Communication, Dissemination and Exploitation Plan - Final

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Abstract

Project promotion in AWARE is based on an integrated approach combining Dissemination (making results available), Communication (making sure that potential stakeholders are aware of the project and its results and establishing dialogue with some of them), and Exploitation Planning (planning of measures to encourage use of results after project completion). This document summarises the main steps to accomplish for the effective communication, dissemination and exploitation activities. The plan also lists who is responsible for a certain action and the approximate deadline for performance.

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Copyright Statement

AWARE

Achieving Human-Machine Collaboration with Artificial Situational Awareness

AWARE

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1 Introduction

The present deliverable details the communication, dissemination and exploitation plan for AWARE project. It details the communication goals, high-level messages, and a short description to be broadcasted in different media with the aim of making the project understandable at a first glance.

The communication means include the project's website, the social media and other relevant instruments. The deliverable also details the strategy the project will follow to make use of or disseminate the project's results, as a plan of activities including a schedule and metrics to measure its impact and effectiveness.

The exploitation charter explains the project's approach and strategy to make the best use of the project results.

1.1 Definitions

Before getting started, it is important to note the difference between communications and dissemination - see figure 1. It is important to note that the guidance in this document refers to external communications and not internal communications between project consortium members.

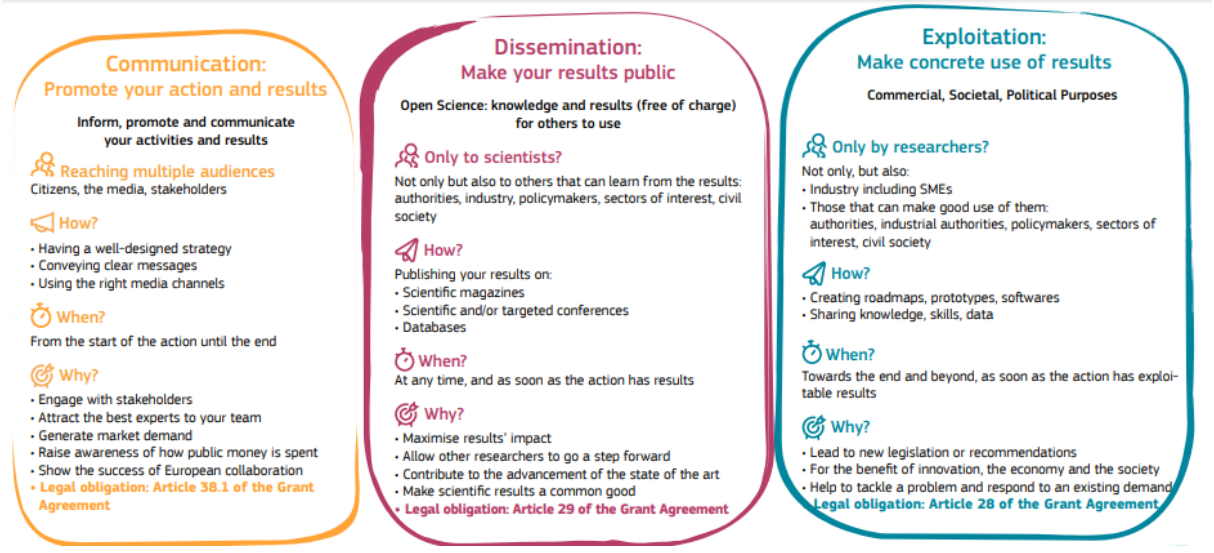


Figure 1. Definitions of communication, dissemination and exploitation in Horizon Europe

1.2 Applicable reference material

The following reference documents were used when preparing this deliverable:

- SESAR 3 JU communication guidelines
- THE USE OF THE EU EMBLEM IN THE CONTEXT OF EU PROGRAMMES 2021-2027 (March 2021)
- Project communications – Teaser video guidelines
- AISA[2] project CDE Plan (00.01.01)
- COMMUNICATION, DISSEMINATION AND EXPLOITATION (Quick guide)
- SESAR Save the date template
- SESAR project communications – at a glance
- SESAR3JU – Visual identity charter
- SESAR3JU – logo colour
- AWARE logo
- COMMUNICATION, DISSEMINATION & EXPLOITATION WHAT IS THE DIFFERENCE AND WHY THEY ALL MATTER
- Horizon Europe: HE Programme Guide (version 5.0, 15 May 2025)

[2] The AISA project is the predecessor of AWARE: https://www.aisa-project.eu/

2 Project introduction

2.1 "About" project text

The goal of the AWARE (Achieving Human-machine Collaboration with Artificial Situational Awareness) project is to enable human-machine collaboration by using an artificial situational awareness system, which enables AI to anticipate and respond to human needs by understanding human intent and goals. While humans are extensively trained to understand the capabilities, limitations, and functionality of the machines they are using, further improvements in human-machine collaboration are currently hindered by a lack of awareness of human intent on the side of machines. The project will develop and test an AI Assistant Application providing adaptable human-centric support to enhance air traffic controller (ATCO) performance and reduce ATCO's workload despite high task complexity. The project is expected to generate positive impacts on the European air traffic management system.

2.2 Project key messages

The project's key messages (both for communication and dissemination activities) are presented below (Table 1).

# Key message id	Communication	Dissemination
1	The project aims to **enhance** the **situational awareness** of air traffic controllers.	The project's general objective is to develop an AI assistant application designed to support ATC operations by building a platform based on enhanced artificial situational awareness solution.
2	The project will **enable** the **machine to understand the air traffic controller**'s intentions.	AWARE implements methods for assessing ATCO's intent and goals to create the initial version of an enhanced artificial situational awareness system.
3	The new AWARE solution will provide **improved support** in air traffic management.	The AWARE consortium designs a new method for the adaptable selection and implementation of actions that support air traffic controllers, utilising both machine-learning and non-machine-learning tools.

Table 1. The project's key messages

2.3 Keywords

The following table (Table 2) depicts the main keywords related to AWARE.

Key Word	Definition
ASA	Artificial Situational Awareness means that the system will recognise human intent.
AWARE solution	Enhancing the Artificial Situational Awareness (ASA) system involves expanding its capabilities with new knowledge-graph schemas, vocabulary, and rule-based knowledge. Implementing an effective HMI at the controller's working position will facilitate information sharing and enable ATCOs to select the required level of automation support, ensuring the human remains central to the system.

Table 2. The main keywords of the AWARE project

2.4 Focal point for communications, dissemination and exploitation.

The following table (Table 3) presents the key CDE-related experts in the AWARE project:

Name	Role	Email address
Tomislav Radišić	Project coordinator, focal point for exploitation	tradisic@fpz.unizg.hr
Roland Guraly	WP leader for CDE activities	rolandguraly@slotconsulting.hu
Andrej Kocsis	Communication and dissemination manager	andrejkocsis@slotconsulting.hu

Table 3. Focal points of contact

2.5 Stakeholders identification

The main target groups of AWARE are shown below (Table 4), along with the information that is supposed to be communicated and disseminated to them.

Stakeholder	Content
SJU	Project progress and results
ANSPs	The possible benefits an AWARE-like solution can provide for the European Air Traffic Management System
EASA	The possible benefits an AWARE-like solution can provide for the European Air Traffic Management System
Eurocontrol	The possible benefits an AWARE-like solution can provide for the European Air Traffic Management System
ATM system providers	The concept and testing results of an AI-based ATM system at TRL-2
Research organisations, universities, other industrial players	The technical results of the project
Civil society	The potential benefits AWARE can bring to Europe and how the proposed system will remain safe and secure
Project partners	Feedback from stakeholders on our communication activities

Table 4. Stakeholders

3 Communication

3.1 Communications objectives and strategy

The following are the primary communication objectives of the project:

- to ensure that the project and its key messages are **known** among the specific target groups,
- to make sure that the disseminated results **reach** the target audience,
- to make **feedback** available from those who want to provide feedback and also from those whose feedback is needed to accomplish work or validate the project results.

AWARE is an exploratory research project working in a specific field, especially a combination of three leading scientific areas: air traffic management, digitalisation/automation/artificial intelligence[3], and human factors. These are robust areas on their own; there is hardly any person who can claim to be an expert in all three areas above. Therefore, the high-level messages of AWARE must be transformed to be understandable to support contributions from those who might feel uncomfortable engaging with the project at first sight. Therefore, the primary strategy of AWARE is to provide the correct information to the right target group by using the appropriate communication channels. In the following subsections, these items will be listed separately, e.g., what (messages), to whom (target audience), and *how* (channels). Also, the success of these actions must be measurable. Therefore, the project applies several key performance indicators (KPI).

3.2 Communication target audiences

The following table summarises the main communication activities by stakeholder group (Table 5).

Target	Channel	Message	Activities
ATM industry	Social media, events	New ATM-related tool to increase the efficiency of the European ATM system	Social media posts, presentations at key events (incl. SID)
EASA	Social media, events	New ATM-related tool to increase the safety of the European ATM system	Social media posts, presentations at key events (incl. SID)
Eurocontrol	Social media, events	New ATM-related tool to increase the efficiency of the European ATM system	Social media posts, presentations at key events (incl. SID)
ATM research community	Social media, events	A new concept to build teamwork between the ATCO and the machine with the use of AI	Social media posts, presentations at key events (incl. SID)

[3] IT related domains like digitalisation, automation and AI can be considered as separate ones, but they are obviously linked. For the sake of simplicity in this document we use them together as one category of domains.

Target	Channel	Message	Activities
Researchers from other fields	Website, social media	The application of AI and associated human factor experiments	Website news, social media posts
Civil society	Website, social media	Increasing the capacity of the European airspace with innovative, new tools	Website (static and news pages), social media posts (on project developments)

Table 5. Communications target audiences

3.3 Branding and acknowledgements

The figure below is the AWARE logo (Figure 2).

AWARE

Figure 2. Project logo

In our communication activities we will always use the EU emblem and the SESAR3 JU logo.

Figure 3. EU emblem and SJU logo

3.4 Communication channels

3.4.1 Website

As AWARE started with an ambitious project plan, e.g., holding a workshop in month 4 of the project, it was inevitable to have a website in the early phase of the project. Therefore, in agreement with the SJU, the AWARE website[4] is already operational at https://aware-sesar.eu/

Even in the era of social media, websites still have an essential role. For research projects like AWARE, the website is not only a dissemination tool but also a communication one. The communication-related functions of the AWARE website are:

- news section: the website has a summary of the key events of the project (such as KOM, presentations, etc.),
- workshop organisation support: registration for the AWARE workshops is possible via the website,

[4] More information of the AWARE project is available in the Annexes of this document.

- newsletters: traditional emailing of newsletters is a less common approach, therefore the website also contains the newsletter editions.

3.4.2 Press and media

AWARE type of TRL-2 projects are usually not the main targets of primary traditional media channels (e.g. TV and radio). Therefore, the project will be more active in innovative, newer ways of communication (e.g. social media). However, we still would like to allow traditional media channels to utilise AWARE in their news. Therefore, we will perform five press releases during the project. The press releases will be managed via larger partners (e.g., ANSPs and universities) in the consortium, whose press releases are followed more by media players.

Besides, the project targets special media channels, e.g., the SESAR newsletter, to inform the ATM scientific community of the project's progress. The table below describes the main media activities the project plans to accomplish (Table 6).

Media activity	Date	Link
	Forecasted contribution	
An article "Project of the month" in the "SESAR 3 JU E-NEWS" newsletter	2026	
Press releases on the project[5]	In every six months of the project	*in appendix*
Article in a related magazine, communication channel	2024	*https://ifatca.org/article/aware/*

Table 6. Contribution to external media

3.4.3 Social media

The project is already active on social media. The project has implemented a LinkedIn page[6], which currently has 253 followers. The link to the LinkedIn page is the following: https://www.linkedin.com/company/aware-atm-project

The LinkedIn platform is supposed to be the most active communication tool of AWARE. The plan is to build a community of interested stakeholders and engage in interactive dialogue with them. During this work, the project can build on the LinkedIn community of the predecessor project, AISA. The LinkedIn channel is monitored daily and posts are being made several times a month in order to keep the project visible within the stakeholders. AWARE project partners will actively repost the most important project posts.

[5] The Annexes of this deliverable contains two planned press releases of the project.

[6] The LinkedIn page was already acknowledged by the SJU.

Besides the LinkedIn channel, AWARE has also developed a YouTube channel.[7] The channel can be accessed at https://www.youtube.com/@AWARE-SESARERProject-s8s.

3.4.4 Communication events

AWARE will organise four workshops during the project. (The initial plan was to conduct three workshops but this was increased due to bottom-up cooperations with DARWIN and DIALOG projects.) Although these events are primarily dissemination events, they can also be considered communication activities, as promoting them will raise awareness of the general project activities. The project will also be presented at other conferences and workshops, and these events will provide an opportunity for bilateral communications with interested partners, enabling gathering feedback on the project. Besides, the project aims to attend events, e.g. the EASN event, to promote the project via bilateral talks and promotion tools. As the project has reached the end of the first project year, it worths to present the communication activities already accomplished. (Table 7).

Event	Date	Place	Activities	Responsible
Bounding Box Workshop	14 June 2024	Osijek	presenting the main objectives of AWARE	FTTS
SESAR ER projects workshops, Engage project workshop presentation	19 September 2024, 11 November 2024	Brussels	To liaise with other SESAR projects	FTTS
Communication with other SESAR projects			To liaise with other AI-focused projects	FTTS/SLOT
EASN conference	08 November 2024	Thessaloniki	Flyers, networking	SLOT
SID 2024	12 - 15 November 2024	Rome	stand, poster, networking	FTTS, JKU, TERN, SLOT
ASTRA workshop participation	17 January 2025	online	Information gathering	SLOT
KTE Workshop presentation	30 January 2025	online	AWARE concept	SLOT
Participate/present at the SJU annual conference	18 February 2025	Brussels	information sharing	TERN, LFV, IFATCA

[7] More information on the channel can be found at 3.4.6 (Videos).

Event	Date	Place	Activities	Responsible
Fly AI Forum	22-23 April 2025	EUROCONTROL	networking, information gathering	FTTS, LFV, UPM, SLOT
Aerodays	7-9 May 2025	Warsaw	information gathering	TERN
Participate/present at Airspace World	13-15 May 2025	Lisbon	panel, walking tour, stand	TERN, LFV, ZHAW, FTTS, IFATCA, (SLOT)
EASN conference	14-17 October 2025	Madrid	information sharing at stand	UPM
SID 2025	1-4 December 2025	Ljubljana	networking	FTTS, SLOT, JKU, ZHAW, IFATCA, TERN

Table 7 Past events

Also, the project has communication activities planned for the second project year (until end of May 2026[8]). (Table 8):

Event	Date	Place	Activity	Responsible
Transport Research Arena 2026	18-21 May 2026	Budapest	networking at poster	SLOT
Participate/ present at Airspace World	26-28 May 2026	Lisbon	walking tour, stand (TERN), networking	TERN, UKSATSE

Table 8 Planned events participation

During the last six months of the project, the AWARE consortium will implement a unique communication campaign where each partner will perform a dedicated communications-related activity. (Table 9):

[8] This table does not include the events to be held during the last six months of the project, focusing on CDE activities as those activities are presented in a separate table.

Event	Date	Place	Information to be shared	Responsible
Presentation on the project at the **dedicated lectures** (or as a part of the normal lecture series) towards the students at each university partner	September – November 2026	each university partner's premises	project results, methodology	FTTS, JKU, ZHAW, UPM
Internal communication (workshop, website news)	June – November 2026	partner's premises and online	project results, future implementation possibilities	LFV, UKSTATSE
Host an **open day** on the project in Iceland	June 2026	Iceland	project results, future impact	TERN (UKSATSE, SLOT)
Prepare **communication materials** to support the overall communication process	June – November 2026	partner's premises and online	Project results (final brochure), validation demonstration (video)	SLOT
Hackathon (supported by Engage 2)	October 2026	Zagreb	AWARE results	FTTS
EASN conference	27 – 30 October 2026	Toulouse	Project results (networking)	SLOT
Fly AI Forum 2026	November 2026	Paris (Bretigny)	Project results, demonstration, networking	FTTS, SLOT, IFATCA

Table 9 Communication campaign (subject to further improvement)

Although in 2026 the SESAR Innovation Days will happen in December (7-11 December, Cork, Ireland) and this period is out of the project lifetime, several project partners intend to participate and promote the AWARE results there.

3.4.5 Publications and newsletters

The AWARE consortium will prepare newsletters, e-brochures, paper flyers, and promotional pens mainly to promote a certain event or the project itself (Table 10).

Publications/newsletters/printed material	Description	Date	Link
Newsletters	Summarising the main developments of the project in a particular period	Bi-yearly	https://aware-sesar.eu/news_bit.php?i=5
Printed leaflets and promotion pens	To serve as a tangible tool to direct attention to the website	October 2024	
Final e-project brochure	To summarise the results of the project	June 2026	

Table 10. Printed and static electronic material

3.4.6 Videos

The AWARE project also prepares videos to show the project objectives and results in a more dynamic manner (Table 11). Besides the previously planned teaser and final video, the project also prepares "partner of the month" videos as in each[9] month in 2025 a project partner is introduced.

[9] Note: there are nine partners, so there are some months where partners are not introduced.

Videos	Description	Planning	Link
Project teaser video	Short summary animation video	Developed	https://www.youtube.com/watch?v=uMnRMxikqcA
Tern Systems	Partner introduction video	Developed	https://www.youtube.com/watch?v=PEimtsqZ6V4
UkSATSE	Partner introduction video	Developed	https://www.youtube.com/watch?v=uRVufZRbcTo&t=22s
ZHAW	Partner introduction video	Developed	https://www.youtube.com/watch?v=2dGtuKe5TIM&t=25s
LFV	Partner introduction video	Developed	https://www.youtube.com/watch?v=B_3Ph4vatpA&t=73s
UPM	Partner introduction video	Developed	https://www.youtube.com/watch?v=errZ8hufYjQ
IFATCA	Partner introduction video	Developed	https://www.youtube.com/watch?v=u8dHq7UxFU8&t=175s
AWARE Project at SESAR Innovation Days 2024 in Rome	Event participation video	Developed	https://youtu.be/0evU0-oW74w
Project final summary video	Video summarising the main results	June 2026	

Table 11. Videos

3.5 Communication key performance indicators (KPIs) and success criteria

The following table summarises the communication key performance indicators (Table 12).

Communication action	Communication channel to deploy	Target User Groups	Success indicators	Status[10]
Communication of the project vision, scope and objectives.	**project website**	All groups, including the general public	>1000 visitors to the web during the project lifetime	2000+
Interactive dissemination of the project vision, scope, concepts and on-going results, allowing interested parties to provide feedback and interact with the project team	Project page in **social media** (LinkedIn)	focusing mostly on European ATM community	>100 subscribers to the social media site by the end of the project	253
			>10 posts per 3-month period (in social media)	maintained
Direct communication messages to identified stakeholders	**newsletter, articles, blogs**	ATM researchers, ATM industry, Decision Makers, other researchers	creation of 5 newsletters	3
			>200 recipients of the newsletters	maintained
			5 press releases during the project 1 article in the SESAR e-news	4 press releases
			at least 1 article in a relevant journal, scientific portal	1

Table 12 Communication KPIs and success criteria

[10] Green colour is an indication of 'target reached' in this document.

4 Dissemination

4.1 Dissemination objectives and strategy

The main objective of the AWARE dissemination activities is to make the AWARE project results available to the related scientific communities. In a more detailed manner, the objectives are:

- to ensure that project results and the accumulated knowledge are made available to the stakeholders, researchers and potential end-users,
- cooperate with the technical work packages to provide all the scientific results possible and available to everyone interested, following the general standards in quality, format, and access.
- coordination with other Human-AI Teaming projects (DIALOG, JARDIS, DARWIN, etc..) to ensure availability of the research results for consideration among the projects with similar topic (Representatives of the listed AI projects were invited to the AWARE Advisory Board).

The main reason for dissemination is to ensure that the project results are available to others, first of all for the European research community in a wider sense, and they can build on the research on their follow-up work, or can use them (or at least part of them) in their current or future research work.

The main strategy of AWARE is to identify who the main stakeholders are for dissemination, list the main channels (e.g. scientific presentation, etc.) to access them and match them with the possibilities of the consortium partners. On the basis of this matching process, a detailed planning process is executed along with the same lines as with the communication: to decide on what to disseminate (e.g. deliverables), to whom (e.g. European ATM community), which channel to use (e.g. conference presentations) and identify the related actions (e.g. submission of a paper to SESAR innovation days). The following sections detail a certain element of the above-mentioned rationale.

4.2 Dissemination channels

The table below lists the main dissemination channels (Table 13).

Channel	Objective	Tools	Link	Information to be shared
Journals	To inform the scientific community of the main technical results	I.e. Scientific publications	n.a.	Concept elements and technical achievements
Conferences and events	To inform the scientific community of the main technical results	Presentations and posters	n.a.	Concept elements and technical achievements
Website	To provide a general summary of the project	I.e. Videos, presentations, scientific publications, infographics	https://aware-sesar.eu/	Main elements of the project

Channel	Objective	Tools	Link	Information to be shared
SESAR AI Flagship events Eurocontrol FLY AI Conferences EASA AI Days conferences	To inform the scientific community of the main technical results	Presentations and posters	n.a.	Concept elements and technical achievements

Table 13. Dissemination channels

4.3.1 Open access to scientific publications

The project follows an open-access policy in terms of technical deliverables, presentations and journals. Preference is given to those journals where the article can be freely accessed. The current planning of publications is listed below (Table 14):

Journal/Conference issue	Type	Title	Planned	Responsible	Status
SESAR Innovation Days - poster	poster	AWARE SESAR Project - Can AI Learn to Understand Human Intent ?	2024	FTTS – SLOT	published
SESAR Innovation Days 2025	proceedings paper	A Cloud-Native Lakehouse Architecture for Aeronautical Information Management	2025	JKU	published
Springer Lecture Notes in Networks and Systems series (ICIPS 2025 Proceedings)	proceedings paper	Aeronautical Information Management	2026 (TBD)	JKU	presented
15th EASN International Conference on Innovation in Aviation & Space Towards Sustainability Today and Tomorrow. Aerospace Special issue	paper	Insights into Conflict Detection & Resolution Integration in AI-Enhanced Air Traffic Control Systems	2026 (TBD)	UPM, FTTS	published
Transport Research Arena (TRA2026),	poster	Advancing Human-AI Teaming in Air Traffic Management: Insights	2026	SLOT	accepted

Journal/Conference issue	Type	Title	Planned	Responsible	Status
Proceedings of the Conf.		from TRL Progression in the AISA and AWARE Exploratory Research Projects			
Transport Research Arena (TRA2026), Proceedings of the Conf.	proceedings paper	Advancing Human-AI Teaming in Air Traffic Management: Insights from TRL Progression in the AISA and AWARE Exploratory Research Projects	2026	SLOT	accepted
ICCAS2006	proceedings paper	A joint cognitive engineering Systems lens for human autonomy teaming	2026	IFATCA, ZHAW	submitted
ATRD	proceedings paper	Automation, Human factors, and decision support systems	2026	ZHAW	submitted

Table 14 Scientific papers, publications and presentations

4.3.2 Dissemination events

The AWARE project carries out own dissemination events as well. Originally three workshops were planned but as the project had two cooperative workshops with other SESAR projects, the new goal is to accomplish four workshops (Table 15).

Event Name	Event Date	Place	Organiser(s)	Importance for the project
CONOPS Workshop	24 September 2024	On-line	FTTS/SLOT	Information exchange with the European ATM community
AWARE - DARWIN Workshop	7 May 2025	On-line	FTTS/SLOT	Liaison with other SESAR AI projects
AWARE - DIALOG Workshop	30 May 2025	On-line	FTTS/SLOT	Liaison with other SESAR AI projects

Event Name	Event Date	Place	Organiser(s)	Importance for the project
Final workshop	November 2026	Hybrid/ Online	FTTS/SLOT	Information exchange with the European ATM community

Table 15 Workshops organised by the AWARE project

The table below (Table 16) summarises the planned participation at external dissemination events.

Event Name	Type	Title	Event date/place	Responsible	Status
Airspace World 2025 panel	panel	The role of AI in supporting air traffic control	13-15 May 2025 Lisbon	FTTS, TERN, LFV, IFATCA, ZHAW	presented
Eastern Switzerland Technology Day	presentation	Multimodal AI for Task Recognition in Air Traffic Control'	17 June 2025, Buchs	ZHAW	presented
EASN Conference	presentation	Insights into Conflict Detection & Resolution Integration in AI-Enhanced Air Traffic Control Systems	14-17 October 2025 Madrid	UPM	presented
SESAR Innovation Days	presentation	A Cloud-Native Lakehouse Architecture for Aeronautical Information Management	1-4 December 2025 Bled	JKU	presented

Event Name	Type	Title	Event date/place	Responsible	Status
SESAR Innovation Days	panel	Plenary Session 1 - Unlocking innovation through the new service delivery model	1-4 December 2025 Bled	FTTS, TERN	presented
SESAR Innovation Days	panel	Plenary Session 2 - How to make human-machine teaming a reality?	1-4 December 2025 Bled	IFATCA	presented
ICIPS2025	presentation	Towards Data Analytics Using Contextualized Knowledge Graphs	14 December 2025 Luxor	JKU	presented
ICCAS2026	presentation	A joint cognitive engineering system lens for human autonomy teaming	27-30 October2026, Sapporo	ZHAW, IFATCA	submitted
ATRD	presentation	TBD	15-19 June 2026 Delft	ZHAW	submitted

Table 16 Dissemination conferences and workshops

4.4 Dissemination target audiences

The following is the listing of the project's target audiences (Table 17).

Target	Channel	Benefits from the project	Expected feedback
SJU	Events, email[11], website	To gain more information on the possibilities of introducing AI in ATM	Tailored requests on fine-tuning future work, deliverables
Researchers	Journals, events, website	To gain information on the AWARE concept and results	Giving recommendations on overcoming likely or present obstacles
ATM industry	Events, email	To observe the results and obstacles of the AWARE concept at TRL-2 status	Clarifying the main industrial interests towards such developments
Policymakers	Events, email	To gain more information on the possibilities, benefits and constraints of introducing AI in ATM	Listing the requirements for such a system (for TRL-9 level)
Others (incl. general public)	Website	To understand the related developments	Concerns and lessons learnt from other fields of life

Table 17 Dissemination target audiences

4.5 Dissemination KPIs and success criteria

The dissemination KPI table presents key performance indicators (Table 18).

[11] E-mail means in this case that there can be bilateral information exchange on particular issues where technical results are attached.

Dissemination action	Channel to deploy	Target User Groups	Success indicators	Status
Focused dissemination of research outcomes & achievements.	Scientific publications in journals, focusing in open access ones	R&I and ATM industry community & key stakeholders Europewide	at least **5 scientific publications** in scientific journals	5[12]
	Presentations at scientific conferences and other relevant workshops		at least **5 presentations** in key events, incl. scientific conferences	7
Interactive communication with target experts on research plans and initial results	dedicated workshops for gathering feedback from experts	Advisory Board, other AI projects, SJU and other invited researchers	at least **2** discussion-oriented **workshops** during the project with at least **20 participants** each	2+1 (CONOPS, DARWIN, DIALOG - 30 May), CONOPS participation: 40+
Direct dissemination of project achievements	Organisation of a final project workshop during the last 6 months of the project	All identified stakeholder types will be invited to the final event, including general public	at least **40 participants** at the **final event**	

Table 18 Dissemination KPIs and success criteria

[12] Including the TRA2026 paper (accepted).

5 Exploitation

5.3 Project exploitable results

The project is expected to bring the AWARE solution concept to TRL-2 level. This validated concept and the tools used for testing can ground subsequent research and development activities.

5.4 Exploitation strategy and objectives

The exploitation in the AWARE project can be direct and indirect. Direct exploitation means that the consortium partners will pursue to utilise the AWARE results for their own benefits. The primary exploitation partners in the consortium are TERN, LFV and UKSATSE.

- TERN plans to further develop some of the components of the AWARE solution and investigate the possibility of integrating them to its product portfolio, such as the AI Assistant Interface.
- LFV and UKSATSE as ANSPs are assessing what benefits the AI-driven system can generate for them and what obstacles they have to overcome when implementing them.
- The universities try to enrich their research knowledge in particular fields and utilise the newly gained capabilities in subsequent research and education work.
- IFATCA tries to understand what benefits and disadvantages an AWARE-like system will create for ATCOs.
- SLOT plans to develop its knowledge in air traffic management and CDE activities.

In the case of a low TRL project, indirect exploitation is probably more important. If the AWARE dissemination and communication activities are done correctly, many ATM and AI researchers will be informed about AWARE, and the results will be available to them. It is also important to prove that after the implementation, the system will maintain at least the same safety levels as previously. Consequently, they can build on the AWARE results and advance on the TRL scale. This will be achieved by introducing artificial situational awareness as a foundation for ATC systems; a broad range of automation products currently deemed unreliable becomes eligible for integration with the system. In this way, the reliability of a situational awareness system has a multiplicative effect, which will be seen as an increase in all the SESAR KPIs. To support this process, there will be some exploitation-oriented meetings. The consortium will ensure that the lessons learned during the project might contribute to creating new guidelines and measures in the field and/or the fine-tuning of the current ones. While all the dissemination and communication activities serve the exploitation goals simultaneously, there are planned events that are more closely related. The Advisory Board also advances the exploitation-related effort, as many of the Advisory Board members are working in industry or in organisations which might be able to use the results of AWARE in further development.

The following is a list of planned exploitation activities Table 19):

Project outputs	Area impacted	Action	Outcomes	When
The AWARE solution	Capacity of the Air Navigation System Providers	Further planning and product development steps are needed	A TRL-9 ASA product	2030

Table 19 Project internal exploitation of results

5.5 Exploitation of results

The following table shows the conducted or planned exploitation activities of the project (Table 20.)

Activity	Responsible	Timing/Achieved
Airspace World 2025 presentations and meetings	FTTS, TERN, LFV, IFATCA, SLOT	discussions with several industrial stakeholders in Zurich (13 - 15 May 2025)
AWARE DARWIN Workshop (incl. Honeywell, Pipistrel) May 2025	ALL	Informing industrial participants on the AWARE objectives and foreseen results
AWARE - DIALOG Workshop (incl. DeepBlue,DFS, DSNA) May 2025	All	Informing industrial participants on the AWARE objectives and foreseen results
Airspace World 2026 presentations and meetings	TERN	May 2026
Joint Cognitive Human Machine System Group	IFATCA	Continuous
EASA cooperation	FTTS	2026

Table 20 External exploitation of results

5.6 Data protection strategy

The project will ensure that the data used in the project will be anonymised. GDPR will be applied in all activities handling human-related information as detailed in the Data Management Plan (DMP).

5.7 IPR management

IPR Management will be performed following the Grant Agreement principles. Background IPR shall remain on the owning beneficiary. Access Rights (rights of use of results or background) will be provided by the beneficiaries to the other beneficiaries for the implementation of their own tasks under the action in the terms determined by the owning beneficiary. Results are owned by the beneficiary that generates them.

6 Overview of communication and dissemination activities

The following table summarises the main communication and dissemination activities of the project (Table 21). The 'Results' column indicates the achievement by the time of the submission of this deliverable.

Activity	Channel	Tool	Objective	Target audience	KPIs	Success criteria	Results
Web visits	Website	Website Analytics	To inform more stakeholders	All stakeholder groups	#of visits.	>1000	2000+
Presence in journals (online & printed).	Press and media	Press releases	To inform the general public	All stakeholder groups	# of press releases	5	4
Social Media	# of followers # of posts	LinkedIn YouTube	To be engaged with researchers	ATM research and industry	# of followers # of posts	100 100	253 54
Organising own events	Personal and online (or hybrid)	Work-shop	To disseminate information to the ATM research community	Researchers and developers	# of participants	80	80
Publicising results	Academic publications	Scientific journals and conference proceedings	To disseminate information to the ATM research community	Researchers and developers	# of published scientific publications.	5	5

Table 21 Overview of communication and dissemination Activities

7 Advisory Board

As indicated previously, the AWARE project has an advisory board. The management of the AB is within the framework of WP3 (CDE activities).

The following is the terms of reference of the AB:

The role of the AWARE Advisory Board (AB) is to support the AWARE SESAR Exploratory Research project in reaching its goals by giving feedback on the planned activities and main research objectives. This feedback on the activities is performed via the following means:

- participating in the AWARE workshops, if possible,
- taking part in the AWARE Advisory Board meetings (two AB meetings are foreseen),
- when possible and asked, giving feedback on main draft deliverables, which has outstanding importance in reaching the project goals.

Advisory Board members are invited and empowered to give feedback on the activities when they consider it essential. They are encouraged to share the project results with the air transport community, influencing and informing others about the AWARE project. They are also requested to inform the AWARE team (especially the coordinator and the dissemination leaders of the project) of other related results and events that might be interesting for AWARE.

The AWARE Advisory Board meetings will be conducted online.

The primary contact persons for the AWARE AB arrangements:

Tomislav Radisic, AI project coordinator, tradisic@fpz.unizg.hr

Roland Guraly, AWARE WP leader for communication and dissemination activities, roladnguraly@slotconsulting.hu

Andrej Kocsis, communication and dissemination manager, andrejkocsis@slotconsulting.hu

AB membership status:

The AWARE consortium made significant efforts to establish an AB which is well covering the possible stakeholders. Currently, the AWARE AB has 21 members. The list below shows the list of the AB members and their attendance at the first AB meeting on the 1st of April 2025. Taking into account that most of the AB members are immersed in their primary activities, the 2/3 show-up ratio can be considered a success.

Name	organisation	AI project and/or relevant position	1st AB meeting
Ms. Cristina Barcena	ENAIRE	iTEC evaluation manager	1
Mr. Ignacio Moran Seijas	ENAIRE	aeronautical engineer	1
Mr. Mobyen Uddin Ahmed	MDU	former ARTIMATION coordinator	1
Mr. Rubén Rodríguez Rodríguez	CRIDA	former TAPAS project	
Mr. Erik-Jan van Kampen	TU-Delft	former MAHALO project	1
Mr. Maik Friedrich	DLR	human factors	1
Mr. Jason Gauci	UM	ASTRA coordinator	
Mr. Jose Manuel Cordero	CRIDA	PEARL project coordinator	
Mr. Billy Josefsson	Space2ground	former AWARE cons. member	1
Mr. Markus Stumptner	University of South Australia	Australia, AI Res centre director	1
Ms. Angela Vozella	CIRA	JARVIS, etc.	
Mr. Yannick Migliorini	DSNA	DIALOG	1
Prof. Emre Koyuncu	ITU ARC	AI4HyDrop technical leader	
Mr. Philippe Uséo	ATCEUC	French ATCO trade union	1
Teodor S. Simiganoschi	ISAVIA	Technical expert	1
Ms. Emina Samardzic	Pipistrel	Darwin project	1
Ms. Branka Subotić	Skyguide	Head of Human Factors	1
Mr. Riccardo Patriarca	Sapienza University	Resilience engineering	
Prof. Arie Adreiaensen	TU Delft	human-machine interaction researcher	1
Prof. Toni Wafler	FHNW	human factors researcher	
Mr. Costas Christoforou	IFATSEA	IFATSEA Director Europe	1

Table 22 AWARE Advisory Board

8 List of acronyms

Acronym	Description
AI	Artificial Intelligence
ASA	Artificial Situational Awareness
ANSP	Air navigation service provider
ATCO	Air traffic control officer
ATM	Air traffic management
CDE	Communication, Dissemination, Exploitation
HMI	Human-Machine Interface
KPI	Key performance indicator
SESAR	Single European Sky ATM research
SESAR 3 JU	SESAR 3 Joint Undertaking
TRL	Target Readiness Level

Table 23 List of acronyms

9 Guidelines

9.1 Indication of funding

In line with the Grant Agreement, in communication and dissemination activities, the project will:

- Use the EU emblem (no need for prior approval from the SESAR 3 JU), downloadable from here: https://europa.eu/european-union/about-eu/symbols/flag_en
- Use the "Supported by SESAR 3 Joint Undertaking" logo, downloadable from here: https://www.sesarju.eu/node/3406#sesar-logos7694
- Use the following reference in all communications, dissemination and exploitation material: This project has received funding from the SESAR 3 Joint Undertaking (JU) under grant agreement No [101167442]. The JU receives support from the European Union's Horizon Europe research and innovation programme and the SESAR 3 JU members other than the Union.
- Indicate that the activity reflects only the author's view and that the SESAR 3 JU is not responsible for any use that may be made of the information it contains.

9.2 Disclaimer excluding SESAR 3 JU responsibility

The communication and dissemination activities will always indicate that it reflects only the author's view and that the SESAR 3 JU is not responsible for any use that may be made of the information it contains.

When displayed together with another logo, the SESAR 3 JU logo and the EU emblem will have appropriate prominence.

Annex I – Press releases and SESAR portal news

The AWARE consortium plans to disseminate five press releases altogether during the project duration. By the time of the submission of the current document, four press releases were published :

- AWARE project – let the machine understand what the air traffic controllers are doing
- a press release in Spanish – disseminated by UPM[13]
- AWARE project – first results of air traffic controller – AI cooperations
- AWARE project – Road towards results validation

1. General press release

AWARE project – let the machine understand what the air traffic controllers are doing

By completing the conceptual framework, the AWARE project reached an important milestone. By publishing the Concept of Operations and the Functional Requirements documents, the AWARE project has closed its planning phase and will start the development of the AWARE solution.

The 'Achieving Human-Machine Collaboration with Artificial Situational Awareness (AWARE)' project started on the 1st of June 2024. The University of Zagreb coordinates the project; its members are IFATCA, LFV, Slot Consulting, TERN Systems EHF, UkSATSE, UPM, JKU Linz, and ZHAW School of Engineering. Building on the results of the previous AISA project, AWARE will develop and test an AI Assistant Application providing adaptable human-centric support to enhance air traffic controllers' performance and reduce their workload despite high task complexity. This will be achieved by development of human-machine collaboration environment that relies on recognition of ATCO intent, ATCO situation awareness (compared to machine situation awareness) and ATCO mental load. ATCO's intent will be analysed by tracking their attention and human-machine interactions and comparing them to the tasks that need solving as assessed by the artificial situational awareness system. Adaptable support will then be provided either in solving the task they are currently focused on or solving an unrelated task autonomously. The duration of AWARE will be two and half years; the closing date is 30 November 2026.

The SESAR Joint Undertaking and the European Commission fund the project.

About the SESAR 3 Joint Undertaking

The SESAR 3 Joint Undertaking is an institutionalised European private-public partnership set up to accelerate through research and innovation the delivery of the Digital European Sky. The partnership is developing cutting-edge technological solutions to manage conventional aircraft, drones, air taxis and vehicles flying at higher altitudes. The SESAR 3 JU partnership brings together the EU, EUROCONTROL, and more than 50 organisations covering the entire aviation value chain, from airports, airspace users of all categories, air navigation service providers, drone operators and service providers, the manufacturing industry and scientific community. The partnership also works closely

13 https://www.etsiae.upm.es/index.php?id=737&tx_news_pi1%5Bnews%5D=707&tx_news_pi1%5Bcontroller%5D=News&tx_news_pi1%5Baction%5D=detail&cHash=fb9c3c17680991610400b5b1860e1214

with the regulatory and standardisation bodies, notably EASA and EUROCAE, as well as key stakeholders, such as professional staff organisations, the space and military communities and global partners. www.sesarju.eu

More information from the project can be found at the website: www.aware-sesar.eu or directly from the coordinator from Professor Tomislav Radisic: tradisic@fpz.unizg.hr

https://www.prlog.org/13100141-aware-project-let-the-machine-understand-what-the-air-traffic-controllers-are-doing.html

2. Press release in Spanish

UPM disseminated a press release at their website.

Notas de prensa

26.09.2024

GINA participa en dos proyectos europeos SESAR de investigación en gestión del tráfico aéreo

Investigadores de la Universidad Politécnica de Madrid pertenecientes al Grupo de Investigación en Navegación Aérea participan en los proyectos AWARE y ATMACA.

La digitalización se impone en todos los campos en los que la tecnología está presente, también en el ámbito de la gestión del tráfico aéreo. El proyecto AWARE *(Achieving human-machine collaboration with artificial situational awareness)* y el proyecto ATMACA *(Air traffic Management and Communication Over ATN/IPS)*, pertenecientes al programa europeo SESAR, buscan desarrollar e implementar nuevas tecnologías con el fin de mejorar la gestión del tráfico aéreo (ATM, de sus siglas en inglés). En estas investigaciones, financiadas por *SESAR Joint Undertaking* en el marco del programa Horizontes de la UE 2020, participan investigadores del Grupo de Investigación en Navegación Aérea (GINA) de la Universidad Politécnica de Madrid (UPM).

Proyecto AWARE

El nuevo escenario existente en los centros de control del tránsito aéreo, donde la automatización va ganando terreno, pasando de un sistema centrado en el controlador a un sistema automatizado que le apoya y asiste, conlleva una evolución tanto de las tareas como de la conciencia situacional del controlador. Esta última alude a la percepción que tiene el profesional del espacio aéreo bajo su control y las aeronaves que operan en él con respecto al ambiente dinámico del vuelo, lo que le permite adelantarse a lo que va a suceder y tomar decisiones acertadas para gestionar eficientemente el tráfico aéreo.

AWARE *(Achieving human-machine collaboration with artificial situational awareness)* es la continuación del proyecto AISA, en el que ya participó GINA, y tiene como objetivo conseguir la colaboración ser humano–máquina mediante un sistema de inteligencia artificial que sea consciente de la labor humana. "El proyecto pretende desarrollar una aplicación de IA que actúe como asistente de los controladores aéreos, de manera que permita la automatización de tareas y la reducción de la carga de trabajo (incrementando los niveles de eficiencia, capacidad y seguridad existentes)", explica Javier Alberto Pérez Castán, investigador de GINA.

El proyecto AWARE está coordinado por la Facultad de Ciencias del Transporte y del Tráfico de la Universidad de Zagreb y completan el consorcio europeo otras cuatro universidades: Johaness Kepler Universidad de Linz, Universidad de Ciencias Aplicadas de Zurich, y Universidad Politécnica de Madrid (UPM); tres proveedores de servicios de navegación aérea, *Tern Systems*, *Ukrainian State Air Traffic Services Enterprise* y *Luftfartsverket*; una pyme: *Slot Consulting*, y la principal asociación de controladores aéreos mundial IFATCA**.**

La participación de la UPM se concreta en dos paquetes de trabajo, responsabilidad de GINA. El primero de ellos consiste en desarrollar una herramienta de detección y resolución de conflictos que de soporte al controlador. Esta herramienta tiene como finalidad dar validez a la inclusión de un conjunto de herramientas que den soporte en la realización de tareas al controlador aéreo. En el segundo, GINA es el cargado de liderar un análisis de amenazas para los distintos niveles de automatización que se pretenden alcanzar con la integración de la IA con el controlador aéreo, así como sus riesgos y la propuesta de medidas de mitigación.

Proyecto ATMACA

El proyecto ATMACA *(Air Traffic Management and Communication over ATN/IPS)* se centra en las comunicaciones aire-tierra y la gestión del tráfico aéreo. Utilizando la red de telecomunicaciones aeronáuticas (ATN), basada en el conjunto de protocolos de Internet (IPS), el proyecto abarca todas las fases del vuelo. "Su objetivo es desarrollar una solución innovadora que permita una comunicación aire-tierra eficaz, fluida e interoperable, así como un entorno digital para la monitorización y gestión de vuelos", sostiene XXXXXXX

Las principales metas a alcanzar incluyen: la integración aire-tierra, facilitando la integración global de redes de comunicación actuales y futuras y apoyando la iniciativa de innovación del Plan Maestro de ATM Europeo 2020 de SESAR; la comunicación Datalink basada en IP**,** introduciendo la gestión de movilidad a nivel de aplicación para ATN y usando los equipos comerciales disponibles, y el desarrollo de la interfaz humano-máquina de próxima generación, procesando datos de alta calidad y facilitando las interacciones con aplicaciones y servicios aeronáuticos.

La solución será validada mediante simulaciones y pruebas en tiempo real. La responsabilidad de la UPM en ATMACA se centra en el desarrollo e implementación de servicios de tránsito aéreo (ATS) soportados por el nuevo protocolo de comunicaciones IP propuesto por el proyecto. La UPM diseñará el intercambio de mensaje digitales ATS que formen parte de las aplicaciones DLIC (*Datalink Initiation Capability*), CPDLC (*Controller Pilot Data Link Communication*), *Digital Strip, Air Traffic Control Clearances* (ACL), y GRO (*Green Route Operations*). Las aplicaciones DLIC permiten la movilidad y la continuidad del servicio durante el *roaming* dentro de la red de comunicaciones aeronáuticas al proporcionar la información necesaria para facilitar la gestión de la comunicación por enlace de datos. El CPDLC permitirá el intercambio de mensajes digitales entre piloto y controlador en operaciones de rutina en ruta donde la comunicación de voz se considere ineficiente o innecesaria. La función Las autorizaciones de control (ACL) permiten intercambios autorizaciones e instrucciones del ATC y los mensajes GRO permitirán optimizar las trayectorias de las aeronaves para un mínimo impacto medioambiental.

El consorcio de este proyecto incluye universidades y socios industriales. Las cuatro universidades son: la universidad turca *Eskisehir Teknik Üniversitesi* (que coordina el proyecto), la UPM, *Monfort University* (Reino Unido) y *École Nationale de L'Avition Civile* (Francia), mientras que entre los socios industriales se encuentran: un centro de investigación italiano (Deep Blue SRL), la compañía aérea turca (Turkish Airlines), y un proveedor de servicios de tránsito aéreo español (Saerco SL).

Durante los dos años y medio de duración del proyecto, se incorporarán al mismo varios estudiantes de la Escuela Técnica Superior de Ingeniería Aeronáutica y del Espacio (ETSIAE), a través de prácticas curriculares y extracurriculares. "Lo harán con un doble objetivo, acercarse a las líneas de investigación tanto de GINA como del departamento de Sistemas Aeroespaciales, Transporte Aéreo y Aeropuertos (SATAA) y, en el caso de los estudiantes de los últimos años de grado y máster, además tener la oportunidad de trabajar en un campo relacionado con su ámbito de estudio", afirman desde GINA.

Gabinete de Comunicación ETSI Aeronáutica y del Espacio,
Universidad Politécnica de Madrid

Tel. 91 0675501 comunicacion.aeroespacial@upm.es **@**aeroespacialUPM

AWARE 3rd press release

AWARE project – first results of air traffic controller – AI cooperations

By: Slot Consulting Ltd.

BUDAPEST, Hungary - Nov. 8, 2025 - *PRLog* -- The AWARE team – comprising FTTS, ZHAW, LFV, TERN, and UPM – held a workshop at LFV's Research and Development Centre in Malmö to test and gather feedback on the first prototype of the Artificial Situational Awareness (ASA) system. Nine air traffic controllers (ATCO) from UkSATSE, IFATCA, and LFV participated in the session, providing valuable insights into how the ASA system supports air traffic management, particularly in areas such as ATCO-AI collaboration, workload, trust, and situational awareness. The demonstrations, conducted with TERN's Polaris ATM system and Orion simulator, showcased AI components developed by FTTS and UPM.

Controllers evaluated the system in both advisory and execution modes, exploring how AI can assist in service quality, transfer tasks, and conflict detection and resolution. They expressed strong interest in AI collaboration, noting a current preference for the advisory mode to maintain operational control while building trust.

The AWARE team will use this feedback to further refine the ASA system as it moves towards the validation phase.

The *Achieving Human-Machine Collaboration with Artificial Situational Awareness (AWARE)* project, launched on 1 June 2024, is coordinated by the University of Zagreb with partners IFATCA, LFV, Slot Consulting, TERN Systems, UkSATSE, UPM, JKU Linz, and ZHAW. Building on the AISA project, AWARE aims to develop and test an AI Assistant Application that provides adaptive, human-centric support to enhance air traffic controllers' performance and reduce workload in complex environments.

The system will recognise ATCO intent, mental load, and situation awareness, offering tailored assistance or autonomously handling tasks when appropriate. The project runs until 30 November 2026 and is funded by the SESAR Joint Undertaking and the European Commission.

The SESAR 3 Joint Undertaking drives research and innovation to deliver the Digital European Sky, uniting over 50 aviation partners across Europe. Learn more at www.sesarju.eu.

Contact
Dr. Roland Guraly

***@slotconsulting.hu

https://www.prlog.org/13109814-aware-project-first-results-of-air-traffic-controller-ai-cooperations.html

AWARE Press release 4 – Dry Run tests completed

AWARE project – Road towards results validation

The AWARE SESAR project successfully completed its dry run tests. The sessions took place from 10 to 13 February 2026 at the LFV R&D Centre in Malmö, Sweden. These sessions focused on final system setup, checking and verifying that all components are integrated and functioning as intended. Together with operational experts, the team reviewed the project scenarios to ensure readiness for the next phase.

The 'Achieving Human-Machine Collaboration with Artificial Situational Awareness (AWARE)' project started on the 1st of June 2024. The University of Zagreb coordinates the project; its members are IFATCA, LFV, Slot Consulting, TERN Systems EHF, UkSATSE, UPM, JKU Linz, and ZHAW School of Engineering. Building on the results of the previous AISA project, AWARE will develop and test an AI Assistant Application providing adaptable human-centric support to enhance air traffic controllers' performance and reduce their workload despite high task complexity. This will be achieved by development of human-machine collaboration environment that relies on recognition of ATCO intent, ATCO situation awareness (compared to machine situation awareness) and ATCO mental load. ATCO's intent will be analysed by tracking their attention and human-machine interactions and comparing them to the tasks that need solving as assessed by the artificial situational awareness system. Adaptable support will then be provided either in solving the task they are currently focused on or solving an unrelated task autonomously. The duration of AWARE will be two and half years; the closing date is 30 November 2026.

The SESAR Joint Undertaking and the European Commission fund the project.

About the SESAR 3 Joint Undertaking

The SESAR 3 Joint Undertaking is an institutionalised European private-public partnership set up to accelerate through research and innovation the delivery of the Digital European Sky. The partnership is developing cutting-edge technological solutions to manage conventional aircraft, drones, air taxis and vehicles flying at higher altitudes. The SESAR 3 JU partnership brings together the EU, EUROCONTROL, and more than 50 organisations covering the entire aviation value chain, from airports, airspace users of all categories, air navigation service providers, drone operators and service providers, the manufacturing industry and scientific community. The partnership also works closely with the regulatory and standardisation bodies, notably EASA and EUROCAE, as well as key stakeholders, such as professional staff organisations, the space and military communities and global partners. www.sesarju.eu

More information from the project can be found at the website: www.aware-sesar.eu or directly from from Dr. Roland Guraly CDE manager.

AWARE news in the SESAR Portal:

Advanced experiments in AI-driven air traffic control get underway in Zagreb

The Faculty of Transport and Traffic Sciences at the University of Zagreb is conducting advanced experiments in its Air Traffic Control Laboratory as part of the SESAR JU research project **AWARE (Achieving Human-Machine Collaboration with Artificial Situational Awareness)**,

The project explores how an **AI assistant** can support air traffic controllers in their daily tasks by monitoring airspace and interpreting controllers' goals and intentions. Using the concept of artificial situational awareness, the system adapts its support to match the situation and the controller's needs. Current experiments focus on collecting data essential for training the assistant.

International Collaboration

This phase of the experiments involves **20 Ukrainian air traffic controllers**, who participate throughout September 2025, with groups of five taking part each week. The research is led by doctoral candidate **Kristina Samardžić**, in collaboration with doctoral candidate **Ivan Tukarić**, and supported by experts from the University of Zurich and **Tern Systems**.

Cutting-Edge Technology

The experiments are conducted on **Polaris**, Tern Systems' state-of-the-art air traffic management platform, using scenarios set in simulated Swedish airspace. Researchers are gathering data on traffic situations, system interactions, controller intentions, biometrics, and more. These insights will be used to develop machine learning models capable of recognizing controllers' objectives and offering real-time operational support.

https://www.sesarju.eu/news/advanced-experiments-ai-driven-air-traffic-control-get-underway-zagreb

AWARE CONOPS Workshop

The AWARE consortium will organise an **online workshop** on the draft Concept of Operations of the Project on September 24th from 13.00 (CET). During the workshop, there will be a presentation on the project's objectives, the draft CONOPS, and Polaris, Tern Systems' ATM solution that will be used in AWARE. At the end of the workshop, participants will have a chance to raise questions on the project. Please register here for the event: link

https://www.sesarju.eu/node/4736

Annex II – Events

1. Information on the first AWARE Workshop

SESAR partners were organising an online **workshop** to present the draft Concept of Operations of the Project. Organised by FTTP and SLOT the workshop aimed to present the draft Concept of Operations of the Project and have a discussion on it. The project was a great success with 47 participants (initial target was at least 20 participants). The workshop was organised in an interactive manner, several short survey were conducted and short Q&A sessions were performed.

The project had a registration page on the website and was promoted in LinkedIn and in other channels.

The workshop-related information can be found at: https://aware-sesar.eu/news_bit.php?i=4

The initial communication on the workshop at the website:

ACHIEVING HUMAN-MACHINE COLLABORATION WITH ARTIFICIAL SITUATIONAL AWARENESS

AWARE CONOPS online workshop

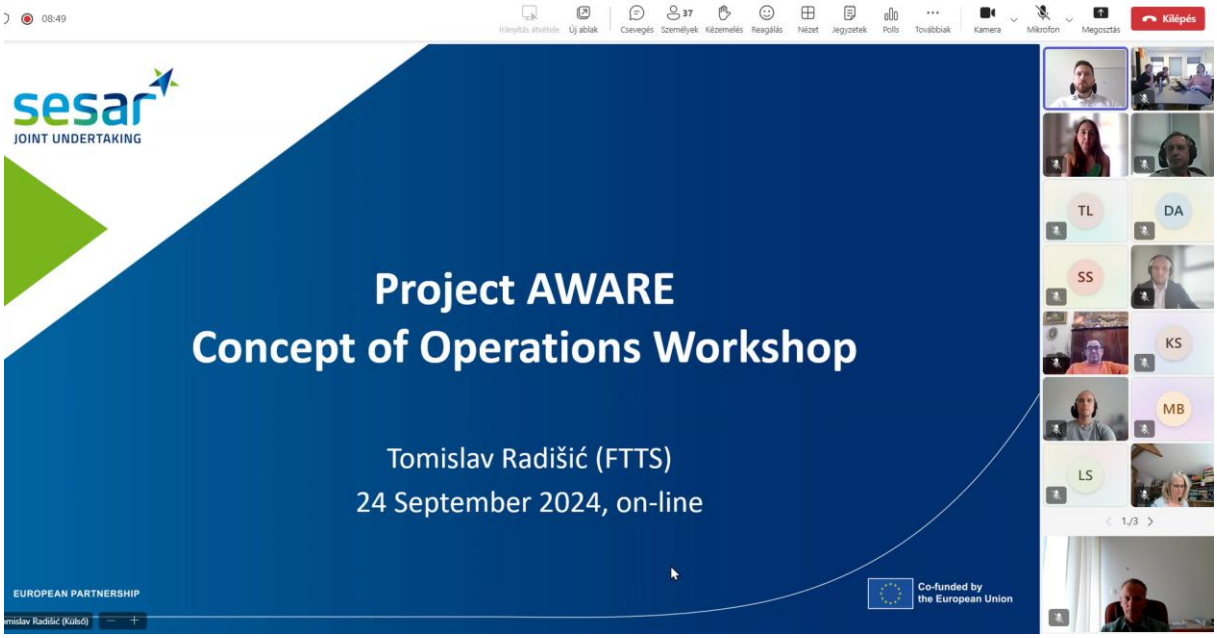
24 September 2024 13.00 – 15.00

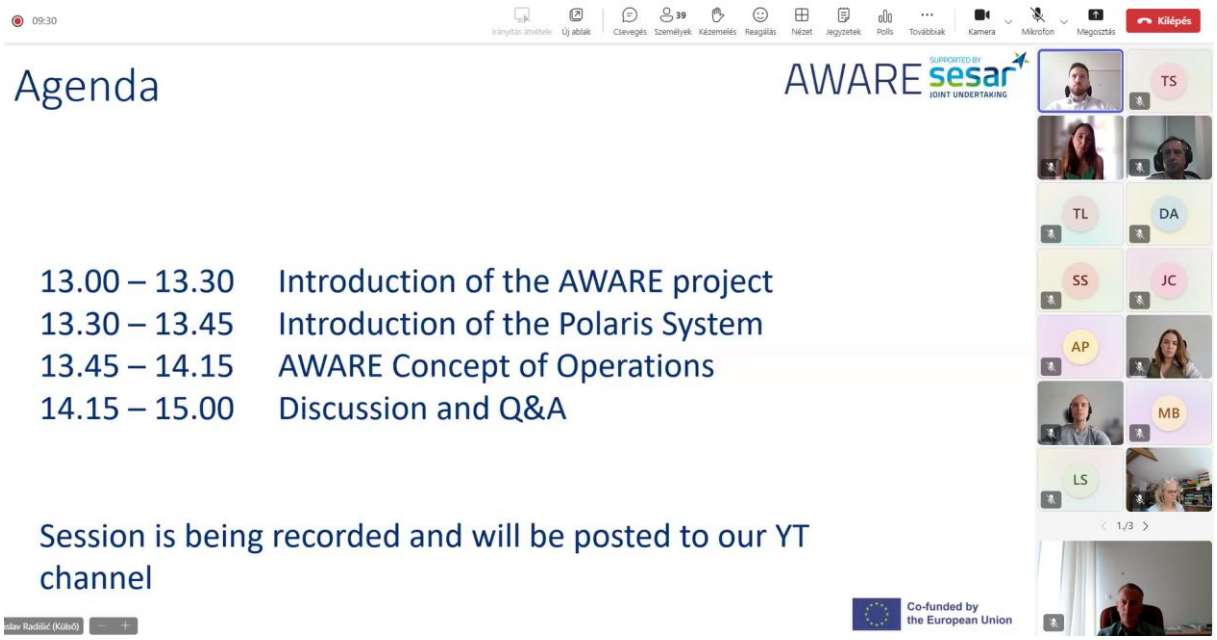
The SESAR exploratory research project, AWARE consortium will organise an online workshop on the draft Concept of Operations of the Project on September 24th from 13.00 (CET). During the workshop, there will be a presentation on the project's objectives, the draft CONOPS, and Polaris, Tern Systems' ATM solution that will be used in AWARE. At the end of the workshop, participants will have a chance to raise questions on the project. Register[14] by 24 September: register.

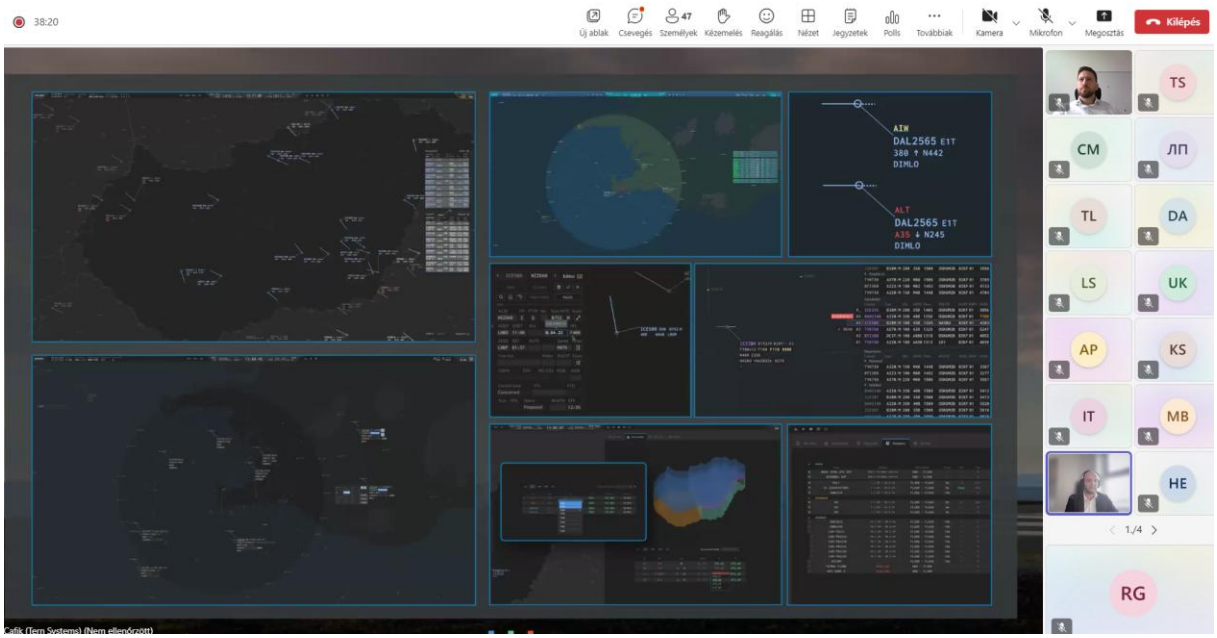
[14] Registration link is closed.

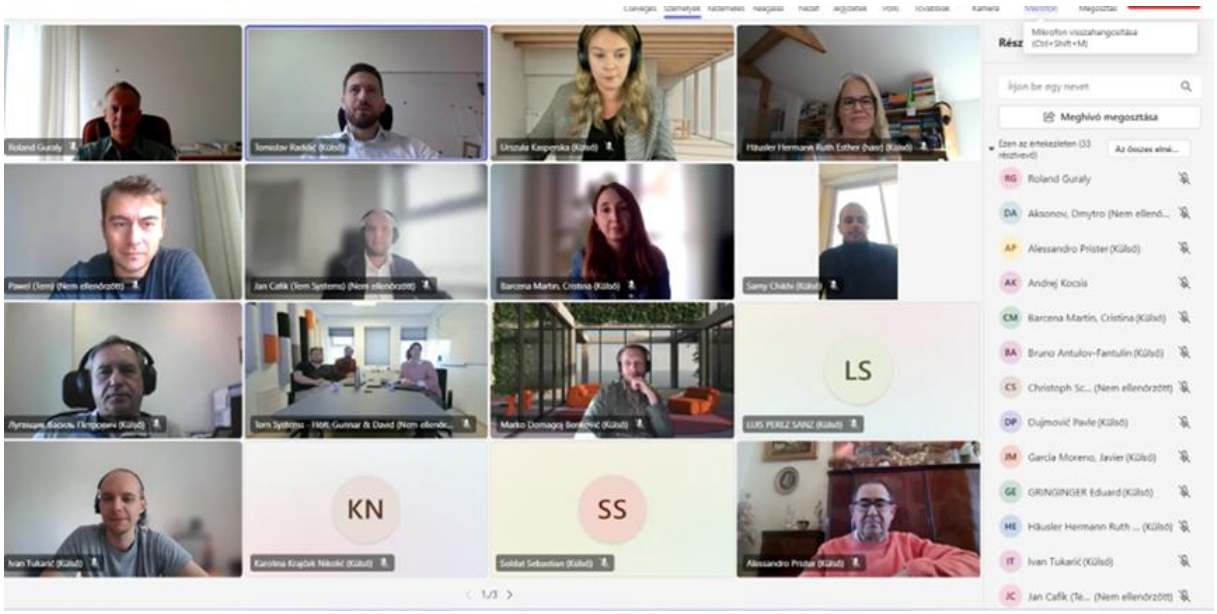
2. Save the date – visual template

3. Screenshots from the workshop









4. The AWARE and DARWIN SESAR projects held a joint bilateral workshop

17 May 2025, the AWARE and DARWIN SESAR projects held a joint bilateral workshop to exchange knowledge and explore collaboration opportunities in the field of AI for aviation.

AWARE focuses on supporting air traffic controllers through trustworthy, explainable AI systems that assist with decision-making, task management, and human-AI collaboration.

DARWIN targets pilots, developing advanced AI tools to monitor pilot state and workload, and to ensure safe and dynamic interaction between human and automation.

Key topics included dynamic task allocation, integration of systems such as POLARIS (TERN Systems) and ASA on the AWARE side, and DARWIN's approach to human-machine teaming. The session highlighted shared challenges and opportunities for further collaboration.

Presenters:

- Tomislav Radišić,
- Jakub Lucký
- Gunnar Magnússon
- Michal Košík
- Celina V.

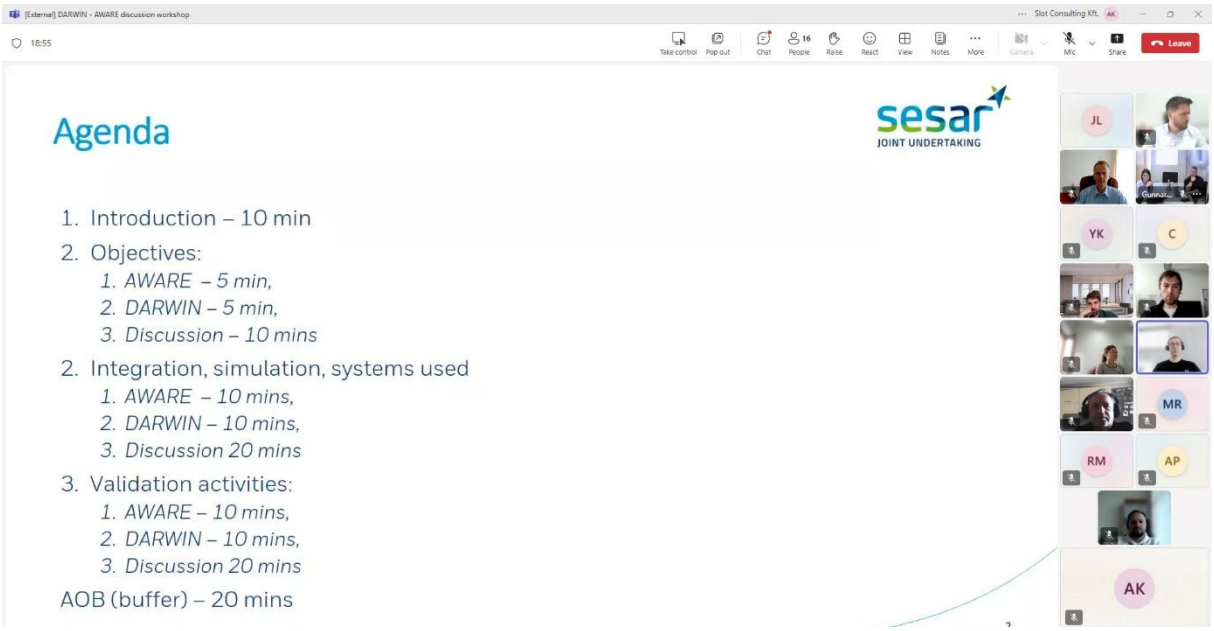


Figure 4 AWARE/DARWIN Worksop Agenda

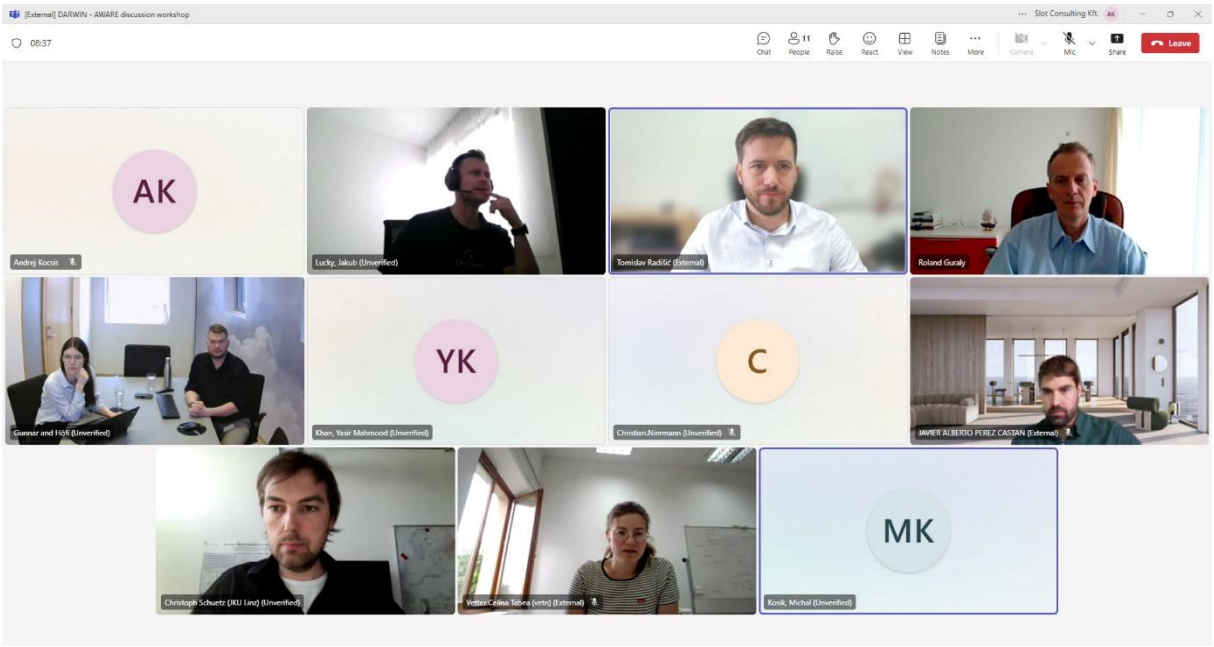


Figure 5 AWARE/DARWIN Worksop screenshot

5. AWARE – DIALOG bilateral workshop

On 30 May 2025, the AWARE and DIALOG projects conducted a joint workshop focused on advancing human-AI collaboration in air traffic management (ATM). The session facilitated in-depth discussions on project goals, simulation methodologies, system integration, and validation strategies.

The DIALOG project is dedicated to enhancing human-machine interaction by developing AI systems that are transparent, predictable, and aligned with human cognitive processes. This approach aims to foster trust and effective collaboration between human operators and AI technologies.

The aim of the workshop was to give insight into each other's development paths and to understand the research goals. The common understanding serves as a baseline for further cooperation between the two projects.

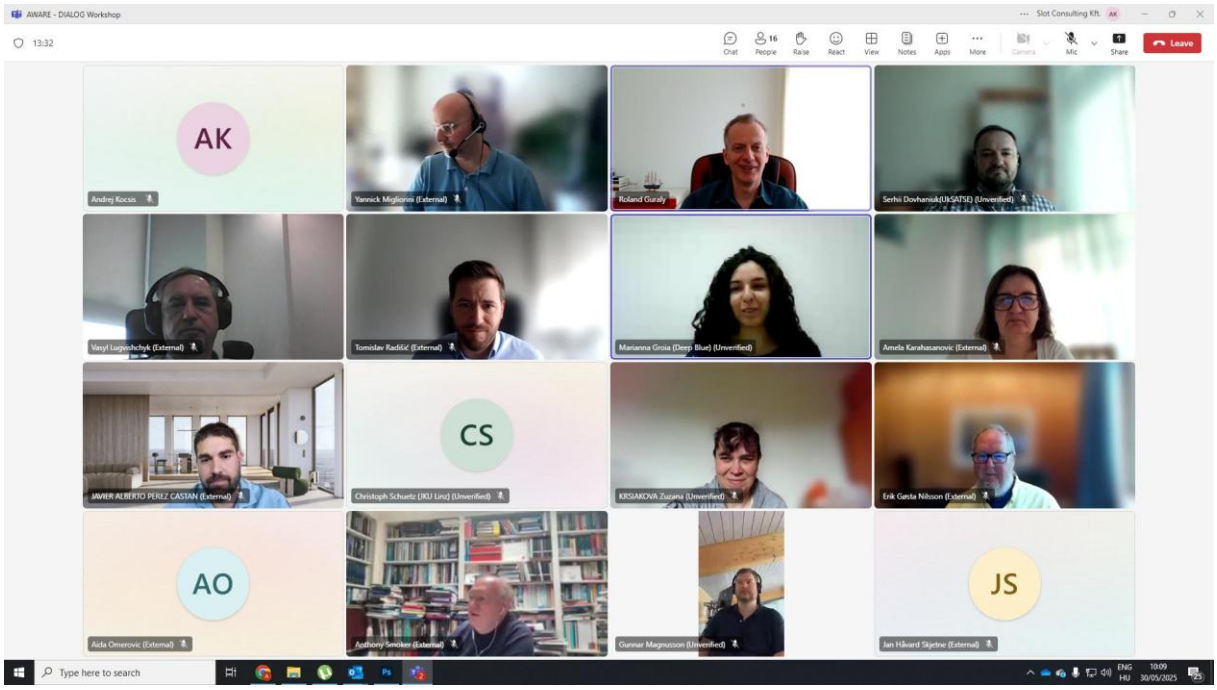


Figure 6 AWARE – DIALOG Workshop Screenshot

Annex III – Web presence

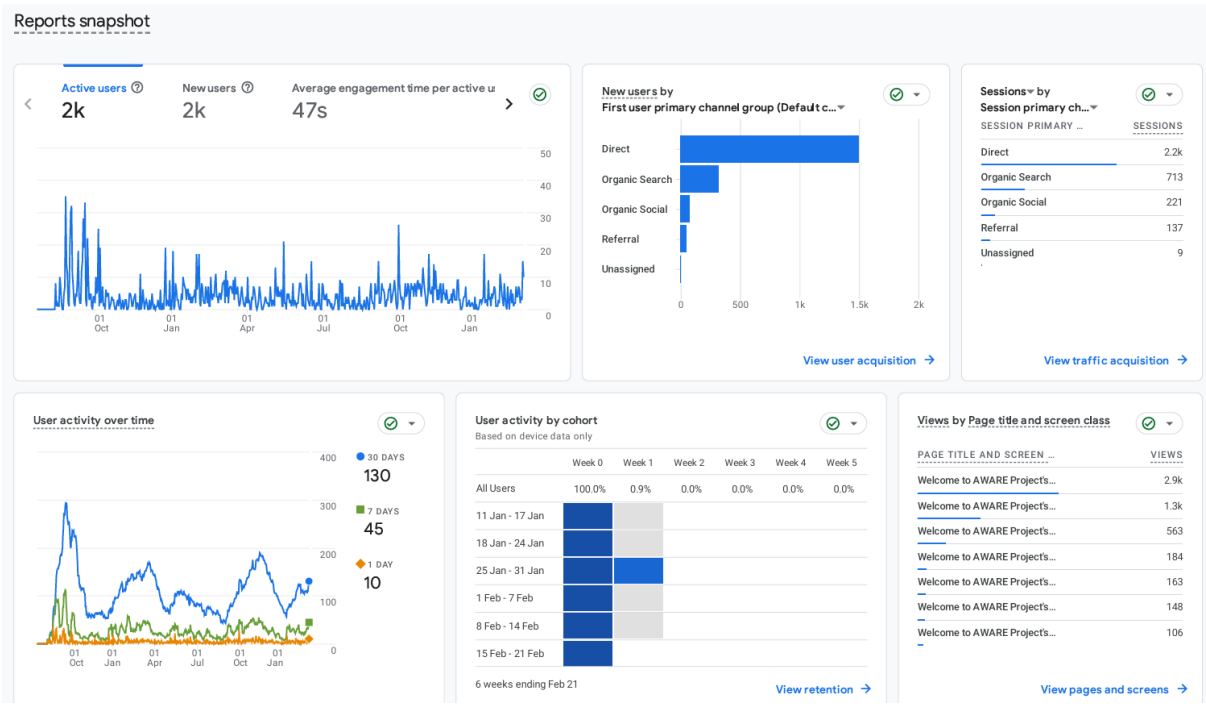
Introduction of the AWARE website and social media channels

The AISA project also had a website that provided sufficient information and supported the CDE activities. On the basis of the lessons learned from the previous project and taking into account the new developments in the field of web-design, we performed a new design of the AWARE project's website. During the design phase we analysed several other SESAR ER projects (especially the ones in the field of AI) and tried to develop a best practice tool from them.

The website is already available at: https://aware-sesar.eu/

The content of the website can be found in a separate deliverable: D3.4.[15]

Website statistics:



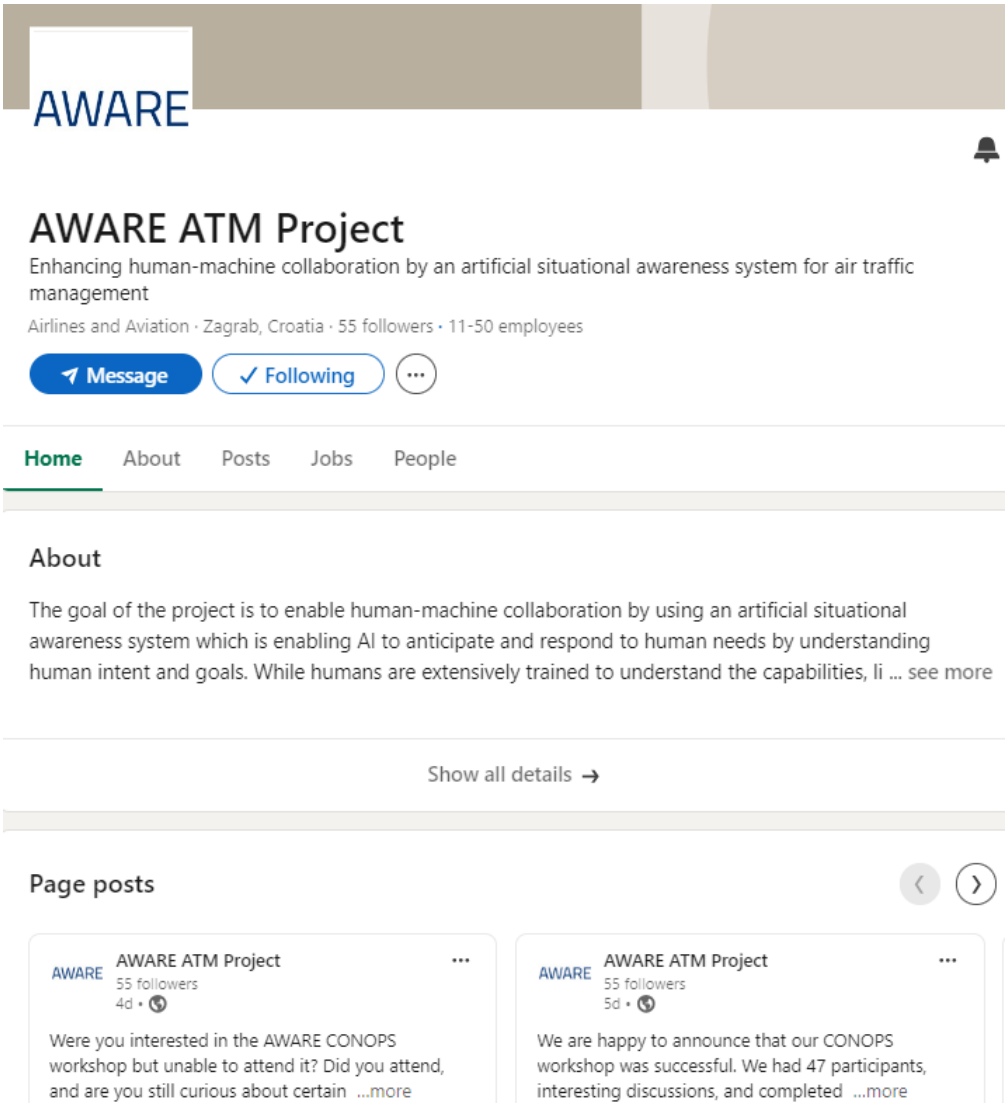
[15] Consequently, earlier website related text, screenshots are deleted from this deliverable to avoid double presence and different update tracks.

Social media

As mentioned in the CDE plan, the project also the project also has a LinkedIn page and a YouTube channel:

The LinkedIn page:

https://www.linkedin.com/company/aware-atm-project/

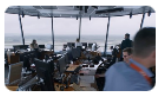


AWARE ATM Project
255 followers
1w • Edited •

Successfully completing an intensive week of Dry-Run testing with the AWARE team at the LFV R&D Centre in Malmö, Sweden!
The objective of the Dry-Run was to integrate and stress-test all key system ...more

AWARE ATM Project
255 followers
2w •

🚀 AWARE project's Dry Run test kicks off today!
The AWARE SESAR project is starting its Dry Run sessions, which will take place from 10 to 13 February 2026 at the LFV R&D Centre in Malmö, Sweden. ...more



Start
lfv.se

23

AWARE ATM Project
255 followers
1mo •

We are proud to inform you that Bashar Ahmad from Linz University presented an AWARE-related presentation during the Conference on Informatics & Problem Solving (ICIPS 2025) in Luxor and received the Best Paper Award of the ...more

AWARE ATM Project
255 followers
3w •

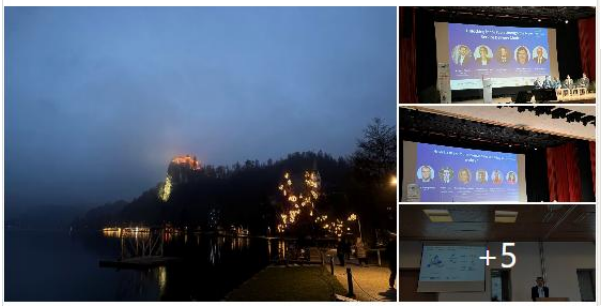
We are pleased to announce that AWARE will participate in TRA2026 in Budapest this year. More information will come soon! ...more

TRA 2026
traconference.eu

10

AWARE ATM Project
255 followers
2mo •

Gorgeous location, marvellous food and excellent logistics – these were the key impressions from the SESAR Innovation Days organised from 1 to 4 December in Bled, Slovenia. ...more



AWARE ATM Project
255 followers
2mo •

The AWARE project would like to announce that one of its team members, Christoph Schuetz from Johannes Kepler University Linz will deliver an AWARE project-related presentation at the forthcoming SESAR Innovation Days. He will talk about " ...more

SESAR Innovation Days 2025
sesarju.eu

AWARE ATM Project
AWARE 255 followers
2mo •

We are delighted to announce that at the upcoming SESAR Innovation Days Marc Baumgartner from IFATCA—a member of the AWARE consortium—will be one of the speakers. Marc will be talk at the Plenary Session 2 (on Day 3)– How to ...more

15 1 comment

AWARE ATM Project
AWARE 255 followers
3mo • Edited •

The AWARE team FTTS from University of Zagreb / Sveučilište u Zagrebu, ZHAW Zurich University of Applied Sciences, LFV, Tern Systems, and UPM (Universidad Politécnica de Madrid) met at LFV's Research and Development Centre in ...more

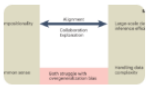
AWARE ATM Project
AWARE 255 followers
3mo •

We're thrilled to announce that the AWARE project will be participating in SESAR Innovation Days
During the event, we are proud to share that two of our consortium ...more

17

AWARE ATM Project
AWARE 255 followers
3mo •

The "Why Humans Adapt Faster Than AI" study highlights the cognitive flexibility and contextual reasoning that humans bring to dynamic, uncertain environments — both essential in air traffic management. Understanding these human ...more



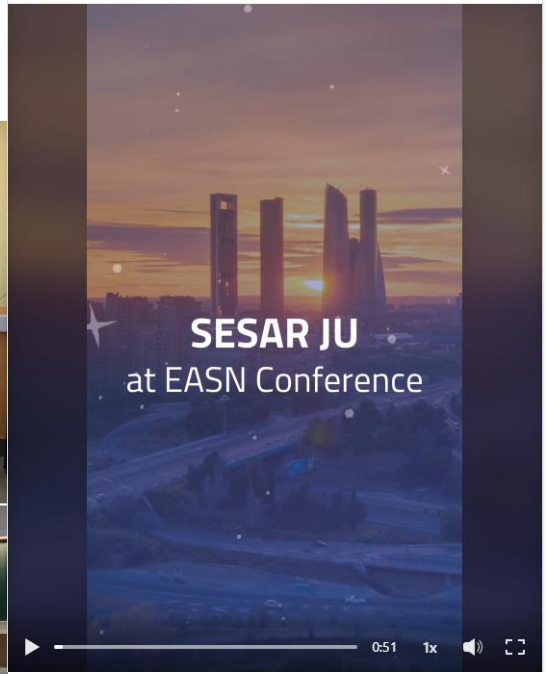
Aligning generalization between humans and machines - Nature Machine Intelligence
nature.com

AWARE ATM Project
AWARE 255 followers
4mo •

AWARE at the 15th EASN International Conference!
Javier Alberto Pérez Castán from Universidad Politécnica de Madrid presented "Insights into Conflict Detection & Resolution Integration in AI-Enhanced ...more

SESAR Joint Undertaking
19,501 followers
4mo •

Wrapping up amazing days at the EASN - European Aerospace Science Network Conference ...more



AWARE ATM Project
255 followers
4mo •

Our second AWARE newsletter is live! It offers a short retrospective of recent milestones across concept development, collaboration activities and data collection in our SESAR ER project—catch up in minutes. Read it ...more

Welcome to AWARE Project's website - Article
aware-sesar.eu

AWARE ATM Project reposted this

Andrei Kvashnin • 2nd
Head of Air Navigation Services Department – UkSATSE
4mo •

thank you all for your commitment!
let's stay AWARE!

Serhii Dovhaniuk • 2nd
Lviv ACC Unit Instructor
4mo •

Four weeks.
Twenty Ukrainian air traffic controllers.
Intensive data collection at FTTS University of Zagreb. ...more

AWARE ATM Project
255 followers
4mo •

The AWARE project will take part in the SESAR Innovation Days. This year, the event will take place next to the beautiful Lake Bled in Slovenia. We look forward to meeting you there! ...more

SESAR Innovation Days 2025
sesarju.eu

AWARE ATM Project
255 followers
4mo •

We are thrilled to present our "Partner of the Month": Universidad Politécnica de Madrid (UPM). Check out our new YouTube video to learn more on UPM and their role in the project: https://lnkd.in/dSRr83PB ...more

AWARE - SESAR ER Project
youtube.com

AWARE ATM Project
255 followers
4mo •

The AWARE project is proud to be presented in the news sections of SESAR:

#SESAR #experiment #airtraffic ...more

Advanced experiments in AI-driven air traffic control get underway in Zagreb
sesarju.eu

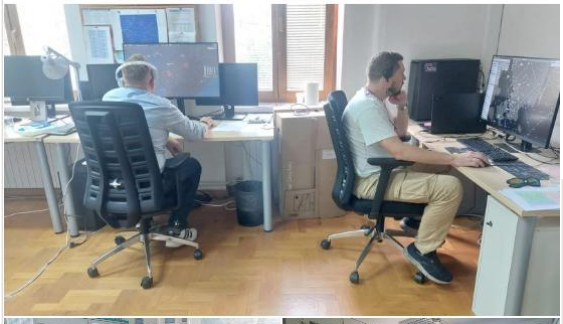
AWARE ATM Project
255 followers
5mo •

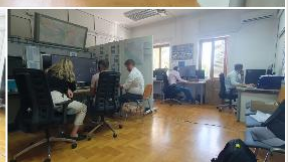
We are excited to share that Javier A. Pérez-Castán from UPM will be presenting "Insights into Conflict Detection & Resolution Integration in AI-Enhanced Air Traffic Control Systems (SESAR Project)" at the upcoming EASN 2025 Conference ...more

Expected Impact
aware-sesar.eu

AWARE ATM Project
255 followers
5mo •

Last week, the AWARE project partners ZHAW, TERN, and FTTS met in Zagreb at FTTS to begin an intensive data collection campaign to train AWARE's algorithms TERN provided and set up the simulation software Polaris ATM system and Orion ...more





AWARE ATM Project
255 followers
6mo •

The SJU disseminated the AWARE introduction video. We hope that it supports us in reaching out to more stakeholders.

SESAR Joint Undertaking
19,501 followers
7mo •

As humans, we can understand the capabilities, limitations, and functionality of the machines we use. ...more

AWARE ATM Project
255 followers
7mo •

The AWARE project accomplished its first project review meeting yesterday. The coordinator, Tomislav Radisic and the task leaders presented their work in the first project year to the SESAR project officers. The consortium is looking ...more

AWARE ATM Project
255 followers
5mo •

Partner of the month in August is IFATCA: this month, we introduce the International Federation of Air Traffic Controllers' Associations. As the global voice of air traffic controllers, IFATCA plays a key role in shaping the future of aviation safety, ...more

SESAR AWARE Project - Meet the team - IFATCA
youtube.com

AWARE ATM Project
255 followers
6mo •

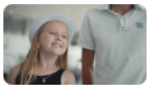
New Human-AI Teaming Framework Emerges from Duke's CREW Labs

Duke University researchers have recently unveiled HUMAC, a novel ...more

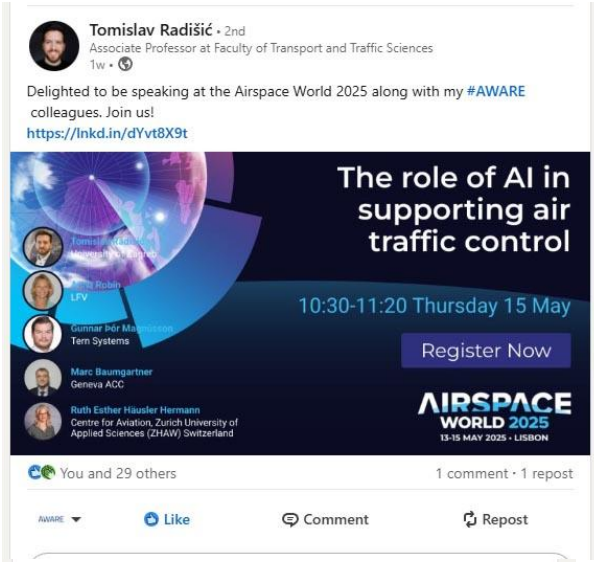
Teaching Theory of Mind to Robots to Enhance Collaboration | Duke Pratt School of Engineering
pratt.duke.edu

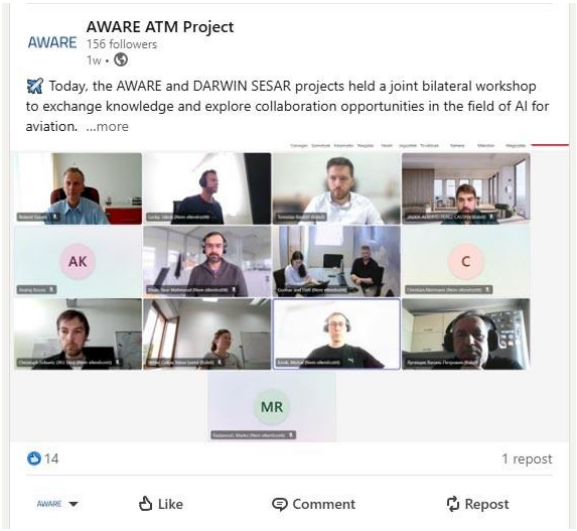
AWARE ATM Project
255 followers
7mo • Edited •

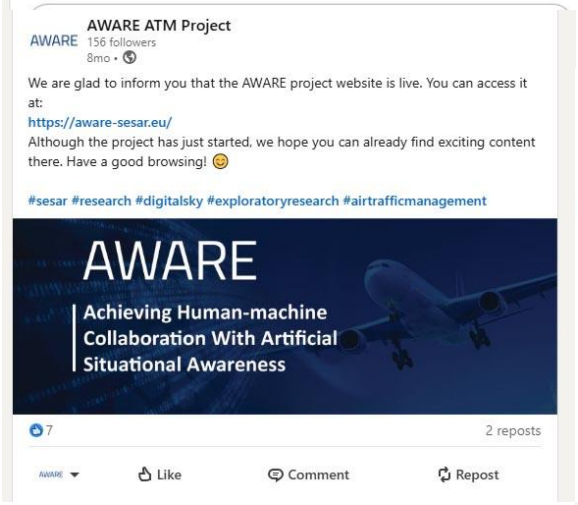
Partner of the Month – LFV
This month, we are delighted to spotlight LFV, Sweden's air navigation service provider. LFV delivers safe, efficient air traffic management and pioneers ...more

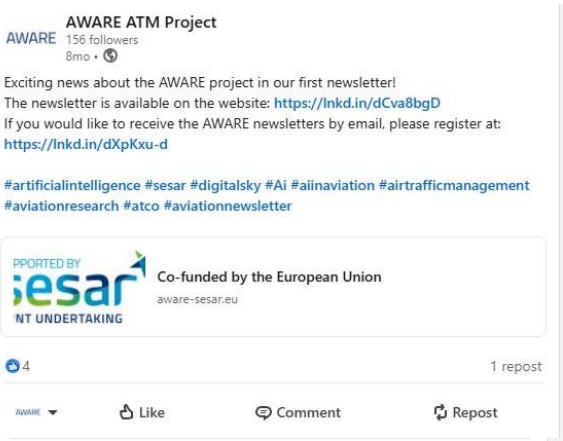


SESAR AWARE Project - Meet the team - LFV SE
youtube.com


Tomislav Radišić • 2nd
Associate Professor at Faculty of Transport and Traffic Sciences
1w •
Delighted to be speaking at the Airspace World 2025 along with my #AWARE colleagues. Join us!
https://lnkd.in/dYvt8X9t
The role of AI in supporting air traffic control
10:30-11:20 Thursday 15 May
Register Now
Tern Systems
Marc Baumgartner
Geneva ACC
Ruth Esther Häusler Hermann
Centre for Aviation, Zurich University of Applied Sciences (ZHAW) Switzerland
AIRSPACE WORLD 2025
13-15 MAY 2025 • LISBON
You and 29 others
1 comment • 1 repost
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
1w •
Today, the AWARE and DARWIN SESAR projects held a joint bilateral workshop to exchange knowledge and explore collaboration opportunities in the field of AI for aviation. ...more
AK
C
MR
14
1 repost
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
8mo •
We are glad to inform you that the AWARE project website is live. You can access it at:
https://aware-sesar.eu/
Although the project has just started, we hope you can already find exciting content there. Have a good browsing!
#sesar #research #digitalsky #exploratoryresearch #airtrafficmanagement
AWARE
Achieving Human-machine Collaboration With Artificial Situational Awareness
7
2 reposts
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
8mo •
Exciting news about the AWARE project in our first newsletter!
The newsletter is available on the website: https://lnkd.in/dCva8bgD
If you would like to receive the AWARE newsletters by email, please register at:
https://lnkd.in/dXpKxu-d
#artificialintelligence #sesar #digitalsky #Ai #aiinaviation #airtrafficmanagement #aviationresearch #atco #aviationnewsletter
Co-funded by the European Union
aware-sesar.eu
4
1 repost
Like
Comment
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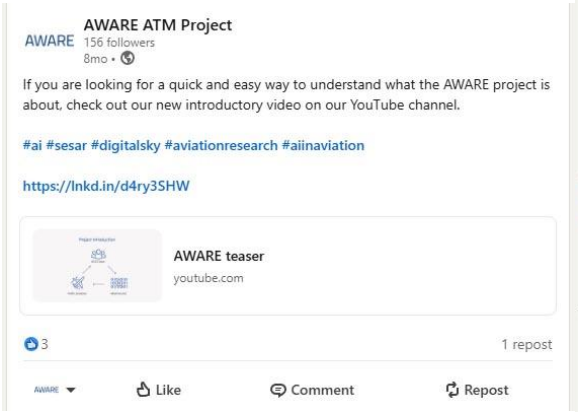

AWARE ATM Project
AWARE 156 followers
8mo •
If you are looking for a quick and easy way to understand what the AWARE project is about, check out our new introductory video on our YouTube channel.
#ai #sesar #digitalsky #aviationresearch #aiinaviation
https://lnkd.in/d4ry3SHW
AWARE teaser
youtube.com
3
1 repost
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
7mo •
We are happy to announce that our CONOPS workshop was successful. We had 47 participants, interesting discussions, and completed surveys. We would like to thank those who participated in the event. Please stay tuned for further AWARE events!
#ai #airtrafficmanagement #aviation #SESAR #Digtalsky #atco
Background
9
2 reposts
Like
Comment
Repost

AWARE ATM Project
156 followers
7mo •

AWARE will be present at the EASN Conference next week. Roland Guraly, the project's communication and dissemination WP leader, will attend the Thessaloniki event next week. If you would like to set up a meeting and conduct a brief talk on the project, please get in touch with us.

#ai #SESAR #Digitalsky #aeronautics #aviation #aeronauticsresearch #EASN #airtrafficmanagement

https://easnconference.eu/

EASN Conference
easnconference.eu

4

Like Comment Repost

AWARE ATM Project
156 followers
6mo •

The AWARE project held its Project Management Board meeting in Rome today. The event was organised in conjunction with the SESAR Innovation Days. As our project also participates at SID, we advise to keep watching this channel this week! ...more

21 1 comment • 4 reposts

Like Comment Repost

AWARE ATM Project
156 followers
6mo •

Starting of the SID conference. We are looking forward to meet you at our poster.

#SESAR #AI #Digitalsky #Rome

14 1 repost

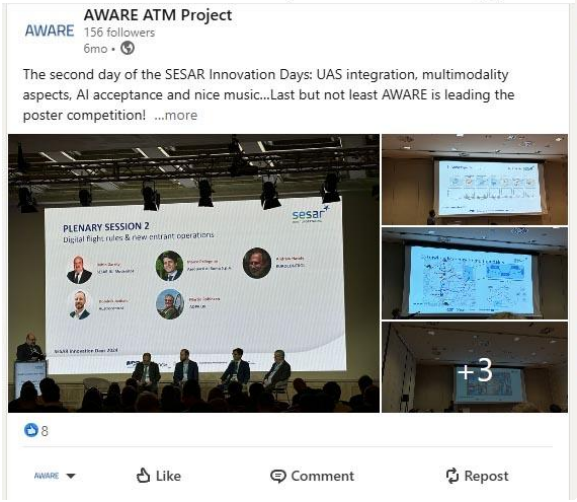
Like Comment Repost

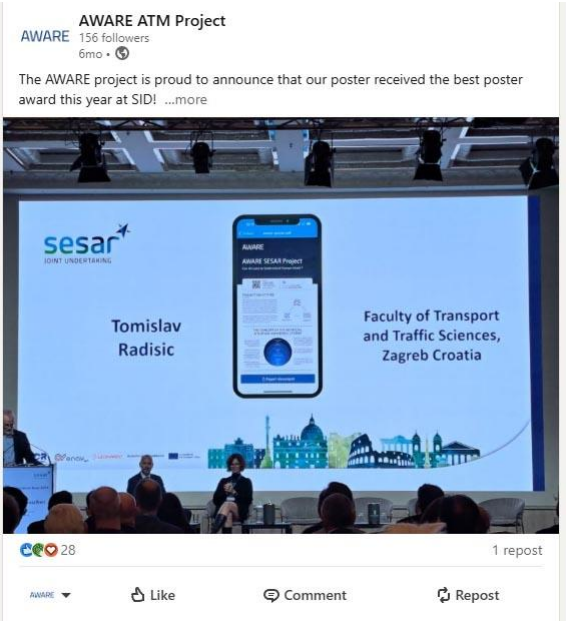
AWARE ATM Project
156 followers
6mo •

Highlights of the first day at the #SESAR Innovation Days: crowded AWARE stand and compelling presentations. ...more

27

Like Comment Repost


AWARE ATM Project
AWARE 156 followers
6mo •
The second day of the SESAR Innovation Days: UAS integration, multimodality aspects, AI acceptance and nice music...Last but not least AWARE is leading the poster competition! ...more
PLENARY SESSION 2
Digital flight rules & new entrant operations
+3
8
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
6mo •
The AWARE project is proud to announce that our poster received the best poster award this year at SID! ...more
Tomislav Radisic
Faculty of Transport and Traffic Sciences, Zagreb Croatia
28
1 repost
Like
Comment
Repost


AWARE ATM Project reposted this
Hólmfríður Elvarsdóttir • 2nd
Research & Innovation Lead - Tern Systems
5mo • Edited •
Had a great time attending the SESAR Innovation Days #SIDs2024 in the stunning city of Rome! ...more
48
1 comment • 2 reposts
Like
Comment
Repost


AWARE ATM Project
AWARE 156 followers
5mo •
Before the start of SID, a dedicated workshop was organised for those SESAR projects that work in artificial intelligence. AWARE, as usual, was among the participants. ...more
Micol Biscotto • 2nd
Head of Grant Office at Deep Blue srl, Project coordinator of SESAR 3 JU Engage...
5mo •
What a week...
We started on Monday with the AI flagship workshop organised by SESAR in collaboration with ENGAGE 2. ...more
1
Like
Comment
Repost

AWARE ATM Project
156 followers
3mo •

The AWARE project had the potential to participate in the first ASTRA dissemination event today. The workshop provided an opportunity to understand the concept and the methodology of this SESAR AI-related project. ...more

ASTRA First Dissemination Event - Insights and Achievements
sesarju.eu

5

Like Comment Repost

AWARE ATM Project
156 followers
3mo •

The AWARE project had the potential to participate in the first ASTRA dissemination event today. The workshop provided an opportunity to understand the concept and the methodology of this SESAR AI-related project. ...more

ASTRA First Dissemination Event - Insights and Achievements
sesarju.eu

5

Like Comment Repost

AWARE ATM Project
156 followers
3mo •

Roland Guraly from Slot Consulting delivered an online presentation today regarding the AISA and AWARE projects during the monthly gathering of the air traffic division of the Hungarian Transport Research Association (KTE). The ...more

Zsolt Hirling and 6 others 1 repost

Like Comment Repost

AWARE ATM Project
156 followers
2mo •

The AWARE project organised an internal technical workshop last week in ZHAW facilities in Switzerland. The hybrid event aimed to discuss what kind of air traffic controller tasks would be used in the AWARE assessment activities. Several ...more

Co-funded by the European Union
aware-sesar.eu

Christoph Schuetz and 17 others

Like Comment Repost

AWARE ATM Project
156 followers
2mo •

AWARE Scenario Design Workshop in Malmö! SE
On March 12-13, the AWARE consortium gathered in Malmö for an intense Scenario Design Workshop, hosted by LFV. The focus? Sharpening scenarios for ...more

53 1 comment • 2 reposts

Like Comment Repost

AWARE ATM Project
156 followers
2mo •

The AWARE project starts a new series of communications: we introduce a consortium member every month. This month, we present the Zurich University of Applied Sciences. Please check out our video on the AWARE YouTube ...more

SESAR AWARE Project - Meet the team - ZHAW CH
youtube.com

9

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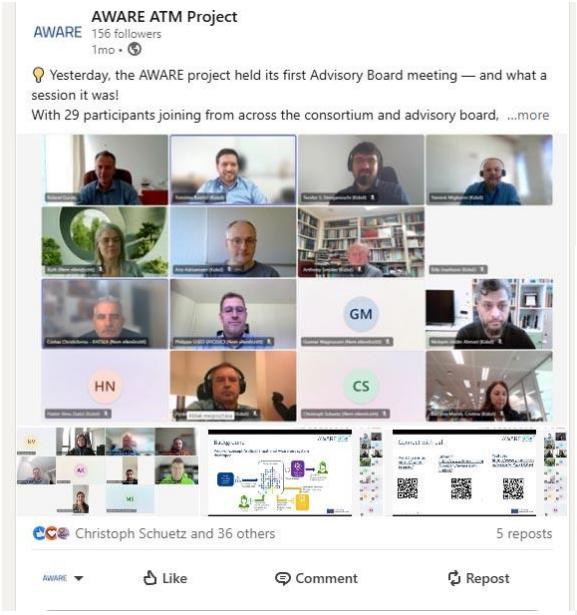
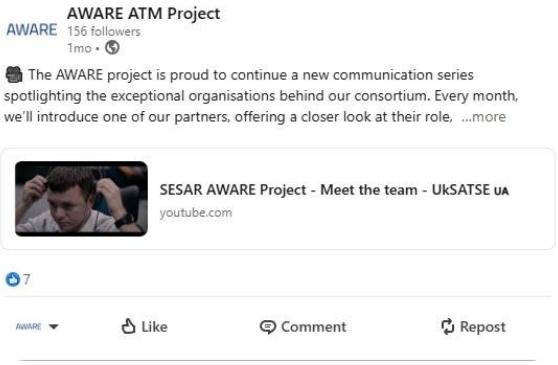

AWARE ATM Project
AWARE
156 followers
1mo •
Yesterday, the AWARE project held its first Advisory Board meeting — and what a session it was!
With 29 participants joining from across the consortium and advisory board, ...more
GM
HN
CS
Christoph Schuetz and 36 others
5 reposts
Like
Comment
Repost


AWARE ATM Project
AWARE
156 followers
1mo •
The AWARE project is proud to continue a new communication series spotlighting the exceptional organisations behind our consortium. Every month, we'll introduce one of our partners, offering a closer look at their role, ...more
SESAR AWARE Project - Meet the team - UkSATSE UA
youtube.com
7
Like
Comment
Repost


AWARE ATM Project
AWARE
156 followers
3w •
Exciting times in Brussels with part of the AWARE project team (in the picture together with our project officer Alessandro Prister) as we are at the FLY AI Forum 2025! ...more
Christoph Schuetz and 34 others
2 reposts
Like
Comment
Repost


AWARE ATM Project
AWARE
156 followers
3w •
From Vision to Implementation: FLY AI Forum 2025 Concludes
The AWARE SESAR project team has just wrapped up an insightful two-day journey at the FLY AI Forum 2025 in Brussels, where the aviation community ...more
+1
10
1 repost
Like
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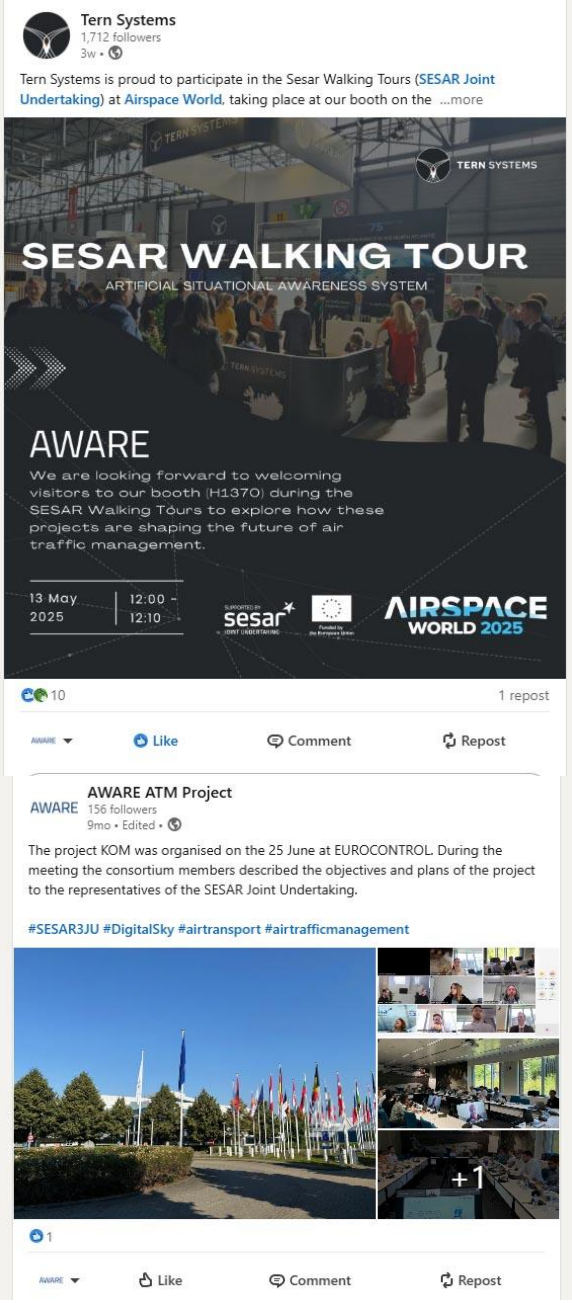
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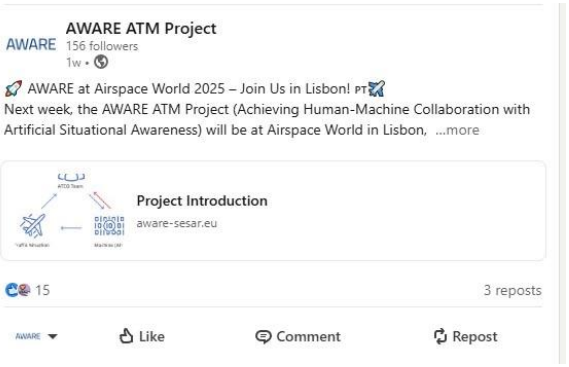
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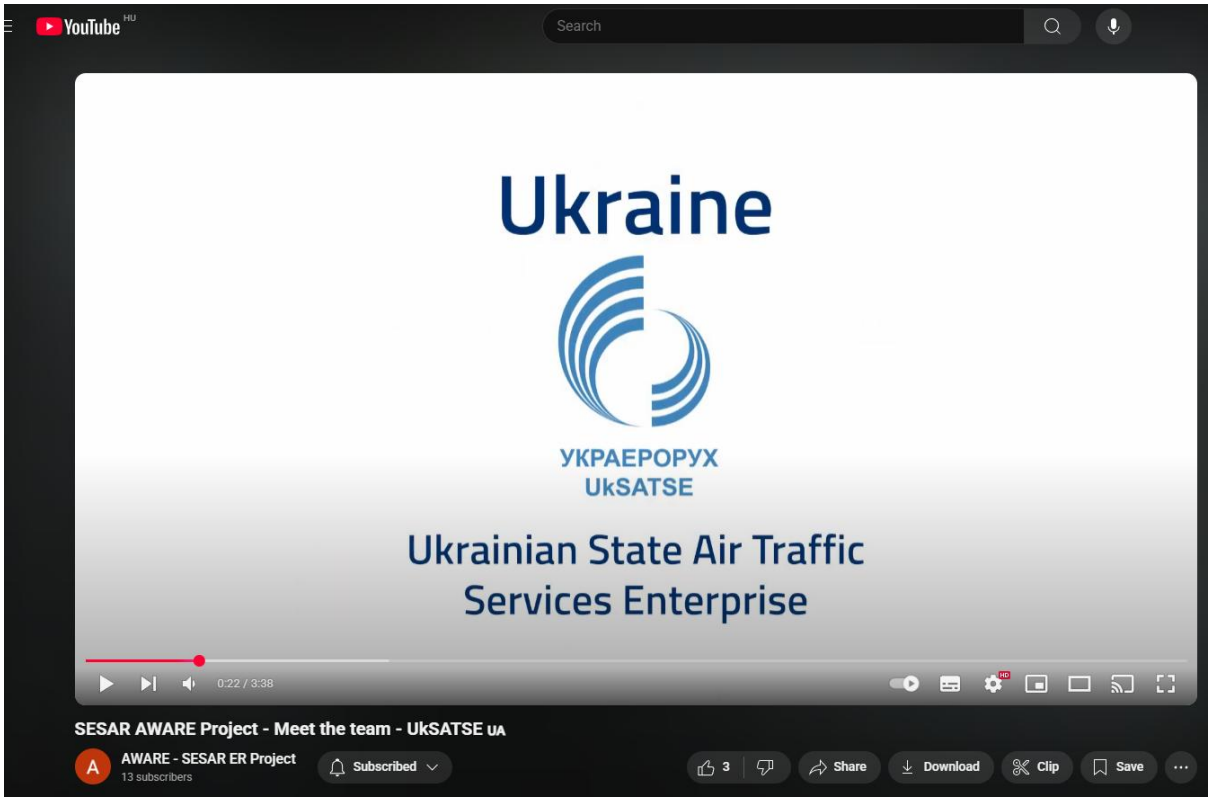
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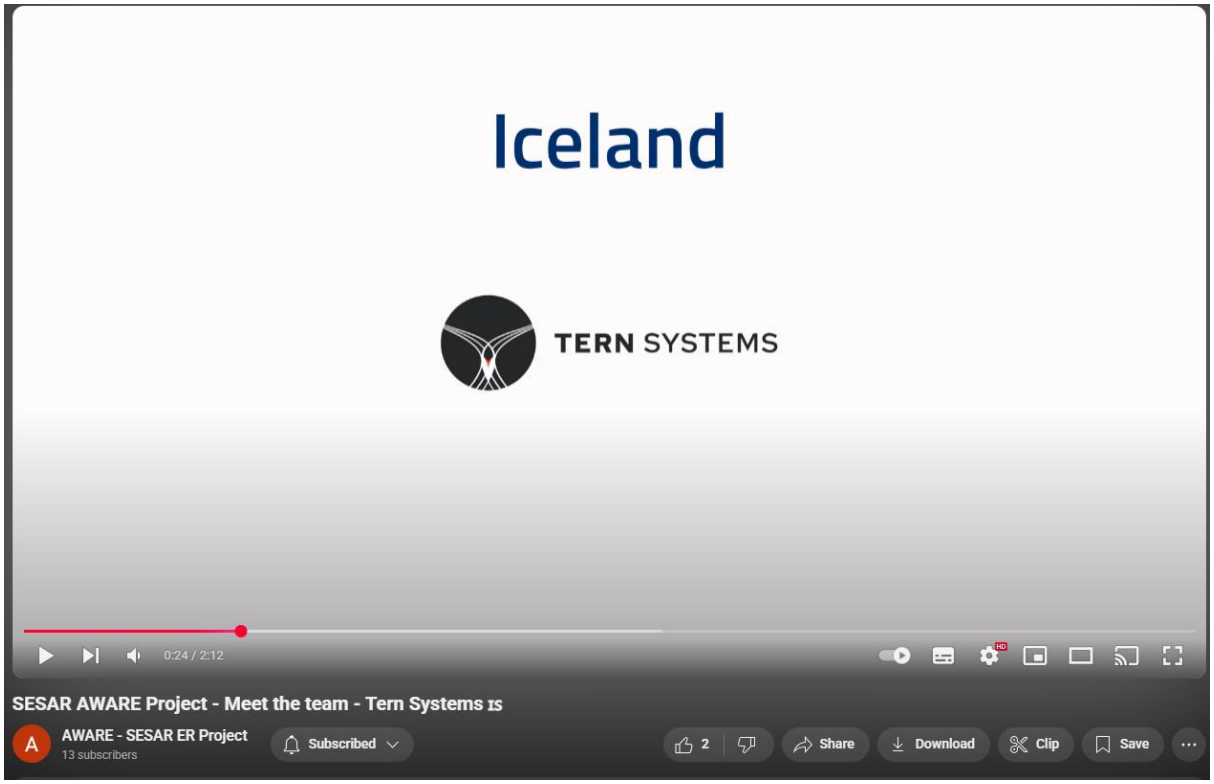
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