange, Exploitation of results.

#### 2024 Workshop (Tentative date – Spring 2024):





Target: Scientific community, End-users and Adopters, Policy Makers and Institutions, other Stakeholders.

Focus: Synthetic Fuels, Catalyst, CO<sub>2</sub> conversion, etc.

Goal: Dissemination of final achievements of the project and focus on the continuation of 4AirCRAFT. Exploitation of results.

4AirCRAFT will evaluate the possibility of co-organising other workshops/symposiums in cooperation with other related projects in international cooperation with Japan (e.g. Laurelin and Oracle) or in cooperation with CCUS & Alternative Cluster.

Additionally, 4AirCRAFT project partners might co-operate in the organisation of other workshops and schools therefore, the opportunity for the 4airCRAFT outcomes and findings to be disseminated will be evaluated.

### 3. Internal Communication

#### 3.1 4AirCRAFT SharePoint

A SharePoint for the project was set up between all partners in Microsoft Teams. The current folder structure (Figure 3) is provided:

- General
- Communication-Dissemination
- Exploitation Results
- General Assembly
- Management-Meetings
- WP1-inorganic catalysts
- WP2-biocatalysts
- WP3-catalyst carrier
- WP4-reactor

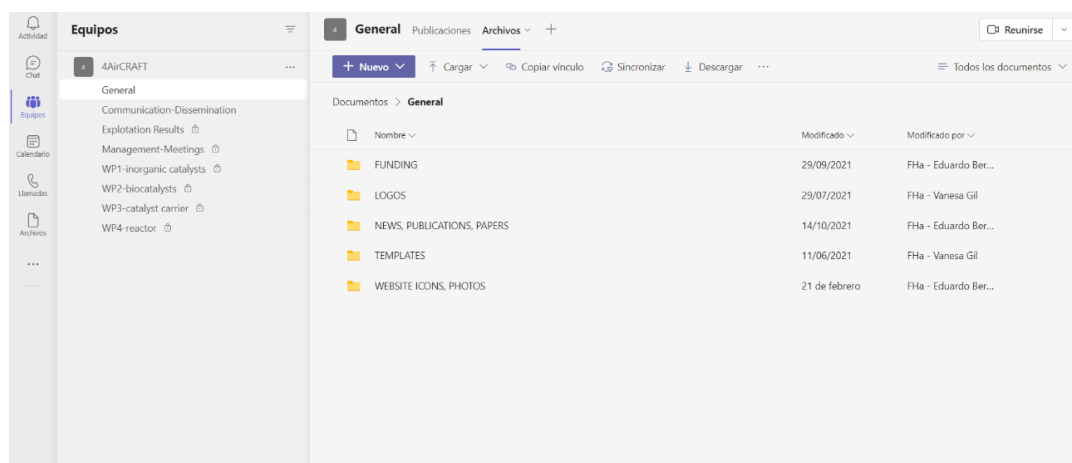


Figure 3. 4AirCRAFT SharePoint.

For the correct management and development of this SharePoint a series of rules were defined in the Communication, Dissemination and Awareness Plan (Deliverable D5.2).

#### 3.2 Methodology, rules and recommendations

The basic tools used during the project to accomplish the internal communication among the partner are:

- Regular email
- 4AirCRAFT SharePoint
- Periodic Meetings (every 3 months)

The basic guidelines that should be followed are described in Deliverable D5.2.



### **3.3 Dissemination outcomes management**

A table has been shared with the partners through SharePoint, to collect, report and control all the communication and dissemination activities carried out by the project partners. The results and dissemination activities produced during the project are collected by FHa as dissemination Manager.

## 4. Summary of the activities carried out (May 2021 - June 2022)

### 4.1 Project synergies

During this first year, some bilateral meetings with other related projects has been arranged.

A good interaction with LAURELIN (<https://laurelin.eu/>) and ORACLE (<https://oracle-jp.eu/>) is in place as those are 4AirCRAFT sister projects. Project synergies for further closer interactions are regularly discussed. LAURELIN, ORACLE AND 4AirCRAFT are the three projects constituting the H2020 Energy call on “Building a low-carbon, climate resilient future: secure, clean and efficient energy” (H2020-LC-SC3-2020-NZE-RES-CC).

Bilateral meetings with other related projects were carried out during the first 15 months of the project e.g. TAKE OFF and KEROGREEN.

### 4.2 General Media Impact

#### 4.2.1. Website

Several news and press releases have been published so far. The project website (<https://4aircraft-project.eu/>), see Figure 4, aimed to become the heart for the diffusion and dissemination of all the information related to the project. The website was designed during the first months of the project and launched at the end of 2021 together with the public deliverable (D5.3 Website) that was prepared with the aim of explaining its design and content.

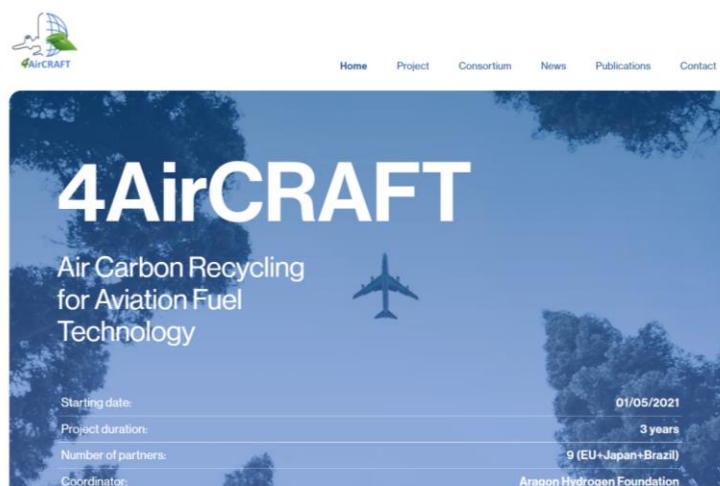
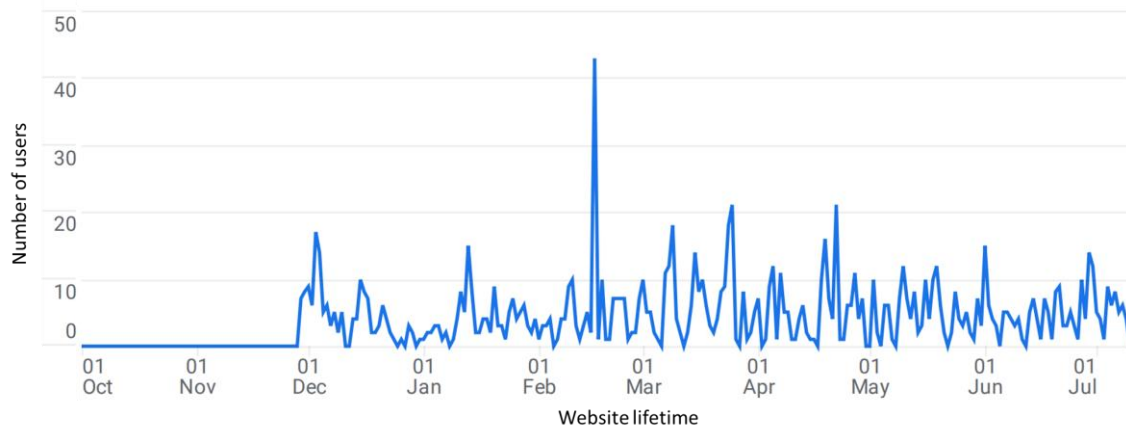


Figure 4. 4AirCRAFT’s website homepage

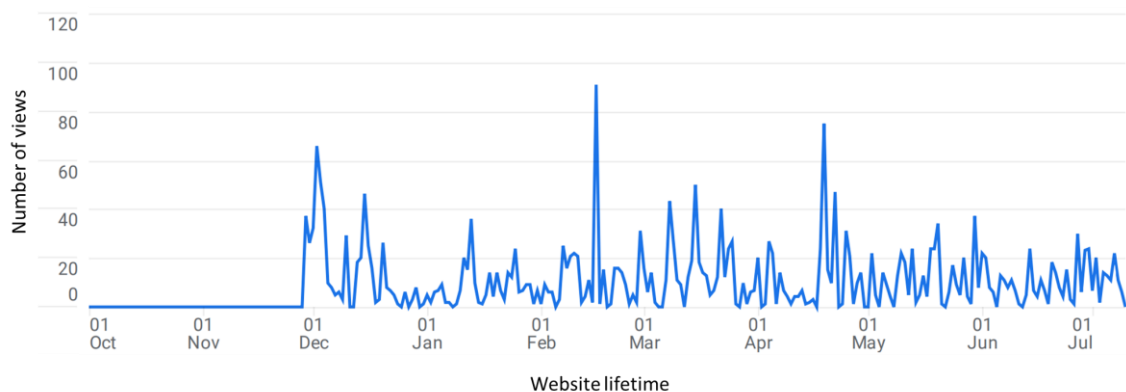
To study the impact of the news and the publications uploaded on the website a web traffic analysis was carried out using Google Analytics.

Firstly, a study was carried out on the number of users. According to Google Analytics, a user is a unique visitor. When browsing the website for the first time, they are assigned an ID for tracking purposes. Since the website launching (Autumn 2021), a total of **747 users** have been identified, and their distribution over time can be seen in Figure 5.



**Figure 5. 4AirCRAFT’s website: evolution of users**

Secondly, we conducted a study on page visits. This term refers to the number of times the website has been visited. If someone visits several sections of the website, all of them will be counted as visits. This means that if you have visited the news section and the contacts section in total, Google Analytics will register 2 visits. Figure 6 shows the result of the total number of visits since the start of the website.



**Figure 6. 4AirCRAFT’s website: evolution of views**

Both graphs show that the days with the highest recorded web traffic were 16 February (91 visits), 19 April (75 visits), and 2 December (66 visits).

Thirdly, the percentage distribution of visits within the website can be seen in Figure 7.

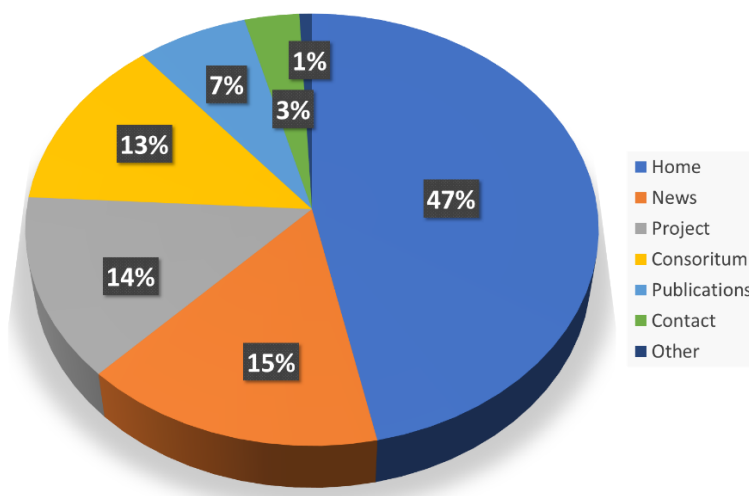


Figure 7. 4AirCRAFT’s website: percentage distribution of section

The most visited section of the website is the home page, with the 47% of all visits. One of the main reasons for this could be that this is the main page of the project, and its URL address is the one that is usually published at dissemination events. The second most visited section of the website is the news section, with the 15%. This means that the visitor, once surfing on the website, chooses to visit the news section to keep up to date with the latest news about the project.

Regarding the geographical data, most of the traffic to the website comes from Spain (23%) and Japan (20%).

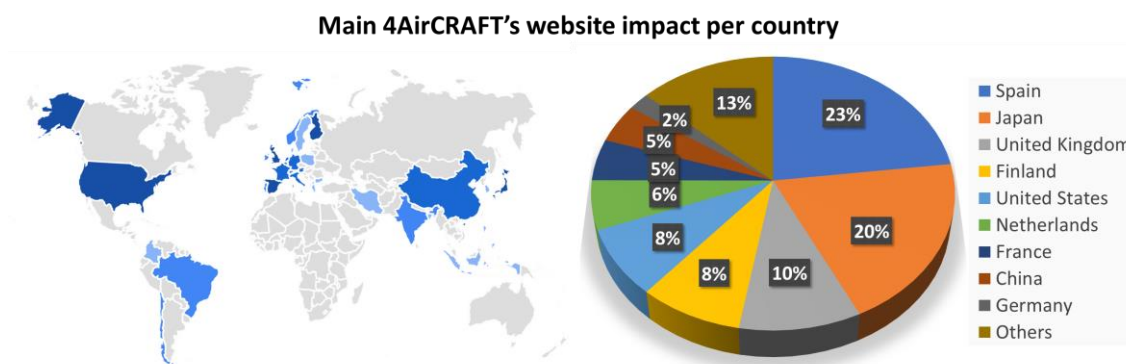


Figure 8. 4AirCRAFT’s website: geographical information

There are still some areas of improvement regarding the website in order to keep a high number of returning visitors to the website. Two main actions must be implemented:

- Increase the number of references to the project website at outreach events. A QR code (see section 2.4.4) has been provide for this purpose.
- Social media post are linked to the 4AirCRAFT website.

#### 4.2.2. Media impact results and indicators

Below are summarized some of the most relevant actions regarding media impact.

- **WEB**
  1. <https://hidrogenoaragon.org/eng/hydrogen-foundation-in-aragon-at-ehc-2022/>
  2. <https://www.helsinki.fi/fi/uutiset/matematiikka-ja-luonnontieteet/hiilipaastoista-polttoainetta-lentokoneisiin-kemisteilla-idea-kuinka-tama-voisi-olla-mahdollista-ja-jarkevaa>
  3. <https://ravensr.com/raven-sr-joins-advisory-board-of-4aircraft-an-international-program-advancing-synthetic-aviation-fuel-research/>
  
- **YOUTUBE**
  1. [https://www.youtube.com/watch?v=P7Z\\_aZE7o](https://www.youtube.com/watch?v=P7Z_aZE7o)
  
- **SOCIAL NETWORKS**
  1. <https://www.linkedin.com/company/laurelin-eu/posts/?feedView=all>
  2. [https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a\\_analysis-of-the-status-of-research-and-innovation-activity-6938508262942105600-mtwv?utm\\_source=linkedin\\_share&utm\\_medium=member\\_desktop\\_web](https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a_analysis-of-the-status-of-research-and-innovation-activity-6938508262942105600-mtwv?utm_source=linkedin_share&utm_medium=member_desktop_web)
  3. [https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a\\_home-4aircraft-activity-6932581786640109568-MWm?utm\\_source=linkedin\\_share&utm\\_medium=member\\_desktop\\_web](https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a_home-4aircraft-activity-6932581786640109568-MWm?utm_source=linkedin_share&utm_medium=member_desktop_web)
  4. [https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a\\_4aircraft-activity-6917042737535934465-JN2Y?utm\\_source=linkedin\\_share&utm\\_medium=member\\_desktop\\_web](https://www.linkedin.com/posts/vanesa-gil-hernandez-7241462a_4aircraft-activity-6917042737535934465-JN2Y?utm_source=linkedin_share&utm_medium=member_desktop_web)
  5. [https://www.linkedin.com/posts/fundacion-hidrogeno-aragon\\_4aircraft-aviaciaejn-sostenible-activity-6913151508360347648-LdF?utm\\_source=linkedin\\_share&utm\\_medium=member\\_desktop\\_web](https://www.linkedin.com/posts/fundacion-hidrogeno-aragon_4aircraft-aviaciaejn-sostenible-activity-6913151508360347648-LdF?utm_source=linkedin_share&utm_medium=member_desktop_web)
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25. <https://mobile.twitter.com/HidrogenoAragon/status/1542114807817687041>
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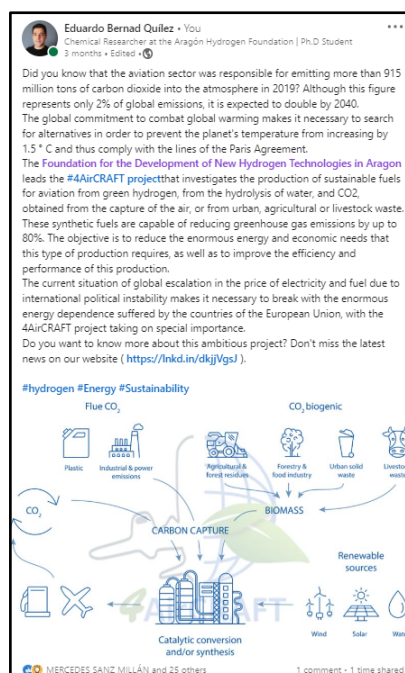




Figure 9. Screenshots of social networks posts

- **NEWSLETTER**
  1. Aragon Hydrogen Foundation. April/March 2022 Newsletter
  2. Aragon Hydrogen Foundation. June 2022 Newsletter
  
- **PUBLICATIONS**
  1. Marzi, E.; Morini, M.; Gambarotta, A. Analysis of the Status of Research and Innovation Actions on Electrofuels under Horizon 2020. *Energies* 2022, 15, 618. <https://doi.org/10.3390/en15020618>

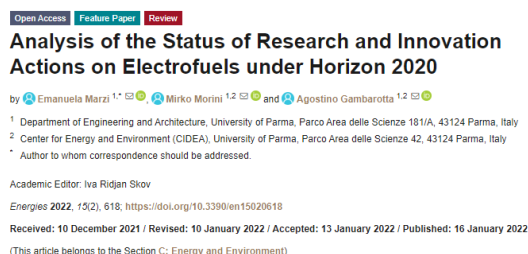


Figure 10. Publication quoting 4AirCRAFT project

4AirCRAFT partners participate in the dissemination of their activities through the publications of news or post on their institution's website and institutional or own social networks (LinkedIn, Twitter, ResearchGate, etc.) as a way to maximize the visibility of the project.

Figure 11 is provided as an example of a post by the project coordinator in Twitter and LinkedIn. After the post 1,440 times the Tweet was seen and more than 2,100 times the LinkedIn post was displayed on screen.

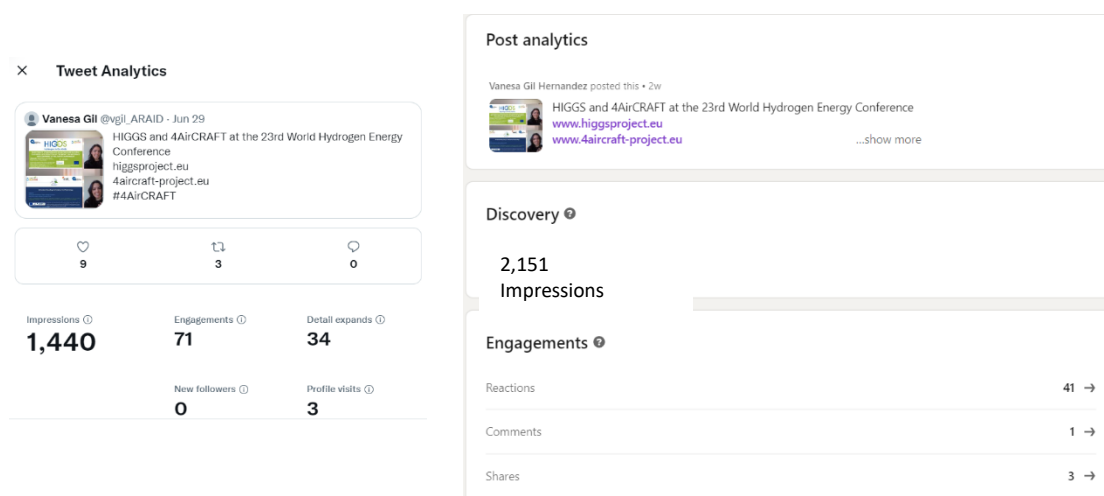


Figure 11. Post by project coordinator

Additionally, 4AirCRAFT is member of the CINEA-CCUS & Alternative Fuels H2020 projects – Cluster 5 LinkedIn group managed by CO2 Value Europe (see Figure 12).



Figure 12. CINEA-CCUS & Alternative Fuels H2020 projects-Cluster 5

## 5. Contractual obligations and requirements

All the communication (website, flyers, etc.) and dissemination activities (articles, presentations, etc.) that will be generated with the 4AirCRAFT funds and results will show the same acknowledgement sentence displaying the EU emblem and JST logo:



Figure 13. EU emblem and JST logo

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101022633. This work is supported by Japan Science and Technology Agency (JST) under Grant Agreement No JPMJSC2102. This project is developed in the frame of a Mission Innovation Challenge.

## 6. Conclusions

The present document is the first update of the Dissemination, Communication and Awareness Plan of 4AirCRAFT project.

Furthermore, it also includes the main dissemination activities carried out to date; a study of the traffic registered on the website, understanding this as the main means of dissemination of the project; as well as the impact of the main publications that talk about the project (websites, social networks, YouTube, publications).

An update of the Dissemination, Communication and Awareness Plan will be developed within one year.

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## Acknowledgements

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement No 101022633. This project is supported by Japan Science and Technology Agency (JST) (Grant Agreement No JPMJSC2102) and São Paulo Research Foundation (FAPESP) (Grant Agreement No 2022/04751-0).

