D2.2 – Update Dissemination and Communication Plan and activities report (M18)

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Abstract

The present deliverable is an extension to D2.1 by providing a detailed update of all the Dissemination and Communication (D&C) activities conducted in the first eighteen months (M01-M18) of the project. These activities aim to promote the project in general and bring to the spotlight the most significant achievements reached so far. Finally, D2.2 provides an evaluation of the above-mentioned D&C activities through the website and social media analytics along with a summary of all the scientific and non-scientific endeavours of the consortium as they are reflected through the approval process

Keywords

Dissemination, Communication, Activities, Monitoring, Approval process

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Information Table

Contract Number	**101138184**
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V.1.0	09/05/2025	Draft	George Anagnostopoulos	First deliverable draft
V.1.1	28/05/2025	Final	Belén García	Final deliverable

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Table of Acronyms and Abbreviations

Acronym/Abbreviation	Description / Meaning
D&C	Dissemination and Communication
PDCR	Plan of Dissemination and Communication of project Results
TAB	Technical Advisory Board
TRL	Technology Readiness Level
VAD	Vienna Aviation Days

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1. INTRODUCTION

The **exFan** project—short for "***Novel Recuperation System to Maximize Exergy from Anergy for Fuel Cell Powered Geared Electric Aircraft Propulsion System***"—focuses on developing a new heat dissipation and energy recovery system. This system will be part of a geared fan propulsion setup designed for Mega-Watt class aircraft powered by fuel cells. The main aim is to bring the Heat Propulsor technology to Technology Readiness Level (TRL) 3.

Within the period of M01-M18, **exFan** tried to promote its results and goals via various of channels with the aim to share results in ways that are easy to access and understand. Sharing results also helps speed up progress in science and technology, opening new paths for future work. In the sections to follow, the Dissemination and Communication (D&C) activities, taken place in the period M01-M18, are presented.

The document is organized into the following six (6) chapters:

- **Chapter 1**: Introduces to readers the scope of the document and provides an overview of the subsequent chapters.
- **Chapter 2**: Outlines the dissemination and communication activities that took place within the period M01-M18 covering from conferences participations and project meetings to clustering activities. Also, non-scientific publications, newsletters, press releases, project events and videos are presented.
- **Chapter 3**: Presents the impact of the D&C activities done via the corresponding project channels (website and social media).
- **Chapter 4**: Focuses on identifying measures and indicators to evaluate the efficacy of the strategy.
- **Chapter 5**: Briefly describes the consortium's agreed-upon dissemination approval process.
- **Chapter 6**: Provides a summary of the deliverable.

Finally, **Appendix A** includes the current planned and foreseen communication and dissemination activities of the **exFan** team.

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2. Summary of the Performed Dissemination and Communication Activities

2.1 Dissemination and Communication Overview

The **exFan** project's Dissemination and Communication (D&C) strategy focuses on applying clear and practical management practices to ensure the project's visibility and outreach. It starts with setting specific goals, identifying relevant audiences, and shaping the right messages for each group. The strategy includes choosing the most appropriate tools for communication, such as the project's visual identity, website, social media accounts, newsletters, press releases, scientific publications, and participation in conferences and workshops.

To track ongoing and planned D&C activities, the EASN-TIS D&C manager shares a structured template—the Plan of Dissemination and Communication of project Results (PDCR)—with all project partners every six months (more details are available in Deliverable D2.1). This process helps collect input from all partners and provides an updated overview of the D&C efforts.

The following two sections present a summary of the dissemination and communication activities carried out by the partners from the beginning of the project up to Month 18 (M18), based on the information submitted through the PDCR template.

2.2 Performed Dissemination Activities

2.2.1 Conferences

Participating in conferences allows **exFan** partners to present their work, exchange knowledge, and connect with other experts in the field. These events provide opportunities to showcase the project's progress, raise awareness, and gather feedback from the research and industrial communities. The table below lists the conferences attended by **exFan** partners from Month 01 (M01) up to Month 18 (M18), including details such as the event name, date, location, type of participation (e.g. oral presentation, poster), and the main topic presented.

Table 1. exFan Conference participations

No	Activity	Entity
1	TU Wien Science Days 2024, Vienna, Austria (21/2/2024) /poster	TUW
2	ADDIT3D conference part of BIEMH 2024, Bilbao, Spain (3-6/06/2024) /poster	CIDETEC
3	ILA Berlin 2024, Berlin, Germany (5-9/06/2024) /oral	ADT
4	VAD 2024_ (an exFan event) Vienna, Austria (8-9/07/2024) /oral	TUW, ADT

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5	Farnborough International Exhibition & Conference 2024, Farnborough, UK (22-26/07/2024)/poster	TUW
6	DLRK 2024 conference Hamburg, Germany (30/09-2/10/2024) /oral	ADT
7	DLRK 2024 conference Hamburg, Germany (30/09-2/10/2024)/poster	DLR
8	DLRK 2024 conference Hamburg, Germany (30/09-2/10/2024) /oral	TUW
9	14th EASN International Conference Thessaloniki, Greece (08-11/10/2024) /oral	TUW
10	14th EASN International Conference Thessaloniki, Greece (08-11/10/2024) /oral	TUW
11	AIAA SciTech 2025 –ClimAvTechSession Orlando, Florida, USA (06-10/01/2025)/oral	TUW

2.2.2 Meetings

Project meetings are essential for coordination, progress monitoring, and partner collaboration. The list below includes key internal and external meetings held up to Month 18 (M18), with basic details such as date, partners' participation, and main purpose.

Table 2. exFan Meetings participations

No	Activity	Entity	Description
1	exFan KoM, Vienna, Austria (12-13/12/2023)	All exFan partners	Brief presentation of the project partners, including the presentation of the company and the exFan team, as well as the corresponding role in the project and the related background. WPs analytical description.
2	Technical Advisory Board (TAB) Meeting, (11/04/2024)	CIDETEC, ADT, TUW	A meeting of the Technical Advisory Board made up of major aviation stakeholders of the research project exFan was organized to facilitate the exchange of information, the definition of the stakeholders' needs and expectations and to foster synergy between the research project and the industry stakeholders. The meeting was structured as a workshop, in which both industry stakeholders and exFan representatives documented and discussed their expectations for future fuel cell electric aircraft, propulsion

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			systems and heat exchangers. Additionally, possible integration and operation scenarios for the exFan were documented.
3	GA meeting (M06), San Sebastian, Spain (05-06/06/2024)	All exFan partners	Project progress discussion
4	GA meeting (M12), Hamburg, Germany (12-13/12/2024)	All exFan partners	Project progress discussion
5	GA meeting (M18), Athens, Greece (14-15/05/2025)	All exFan partners	Project progress discussion

2.2.3 Clustering activities

Clustering activities help **exFan** connect with other projects working on similar topics. These interactions promote knowledge exchange, collaboration opportunities, and broader visibility. The list below highlights the main clustering actions carried out up to Month 18 (M18), including joint events, shared platforms, and collaborative discussions.

Table 3. exFan Clustering activities

No	Activity	Entity	Description
1	ILA Berlin 2024	CID, TUW	ClimaAvTech cluster is used for collaboration between EU research projects in the field of hydrogen aviation.
2	VAD 2024 (an exFan event)	ADT, TUW, EASN-TIS	A 2-day event organized by the exFan under the theme "Hydrogen/Hybrid Electric Propulsion Systems as Key to Climate Neutral Emissions," leading experts from the aviation industry, academia, research institutions, and representatives from project sponsors, ministries, sister projects and the EU Commission gathered to exchange the latest scientific findings and advancements in hydrogen technologies for aviation
3	AERODAYS 2025	ADT	A dedicated session held, where seven Horizon Europe projects came together to share insights on advanced propulsion concepts for the future of aviation. After a shared introduction, each project showcased its unique contribution.
3	Regular cluster meetings / other clustering activities	ADT	exFan is member of the ClimaAvTech cluster (ClimAvTech Cluster — HESTIA) and H2 cluster. The goal of the cluster activities is to further advance the knowledge exchange and to make use of synergies in between the projects.

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2.3 Performed Dissemination Activities

2.3.1 Non-scientific articled dedicated to exFan project

Non-scientific articles play an important role in making the **exFan** project accessible to a wider audience beyond the research community. These articles are published on websites, newsletters, press releases and other platforms to explain the project's goals, progress, and relevance in a simple and engaging way. The table below includes the main non-scientific articles published up to Month 18 (M18), with information on the publishing partner, outlet, and link when available.

Table 4. exFan Non-Scientific publications

No	Activity	Entity	Description
1	Publication in AM Platform website (projects list)	CID	Visibility of the project in a specialised platform (AM-platform.eu - Home)
2	Publication in CIDETEC´s website	CID	Visibility of the project in a specialised platform (Projects | surface engineering cidetec)
3	An article at INTEREMPRESAS	CID	Visibility of the project in a specialised platform (Nuevo sistema de disipación y recuperación de calor para aviones eléctricos más eficientes - Metalmecánica)
4	An article at Additive manufacturing media	FZG	Visibility of the project in a specialized platform (Researchers Use Additive Manufacturing to Make Aircraft Propulsion Systems More Eco-Friendly | Additive Manufacturing)
5	An article at European Federation of Corrosion	CID	Visibility of the project in a specialized platform (EFC+NEWSLETTER+August+2024.pdf)
6	EASN Newsletter January 2024	EASN-TIS	Visibility of the project in a specialized platform (Novel recuperation system to maximize exergy from anergy for fuel cell powered geared electric aircraft propulsion system | EASN Newsletter)
7	EASN Newsletter May 2024	EASN-TIS	Visibility of the project in a specialized platform (Novel recuperation system to maximize exergy from anergy for fuel cell powered geared electric aircraft propulsion system | EASN Newsletter)
8	exFan website_VAD 2024 press release	EASN-TIS	Visibility of the project in its website (Vienna Aviation Days 2024: Pioneering Climate Neutral Aviation)
9	EASN Newsletter September 2024	EASN-TIS	Visibility of the project in a specialized platform (Novel recuperation system to maximize exergy from anergy for fuel cell powered geared electric aircraft propulsion system | EASN Newsletter)

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10	EASN Newsletter December 2024	EASN-TIS	Visibility of the project in a specialized platform (Novel recuperation system to maximize exergy from anergy for fuel cell powered geared electric aircraft propulsion system | EASN Newsletter)
11	exFan Newsletter Issue #01	EASN-TIS	Visibility of the project in its website (exFan Newsletter #01)
12	EASN Newsletter March 2025	EASN-TIS	Visibility of the project in a specialized platform (Novel recuperation system to maximize exergy from anergy for fuel cell powered geared electric aircraft propulsion system | EASN Newsletter)
13	An article at Aviation Network	TUW	Visibility of the project in a specialized platform (The Week In Technology, March 3-7, 2025 | Aviation Week Network)

2.3.2 Events

Beyond scientific conferences, **exFan** partners have taken part in events. These occasions help increase the project's visibility, engage with different stakeholders, and share key messages with broader audiences. The list below summarises the events attended up to Month 18 (M18), including the event name, date, location, and type of involvement.

Table 5. exFan events' participation

No	Activity	Entity	Description
1	ILA Berlin 2024	CID, TUW	ClimaAVTech cluster is used for collaboration between EU research projects in the field of hydrogen aviation.
2	VAD 2024 (an exFan event)	ADT, TUW, EASN-TIS	A 2-day event organized by the exFan under the theme "Hydrogen/Hybrid Electric Propulsion Systems as Key to Climate Neutral Emissions," leading experts from the aviation industry, academia, research institutions, and representatives from project sponsors, ministries, sister projects and the EU Commission gathered to exchange the latest scientific findings and advancements in hydrogen technologies for aviation

2.3.3 Videos

Videos are a useful tool to present the **exFan** project in a clear and engaging format. They help explain the project's aims, activities, and results to both technical and non-technical audiences.

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The table below includes the videos produced up to Month 18 (M18), along with information on the publishing partner, content focus, publication date, and link.

exFan has created a YouTube channel (https://www.youtube.com/@exFanProject) on 06/06/2024 to interactively promote its goals and achievements to a wider range of audiences. Up to May 2025 (M18), **two (2) videos** have been developed while the channel has reached the **91 subscribers**. Below it is the list of the videos produced as well as the evolution of the statistics.

Table 6. exFan videos produced

a/a	Date published	Video title	Video link	Views	Impressions
1	7/6/2024	Harnessing Heat for Flight: The exFan Project	https://www.youtube.com/watch?v=tcPiof1002s&t=12s	1103	193
2	18/7/2024	Vienna Aviation Days 2024 An exFan project event	https://youtu.be/XcDUYeuk58s	1324	320

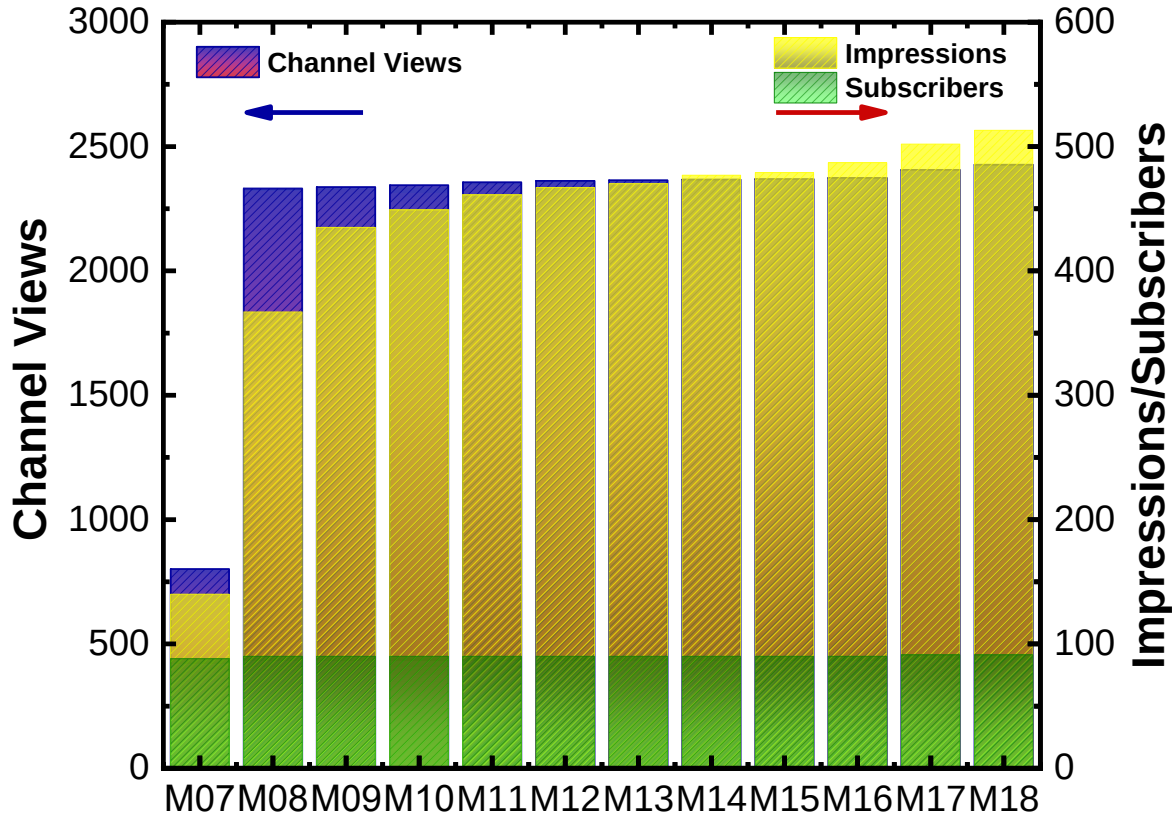

Figure 1. exFan website evolution of users and views

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3. Evaluation of the Performed Dissemination & Communication Activities

To assess the effectiveness of **exFan**'s dissemination and communication efforts, selected tools and channels are regularly monitored and analysed. This section presents an overview of the project's public outreach performance, focusing on two key areas: the impact of the public website and the activity on **exFan**'s social media platforms (**LinkedIn** and **Twitter**). These indicators help evaluate the project's visibility, geographical reach, and engagement with relevant audiences.

3.1.1 Public website and Geographical Impact

The **exFan** public website serves as the main access point for information about the project, offering updates on progress, partners, events, publications, and public deliverables. Website analytics are used to track visitor numbers, page views, and geographical origin. These statistics help understand how far the project reaches, both in terms of visibility and international interest.

Google Analytics, accessible at https://www.google.com/analytics/ , stands as a tool for in-depth analysis of the website's traffic. Thus, it has been applied on the official **exFan** website since its launch (12/03/2024) offering the capability to monitor and collect data on website visitors, including their origins, accessible at https://exfan-project.eu/ .

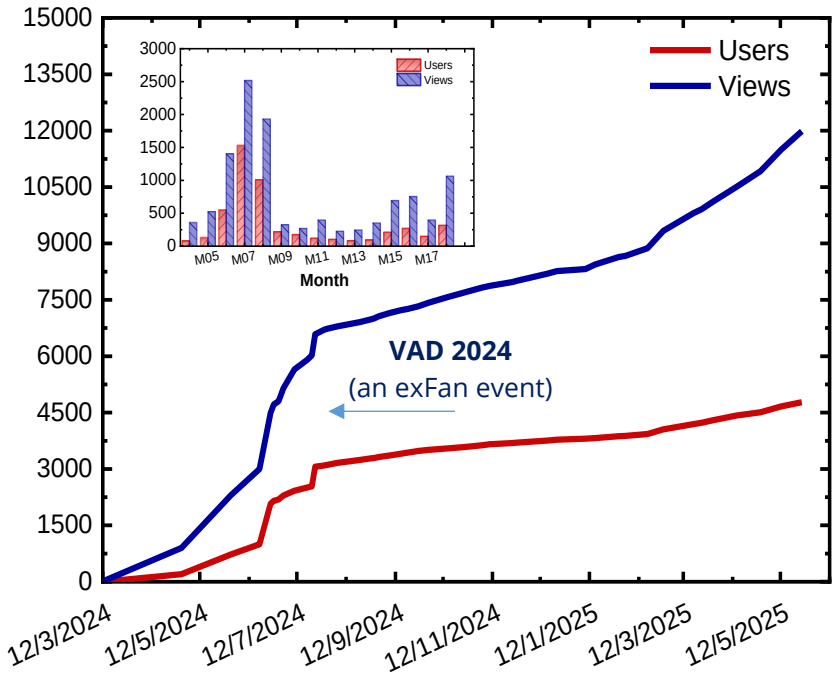

Figure 2. exFan website evolution of users and views

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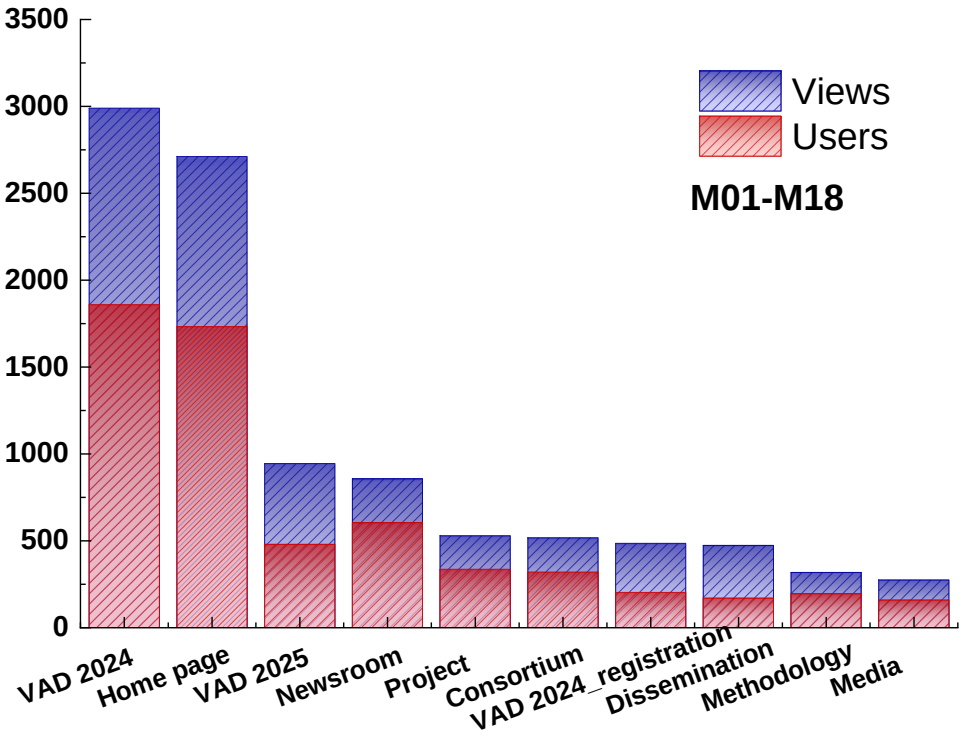

Figure 3. exFan most viewed website pages by users

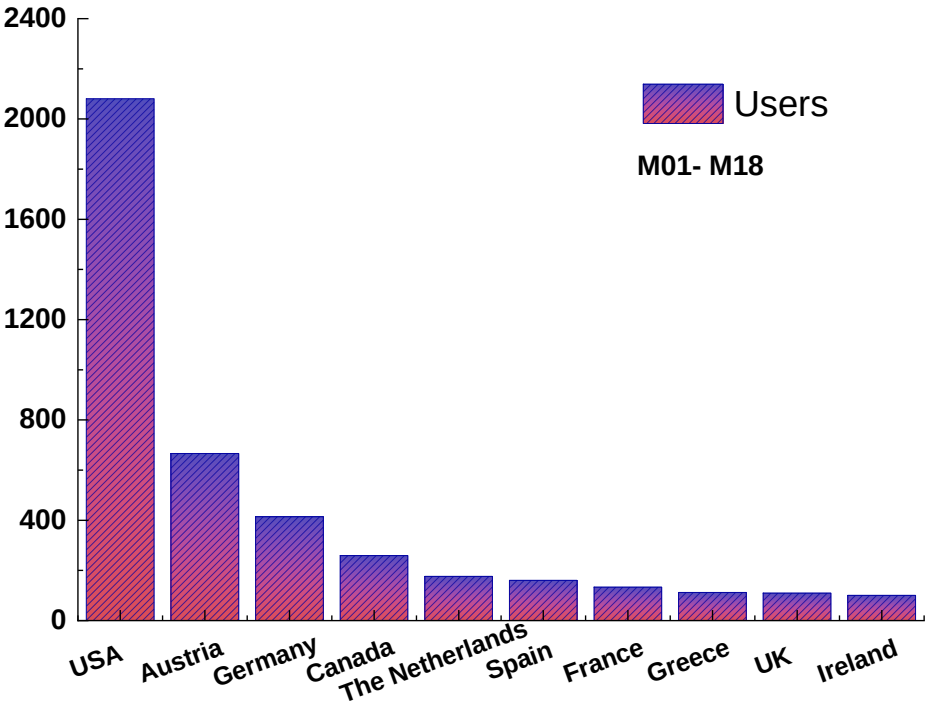

Figure 4. exFan Top10 countries of most user's origin

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3.1.2 Statistics of exFan social media

Social media is a key tool in the **exFan** D&C strategy to reach various stakeholders, including researchers, industry, and the general public. The project's **LinkedIn** and **Twitter** pages are monitored to evaluate engagement through metrics such as number of followers, impressions, likes, shares, and post reach. These indicators help measure how well the project's messages are being received and shared across the online community.

Links to the social media pages are provided below:

- **https://www.linkedin.com/company/exfan/**
- **https://twitter.com/exFan2024**

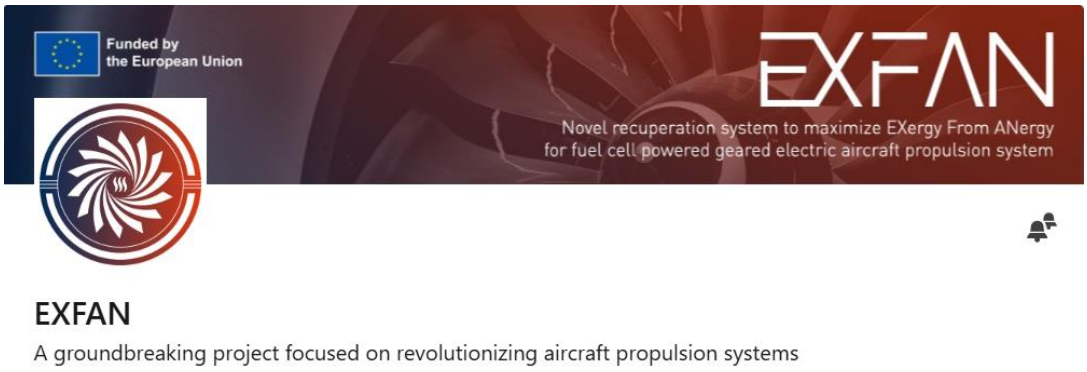

Figure 5. exFan LinkedIn page

Figure 6. exFan Twitter (X) page

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Figure 7. exFan social media pages links through the website

LinkedIn

According to LinkedIn analytics there are more than **2300 page views** (1075 desktop, 1230 mobile), more than **1170 Unique visitors**, **860 followers**, more than **67 posts** with more than **68,000 impressions** in total since the beginning of the project's profile account (13th December 2023). Below the evolution of the **exFan** LinkedIn followers' overtime is presented.

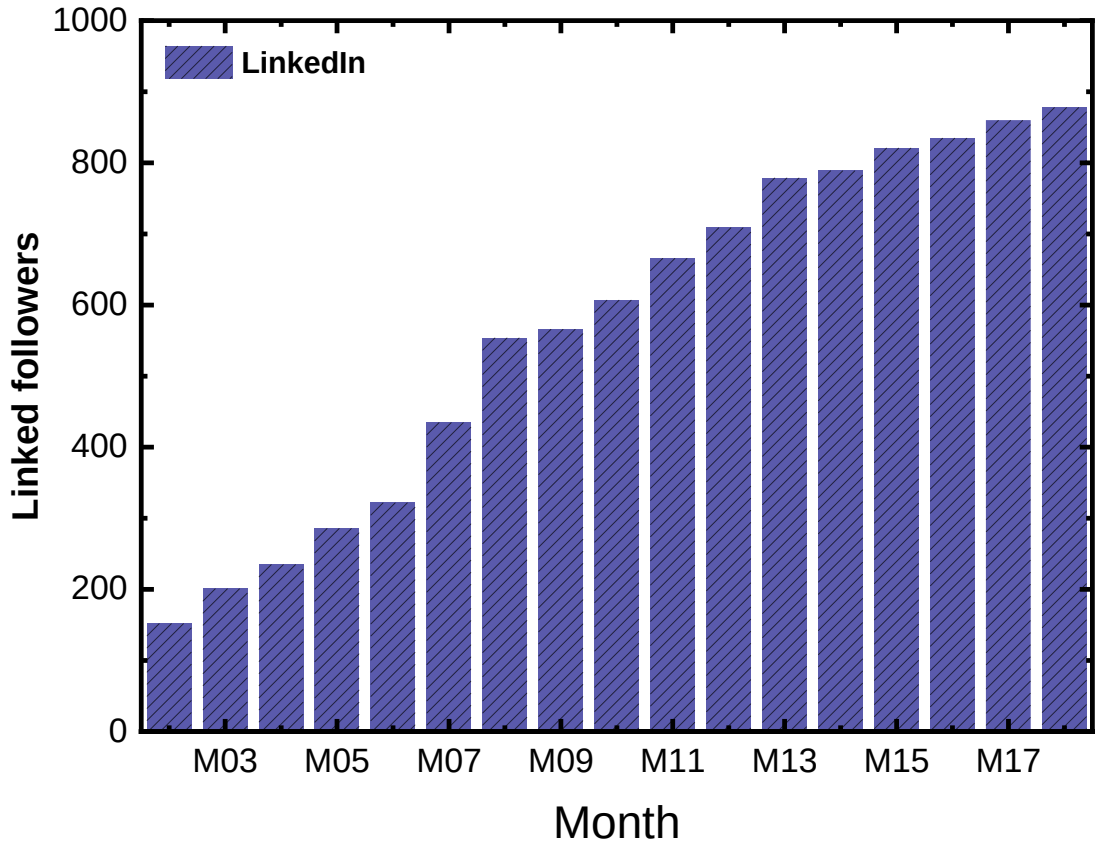

Figure 8. exFan LinkedIn profile followers' evolution

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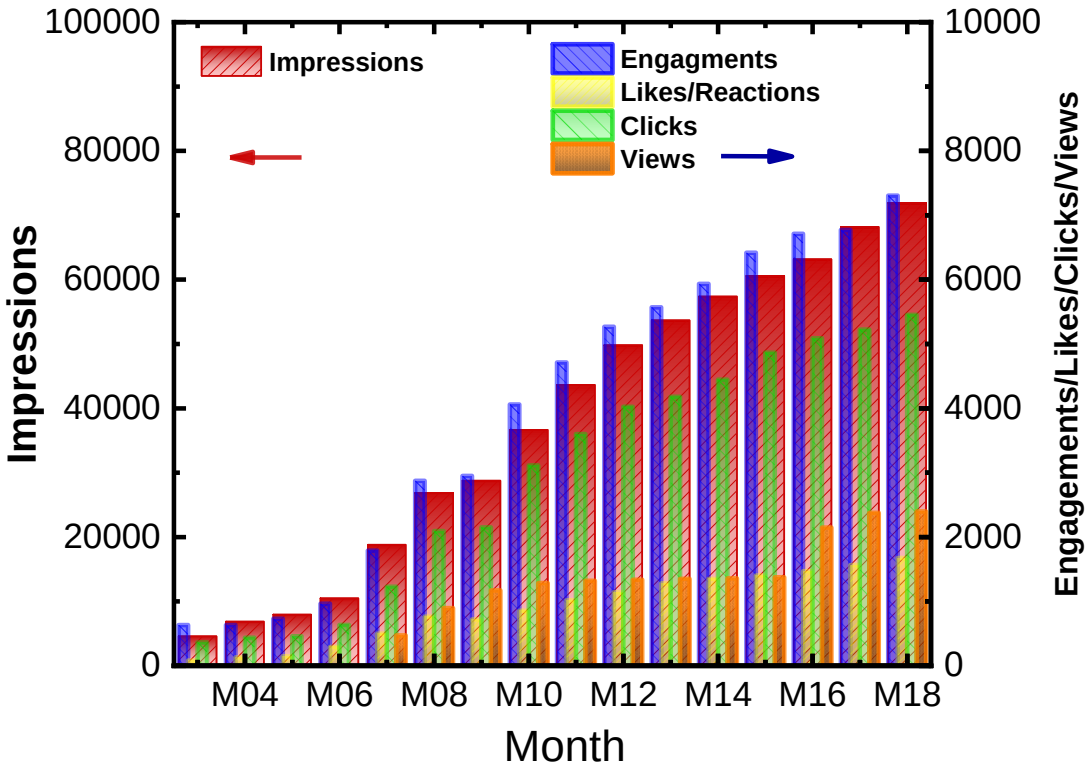

Figure 9. exFan LinkedIn profile evolution on number of impressions, engagements, likes, clicks and views

Since April 2024 (M6) the number of followers has been increased by 201% (M18).

The LinkedIn profile is followed by people coming from **Engineering** (24.5%), **Research** (14.2%), **Business Development** (13.2%), **Education** (10.0%), **Operations** (8.5%), **Program and Project Management** (7.0%), **Media and Communication** (6.3%), **Administrative** (5.9%), **Information Technology** (4.0%), **Sales** (3.8%), **Arts and Design** (1.6%) and **Marketing** (0.9%).

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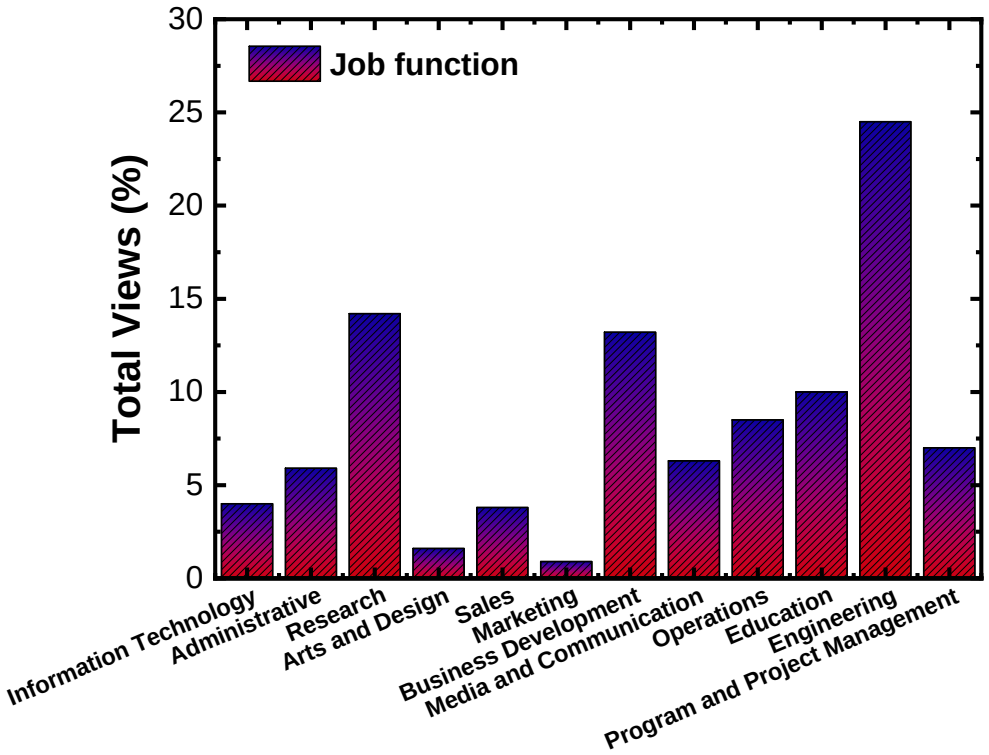

Figure 10. exFan LinkedIn profile followers' job function

The above followers are from the below areas of interest: **Higher Education** (7.1%), **Education Administration Programs** (0.6%), **Manufacturing** (1.2%), **Engineering Services** (1.8%), **Appliances, Electrical and Electronics Manufacturing** (1.7%), Industrial Machinery Manufacturing (7.4%), **Nanotechnology Research** (0.6%), **Research Services** (9.7%), **Armed Forces** (1.2%), **Architecture and Planning** (3.6%), **Airlines and Aviation** (9.1%), International Affairs (0.6%), **IT Services and IT Consulting** (5.6%), **Aviation and Aerospace Component Manufacturing** (30.0%), **Market Research** (0.6%), **Government Administration** (1.4%), **Motor Vehicle Manufacturing** (2.3%), **Public Relations and Communications Services** (1.5%), **Design Services** (0.7%), **Business Consulting and Services** (2.4%), **Machinery Manufacturing** (2.9%), **Biotechnology Research** (0.6%), **Utilities** (0.8%), **Facilities Services** (0.6%), **Defense and Space Manufacturing** (0.9%), **Strategic Management Services** (1.8%), **Software Development** (2.8%) and **Semiconductor Manufacturing** (0.6%)

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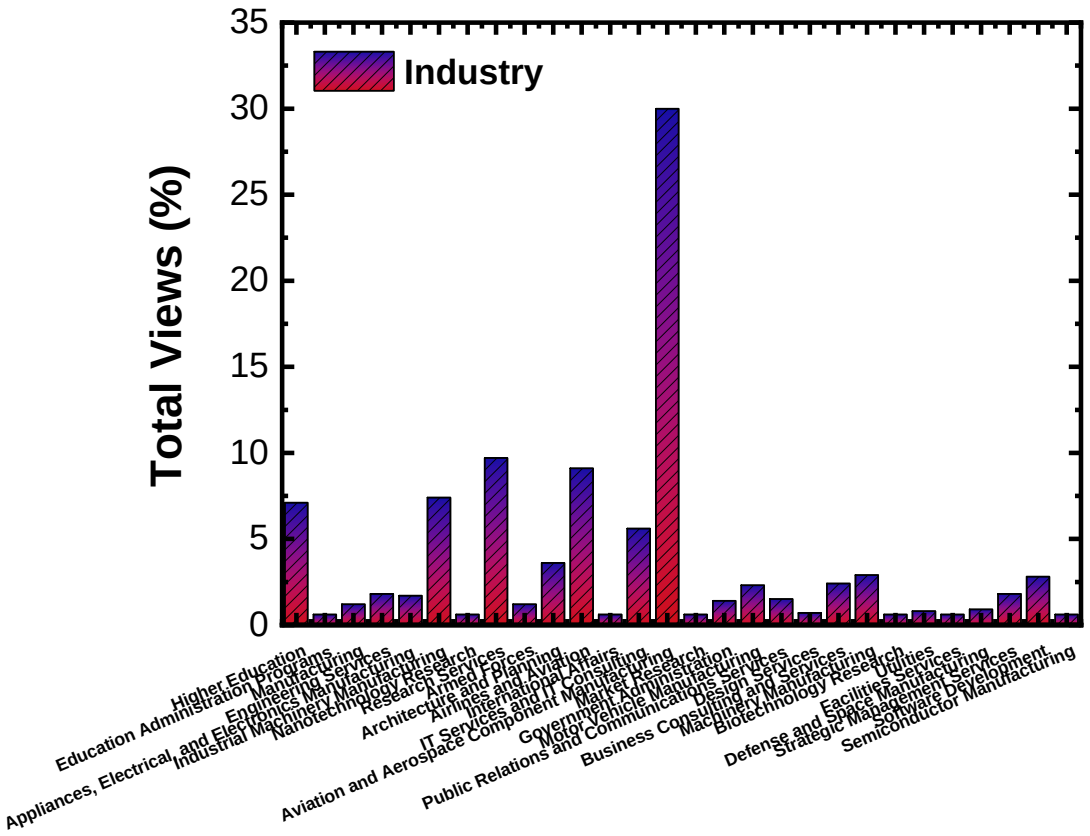

Figure 11. exFan LinkedIn profile followers' area of interest

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Twitter (X)

A dedicated **exFan** Twitter(X) account was established on 04/01/2025, aiming to create a virtual community of professionals and stakeholders who are interested in the project's endeavours. Since then, **exFan** Twitter(X) page has **50 followers** and **36 following**, while all its **66 posts** have led to **3645 engagements, 243 impressions,** have **212 likes** and **63 views**.

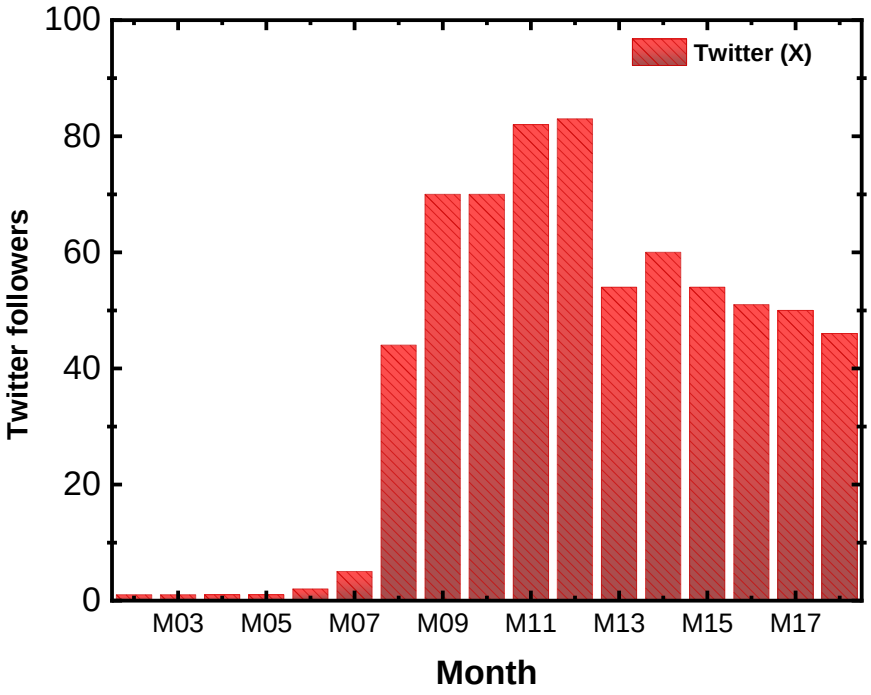

Figure 12. exFan Twitter(X) profile followers' evolution

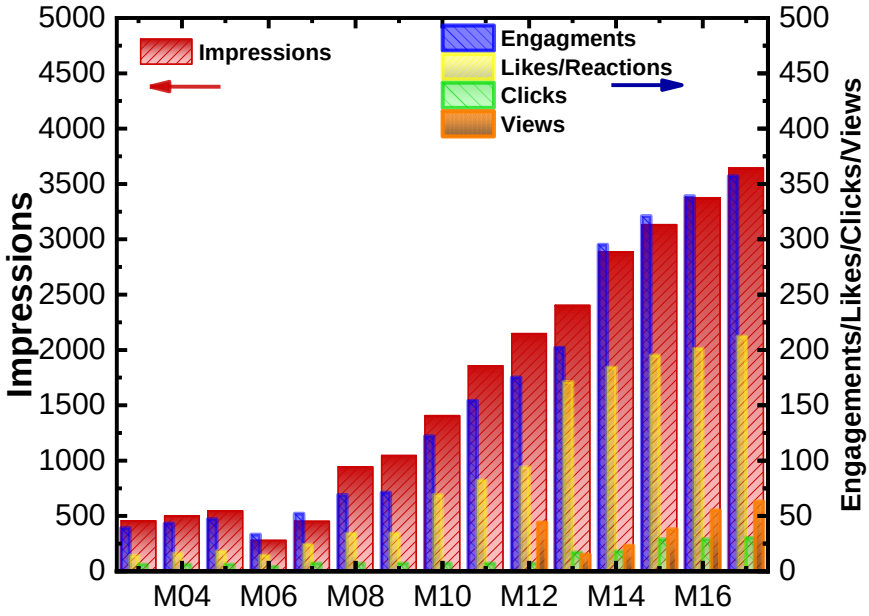

Figure 13. exFan Twitter profile evolution on number of impressions, engagements, likes, clicks and views

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4. Analysing the Impact of the Communication & Outreach Strategy

Various indicators have been identified to track the progress and effectiveness of communication and dissemination activities within **exFan**. The following table summarizes the preliminary Key Performance Indicators (KPIs) set for assessing the effectiveness of the strategy in comparison to have been done until M18 (May 2025).

Table 7. Proposed Dissemination and Communication KPIs for the exFan project

Activity	Indicator	Proposed Target	M18
Project website	Number of visits	3000 annual visits on the homepage	2711 views of homepage for the M01-M18. However, the VAD2024 webpage has reached 3000 annual visits *(EASN-TIS)*
Social media	Number of posts on social media pages	At least 2 posts per month on social media	4 posts per month per social media account (LinkedIn, X). 139 posts in total up to M18 *(EASN-TIS)*
Dissemination	Number of attended events	Participation in 5 networking events & organization of ≥ 2 exFan networking events with at least 50 participants	- 2 participations in cluster events (ILA 2024, VAD2024) - VAD2024 organization with 103 participants from 8 countries
	Number of participants of organized dissemination events	At least 100 participants	- VAD2024 organization with 103 participants from 8 countries *(ADT, TUW, EASN-TIS)*
	Events organization/participation	At least 4 joint sessions/workshops or meetings at major aviation conferences	Vienna Aviation Days 2024 | 103 participants (45 entities) *(ADT, TUW, EASN-TIS)*
	Number of OA publications in peer reviewed publications	At least 16 publications	On-going
	Number of papers and posters presentations in conferences	Paper presentation of at least 10 congresses, at least 10 poster presentations, at least 5 workshops/info days	- 5 conference presentations *(CID @ BIEMH/ADT & TUW @ DLRK 2024/TUW @ 14th EASN conf/TUW @ AIAA SciTech 2025)* - 2 posters *(TUW @ TUW Science Days 2024 / DLR @ DLRK 2024* - 2 posters @ exhibition participations *(CID @ ADDIT3D (BIEMH)/ TUW @ Farnborough 2024)* -1 Presentation *(TUW-ADT @ VAD2024)*
Communication	Interviews and press releases	At least 20 interviews and press releases	- 2 project publications in websites *(CID)* - 4 non-scientific publications *(2 by CID, 1 by FHG, 1 by TUW)* - 1 press release for VAD 2024 *(ADT, TUW, EASN-TIS)*

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			- 1 project Newsletter *(all partners)* - 5 EASN Newsletter *(EASN-TIS)*
	Number of distributed materials	At least 3 packs of promotional packs	1 pack (incl. posters and leaflets) has been sent to all partners including posters and leaflets *(EASN-TIS)*
	Videos	At least 10 videos conveying key messages of exFan targets & achievements	- 2 videos have been developed *(EASN-TIS)*

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5. DISSEMINATION E-APPROVAL TOOL

The D&C Leader (EASN-TIS) has implemented an automated "*approval process*" to oversee dissemination operations and prevent potential IP issues. This process is facilitated through the "*exFan e-Approval Tool*," an online platform.

As per the agreed procedure, all partners are required to submit intended publications, such as presentations, posters, press releases, and scientific publications, to EASN-TIS, WP2 leader, at least 15 days before the dissemination activity (Article 17 of the G.A).

Upon receipt of a notification regarding an intended publication, consortium members must:

- Acknowledge receipt within 48 hours or receive reminders every 2 days.
- Download and review the dissemination material.
- Deny the publication if there are significant conflicts of interest, accompanied by a clear explanation. The dissemination manager will intervene to resolve the issue.

This process is conducted through clickable links in the notification email.

- After 15 days, any voter who has not expressed their opinion is considered to have accepted the publication, and the approval process is concluded. The tool notifies the dissemination manager and the author of the approved publication.
- If all partners approve the dissemination activity before the deadline, the tool notifies the dissemination manager and the author of the approval. However, if there is an objection, the tool alerts the dissemination manager and the author, and approval is pending until the issue is resolved.

Automating this process streamlines project progress, reduces errors, and enhances workflow efficiency, accuracy, and consistency.

Figure 14. exFan e-Approval Platform

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Since the Project initiation and up to M18 (May 2025), sixteen (16) polls have been taken place to evaluate the work done among the partners so that can be presented in various events (conferences, workshops) as well as in non-scientific platforms and in peer-reviewed journals. The table below presents the summary of them.

Table 8. List of polls created via the exFan's e-approval process tool

	Date	Title	Event/ Location	Entity	Owner
1	8/2/2024	NOVEL RECUPERATION SYSTEM TO MAXIMIZE EXERGY FROM X ANERGY FOR FUEL CELL POWERED GEARED ELECTRIC AIRCRAFT PROPULSION SYSTEM	TUW Science Day	TUW	Bernhard Gerl
2	6/5/2024	Advancing Climate-Neutral Aviation by 2050: Hydrogen Fuel Cells and Additive Manufacturing Lead the Way	Additive Manufacturing Media	FHG	Felix Weigand
3	16/5/2024	NOVEL RECUPERATION SYSTEM TO MAXIMIZE EXERGY FROM ANERGY FOR FUEL CELL POWERED GEARED ELECTRIC AIRCRAFT PROPULSION SYSTEM	BIEMH 2025	CID	María Belén García
4	13/6/2025	New heat dissipation and recovery system for more efficient electric aircrafts	European Federation of Corrosion (EFC)	CID	María Belén García
5	5/7/2025	Opportunities to move from heat rejection to heat utilization in hydrogen electric aircraft - exFan	VAD 2024	TUW	Martin Berens
6	18/7/2024	Fundamentals of Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	EASN Conference 2024	TUW	Bernhard Gerl
7	4/9/2024	Achieving hot-day take-off with fuel cells through efficient thermal management	DEUTSCHER LUFT- UND RAUMFAHRTKONGRESS 2025	ADT	Lorenz Braumann
8	17/9/2024	Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	DEUTSCHER LUFT- UND RAUMFAHRTKONGRESS 2025	TUW	Matthias Ronovsky-Bodisch
9	20/9/2024	Fuel Cell-Powered Fan Design Studies with Heat Utilization	DEUTSCHER LUFT- UND RAUMFAHRTKONGRESS 2025	DLR	Rainer Schnell
10	23/9/2024	Achieving hot-day take-off with fuels cells through efficient thermal management (paper)	DEUTSCHER LUFT- UND RAUMFAHRTKONGRESS 2025	ADT	Lorenz Braumann
11	7/10/2024	On the Conceptual Design of Ducted Fans with Integrated Heat Exchangers (abstract)	ASME Turbomachinery Technical Conference & Exposition (Turbo Expo) 2024	DLR	Mavroudis Kavalos

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12	10/12/2024	On the Conceptual Design of Ducted Fans with Integrated Heat Exchangers (paper)	ASME Turbomachinery Technical Conference & Exposition (Turbo Expo) 2024	DLR	Mavroudis Kavalos
13	3/1/2025	Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	AIAA SciTech 2025 - ClimAvTechSession	TUW	Martin Berens
14	31/1/2025	Fundamentals of Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	Aerospace Journal	TUW	Bernhard Gerl
15	10/4/2025	exFan–Thrust generating Thermal Management for Fuel-Cell driven eFans	AERODAYS 2025	ADT	Lorenz Braumann
16	19/5/20205	Well-to-Wake Emissions of Conventional and Emerging Propulsion Technologies Across Current and Future Scenarios	15th EASN International Conference	IRES	Athanasios Pappas

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6. SUMMARY

In summary, these deliverable reviews the Dissemination and Communication (D&C) activities carried out from Month 01 up to Month 18. Its main goal is to assess how well the D&C plan has been put into practice.

It includes an overview of the actions completed or in progress, along with their impact, and serves as a reference for future D&C efforts. The report confirms that the consortium's work is aligned with the project's goals and has reached a range of target audiences. The PDCR table will continue to be monitored regularly by the consortium.

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APPENDIX A – PLAN FOR DISSEMINATION & COMMUNICATION ACTIVITIES OF PROJECT RESULTS (PDCR)

Based on the results selected from the Consortium partners the following activities are proposed for the upcoming months (up to end of 2025) as well as in 2026.

Scientific publications:

- TUW is planning to publish a work at Aerospace Journal within 2025 as well as other two (2) works in CEAS Journal in the period 2025-2026
- DLR is going to publish a paper in conference proceedings for ASME Turbo Expo 2025 / Turbomachinery Technical Conference and Exposition (GT2025), Memphis, Tennessee, USA
- IRES will have a publication in conference proceedings of EASN 15th International Conference 2025, Madrid, Spain
- ADT is planning to publish two (2) works in CEAS Journal within 2026
- CID is planning to publish a work in Surface and Coatings Technology in 2026
- TUM is planning to publish a work within 2026

Dissemination activities:

- FZG is scheduled to participate in VDI International Conference on Gears 2025. It's a Conference on gear and drivetrain related topics: Supported by national and international associations and brings together over 500 leading experts from the international gear and transmission industry.
- ADT is planning to participate in:
  (a) DLRK 2025: The DLRK is the central event for the German-speaking aerospace community. The event allows to present this novel and very beneficial topic to an audience with a focus/background on hydrogen aviation,
  (b) 15th EASN Conference 2025: EASN Conference focused on "Innovation in Aviation & Space towards sustainability today & tomorrow". Allowing to reach a wide scientific audience in the aviation field., and
  (c) VAD 2025 event
- DLR is planning to participate in ASME Turbo Expo 2025 with a conference paper
- CIDETEC is planning to participate in VAD 2025 event

Communication activities:

- Up to two project Newsletter are scheduled to be written until the end of 2025
- The exFan project will be mentioned in two EASN newsletters until the end of 2025

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- A video by TUW is under development with the aim to present more technical aspects of the project
- A video for the VAD2025 is planned to be made available after the event to summarize the event.

Images of the PCDR tables as filled up the partners are presented below.

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Table A1: List of Current and Foreseen Scientific Publications																		
NO.	Type of PID (repository)	PID of deposited publication	PID (publisher version of record)	Type of publication	Link to publication[1]	Info about the Author(s)		Title of the scientific publication[2]	Title of the journal or equivalent	Number	ISSN or eISSN	Publisher	Date of Publication	Was the publication available in open access (OA) through the repository at the time of publication ?	Is this publication peer reviewed ?	Book title	Did you charge OA publishing fees to the project ? [3]	Type of publishing venue (only if the answer to the previous question is "yes")	Article processing costs that will be charged to the project (€)
						Entity	Author(s)												
1				Publication in conference proceedings		DEUTCHES ZENTUM FUR LUFT UND RAMUMFAHRT EV (DLR)	Mavroudis D. Kavvalos	ON THE CONCEPTUAL DESIGN OF DUCTED FANS WITH INTEGRATED HEAT EXCHANGERS	ASME Turbo Expo 2025 / Turbomachinery Technical Conference and Exposition (GT2025), Memphis, Tennessee, USA.			ASME Turbo Expo 2025 / Turbomachinery Technical Conference and Exposition (GT2025), Memphis, Tennessee, USA.	23-01-25	Yes	Yes		No	Full open access venue	Yes
2				Article in journal		TECHNISCHE UNIVERSITAET MUENCHEN (TUM) / GEAR RESEARCH CENTER (FZG)	tbd.	Working title: "Gearbox design for high-speed electric propulsion aircraft"	tbd.	tbd.	tbd.	tbd.	2027 (maybe even 2026)	tbd.	tbd.	tbd.	tbd.	tbd.	tbd.
3				Article in journal		ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	tbd.	Working title: "Thermal Management Concepts to maximise heat rejection in fuel cell electric aircraft"	CEAS Journal	tbd.	tbd.	tbd.	2026	Yes	Yes		Yes	Full open access venue	2,590.00
4				Article in journal		tbd.	tbd.	Working title: "exFan system optimization in a multidisciplinary approach"	CEAS Journal	tbd.	tbd.	tbd.	2026	YES	YES	tbd.	Yes		2,590.00
5				Article in journal		CIDETEC (CID)	Belen Garcia		Surface and Coatings Technology				2026				Yes	Full open access venue	3,800.00
6				Publication in conference proceedings		INNOVATION IN RESEARCH & ENGINEERING SOLUTIONS (IRES)	Thanos Pappas	Comparative Life Cycle Assessment of Aviation Technologies: Evaluating the Operational Climate Impact of Five Fuel Pathways	EASN 15th International Conference, Madrid, Spain			EASN 15th International Conference, Madrid, Spain	2025						
7				Article in journal		TECHNISCHE UNIVERSITAET WIEN (TUW)	Gerl Bernhard	Fundamentals of Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	Aerospace Journal			Aerospace Journal	03.04.2025	No	Yes		Yes	Full open access venue	No
8				Article in journal		TECHNISCHE UNIVERSITAET WIEN (TUW)	M. Ronovsky-Bodisch	Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion	CEAS Journal			CEAS Journal	TBD	No	Yes		TBD	Full open access venue	2,590.00
9				Article in journal		TECHNISCHE UNIVERSITAET WIEN (TUW)	M. Ronovsky-Bodisch	TBD	CEAS Journal			CEAS Journal	TBD	No	Yes		tbd.	Full open access venue	2,590.00

Figure 15. exFan PCDR file – A1 List of Current and Foreseen Scientific Publications

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Table A2: List of Planned & Performed Dissemination activities

No.	Dissemination activity name	Main leader: Entity	Main leader: Participant(s)	Date of dissemination activity When?	Place of dissemination activity Where ? (Country)	Type of dissemination activity What?	Target audience reached Who?	Status of the dissemination activity	Why? Description of the objective(s) with reference to a specific project output (max. 200 characters)
1	ACHIEVING HOT-DAY TAKE-OFF WITH FUEL CELLS THROUGH EFFICIENT THERMAL MANAGEMENT	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	Lorenz Braumann	30.09.24	Germany	Conferences	Research communities	Delivered	DLRK is the largest german aviation conference and a good place to make a project presentation e.g. as poster presentation. TUW and DLR might also publish at DLRK.
2	EFFICIENT THERMAL MANAGEMENT	CIDETEC (CID)	TBD	3-7.06.24	Spain	Conferences	Industry, business partners	Delivered	ADDIT3D conference part of BIEMH, the biggest traid fair of manufacturing in Spain (Bilbao). A poster presentation is already approved and it is under evaluation the possibility of an oral presentation. Audience: industry and research community. Impact: ≥ 35.000 attendants from 52 countries.
3	14th EASN International Conference exFan Project presentation	TECHNISCHE UNIVERSITAET WIEN (TUW)	Bernhard Gerl	9-11.10.24	Greece	Conferences	Research communities	Delivered	Invited by PO and EASN to participate in an specific session of 14th EASN International Conference for the project topic
4	TU Wien Science Days 2024 exFan Project presentation	TECHNISCHE UNIVERSITAET WIEN (TUW)	Bernhard Gerl, Matthias Ronovsky-Bodisch	14.2.24	Austria	Other scientific collaboration	Research communities	Delivered	TU Wien Science Days - Project Presentation to foster inter-institutional exchange and develop new synergies, projects, and insights.
5	exFan Project presentation	TECHNISCHE UNIVERSITAET WIEN (TUW)	TBD	22-26.07.24	United Kingdom	Other	Industry, business partners	Delivered	Farnborough International Exhibition & Conference. Presentation of the research project and networking with other companies + wide a wide public audience.
6	DLRK 2024 Presentation of first results and potential of exFan	TECHNISCHE UNIVERSITAET WIEN (TUW)	Matthias Ronovsky	30. 9-2.10.24	Germany	Conferences	Research communities	Delivered	The DLRK is the central event for the German-speaking aerospace community. The event allows to present this novel and very beneficial topic to an audience with a focus/background on hydrogen aviation
7	14th EASN International Conference "Possible implementation of the system in an aircraft. Correlations & effects of different flight and geometric parameters"	TECHNISCHE UNIVERSITAET WIEN (TUW)	Bernhard Gerl	8.10-11.10.24	Greece	Conferences	Research communities	Delivered	EASN Conference focused on "Innovation in Aviation & Space towards sustainability today & tomorrow". Allowing to reach a wide scientific audience in the aviation field.
8	BIEMH 2024 exFan Project presentation	CIDETEC (CID)	TBD	6-10.06.24	Spain	Conferences	Industry, business partners	Delivered	Conference about International Projects with paticipation of Basque companies in the field of advanced manufacturing, organised within BIEMH, big international trade fair in Bilbao with more than 30,000 visitors. It includes oral presentations and poster exhibition. exFan will be presented with a poster.
9	Gearbox design for high-speed electric propulsion aircraft	TECHNISCHE UNIVERSITAET MUENCHEN (TUM) / GEAR RESEARCH CENTER (FZG)	TBD	9.2025	Germany	Conferences	Research communities	Ongoing	VDI International Conference on Gears 2025; Conference on gear and drivetrain related topics: Supported by national and international associations, the conference brings together over 500 leading experts from the international gear and transmission industry
10	Thermal Management Concepts to maximise heat rejection	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	opher Gross/Lorenz Brau	Sep. 2026	Germany	Conferences	Research communities	Ongoing	The DLRK is the central event for the German-speaking aerospace community. The event allows to present this novel and very benefical topic to a wide audience with a focus/background on hydrogen aviation topics. A following peer reviewed publication in CEAS journal is planned.
11	Challenges of Interface management for fuel cell electric propulsion systems	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	Lorenz Braumann	Jun. 2026	Austria	Conferences	Research communities	Ongoing	The Vienna Aviation Days is a conference that is organized via exFan.
12	A model based systems engineering approach for future electric propulsion systems	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	TUM & possibly more	Okt. 2026	tbd	Conferences	Research communities	Ongoing	EASN Conference focused on "Innovation in Aviation & Space towards sustainability today & tomorrow". Allowing to reach a wide scientific audiance in the aviation field.
13	ClimaV Clustering activity	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	CID, TUW	Periodic meetings	Germany	Clustering activities	Industry, business partners	Ongoing	ClimaAV cluster is used for collaboration between EU research projects in the field of hydrogen aviation. The clustering acitvity takes place at the ILA Berlin aviation fair.
14	Sister project Clustering	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	CID, TUW	Periodic meetings	Online	Clustering activities	Research communities	Ongoing	Sister project cluster allows highly specific information exchanger between projects that work on similar problems with different solutions methods.
15	Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion SCITECH Orlando 2025	TECHNISCHE UNIVERSITAET WIEN (TUW)	Martin Berens	06.01.2025	USA	Conferences	Research communities	Delivered	Results and project presentation by TUW at AIAA SciTech 2025 –ClimAvTechSession
16	ASME Turbo Expo 2025 "On the Conceptual Design of Ducted Fans with Integrated Heat Exchangers"	DEUTCHES ZENTUM FUR LUFT UND RAMUNFAHRT EV (DLR)	Mavroudis Kavvalos	16-20.06.2025	USA	Conferences	Research communities	Ongoing	

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8	BIEMH 2024 exFan Project presentation	CIDETEC (CID)	TBD	6-10.06.24	Spain	Conferences	Industry, business partners	**Delivered**	Conference about International Projects with paticipation of Basque companies in the field of advanced manufacturing, organised within BIEMH, big international trade fair in Bilbao with more than 30,000 visitors. It includes oral presentations and poster exhibition. exFan will be presented with a poster.
9	Gearbox design for high-speed electric propulsion aircraft	TECHNISCHE UNIVERSITAET MUENCHEN (TUM) / GEAR RESEARCH CENTER (FZG)	TBD	9.2025	Germany	Conferences	Research communities	Ongoing	VDI International Conference on Gears 2025; Conference on gear and drivetrain related topics: Supported by national and international associations, the conference brings together over 500 leading experts from the international gear and transmission industry
10	Thermal Management Concepts to maximise heat rejection	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	topher Gross/Lorenz Brau	Sep. 2026	Germany	Conferences	Research communities	Ongoing	The DLRK is the central event for the German-speaking aerospace community. The event allows to present this novel and very benefical topic to a wide audience with a focus/background on hydrogen aviation topics. A following peer reviewed publication in CEAS journal is planned.
11	Challenges of Interface management for fuel cell electric propulsion systems	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	Lorenz Braumann	Jun. 2026	Austria	Conferences	Research communities	Ongoing	The Vienna Aviation Days is a conference that is organized via exFan.
12	A model based systems engineering approach for future electric propulsion systems	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	TUM & possibly more	Okt. 2026	tbd	Conferences	Research communities	Ongoing	EASN Conference focused on "Innovation in Aviation & Space towards sustainability today & tomorrow". Allowing to reach a wide scientific audiance in the aviation field.
13	ClimaV Clustering activity	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	CID, TUW	Periodic meetings	Germany	Clustering activities	Industry, business partners	Ongoing	ClimaAV cluster is used for collaboration between EU research projects in the field of hydrogen aviation. The clustering acitvity takes place at the ILA Berlin aviation fair.
14	Sister project Clustering	ADVANCED DRIVETRAIN TECHNOLOGIES GMBH (ADT)	CID, TUW	Periodic meetings	Online	Clustering activities	Research communities	Ongoing	Sister project cluster allows highly specific information exchanger between projects that work on similar problems with different solutions methods.
15	Innovative Aircraft Heat Exchanger Integration for Hydrogen-Electric Propulsion SCITECH Orlando 2025	TECHNISCHE UNIVERSITAET WIEN (TUW)	Martin Berens	06.01.2025	USA	Conferences	Research communities	**Delivered**	Results and project presentation by TUW at AIAA SciTech 2025 –ClimAvTechSession
16	ASME Turbo Expo 2025 "On the Conceptual Design of Ducted Fans with Integrated Heat Exchangers"	DEUTCHES ZENTUM FUR LUFT UND RAMUNFAHRT EV (DLR)	Mavroudis Kavvalos	16-20.06.2025	USA	Conferences	Research communities	Ongoing	

Figure 16. exFan PCDR file – A2 List of Planned & Performed Dissemination Activities

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Table A3: List of Planned & Performed Communication activities								
No.	Communication activity name[1]	Description	Main leader		Type of audience: Who?	Communication channel: How?	Outcome[2]	Status
			Entity	Participant(s)				
1	LinkedIn	Introducing EXFAN Project: Pioneering Innovation in Hydrogen-Powered Aviation https://www.linkedin.com/feed/update/urn:li:activity:7141013748412043264	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	975 IMPRESSIONS 155 ENGAGMENTS 45 LIKES 93 CLICKS	Delivered
2	Twitter	Launch exFan Twitter profile https://twitter.com/exFan2024/status/1742827646789038448	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	55 IMPRESSIONS 6 ENGAGMENTS 2 LIKES 2 CLICKS	Delivered
3	LinkedIn	Xmas and New Year wishes https://www.linkedin.com/feed/update/urn:li:activity:7143198404670644224	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	1088 IMPRESSIONS 46 ENGAGMENTS 26 LIKES 20 CLICKS	Delivered
4	Twitter	Meet the Consortium partners_CIDETEC https://x.com/exFan2024/status/1750120334500516080?s=20	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	55 IMPRESSIONS 10 ENGAGMENTS 3 LIKES 2 CLICKS	Delivered
5	LinkedIn	Meet the Consortium partners_CIDETEC https://www.linkedin.com/feed/update/urn:li:activity:7155855691822309376	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	803 IMPRESSIONS 44 ENGAGMENTS 23 LIKES 20 CLICKS	Delivered
6	Twitter	exFan on the EASN Newsletter https://x.com/exFan2024/status/1755180189221298415?s=20	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	178 IMPRESSIONS 11 ENGAGMENTS 3 LIKES - CLICKS	Delivered
7	LinkedIn	exFan on the EASN Newsletter https://www.linkedin.com/feed/update/urn:li:activity:7160918372723892224	EASN TECHNOLOGY INNOVATION SERVICES (EASN-TIS)	George Anagnostopoulos	Citizens, Civil society, Industry, business partners, Research communities	Social media	1393 IMPRESSIONS 54 ENGAGMENTS 22 LIKES	Delivered

Figure 17. exFan PCDR file – A3 List of Planned & Performed Communication Activities*

Since there are more than 150 registrations only the first ones are depicted in Figure 17 as indicative representation

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