



DISSEMINATION, COMMUNICATION AND STAKEHOLDERS ENGAGEMENT REPORT v1.0

DELIVERABLE NUMBER: D7.2

DUE DATE: 30.06.2024

DATE OF SUBMISSION: 17.07.2024

NATURE: R

DISSEMINATION LEVEL: PU

WORK PACKAGE: WP7

LEAD BENEFICIARY: ICCS



DOCUMENT CONTROL SHEET

DELIVERABLE TITLE:	DISSEMINATION, COMMUNICATION AND STAKEHOLDERS ENGAGEMENT REPORT v1.0
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DOCUMENT HISTORY

Version	Date	Status	Description/Comments
0.1	20.05.2024	Draft	ToC
0.2	21.06.2024	Draft	Added content for communication-related content
0.3	30.06.2024	Draft	Added content for dissemination-related content
0.4	15.07.2024	Draft	Released for internal review
0.5	17.07.2024	Draft	Draft addressing the reviewers' comments
1.0	17.07.2024	Final	Final version submitted to EC



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Executive Summary

This document has the following four objectives:

1. To briefly describe the AERO communication and dissemination strategies, as these have already been defined in the DoA.
2. To present the AERO visual identity together with the AERO website and social networking channels.
3. To report the communication and dissemination activities that took place in the first 18 months of the project.
4. To present the current status of the project's communication and dissemination KPIs.

Based on the presented KPIs we assess the project's strategy and conclude that AERO is on the path to achieving its communication and dissemination goals.



List of Abbreviations & Acronyms

Abbreviation/Acronym	Meaning
CO	Communication Objective
DO	Dissemination Objective
DoA	Description of Action
KPI	Key Performance Indicator
OCK	oneAPI Construction Kit
WP	Work Package



1 Introduction

Dissemination and communication are organised in WP7 “Dissemination, Communication & Exploitation”, and more specifically in Task T7.1. Although dissemination and communication rely heavily on each other, this deliverable reports on each one separately for reasons of clarity and comprehensibility.

Communication activities deal mainly with raising awareness among the identified target audiences about the project through electronic and non-electronic media, as well as through interactive and non-interactive activities, like maintaining an up-to-date project website, engaging participation in social networking platforms, etc. The input of all project members is required in order to ensure that results are communicated in an adequate way.

On the other hand, dissemination activities focus on publishing the project results to a community of specialists, for example in peer-reviewed scientific publications and at scientific conferences. All project partners are called upon to share scientific results from the project with the community. As experts in their fields, the scientists choose the right conferences or scientific magazines for themselves.

The remainder of this deliverable is organized as follows:

- **Section 2** describes the communication channels of the project and the activities that took place in the first 18 months.
- **Section 3** presents the dissemination activities of the first half of the project.
- **Section 4** summarises this deliverable.

2 Communication Activities

2.1 Communication strategy overview

As defined in its DoA, AERO's communication strategy has the following objectives:

- **CO1:** Create awareness regarding the project among the identified stakeholders.
- **CO2:** Maximise project's outreach via providing a clear view of the project's concept, goals and results.
- **CO3:** Establish a bidirectional way of communication and create an ecosystem of developers and users that will provide feedback regarding the project's results and activities.
- **CO4:** Prepare the ground for the exploitation of project's results.
- **CO5:** Support the dissemination of project's results.
- **CO6:** Foster the adoption of project's results in industry.

To achieve these objectives, AERO has focused on building a strong online presence. The main channel is the AERO website, seconded by social networking platforms, such as Twitter and LinkedIn. All these platforms are actively leveraged to raise awareness, communicate the project's messages and promote its results to different target audiences, which are detailed in Table 1.

Table 1. AERO Target Audiences

Target Audience	Key message - Potential value
Industrial Cloud Stakeholders	Understand AERO's approach and the potential impact of its results – Leverage AERO's results.
HPC Stakeholders	
Industry Association & Technology clusters	
Academia & Research Community	Recognise AERO's benefits – Build upon or contribute to AERO results.
H2020/HEU Green cloud computing projects and international projects	Understand the impact of AERO results - Identify potential ways for AERO's technologies to be applied to their projects.
Policy Makers, Standardisation Organizations	Comprehend the impact of AERO results - Include them in associated roadmaps.
Wider Public	How AERO will benefit the European society - Understand how taxpayers' money is invested.


2.2 Visual Identity

A graphic identity has been developed to create a recognisable brand associated with the project. All the images are used in the various communication channels and materials, and are consistently applied by all partners to all dissemination materials as well.

2.2.1 AERO Logo

The project's logos and favicons are depicted in Table 2. They are all available in different resolutions and formats (png, svg) to allow their usage in online platforms as well as on printed materials.

Table 2. AERO Logos & Favicons in colour, black & white, and grayscale

Colour	Black & White	Grayscale
		
		

2.2.2 Project templates

A set of templates has been designed to be used in the various activities of the project:

- A **presentation template** that all partners have agreed to use in their presentations. Figure 1, Figure 2, and Figure 3 show the title, outline and final slides of the template, respectively.
- A **deliverable template** following a style similar to that of the presentation template.

All the documents use the Nunito font and the colour palette, presented in Table 3, follows that of the AERO logo:

Table 3. AERO colour palette

#15616D	#35FE69	#353535	#F7F7F7	#9B9B9B
#73A0A7				#A4A4A4
#D0DFE2				#808080

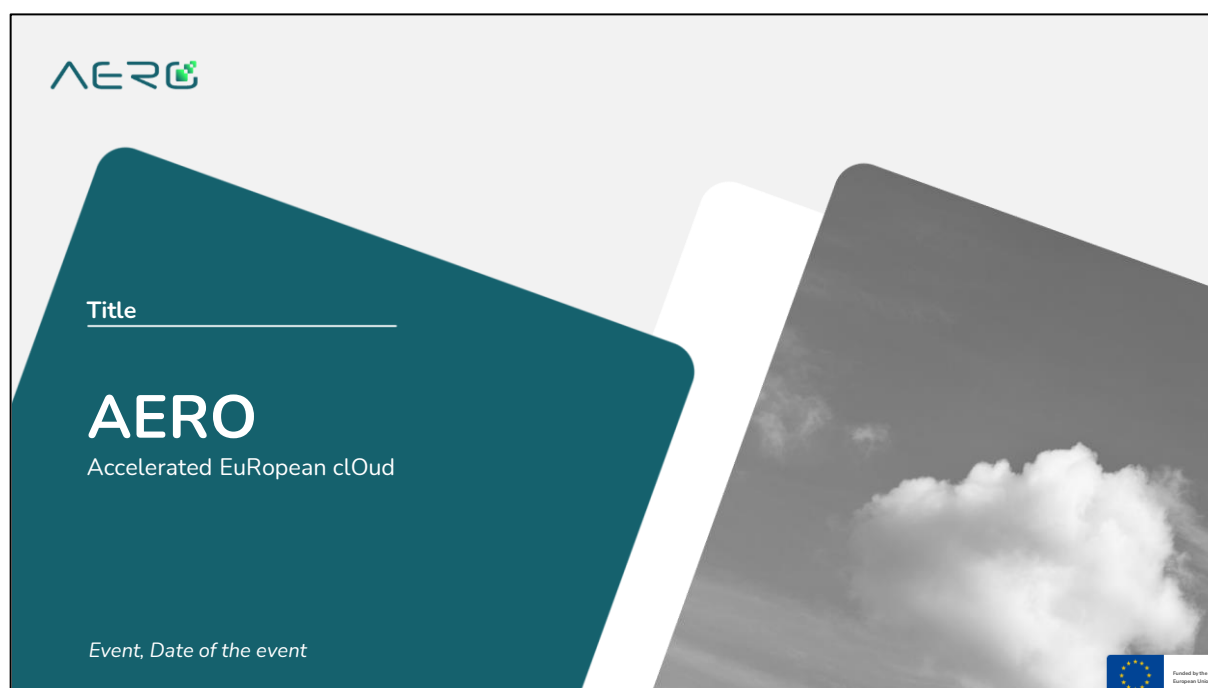


Figure 1 AERO presentation title slide



Outline

- AERO Objectives
- AERO results
- Plans for next period

AERO - Event name – xx/yy/202z

2



Figure 2 AERO outline slide



Questions ?

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AERO has also received funding from UKRI under grants no. 10048318 and 10048915, and the Swiss State Secretariat for Education, Research, and Innovation.



Funded by
the European Union



UK Research
and Innovation

Project funded by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra
Swiss Confederation

Federal Department of Economic Affairs,
Education and Research, EARL
State Secretariat for Education,
Research and Innovation SER

AERO - Event name – xx/yy/202z



Figure 3 AERO final slide

2.3 Online presence

AERO's online presence comprises 5 different channels: the website and 4 social networking platforms, namely Twitter, LinkedIn, GitHub and Zenodo. Twitter and LinkedIn are mainly leveraged for the general presentation of the project and its activities. On the other hand, GitHub is mainly targeted to developers, and Zenodo to researchers.

2.3.1 Website

The AERO website is the main tool to communicate the project's findings and get in touch with the scientific communities, stakeholders and the general public. Its design follows three main principles:

- **Accessibility:** Structure and content should be delivered in a way that allows access for everybody from any device with no special requirements.
- **Scalability:** The portal must be able to scale and grow as the project progresses. It must also be able to adapt to any new major communication trends that may emerge during the lifetime of the project.
- **Maintainability:** The portal must be easy to maintain and support. Hence, CMS and theme should be customised as little as possible.

The AERO website is hosted at ICCS and is accessible at the following link:

<https://aero-project.eu>

The CMS used is WordPress, a mature and proven CMS licensed under an open-source license (GPL). The consortium has chosen a lightweight and clean design that makes updates easy and helps keep the portal secure. The landing page is shown in Figure 4. Technical support is provided by ICCS, while all the partners are responsible for content creation.

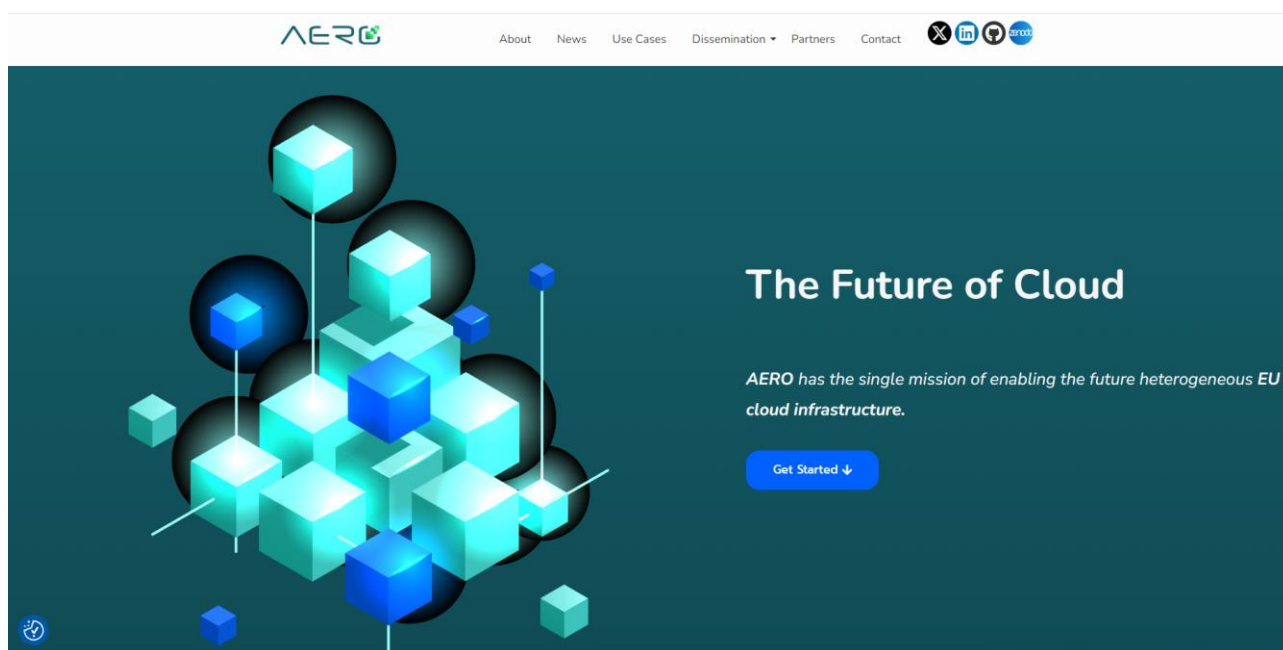


Figure 4 AERO portal landing page

To help visitors navigate, the following entries have been defined and installed in the top bar:

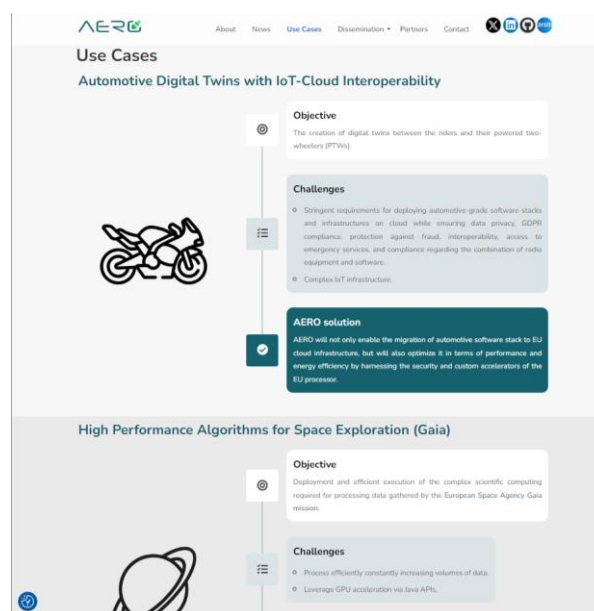
- **About:** A short overview of the project's vision and objectives.
- **News:** A list of project related news, sorted in chronological order (shown in Figure 5a). The news can be filtered based on their type to events, publications, or releases.
- **Use cases:** A short overview of the AERO pilots (depicted in Figure 5b).
- **Dissemination:** A sub-menu with three entries:
 - **Blog:** A section of the portal that hosts blogposts. Currently, it mainly contains short reports of the various events that AERO partners participated to. As the project progresses and its

outcomes are further developed and mature, more technical blogposts presenting the AERO technologies are expected to be hosted.

- **Deliverables:** A table with the submitted deliverables. For each entry, a short description is provided, and if the deliverable is public, then a link for its download is given.
- **Publications:** A table with the publications of the project. For each entry a short abstract is provided together with details regarding the authors and the venue or the journal it has been published into. As AERO fully embraces the Horizon Europe requirement for Open Access, a link is provided to download a locally hosted copy of the publication. Additionally, a link to the editor page is provided, where the visitor can also access the publication; in case no official proceedings exist, the link leads instead to the AERO Zenodo repository.
- **Partners:** A presentation of the members of the AERO consortium.
- **Contact:** A form to enable anyone interested in the project to communicate with the consortium.
- **Social platforms:** At the end of the top bar (as well as the footer of each page) the favicons of the social networking platforms of AERO are provided, to lead visitors to the AERO Twitter account, LinkedIn page, GitHub repository and Zenodo community, respectively.



(a)



(b)

Figure 5 AERO news page (a) and pilots' presentation (b)

From a privacy perspective, the web portal collects as little visitor data as possible and is compliant with GDPR. More specifically, for reach measurement and website optimization, the AERO website uses a cloud-based analytics service (Google Analytics) and a self-hosted analytics tool (Independent Analytics). For the former, the visitor needs to provide her consent in order for data to be collected. The latter is a GDPR-compliant website analytics plugin made for word press, that uses best practice techniques to filter out bot visits as efficiently as possible, does not use cookies, does not store any personally identifiable information and stores all gathered data locally without disclosing any information to third parties.

2.3.2 Twitter

AERO has created a Twitter profile to increase the project's visibility among the general audience, researchers, developers and industrial stakeholders, and to interact with all of them. The AERO Twitter profile is shown in Figure 6 and be found at the following link:

https://x.com/AERO_Project_EU

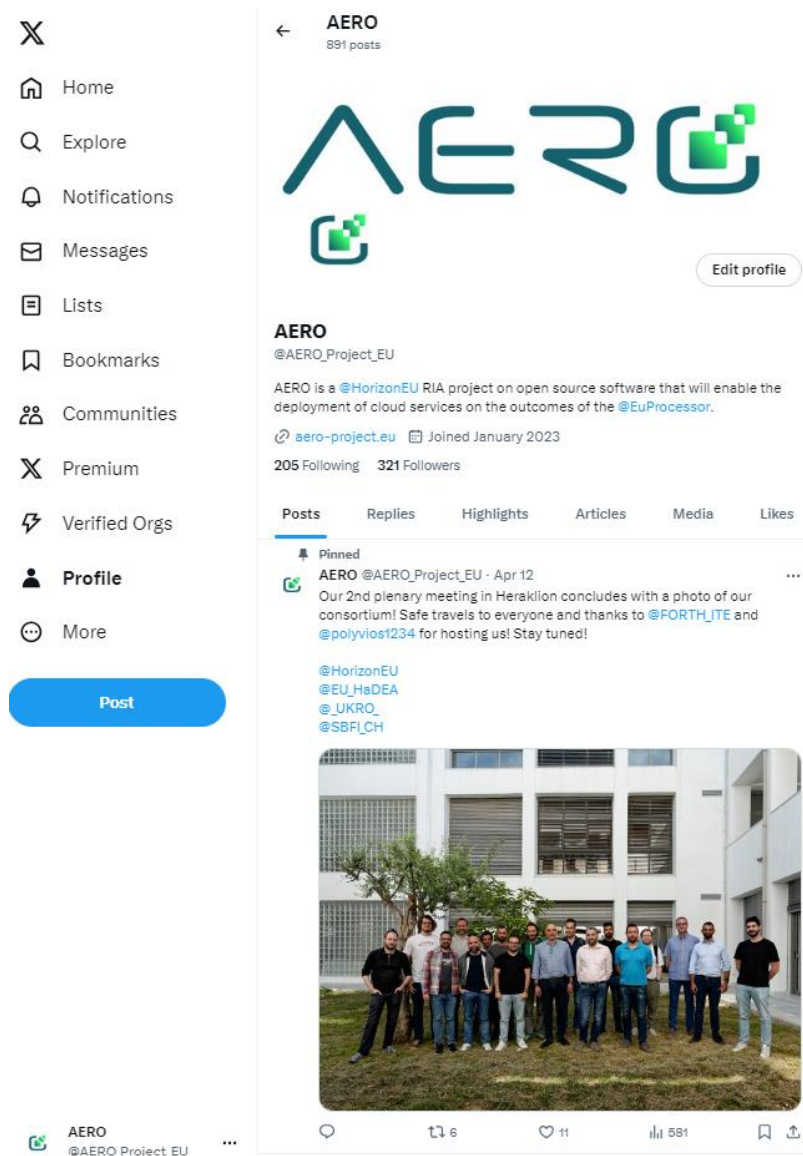
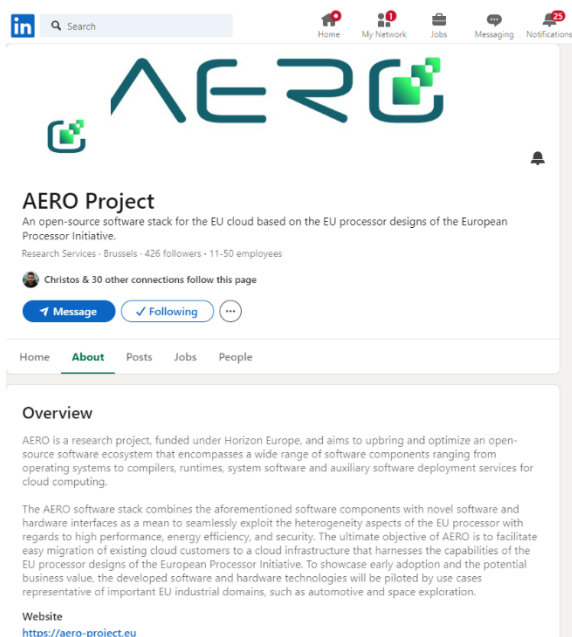


Figure 6 AERO Twitter account

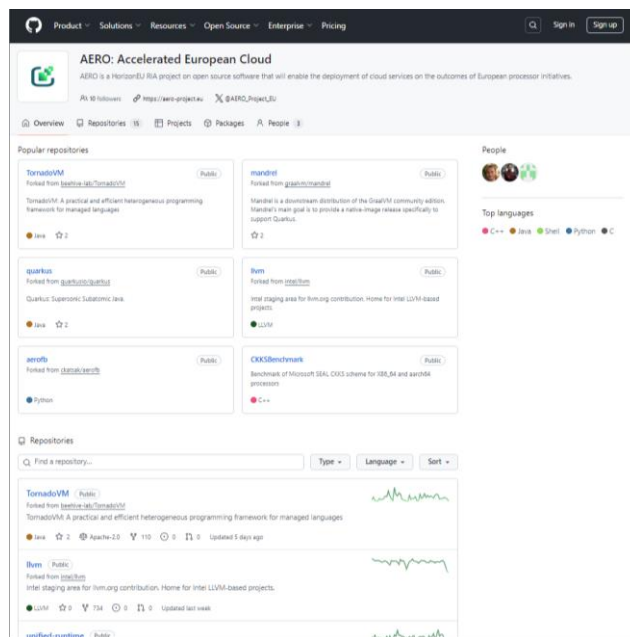
2.3.3 LinkedIn

The LinkedIn profile is leveraged to promote the project among a more specialised community, comprising stakeholders, developers, researchers and other contacts of the AERO partners. The AERO LinkedIn page, shown in Figure 7a, can be found at the following link:

<https://www.linkedin.com/company/aero-project/>



(a)



(b)

Figure 7 AERO LinkedIn (a) and GitHub (b) pages

2.3.4 GitHub

The AERO consortium agreed on using GitHub to store and manage the code developed during the lifetime of the project. Besides helping with working on code, GitHub is also known as a social network that encourages developers to explore and contribute to open-source projects of all kinds. Therefore, an AERO GitHub organisation (shown in Figure 7b) has been created to showcase the open-source code and artefacts of the project, facilitate their sharing and encourage collaboration with other developers and projects. It can be reached at the following link:

<https://github.com/AERO-Project-EU/>

2.3.5 Zenodo community

To further facilitate sharing the outcomes of the project among researchers, our consortium decided to create a Zenodo community. As depicted in Figure 8, the AERO community currently hosts all the AERO related publications and can be reached at the following link:

<https://zenodo.org/communities/aero/records>

2.4 M1-M18 report

2.4.1 Website

The AERO website was officially launched at the end of M3. Since then, it has been continuously updated with news, events information, publications and deliverables. Table 4 presents the KPIs of the AERO website at the end of M18, together with the targets that were defined for some of them in the DoA.

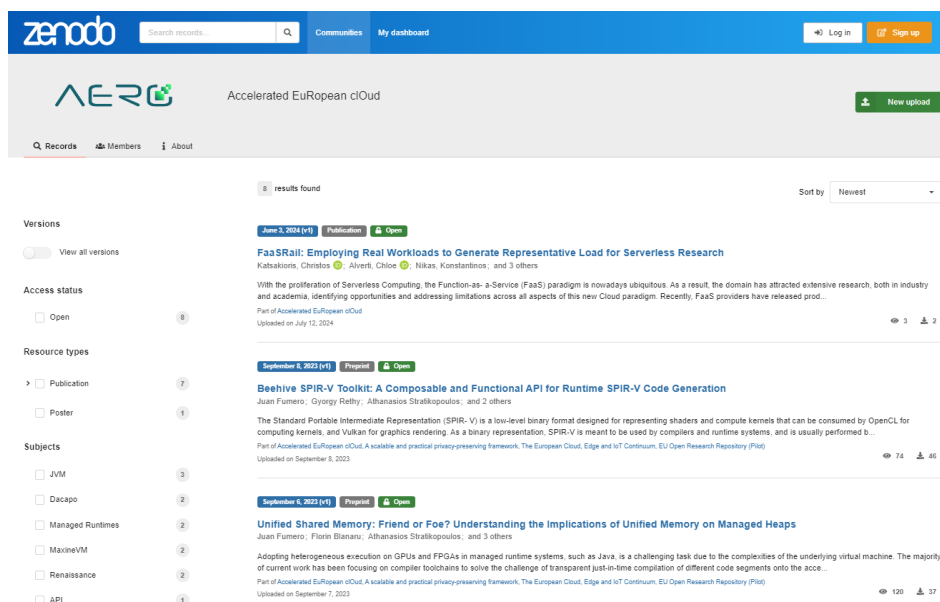


Figure 8 The AERO Zenodo community records

Taking into account we are still in the middle of the project, AERO has already met the target for two KPIs (average visit's duration and blog posts) and is on the path to successfully meet one more (page visits). To better assess the progress of the KPI regarding unique visitors, we present in Figure 9 the evolution of its value on a weekly basis until the end of M18. Additionally, we mark a few major events that coincide with significant increases in the number of visitors.

It is evident that the participation of AERO in major events together with relevant announcements on the Twitter account cause a surge of visitors to the AERO website. Hence, as more AERO outcomes are expected to mature and be presented in various venues and events during the second part of the project, we anticipate that the unique visitors KPI will be also met successfully.

Table 4. AERO website KPIs

KPI	DoA Target	M18 value
Unique visitors	> 7000	1905
Page views	> 7000	5291
Average visit's duration	> 1.5 min	3 mins
Bounce rate	N/A	69%
Views per session	N/A	1.83
Blog posts	> 15	17

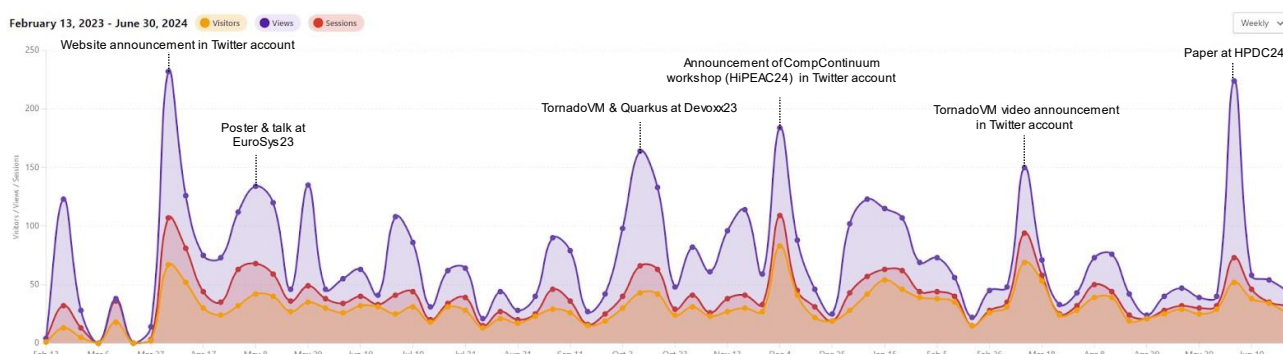


Figure 9 Weekly number of unique visitors, page views and sessions on the AERO website until M18

2.4.2 Social networking platforms

Table 5 presents the KPIs defined in the DoA for the social networking platforms. As discussed before, AERO has setup accounts in 4 different platforms and has already achieved the KPI targets by M18.

Table 5. AERO social networking platforms KPIs

KPI	DoA Target	M18 value
Social media channels	> 3	4
Followers	> 500	> 740
Interactions	> 150	> 1000
Posts	> 200	> 900

More specifically, AERO has already more than 740 followers, as its Twitter account has 322 and its LinkedIn account 427 followers. In Twitter alone, AERO has posted (or reposted) almost 900 times. At the same time, according to Twitter, just the posts made in 2024 (excluding reposts) had a total of around 9,900 impressions (Twitter's definition of how many times a tweet was seen), out of which people viewed the details of the post 300 times; these 2024 led to 794 engagements, 42 views of the AERO profile and 5 new followers.

2.4.3 Other communication activities

AERO has created a brochure to communicate the project's objectives to participants in events, workshops, conferences and other outreach opportunities, where AERO partners are taking part. The brochure is shown in Figure 10 and is expected to be updated in the second period of the project in order to provide details regarding the AERO outcomes.

Finally, two software components that have been actively developed in the context of AERO, namely TornadoVM and the oneAPI Construction Kit (OCK), have been presented in videos created and shared by the respective partners, i.e., UNIMAN and CPLAY. Nevertheless, we are in the process of creating a video to communicate AERO's vision, its outcomes and their potential impact to the general public.



The Future of Cloud

AERO has the mission of enabling the future of heterogeneous EU cloud infrastructure



AERO will upbring and optimise all components necessary to achieve out-of-the-box heterogeneous execution of the cloud ecosystem on the EU processor



By upstreaming to open source projects and engaging with industry, academia and standardization bodies, AERO will accelerate the adoption of the EU cloud ecosystem

aero-project.eu

Use Cases



High Performance Algorithms for Space Exploration

Automotive Digital Twins with IoT-Cloud Interoperability

HPC/Cloud Database Acceleration for Scientific Computing



AERO project has received funding from the Horizon Europe programme under grant agreement 101092850. The website reflects the views and opinions of the author(s) and neither European Union nor the granting authority can be held responsible for them.



(a) Front

(b) Back

Figure 10 AERO brochure



3 Dissemination Activities

3.1 Dissemination strategy overview

As defined in the DoA, AERO's dissemination strategy has the following objectives:

- **DO1:** Increase scientific awareness of AERO's technology offerings.
- **DO2:** Facilitate adoption of AERO offerings, receive feedback, and create networks.
- **DO3:** Conform with latest standards and contribute to the evolution of new ones.
- **DO4:** Exchange ideas and know-how, increase awareness by co-organizing events.
- **DO5:** Showcase operation of AERO, its technical capabilities and business offerings, and receive feedback from stakeholders.

To achieve these objectives, AERO aims to reach the identified target audiences (detailed in Table 1) through publications in scientific journals, conferences and technical workshops, and participation in venues and exhibitions. The consortium has created trackers to monitor the event participations and the produced publications, depicted in Figure 11 and Figure 12, respectively. All partners are required to keep the trackers up to date by providing all the appropriate details, such as dates, location, venue info, type of event, publication title, authors, open access type, etc.

Date	AERO Partners	Event Type	Event Name	Role	Title	Event Link
03/23	VOS	Talk	Automotive Grade Linux All Member Meeting Spring	Presenter	benchmark of open source virtio solution for portability between cloud and automotive	https://events.linuxfoundation.org/aql-amm/
03/23	UNIMAN	Paper Presentation	MoreVMs 2023	Presenter	Cross-Language Interoperability of Heterogeneous Code	https://2023.programming-conference.org/home/MoreVMs-2023/#event-overview
03/23	UNIMAN	Standardization Activities	oneAPI Language SIG	Presenter	TornadoVM Levels of abstraction to support multiple backends	
05/23	ICCS	Paper Presentation	SESAME 23	Presenter	FaaSCell: A Case for Intra-node Resource Management.	https://sesame23.github.io/
05/23	ICCS	Poster	EuroSys 23	Presenter	Transparent OS support for variable translation sizes	https://2023.eurosys.org/accepted-posters.html#accepted-posters
05/23	ICCS	Poster	EUCloudEdgeIoT concertation & consultation meeting	Presenter	Presentation of project's vision	Event link
05/23	CPLAY	Workshop	EXCALIBUR RISC-V testbed	Presenter	Accelerating Neural Networks using Open Standard Software on RISC-V	http://riscv.epcc.ed.ac.uk/community/risc23-workshop/
06/23	UNIMAN, ICCS, CPLAY	Poster	RISC-V Summit Europe 2023	Presenter	Harassing Hardware Acceleration with RISC-V and the EU Processor	https://riscv-europe.org/posters.html
06/23	UNIMAN, ICCS, CPLAY, SIPEARL, FORTH	Workshop	RISER 2023: RISC-V for Cloud Services	Presenter, Panel	AERO: Accelerated European Cloud	https://riscv-europe.org/side-events.html
06/23	UNIMAN	Talk	oneAPI Meetup - TornadoVM	Presenter	oneAPI Meetup - TornadoVM	https://www.meetup.com/oneapi-community-us/events/294151459/?utm_medium=referral&utm_source=api-share-https://www.events_share_modal&utm_source=link
06/23	UNIMAN, RHAT	Talk	devconf.cz	Presenter	Optimizing Java on the EU processor platform	https://www.devconf.info/cz/
06/23	UNIMAN, RHAT	Paper Presentation	ISMM	Presenter	Scaling Up Performance of Managed Applications on NUMA Systems	https://conf.researchr.org/home/ismm-2023
07/23	ALL	Other	HIPEAC Article of AERO	Author	AERO: AN OPEN-SOURCE SOFTWARE ECOSYSTEM FOR THE EUROPEAN PROCESSOR	https://www.hipeac.net/magazine/7165.pdf (page 27)
08/23	RHAT	Other	RHRQ Article	Author	Hybrid cloud, edge, and security research featured at DevConf.CZ	https://research.redhat.com/hblog/issue/august-2023/
08/23	RHAT	Other	RHBQ online Article	Author	Hybrid cloud, edge, and security research featured at DevConf.CZ	https://research.redhat.com/hblog/article/hybrid-cloud-edge-and-security-research-featured-at-devconf-cz/
08/23	UNIMAN	Talk	JVMLS	Presenter	From CPU to GPU and FPGAs: Supercharging Java Applications with TornadoVM	https://openjdk.org/projects/llvm/jvmls/summit/
10/23	KTM	Other	Hipeac Article	Author		https://www.hipeac.net/magazine/7166.pdf
10/23	FORTH	Poster	SoSp 23	Presenter	DynaHeap: Dynamic Division of DRAM in Heterogeneous Managed Heaps	
10/23	UNIMAN	Talk	Devovx Belgium	Presenter	TornadoVM: Write once, run everywhere...everywhere!	https://devovx.be/italy/?id=47007
10/23	RHAT, FORTH	Talk	FOSCOMM	Presenter	AERO: Developing an open-source software ecosystem for the European Processor Initiative hardware	https://prelax.foscomm.at/foscomm-2023/italy/CRSAE/
10/23	UNIMAN, RHAT	Paper Presentation	MPLR	Presenter	A Multifaceted Memory Analysis of Java Benchmarks	https://2023.splashcon.org/home/mplr-2023#event-overview
10/23	UNIMAN	Paper Presentation	MPLR	Presenter	Unified Shared Memory: Friend or Foe? Understanding the Implications of Unified Memory on Managed Heaps	https://2023.splashcon.org/home/mplr-2023#event-overview
10/23	UNIMAN	Paper Presentation	VMIL	Presenter	Beehive SPR-V Toolkit: A Composable and Functional API for Runtime SPR-V Code Generation	https://2023.splashcon.org/home/vmil-2023#program
10/23	FORTH, RHAT	Poster	SOSP	Presenter	DynaHeap: Dynamic Division of DRAM between Heterogeneous Managed Heaps	https://sosp2023.mpi-sws.org/
01/24	SIP	Other	Consumer Electronics Show (CES), Las Vegas	Presenter		https://www.linkedin.com/feed/update/urn:li:activity:7150129176769953792
02/24	FORTH	Talk	EuroLLVM 2024	Presenter	Sign Extension Optimizations inside LLVM	
02/24	FORTH	Talk	EuroLLVM 2024	Presenter	Checking Memory Safety of CUDA Kernels	
02/24	UNIMAN	Talk	FOSDEM	Presenter	Java... to unlock GPU acceleration for Polyglot Language Runtimes	https://fosdem.org/2024/schedule/event/fosdem-2024-3085-java-to-unlock-gpu-acceleration-for-polyglot-language-runtimes/
02/24	RHAT	Talk	FOSDEM	Presenter	Exploring Quarkus Native: Choices and Implementation	https://fosdem.org/2024/schedule/event/fosdem-2024-1876-exploring-quarkus-native-choices-and-implementation/
04/24	UNIMAN	Talk	Devovx UK	Presenter	Revolutionizing Java-based LLMs: Unleashing the Power of GPUs with TornadoVM	https://www.devovx.co.uk/italy/?id=6995
04/24	FORTH	Poster	EuroSys 2024	Presenter	DynaHeap: Dynamic Division of DRAM between Heterogeneous Managed Heaps	https://2024.eurosys.org/
05/24	UNIMAN	Talk	Webinar hosted by EUCloudEdgeIoT	Presenter, Panel	AERO: Accelerated European Cloud	https://eucloudedgeiot.eu/event/presenting-the-future-of-open-source-for-cloud-services-webinar/
05/24	CPLAY	Talk	ISC, Hamburg	Presenter	Using SVCL for the next generation heterogeneous systems	https://www.iscug.org/events/isc24-isug-workshop
05/24	SIP	Other	ISC, Hambourg	Presenter and Booth		
05/24	SIP	Other	Vivatch, Paris	SiPearl's booth		
06/24	ICCS	Paper Presentation	HPDC 24, Pisa, Italy	Presenter	FaaSRali: Employing Real Workloads to Generate Representative Load for Serverless Research	https://www.hpdc.org/2024/program.html

Figure 11 Tracker of event participations



No.	Pub. Type	Title	Authors	Title of the Journal/Proc./Book Venue	Date (conference/workshop) Volume, etc. (journal)	Repository Link	Publisher	Place	Year	Green/Gold Open Access	Peer-reviewed	ISSN / eISSN
1	Workshop	Cross-Language Interoperability of Heterogeneous Code	Athanasios Stratikopoulos, Florin Blănuș, Juan Fumero, Maria Xekalaki, Orion Papadakis, Christos Kotselidis	In Companion Proceedings of the 7th International Conference on the Art, Science, and Engineering of Programming (i-Programming' 23)	03/2023	https://github.com/stratika/stratika.github.io/blob/master/files/Stratikopoulos%20et%20al%20-%20i-Programming%2023.pdf	ACM	Tokyo, Japan	2023	Green	Yes	n/a
2	Workshop	FaaSCell: A Case of Intra-node Resource Management: Work-in-Progress	Christos Katsakioris, Chloe Alberti, Konstantinos Nikas, Stratos Pitsmidakis, Vasilios Karakostas, Nectarios Koziris	1st Workshop on Serverless Systems, Applications and Methodologies (SESAME 23)	8/5/2023	https://zenodo.org/record/7904991	ACM	Rome, Italy	2023	Green	Yes	979-8-4007-0185-6/23/05
3	Conference	Scaling Up Performance of Managed Applications on NUMA Systems	Orion Papadakis, Andreas Andronikakis, Nikos Foutiris, Michail Papadimitriou, Athanasios Stratikopoulos, Foivos Zakkak, Polychronis Xekalakis, Christos Kotselidis	The 2023 ACM SIGPLAN International Symposium on Memory Management (ISMM 2023)	18 Jun 2023	https://zenodo.org/record/7904958/files/Stratikopoulos%20et%20al%20-%20ISMM%2023.pdf	ACM	Florida, US	2023	Green	Yes	n/a
4	Workshop	Harnessing Hardware Acceleration with RISC-V and the EU Processor	Juan Fumero, Athanasios Stratikopoulos, Mehdi Goll, Ruymin Reyes, Konstantinos Nikas, Dionisios Pnevmatikatos, Nectarios Koziris and Christos Kotselidis	RISC-V Summit Europe	5-9 Jun 2023	https://zenodo.org/record/7941059	n/a	Barcelona, Spain	2023	Green	Yes	n/a
5	Conference	A Multifaceted Memory Analysis of Java Benchmarks	Orion Papadakis, Andreas Andronikakis, Nikos Foutiris, Michail Papadimitriou, Athanasios Stratikopoulos, Foivos Zakkak, Polychronis Xekalakis, Christos Kotselidis	20th ACM SIGPLAN International Conference on Managed Programming Languages and Runtime (MPLR '23)	22/10/2023	https://zenodo.org/record/8325556	ACM	Cascais, Portugal	2023	Green	Yes	n/a
6	Conference	Unified Shared Memory: Friend or Foe? Understanding the Implications of Unified Memory on Managed Hetero	Juan Fumero, Florin Blănuș, Athanasios Stratikopoulos, Steve Dohrmann, Sandhya Viswanathan, Christos Kotselidis	20th ACM SIGPLAN International Conference on Managed Programming Languages and Runtime (MPLR '23)	22/10/2023	https://zenodo.org/record/8325639	ACM	Cascais, Portugal	2023	Green	Yes	n/a
7	Workshop	Beehive SPIR-V Toolkit: A Composable and Functional API for Runtime SPIR-V Code Generation	Juan Fumero, Gyorgy Rethy, Athanasios Stratikopoulos, Nikos Foutiris, Christos Kotselidis	2023 Workshop on Virtual Machines and Language Implementations	23/10/2023	https://zenodo.org/record/8328535	ACM	Cascais, Portugal	2023	Green	Yes	n/a
8	Conference	FaaS4all: Employing Real Workloads to Generate Representative Load for Serverless Research	Christos Katsakioris, Chloe Alberti, Konstantinos Nikas, Dimitrios Siakavaras, Stratos Pitsmidakis and Nectarios Koziris	33rd International Symposium on High-Performance Parallel and Distributed Computing (HPDC24)	3-7 June 2024	https://zenodo.org/records/12735009	ACM	Pisa, Italy	2024	Green	Yes	979-8-4007-0413-0/24/0

Figure 12 Tracker of AERO publications

3.2 M1-M18 report

Table 6 details the dissemination KPIs that have been defined in the AERO DoA, together with their target and their current value at the end of M18.

Table 6. AERO dissemination KPIs

DO	KPI	DoA Target	M18 value
DO1: Scientific journals, Academic Conferences & Workshops	Publications (journals/magazines)	≥ 8	3
	Publications (conferences/workshops)	≥ 20	8
	Posters	≥ 5	6
DO2: Industrial Events, Exhibitions & Trade Fairs	Booths in exhibitions/trade fairs	≥ 2	3
DO3: Synergies with standardization organisations, cloud and open-source initiatives	Participation in organisations/initiatives	≥ 5	4
	Upstream code to open-source projects	≥ 3	5
DO4: Synergies with research projects	Synergies with projects	≥ 5	3
	Co-organization of webinars/workshops	≥ 3	3
DO5: Events	Organization of webinars/workshops	≥ 3	3

More specifically:

- **DO1:** In our attempt to increase scientific awareness, AERO partners have published 8 AERO-related papers, 4 in conferences and 4 in workshops, and showcased 6 posters in the first 18 months of the project. At the same time, AERO has been featured in 3 magazines; HiPEAC info vol. 69 (published in July 2023), Red Hat's Research Quarterly (RHRQ) magazine vol. 5:2 (published in August 2023), and HiPEAC info vol. 70. (published in October 2023).
- **DO2:** AERO partners took part in around 30 events up until M18. The majority of these events were scientific conferences, where papers and/or posters were presented. Besides these scientific fora, AERO has been showcased by SIPEARL in booths at 3 events; the Consumer Electronics Show (M13), the ISC High Performance exhibition (M17), and the VivaTech 2024 event (M17).
- **DO3:** AERO partners are already actively participating in 4 different standardization efforts; CPLAY in SYCL and the UXL Foundation, RHAT in OpenJDK and UNIMAN in the oneAPI Language SIG. More details regarding these efforts can be found in Deliverable D7.4. Besides these efforts, AERO has become a member of the EUCloudEdgeIoT initiative¹, that aims to bring

¹ <https://eucloudedgeiot.eu/>



together research projects, developers, suppliers and business users towards realising and adopting the paradigm of Cloud, Edge and IoT continuum.

In addition, AERO partners have been already upstreaming code to 5 open-source projects: CPLAY to DPC++/OCK, UNIMAN to TornadoVM, and RHAT to OpenJDK, Mandrel and Quarkus.

- **DO4:** Our consortium has attempted to establish collaboration with the 3 sister projects funded under the same call, namely OpenCUBE, Vitamin-V and RISER. These efforts have led until now to the organisation of 1 (informal) webinar and 1 workshop (CompContinuum in HiPEAC24). In addition, AERO and its 3 sister projects co-organised together with the EUCloudEdgeIoT initiative the “Presenting the future of open source for cloud services” webinar².
- **DO5:** All AERO partners have agreed to focus on co-organizing events with other projects in order to increase their reach, until at least the Rhea platform becomes available. At this point, as AERO demonstrations will become possible, we will consider the organisation of events focusing solely on our project.

In general, it is apparent that most of the KPIs are close to being or have already been successfully achieved, even though we are still in the middle of the project. The only KPI slightly lagging behind is the one related to scientific publications. However, we expect this to be remedied in the second half of the project, as the AERO outcomes will mature and more optimisations will be developed, leading to an increased number of publications.

Finally, in order to assess the interest of the community in AERO, we have set up a mechanism to monitor the downloads of publications and public deliverables from the AERO website. On the other hand, Zenodo provides the number of views in addition to the number of downloads. Table 7 presents the downloads and views for each publication, while Table 8 reports the downloads for each public deliverable. In both tables, the documents are sorted in chronological order, with the most recent at the top.

Table 7. Downlads and views of AERO publications

Publications	Website downloads	Zenodo views	Zenodo downloads
FaaSRail: Employing Real Workloads to Generate Representative Load for Serverless Research	3	5	4
Beehive SPIR-V Toolkit: A Composable and Functional API for Runtime SPIR-V Code Generation	258	75	47
Unified Shared Memory: Friend or Foe? Understanding the Implications of Unified Memory on Managed Heaps	342	121	38
A Multifaceted Memory Analysis of Java Benchmarks	271	1279	242
Transparent OS support for variable translation sizes	256	92	41
Harnessing Hardware Acceleration with RISC-V and the EU Processor	249	182	86
FaaSCell: A Case for Intra-node Resource Management	267	78	48
Scaling Up Performance of Managed Applications on NUMA Systems	240	267	109
Cross-Language Interoperability of Heterogeneous Code	223	90	76

² <https://ti.to/open-continuum/presenting-the-future-of-open-source-for-cloud-services>



Table 8. Downloads of public AERO deliverables

Deliverables	website downloads
D6.1: Compatibility report, Software Specifications & Platform Architecture	275
D2.1: Pilot Requirements & Definitions	239
D7.1: Data Management Plan	245
D1.1: Project Management Handbook	280



4 Summary

In this deliverable we presented the communication and dissemination strategy of AERO, as well as the communication channels that have been put in place since the beginning of the project. Further, we reported the current status of the communication and dissemination KPIs.

Based on these metrics, we deduce that the project is on path to fully achieving its communication and dissemination goals. Hence, in the second half of the project, the AERO partners will continue to implement the already established strategy. Further, it is expected that dissemination activities leading to scientific publications will increase, as the AERO outcomes mature.