

Nex Oneration Meta Operating System

Dissemination & Standardization & Communities Liaison – Final version

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Contributors	UPM, TSG, ECL	Reviewers	Clio, Beruette, UPM	
Contributors		Reviewers	Iraklis Bourantas, NOVC	

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Document Information

List of Contributors	
Name	Parn
Rosaria Rossini	E
Philippe Krief	E L
Clio Beruete	PM
BEN JABALLAH Wafa	TSG
Luis Miguel Contreras	TID

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Quality manager	Rosana Valle (ATOS)	21/10/2025				
Project Coordinator	Enric Pages (ATOS)	21/10/2025				
Technical Manager	Illias Seitanidis (SYN)	17/10/2025				

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List of Acronyms

Abbreviation / acronym	Description
AG	Advisory Group
Dx.y	Deliverable number y belonging to WP x
EC	European Commission
IEC	International Electrotechaic Commission
IETF	Internet Engineering Tosk Force
IRTF	Internet Research Takerorce
ISO	Internation Organization for Standardization
Neotec	Network Operations in Telecom Cloud
NMRG	Netw Management Research Group
ONIONS	Operation dizing Network & service abstractIONS
RFC	ce, est for Comments
TCSP	Cloud Service Providers
WP	Work Package
YT	YouTube channel



Executive Summary

The current document, entitled "D6.7 Dissemination & Standard zation & Communities Liaison – Final Version", provides a summary of how the project has share hits work, built connections, and contributed to standardization during its lifetime. It brings together he main results of our communication, dissemination, and stakeholder engagement activities, howing how these efforts have helped the project make a lasting impact.

Since the beginning, the project focused one usu ingenta its results reached the right audiences such as researchers, industry partners, policymakes, and the wider community. Using a mix of channels such as the project website, social media, now letters, events, and scientific publications, it was made noticeable that project outcomes were visible, accessible, and understandable. The communication strategy evolved over time, add ting to new opportunities and feedback from stakeholders to maximize engagement and awareness.

Alongside outreach, the project played an active role in standardization landscape. By contributing to relevant working group, the consortium helped ensure that the project's technical outputs align with and inform emerging of blards. This work strengthens the long-term usability and interoperability of our results beyond the project's end.

Building an intaining relationships with key communities, such as the Meta OS project alliance, has been and be central goal. The project organized and participated in joint events, workshops, and cold box tive initiatives to exchange knowledge and explore synergies with other EU and international ideas.

In summary, this deliverable highlights how the project's communication, standardization, and community efforts have worked together to increase visibility, promote knowledge sharing, and ensure the sustainability of results. Through an open, collaborative, and forward-looking approach, the project has contributed meaningfully to its field and to the broader European research and innovation ecosystem.

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1 Introduction

1.1 Purpose of the document

The purpose of this document is to present the final of to be of activities carried out under Work Package 6 (WP6) "Impact Creation & Outreach". The man-goal of WP6 is to enhance the visibility and long-term sustainability of the NEMO project by premoting its results, engaging early users, and fostering a vibrant community around NEMO to hip logies. Through these efforts, the work package aims to ensure that the project's impact extends beyond its duration and continues to evolve within both industrial and research communities.

This deliverable outlines the crall dissemination strategy, describes the actions undertaken to communicate and promote project results, and reports on achievements related to standardization and community liaison. Together, the activities have played a central role in strengthening the project's outreach, supporting adoption, and laying the foundations for continued collaboration and innovation beyond the project's lifetime.

1.2 Relation to other project work

This document's related to two tasks. The first one is the Task 6.4 "Liaison with Cluster, Open Source communities a standardization". The aim of this task is ensuring knowledge transfer and awareness of NEMO volution in selected Open source communities and foundation.

De second one is Task 6.3 "Dissemination, communication & training activities". The aim of this task is to setup and sustain the communication channels to disseminate the project outcomes; this includes the website, the logo and the various social media accounts.

1.3 Structure of the document

This document is structured in the following order:

- Section 2 presents the Dissemination and Communication plan identified by the consortium and the key messages delivered.
- Section 3 presents the Standardization synergies and results.
- Section 4 & Section 5 presents the community liaison actions and the strategy put in place by the consortium to sustain the project results as well as the Open Source overview in NEMO.
- Section 6 concludes the document.

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2 Dissemination & Communication Plan

NEMO's success will be evaluated by its market penetration and adoption across open-source communities, public authorities, and private enterprises as well as its influence on key economic drivers; this is, SMEs. Therefore, the primary objective of N MO's dissemination and communication efforts is to increase awareness of its technological as (scientific advancements. Achieving meaningful impact requires the development and execution of the edge defined dissemination strategy. The key steps are depicted in Figure 1.

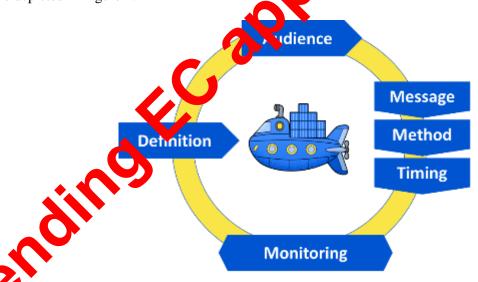


Figure 1 NEMO Dissemination & Communication strategy

The strategy will focus on:

- **Definition** of the dissemination/communication strategy and **target audience**.
- Fine tune the **message, methodology, activities and material** (e.g., press releases, research papers, white papers, videos, workshops, meetings, policy briefs, open days, Open Calls, promotional material) and the correct **timing**.
- Monitor and evaluate the public outreach activities, including redefinition and corrective actions.

All the activities of dissemination and communication strategy will be carried out using **three main phases** following the different phases of the project. Each of these phases has specific objectives and target groups and will therefore perform specific actions using specific channels during the phase. As shown in Figure 2, NEMO dissemination and communication activities are categorized based on the position of the target audience with respect to the time-to-market of the results:



Figure 2 NEMO Dissemination and communication strategy. Intensity increases each year.

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- **Phase I** (**Months 1-18**): Selecting and establishing the dissemination channels, key messages, communication activities towards innovation, IoT/Edge ecos) tems/communities (Long time-to-market).
- Phase II (Months 19-30): Policy fostering business in pour on (Midterm time-to-market).
- Phase III (Months 31-36): Matching market analysis and Exploitation (Short time-to-market).

2.1 Project website

One of the key elements of the NEMO projects of semination plan is the creation and maintenance of a dedicated project website. The website ct. be found at https://meta-os.eu/, and acts as the primary source of information for the project, and indepth insights into its purpose, objectives, and the consortium of partners contributing to its development.





Pilots

Figure 3 Project website - Home

The website also features a section dedicated to the project's pilots, which provides updates on their progress, as well as information about the results achieved. This section is designed to keep stakeholders informed about the project's progress and the impact it is making in the field.

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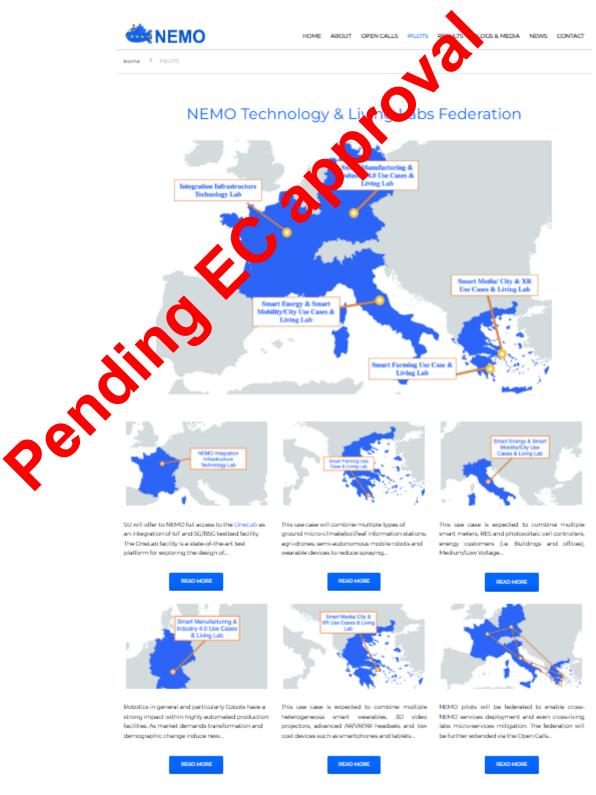


Figure 4 Project website - Pilots

Additionally, the website includes a blog where project partners and other stakeholders can share their thoughts and experiences related to the project. The blog provides a platform for the project team to communicate with the community and share their knowledge and insights.

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Other features of the website include a news section that provides updates on project events and publications, as well as a section dedicated to project deliverables, who provides access to the project's technical documents, reports, and other materials.

Near to the end of the project's lifetime the total number of per published is of 106, being distributed equally within the news (56) and blog (54) section.

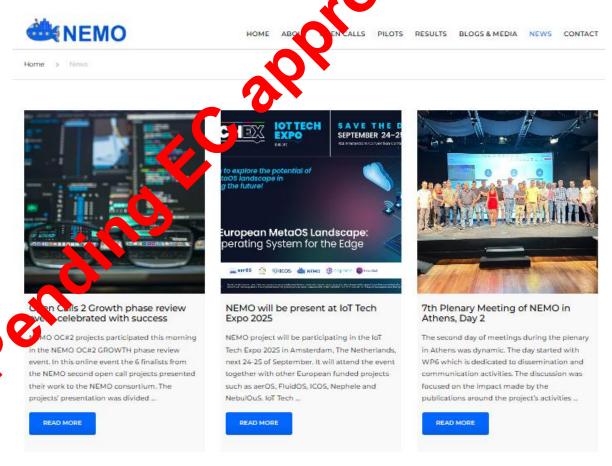


Figure 5 Project website - Consortium

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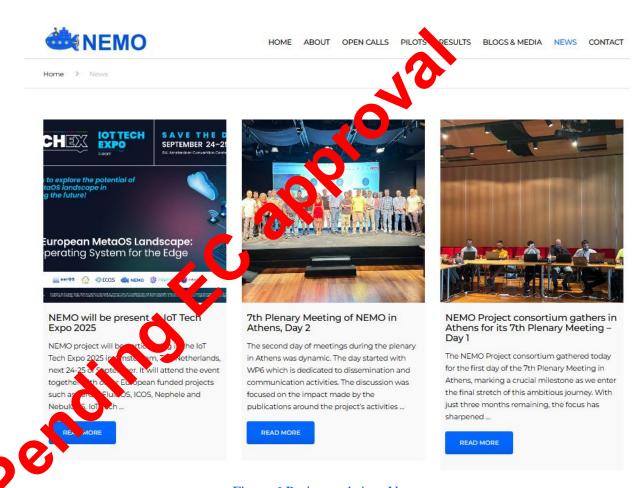


Figure 6 Project website - News

Along the project the section media has been created to showcase the materials submitted across the project. In this section there are 5 videos regarding the open calls webinars and some pilots. Also, there are uploaded 4 NEMO posters used throughout the project.

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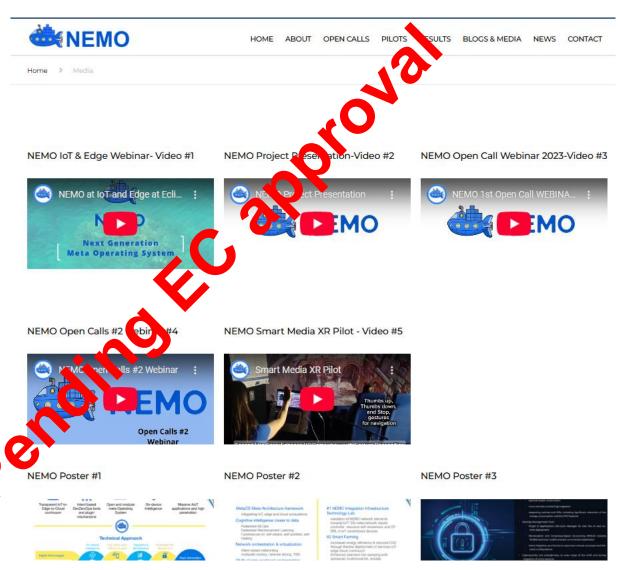


Figure 7 Project website - Media

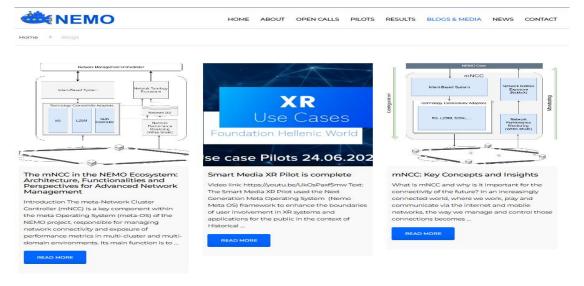


Figure 8 Project website - Blog

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In the current timeframe, the following blog entries are present:

Table 1 NEMO blogs

	Link	Title
1	https://meta-os.eu/index.php/2022/09/01/mry-nx-iot-edge-computing/	FUTURE EUROPEAN PLATFORMS FOR THE EDGE: META- OPERATING SYSTEMS
2	https://meta-os.eu/inde_hp/2022/10/27/our-public-repository-at-zenodo-is-live/	OUR PUBLIC REPOSITORY AT ZENODO IS LIVE!
3	https://meta-os.a.vadev.php/2022/10/25/getting-started-with-nemo-introducing-wavere/	Getting started with NEMO, introducing Cumucore
4	https://met -os_u/index.php/2022/12/05/emotion-in-nemo/	Emotion in NEMO
5	https://nemo-youtube-channel- life_lly-opened/	NEMO YOUTUBE CHANNEL OFFICIALLY OPENED!
6	https://meta-os.eu/index.php/2023/01/27/nemo-at-eucloudedgeiot-workshop-in-toulouse/	NEMO at EUcloudedgeIoT workshop in Toulousse
7	https://meta-os.eu/index.php/2023/01/30/nemo-celebrates-the-internationl-data-protection-day/	NEMO celebrates the international data protection day
8	https://meta-os.eu/index.php/2023/02/10/special-issue-recent-advances-and-challenges-in-iot-cloud-and-edge-coexistence/	SPECIAL ISSUE: RECENT ADVANCES AND CHALLENGES IN IOT, CLOUD AND EDGE COEXISTENCE
9	https://meta-os.eu/index.php/2023/03/15/innovation-at- universidad-politecnica-de-madrid-the-role-of-gatv-in-artificial- intelligence-and-immersive-media/	Innovation at Universidad Politécnica de Madrid: The Role of GATV in Artificial Intelligence and Immersive Media
10	Our first newsletter is here! - META-OS	OUR FIRST NEWSLETTER IS HERE
11	https://meta-os.eu/index.php/2023/04/21/nemo-at-embedded-world/	NEMO AT EMBEDDED WORLD
12	https://meta-os.eu/index.php/2023/05/03/madrid-plenary-meeting/	MADRID PLENARY MEETING
13	https://meta-os.eu/index.php/2023/05/08/windtre-in-nemo/	Wind Tre in NEMO
14	https://meta-os.eu/index.php/2023/05/17/2997/	ABOUT MAGGIOLI

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	Link	Title
15	https://meta-os.eu/index.php/2023/05/17/netto-yer/cipated-in-the-concertation-and-consultation-on-computag-continuum-that-took-place-in-brussels-in-may/	NEMO PARTICIPATED IN THE "CONCERTATION AND CONSULTATION ON COMPUTING CONTINUUM" THAT TOOK PLACE IN BRUSSELS IN MAY
16	https://meta-os.eux.nd/x.php/2023/05/23/nemo-project-explains-use-case-smort-farning-on-an-online-workshop-organised-by-eu_cloude_gen_/	NEMO PROJECT EXPLAINS USE CASE SMART FARMING ON AN ONLINE WORKSHOP ORGANISED BY EU_CLOUDEDGEIO T
17	http://www.space.gr/uploads/ff/172ab095d353e7b2be119084854 a-c3.pdf https://meta-os.eu/index.php/2023/06/05/putting-intelligence-into-things-an-overview-of-current-architectures/	Annual Analysts Update Putting Intelligence into Things: An Overview of Current
19	https://meta-os.eu/index.php/2023/06/23/nemo-participates-on-the-aiot-webinar-in-june/	Architectures
20	https://meta-os.eu/index.php/2023/06/23/space-hellas/	SPACE HELLAS
21	https://meta-os.eu/index.php/2023/06/30/continental/	CONTINENTAL
22	https://meta-os.eu/index.php/2023/07/13/telefonica/	TELEFÓNICA I+D
23	https://meta-os.eu/index.php/2023/07/13/sphynx-technology-solutions-sts/	SPHYNX TECHNOLOGICAL SOLUTIONS
24	https://meta-os.eu/index.php/2023/07/19/nemo-meeting-kong/	NEMO MEETING KONG
25	https://meta-os.eu/index.php/2023/07/31/netcompany-intrasoft/	INTRASOFT
26	https://meta-os.eu/index.php/2023/08/01/the-first-open-call-of-nemo-has-been-published-today/	THE FIRST OPEN CALL OF NEMO HAS BEEN PUBLISHED TODAY!
27	https://meta-os.eu/index.php/2023/08/02/synelixis/	SYNELIXIS
28	https://meta-os.eu/index.php/2023/08/11/iccs/	ICCS
29	https://meta-os.eu/index.php/2023/08/21/novomatix/	NOVOMATIX
30	https://meta-os.eu/index.php/2023/09/01/simavi/	SIMAVI
31	https://meta-os.eu/index.php/2023/09/01/the-submissions-portal-for-the-first-nemo-open-call-is-open/	THE SUBMISSIONS PORTAL FOR THE FIRST NEMO OPEN CALL IS OPEN

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	Link	Title
32	https://meta-os.eu/index.php/2023/09/05/nemo_orc.xct-publishes-federated-resilience-enhanced-with-different all vir acy-fredy-in-the-journal-future-internet/	NEMO PROJECT PUBLISHES "FEDERATED RESILIENCE ENHANCED WITH DIFFERENTIAL PRIVACY (FREDY)" IN THE JOURNAL FUTURE INTERNET
33	https://meta-os.eu/index.php/2/2/2/2/05. \\7/ote/	OTE
34	https://meta-os.eu/and/_pb//2023/09/12/3152/	NEMO project to present NEMO – Open Call #1 in EUCloudEdgeIoT.eu organized webinar
35	https://meta-s.eu/index.php/2023/09/22/eng/	ENG
36	https://met.co/e_/index.php/2023/09/27/nemo-project- presectation-wat-is-it/	NEMO PROJECT PRESENTATION, WHAT IS IT?
37	ats stymeta-os.eu/index.php/2023/09/27/nemo-project-open-calls-lained/	NEMO PROJECT OPEN CALLS EXPLAINED
38	https://meta-os.eu/index.php/2023/09/27/rwth/	RWTH
39	https://meta-os.eu/index.php/2023/09/29/nemo-partners-reunite-in-athens-for-their-4th-plenary-meeting/	NEMO PARTNERS REUNITE IN ATHENS FOR THEIR 4TH PLENARY MEETING
40	Our newsletter of September is now live - META-OS	OUR SEPTEMBER NEWSLETTER IS NOW LIVE
41	https://meta-os.eu/index.php/2023/10/03/atos/	ATOS
42	https://meta-os.eu/index.php/2023/10/10/unveiling-the-power-of-meta-orchestration-in-the-nemo-project/	UNVEILING THE POWER OF META- ORCHESTRATION IN THE NEMO PROJECT
43	https://meta-os.eu/index.php/2023/10/16/alto-the-protocol-designed-for-uninterrupted-netflix-viewing/	ALTO: THE PROTOCOL DESIGNED FOR UNINTERRUPTED NETFLIX VIEWING
44	https://meta-os.eu/index.php/2023/10/18/asm/	ASM
45	https://meta-os.eu/index.php/2023/10/23/nemo-project-was-present-in-esaam-2023/	NEMO PROJECT WAS PRESENT IN ESAAM 2023
46	https://meta-os.eu/index.php/2023/10/25/open-call-1-webinar/	OPEN CALL #1 WEBINAR
47	https://meta-os.eu/index.php/2023/10/26/about-sorbonne-university/	ABOUT SORBONNE UNIVERSITY

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	Link	Title
48	https://meta-os.eu/index.php/2023/10/30/introducing-the_o-project-on-gitlab/	INTRODUCING THE NEMO PROJECT ON GITLAB
49	https://meta-os.eu/index.php/2023/11/03/found ato_of-the-hellenic-world-fhw/	ABOUT FWH
50	https://meta-os.eu/index.php/2023/11/06 ex-powering-smarter-cities-with-aiot-revolutionizing-urban-lx-in-	EMPOWERING SMARTER CITIES: PART 1
51	https://meta-os.eu/index.php/20/3/1/09/nemo-project-will-be-present-in-the-event-gi/Mg-energy-an-edge/	NEMO PROJECT WILL BE PRESENT IN THE EVENT "GIVING ENERGY AN EDGE"
52	https://meta-os. Videx.php/2023/11/14/entersoft-s-a/	ENTERSOFT S.A
53	https://meta-cs.eu/index.php/2023/11/14/empowering-smarter-cities-with aio sevolutionizing-urban-living-2/	EMPOWERING SMARTER CITIES: PART 2
54	http://k.eta-os.eu/index.php/2023/11/15/gpu-acceleration-in- an keinels-using-cricket-gpu-virtualization/	GPU Acceleration in Unikernels Using Cricket GPU Virtualization
55	https://meta-os.eu/index.php/2023/11/24/tsg/	tsg
56	https://meta-os.eu/index.php/2023/11/28/the-data-governance-act-entered-into-application-september-2023/	THE DATA GOVERNANCE ACT ENTERED INTO APPLICATION SEPTEMBER 2023
57	https://meta-os.eu/index.php/2023/12/13/navigating-the-future-understanding-the-new-european-law-on-artificial-intelligence/	NAVIGATING THE FUTURE: UNDERSTANDING THE NEW EUROPEAN LAW ON ARTIFICIAL INTELLIGENCE
58	https://meta-os.eu/index.php/2023/12/14/smart-energy-living-lab-in-terni/	SMART ENERGY LIVING LAB IN TERNI
59	https://meta-os.eu/index.php/2023/12/15/nemo-project-at-the-webinar-standards-ai-iot-and-digital-twin-in-the-making/	NEMO PROJECT AT THE WEBINAR "STANDARDS (AI, IOT AND DIGITAL TWIN) IN THE MAKING"
60	https://meta-os.eu/index.php/2023/12/21/aegis/	LIVING LABS: ENERGY
61	https://meta-os.eu/index.php/2024/01/08/eclipse-foundation/	ECLIPSE FOUNDATION
62	https://meta-os.eu/index.php/2024/01/25/nemo-co-organizes- mecc-2024-workshop-at-acm-eurosys-2024/	NEMO CO- ORGANIZES MECC 2024 WORKSHOP

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	Link	Title
	10	AT ACM EUROSYS 2024
63	https://meta-os.eu/index.php/2024/02/08/net o-was-presented-at-the-30th-anniversary-international-exhibation-agrotica-2024/	NEMO WAS PRESENTED AT THE 30TH ANNIVERSARY INTERNATIONAL EXHIBITION AGROTICA 2024.
64	Illustrating the Transit smar we Power of AI, IoT, Edge, and Cloud Convergence: Sciar or Cities Use Cases - META-OS	ILLUSTRATING THE TRANSFORMATIVE POWER OF AI, IOT, EDGE, AND CLOUD CONVERGENCE: SMARTER CITIES USE CASES
65	https://n.ta-ose.d/index.php/2024/03/14/pi-a-very-special-	PI A VERY SPECIAL NUMBER
66	## 8://meta-os.eu/index.php/2024/03/15/nemo-5th-plenary-neeting-was-celebrated-in-madrid/	NEMO 5TH PLENARY MEETING WAS CELEBRATED IN MADRID
67	https://meta-os.eu/index.php/2024/03/18/breaking-boundaries-the-evolution-of-5g-access-in-integrated-networks/	"Breaking Boundaries: The Evolution of 5G Access in Integrated Networks"
68	https://meta-os.eu/index.php/2024/04/01/multisite-gaming-streaming-optimization-over-virtualized-5g-environment-using-deep-reinforcement-learning-techniques/	MULTISITE GAMING STREAMING OPTIMIZATION OVER VIRTUALIZED 5G ENVIRONMENT USING DEEP REINFORCEMENT LEARNING TECHNIQUES
69	Our April's newsletter is out! - META-OS	OUR APRIL'S NEWSLETTER IS OUT!
70	https://meta-os.eu/index.php/2024/04/17/nemo-in-the-1st-automation-robotics-expo/	NEMO IN THE 1ST AUTOMATION & ROBOTICS EXPO!
71	https://meta-os.eu/index.php/2024/04/22/review-on-the-communications-and-dissemination-activities-of-nemo/	Review on the Communications and Dissemination Activities of NEMO
72	https://meta-os.eu/index.php/2024/04/23/reviewing-nemo-living-labs-work-package/	REVIEWING NEMO LIVING LABS WORK PACKAGE

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	Link	Title
73	https://meta-os.eu/index.php/2024/04/30/nemo-present-ig-lece-	NEMO PRESENT IN
74	https://meta-os.eu/index.php/2024/05/08/call-for-spet-fedcsis-conference-2024/	MECC 2024 CALL FOR PAPERS FEDCSIS CONFERENCE 2024
75	https://meta-os.eu/index.php/2024/06/02/sec.no-project-was-present-in-the-regional-growth-coclere ce 3024/	NEMO PROJECT WAS PRESENT IN THE REGIONAL GROWTH CONFERENCE 2024
76	https://meta-os.eu/ind/2hp/2024/05/24/rd-eu-programme-for-smart-grids-asm-terni -exposience/	R&D EU Programme for Smart Grids: ASM Terni's Experience
77	https://meta-os.eu/h.z.ex.php/2024/05/30/challenger-blockchain-based-mas.iv.v-multiplayer-online-game-architecture/	Challenger: Blockchain-based Massively Multiplayer Online Game Architecture
78	https://weta-os.eu/index.php/2024/06/18/a-software-defined- und tivity-service-for-multi-cluster-cloud-native-applications/	
79	** s://meta-os.eu/index.php/2024/06/18/open-calls-2-now-open/	OPEN CALL #2 IS NOW OPEN
26	https://meta-os.eu/index.php/2024/06/19/nemo-attends-the-open-continuum-final-conference-2024/	NEMO ATTENDS THE OPEN CONTINUUM FINAL CONFERENCE 2024
81	https://meta-os.eu/index.php/2024/06/28/open-source-in-next-generation-meta-operating-systems-nemo/?_thumbnail_id=3808	OPEN SOURCE IN NEXT GENERATION META OPERATING SYSTEMS (NEMO)
82	https://meta-os.eu/index.php/2024/07/10/open-call-2-webinar/	OPEN CALL #2 WEBINAR
83	https://meta-os.eu/index.php/2024/07/18/nemo-open-calls-2-webinar/	NEMO OPEN CALLS #2 WEBINAR
84	https://meta-os.eu/index.php/2024/08/22/olive-tree-segmentation-from-uav-imagery/	OLIVE TREE SEGMENTATION FROM UAV IMAGINERY
85	NEMO celebrates its 6th General Meeting in Bolonga - META- OS	NEMO celebrates its 6th General Meeting in Bolonga
86	https://meta-os.eu/index.php/2024/09/26/nemo-was-present-at-the-unlock-cei-event-in-brussels/	NEMO was present at the Unlock CEI event in Brussels
87	https://meta-os.eu/index.php/2024/09/27/nemo-attends-aioit-days-2024/	NEMO attends AIOIT Days 2024
88	https://meta-os.eu/index.php/2024/09/27/nemo-smart-farming-use-case-voted-the-first-metaos-industrial-pilot/	NEMO Smart Farming Use Case voted the first MetaOS industrial pilot

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	Link	Title
89	National Cybersecurity Awareness Month: A Call to Sect & Our Digital Future - META-OS	National Cybersecurity Awareness Month: A Call to Secure Our Digital Future
90	https://meta-os.eu/index.php/2024/10/07/interview-with-terpsivelivassaki-technical-aspects-of-nemocoxph ned/	Interview with Terpsi Velivassaki, technical aspects of NEMO explained
91	https://meta-os.eu/index.php/2021/10-5/nemo-metaos-and-data-spaces-a-vision-for-the-future/	NEMO metaOS and Data Spaces: A Vision for the Future
92	https://meta-os.ec/index_np/2024/11/14/smart-media-city-cloud-edge-iot-solution cor-modern-day-media-at-infoworld-conference-2024/	Smart Media/City: Cloud-Edge-IoT Solutions for Modern- Day Media at Infoworld Conference 2024
93	Into case g Network & Service Management in the Cloud-Edge- co Continuum - META-OS	Integrating Network & Service Management in the Cloud-Edge-IoT Continuum - META-OS
94	Our newsletter is out! - META-OS	Our newsletter is out!
95	https://meta-os.eu/index.php/2025/01/23/nemo-online-general-meeting-a-milestone-looking-for-next-steps/	NEMO online General Meeting, a milestone looking for next steps
96	https://meta-os.eu/index.php/2025/02/08/nemo-attended-datamite-project-meetup-in-athens/	NEMO attended DATAMITE Project Meetup in Athens
97	https://meta-os.eu/index.php/2025/02/20/eviden-hosted-the-2-day-technical-meeting-in-madrid/	Eviden hosted the 2- day technical meeting in Madrid
98	https://meta-os.eu/index.php/2025/05/08/nemo-was-present-at- caa2025-conference-2025/	NEMO was present at CAA2025 Conference 2025
99	https://meta-os.eu/index.php/2025/05/10/nemo-project-accommplishes-the-smart-media-city-pilot/	NEMO project accommplishes the Smart Media City Pilot
100	https://meta-os.eu/index.php/2025/05/27/mncc-key-concepts-and-insights/	mNCC: Key Concepts and Insights
101	https://meta-os.eu/index.php/2025/07/01/nemo-project-consortium-gathers-in-athens-for-its-7th-general-meeting-day-1/	nemo CONSORTUI
102	https://meta-os.eu/index.php/2025/07/02/7th-plenary-meeting-of-nemo-in-athens-day-2/	7th Plenary Meeting of NEMO in Athens, Day 2
103	https://meta-os.eu/index.php/2025/07/07/nemo-will-be-present-at-iot-expo-2025/	NEMO will be present at IoT Expo 2025
104	https://meta-os.eu/index.php/2025/07/10/mncc-for-pros/	The mNCC in the NEMO Ecosystem: Architecture,

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	Link	Title
		Functionalities and Perspectives for Advanced Network Management
105	https://meta-os.eu/index.php/2025/09/26/net o-was-present-at-tech-expo-europe-2025-in-amsterdam/	NEMO was present at Tech Expo Europe 2025 in Amsterdam
106	https://meta-os.eu/index.php/2025/62.76/2 ve-booth-a-meta-os-world/	One booth, a Meta-OS world
107	https://meta-os.eu/index-php/20.509/26/meta-operating-systems-for-the-next-generation-iot-and-edge-computing/	Meta-Operating Systems for the Next Generation IoT and Edge Computing

All the features from the website could be found at NEMO's Deliverable D6.1 – Project Web site & Social Channels. Figating the website, over the last month more than 10% of the users visited the NEMO website street to more than one page (they navigated through the several pages offered by the NEMO website).

In summery, long the project 110 blog post have been written.

Over II, during the last 12 months, we had a total of 468221 visits, I regret to say that over the last 1 worth we had a decrease of 11426 visits compared to the previous one, (46614 total visits over the last month July 25). On average a user visits 12 pages each time he visits the NEMO website.

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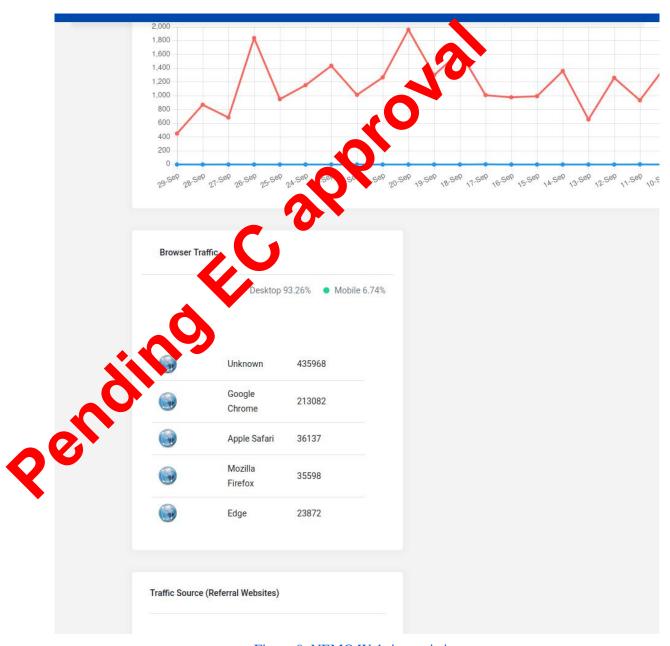


Figure 9 NEMO Website statistics

Concerning the online channels we have experienced a loss of followers in the X account. This has been experienced due to external projects aside of the project. This loss has not been extreme but accountable for the final numbers.

Within the whole community of NEMO, we have reached a potential cipher of 900 subscribers.

2.2 Online Channels

The NEMO project is present on several social media channels, including Twitter, LinkedIn, and YouTube, in order to reach a wider audience and increase visibility for the project.

Twitter: NEMO project uses Twitter to share daily news, updates, and other relevant information about the project, as well as to engage with the community by retweeting and responding to tweets from other users. NEMO's twitter account has 212 followers and 270 posts. YouTube account has 14 videos on the project and 34 followers.

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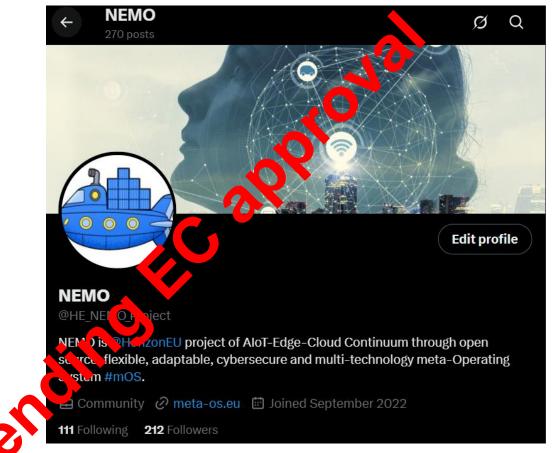


Figure 10 Twitter profile

LinkedIn¹: Nemo project uses LinkedIn to connect with other professionals in the field, share information about the project, and to build relationships with potential collaborators. NEMO's LinkedIn account has 298 connections, 402 followers and 95 posts.



NEMO PROJECT ② Add verification badge

Horizon Europe Project NEMO

Brussels, Brussels Region, Belgium · Contact info

https://meta-os.eu/

298 connections

Figure 11 LinkedIn profile

¹ https://www.linkedin.com/in/HE-NEMO/

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YouTube²: Nemo project uses YouTube to share videos about the project, such as project presentations, demos, and webinars. YouTube also allows the project to easily share the videos in other social media platforms. NEMO's YouTube account has 34 subscribers and 703 ft. dizations during the whole period of the project.

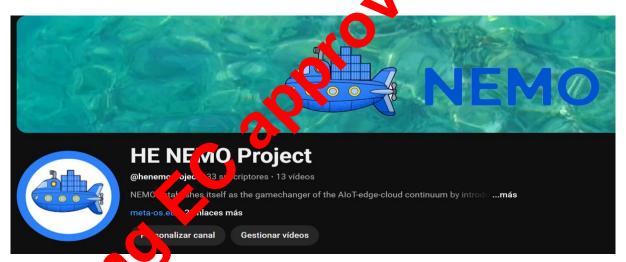


Figure 12 YouTube channel

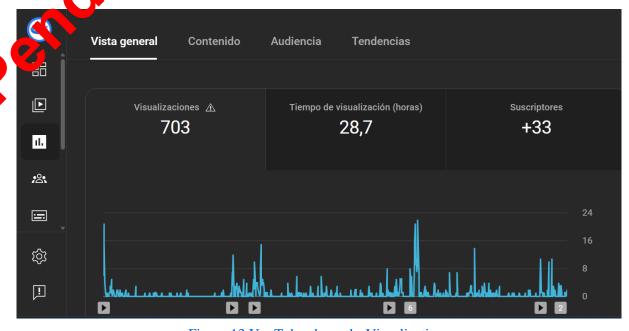


Figure 13 YouTube channel - Visualizations

Zenodo (https://zenodo.org/communities/he-nemo/?page=1&size=20) is a research data repository that provides a platform for researchers, scientists, and developers to store, share, and cite their research data. The Nemo project is using Zenodo to store and share all project deliverables and outputs, including research papers, reports, and datasets.

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² https://www.youtube.com/@henemoproject



As **publications** along the project, you can find the following:

Table 2 List of NEMO publicati

List of publications

Open Source approach in two metaOS projects

Rosaria Rossini, Marco Jahn, Anastasios Zafeiri oot os, Nikos Filinis, Dimitrios Spatharakis, Ioannis Dimolitsas, Eleni Fotopoulou, Constantinos Hossinakis, Symeon Papavassiliou, Theodore Zahariadis, Ilias Nektarios Seitanidis, Enric Pages, Gullerro Gomez, Sergiy Remezov Grynchenko

Comparative Analysis of A. C and PPO Algorithms in Reinforcement Learning: A Survey on General Environments

Albert del Rio, David Jin. ez avier Serrano

Olive Tree Segon made from UAV Imagery

Konstantino Prusalidis, Stavroula Bourou, Terpsichori-Helen Velivassaki, Artemis Voulkidis, Aikateri Prusalidis, Vassilios Zachariadis

Approximate representations applications ware-defined connectivity service for multi-cluster cloud native applications

Kaul Martin, Ivan Vidal, Francisco Valera

Open Source in NExt generation Meta Operating systems (NEMO)

Rosaria Rossini , Terpsichori-Helen Velivassaki, Theodore Zahariadis, Panagiotis Karkazis, Dimitrios Skias, Enric Pere Pages Montanera, Artemis Voulkidis

Challenger: Blockchain-based Massively Multiplayer Online Game Architecture

Boris Chan Yip Hon, Bilel Zaghdoudi, Maria Potop-Butucaru, Sébastien Tixeuil, Serge Fdida

FREDY: Federated Resilience Enhanced with Differential Privacy

Anastasakis Z, Velivassaki T-H, Voulkidis A, Bourou S, Psychogyios K, Skias D, Zahariadis T.

Multisite gaming streaming optimization over virtualized 5G environment using Deep Reinforcement Learning techniques

A. del Rio, J. Serrano, D. Jimenez, Luis M. Contreras, F. Alvarez

Putting Intelligence into Things: An Overview of Current Architectures

Maria Belesioti, Ioannis Chochliouros, Panagiotis Dimas, Manolis Sofianopoulos

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List of publications

NEMO: Building the Next Generation Meta Operating System

Ioannis P. Chochliouros, Enric Pages-Montanera, Aitor Alc var Fernández, Theodore Zahariadis, Terpsichori-Helen Velivassaki, Charalabos Skianis, Rosaina Rossini, Maria Belesioti, Nikolaos Drosos, Emmanouil Bakiris, Prashanth Kumar Pedhola, Pinagiotis Karkazis, Astik Kumar Samal, Luis Miguel Contreras Murillo, Alberto Del Río, Jac er Serrano, Dimitrios Skias, Olga E. Segou, and Sonja Waechter

On the Challenge of Sound Code for our ing Systems

Jonathan Klimt, Martin Kröning Stefan Lankes, Antonello Monti

GPU Acceleration in Universals Using Cricket GPU Virtualization

Niklas Eiling, Martin Kröning, Jonathan Klimt, Philipp Fensch, Stefan Lankes, Antonello Monti

Data Poisoning Attacks in Gossip Learning

Alexan re nam, Maria Potop-Butucaru, Sébastien Tixeuil, Serge Fdida

Participation in Events

This section includes the following table that summarizes the events where the project has participated in the past. The table provides information about the event, including the date, and a brief description of the project's contribution.

Table 3 Nemo events

ID	Resp.	Type	Title	Contribution	Organizers	Date
1	SYN, ATOS	Cluster Meeting	Introduction one- to-one call with UNLOCK CEI to understand the tech to be developed and ambition related to market- readiness.	NEMO Presentation	UNLOCK CEI	October 21st 2022
2	ECL	Conference	EclipseCon 2022	Research Booth	Eclipse	October 24- 27th 2022
3	ATOS, SYN	Workshop	aer_OS Workshop on State of Art and Market Analysis	Attendance	AerOS Project	November 29th 2022
4	SYN, ECL	Webinar	IoT and Edge at Eclipse: Making Sense of the Puzzle	NEMO presentation	Eclipse and EUCloudEdgeIoT CSA	December 7th 2022

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ID	Resp.	Type	Title	Contribution 🔷	Organizers	Date
5	SYN	Workshop	LeADS Advanced Digital Skills Workshop	Attendance an participation	eADS CSA	December 15th 2022
6	ECL, UPM	Congress	Embedded World 2023, Nuremberg	Booth	Embedded World	March 14th- 16th 2023
7	ECL, UPM	Conference	Eclipse SAAM 2023	Conference Cyanization	Eclipse, UPM & UoM	October 2023
8	SYN, ATOS	Cluster Meeting	Introduction one- to-one call with UNLOCK Char- understand to the to be level ped and and an area on related to market- readiness.	NEMO presentation UNLOCK CEI		October 21st 2022
9	SYN	ebinar	IoT, Cloud, Edge Computing Continuum From Research to Deployment	NEMO Smart Farming presentation	AIOTI/EUCloudE dgeIoT	November 30th 2022
	CE	Conference	24th Infocom World Conference	NEMO presentation	OTE	November 30th 2022
	SYN	Cluster Meeting	EUCloudEdgeIo T TF4 and TF5 Kick-off meeting	NEMO use cases contribution	EUCloudEdgeIoT CSA	January 16th 2023
12	SYN, UPM	Info Day	Horizon Europe Info Day and Pitch Session on the Work Programme 2023-2024, destination "World leading data and computing technologies"	Questionnaires sent from UPM. SYN will attend the event.	EC, OpenContinuum CSA	January 30th 2023
13	SYN, UPM	Cluster Meeting	Concertation Meeting across all research and innovation projects in the Cloud-Edge-IoT community, to exchange ideas and find common views on research topics, challenges, and gaps for the next 2-4 years	Questionnaires sent from UPM.	EC, OpenContinuum CSA	February 8th 2023

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ID	Resp.	Type	Title	Contribution (Organizers	Date
14	ECL, UPM	Congress	Embedded World 2023, Nuremberg	Booth	Embedded World	March 14th- 16th 2023
15	ECL, ATOS	Congress	Concertation and Consultation on Computing Continuum: From Cloud to Edge to IoT	Pitch Cocon	The Claridge, Brussels (Belgium)	May 9, 2023 - May 11, 2023
16	ОТЕ	Conference /worksho	19th International Conference of Artificial Mulligence Applications and Instantions (AIAI 2023)/8th 5G-PINE Workshop	Paper Presentation acknowledging NEMO.	Democritus University of Thrace (D.U.Th.), University of Piraeus, Universidad de León	14 – 17 June, 2023
17	ECL, UPM	Comer ace	Eclipse SAAM 2023	Conference Organization	Eclipse, UPM & UoM	October 2023
18	C E	Conference	eSAAM 2023 on Cloud-to-Edge Continuum	NEMO concept paper submission & presentation	Eclipse	October 17th 2023, Germany
S	ОТЕ	Conference	25th Infocom World Conference	NEMO tutorial		December 14th 2023
20	UPM	Conference	HiPEAC 2024, High Performance, Edge And Cloud computing	Contribution to the discussion	HM Hochschule München University of Applied Sciences	January, 17- 19 2024
21	SYN		Agrotica 2024	NEMO presentation Stand		February, 1-4 2024
22	SYN	Exhibition	1st Automation & Robotics Exhibition	Smart Farming		April, 12-14 2024
23	SYN	Panel Discussion	MECC 2024	Panel discussion "Meta operating Systems for The Edge Continuum: Current status, trends, and Challenges".		April, 22nd, 2024
24		Workshop	Regional Growth Conference 2024	Workshop "Augmented Reality for the Industry: A hands-on session"	Peloponnisu Newspaper, Patras, Greece	May, 30th - June, 1st
25	UPM	Workshop	EuCNC & 6G Summit 2024	Workshop "Next Generation Meta-	Antwerp	3-6 June 2024

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ID	Resp.	Type	Title	Contribution (Organizers	Date
				Operating System for AIoT Edge Cloud continuum		
26			Open Continuum Final Conference 2024	Presentation of NF MO project in as arch Panel recarding META	Brussels (Belgium) EUCloudEdgeIoT .ee	18th, June 2024
27	ECL	Special session	%F.TTech 2024	Special Session on Blockchain applications and Cybersecurity Solutions Split-Bol		June, 25- 28th
28	FHW	Presented n of pilot 5 f a. stuce s stry	Unlock CEI 2024	Session: Supply demand dialogue. Smart Media City Pilot Project	Session: Supply lemand dialogue. Brussels, Belgium	
29	SVN	Panel discussion	AIOTI Days 2024	Cloud Edge -IoT technologies at the service of European sustainable Manufacturing Industries	Brussels, Belgium	24-25 September2 024
30	SYN	Panel discussion	Unlock CEI	Presentation of Smart Farming pilot	Brussels, Belgium	September2 024
31	INTRA	Workshop	eSAAM 2024	Particpation in Data Spaces	Meinz, Germany	October, 2024
32	FHW	Presentatio n of pilot 5.5	26th Edition InfoWorld Conference 2024	Smart Media/City: Cloud Edge IoT solutions for modern-day Media	Athens, Greece	12th November, 2024
33	INTRA	Presentaito n NEMO	26th Edition InfoWorld Conference 2024	Network and Service Management in the Cloud Edge- IoT Contiunuum	Athens, Greece	12th November, 2024
34	OTE	Project Meetup	DATAMITE 2025	Booth	Athens, Greece	February, 6 2025
35	FHW	Workshop	52nd edition of the CAA International Conference	Presentation of NEMO and the Smart Media XR Pilot	University of West Attica, Athens, Greece	May, 9th 2025
36	ATOS, ALL	Final Event	Tech Expo 2025	Presentation of NEMO and its Use Cases along with other 5	Amsterdam	24-25 September 2025

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ID	Resp.	Type	Title	Contribution (Organizers	Date
				META OS projects		
37	ECL, ATOS	OSCD	Open source community Day	Presentation of NEMO open source res Its	Madrid	23-24 September 2025

For the final event several representatives of the project's consortium partners attended. For this event promotional material was specially created uch as a promotional video³ to showcase the project in a screen located in the booth, Figure 14 calls a poster recollecting the findings of the project was delivered to the EU Commission. Besides has a roll-up was jointly created along with the other five META OS projects that were attending the venue, Figure 15.

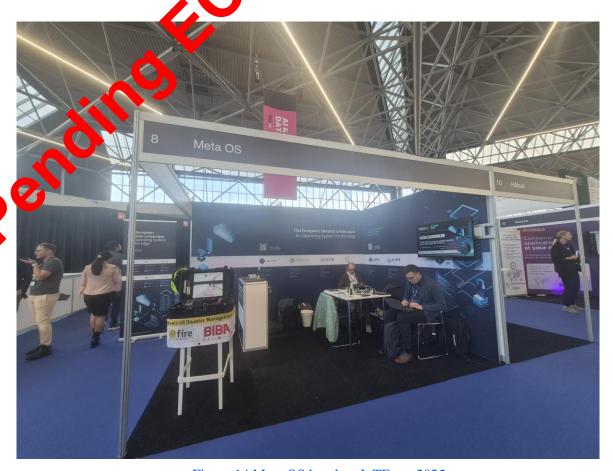


Figure 14 Meta OS booth at IoTExpo 2025

³ https://www.youtube.com/watch?v=RVHUiq4vgmE

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Figure 15 Meta OS promotional roll-up

The event was an opportunity to show our work as a project and the solutions provided within the Use Cases, especially regarding Smart Farming, Smart City XR, Smart Industry and Mobility.

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Figure 16 Group Photo in Tech Expo 2025 (Amsterdam)

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3 Standardization

NEMO followed the Standardization Strategy already developed by the European Commission for a greener and more digital economy within the Single Market. There are five main activities to be performed according to this:

- Support innovation at all levels.
- Leverage Europe as a reference in global standards.
- Improve the European standard att 1 system.
- Identify, prioritise and address gas in strategic areas.
- Enable the next generation of experts.

According to this, NEMC no only adopted some standards or de facto standards during the development, the consorture monitored and investigated any related standard, even if it is not being used within the project, to be ray any gap or potential contribution from project results. In fact, TSG is co-chairing the 6G-IA security working group. In particular, the 6G-IA Security working group aims to bring together the projects within the 6G SNS-IA that have a common interest in the development and progression. Stoppes elated to 6G security. The group ensures that the projects are working in a complimentary namer towards consistent goals, exchanging ideas, minimizing the duplication of effort, contributing a twards relevant standards and where possible cooperating on the development of compatible components, the exchange of expertise, experience and results. Through its presence in the WG SSC has disseminated the results of NEMO mainly the usage of cybersecure federated deep rein orcement learning in the meta-orchestrator and its utility in decision making and optimal or nestrating workloads.

Finally, during NEMO development, the consortium was able to make contribution to some standards bodies such as IETF/IRTF and ISO/IEC:

Y. Lee, X. Liu, L.M. Contreras, "DC aware TE topology model", draft-llc-teas-dc-aware-topomodel-03 (work in progress), July 2023 (https://www.ietf.org/archive/id/draft-llc-teas-dcaware-topo-model-03.txt). Relation to NEMO: This draft proposes a YANG model for describing the compute resources connected to a network topology. This can be used for upper control and management systems in order to select the more convenient edge/could environments for deployment of workloads taking into consideration not only compute capabilities but also networking ones in terms of traffic engineering. A new version of the document (https://www.ietf.org/archive/id/draft-llc-teas-dc-aware-topo-model-04.txt) served as basis for discussion in regards the formation of a potential working group within IETF. The initiative behind that, named Neotec (Network Operations in Telecom Cloud), proposes to address the emergence of "Telecom Cloud Service Providers (TCSPs)" in the era of cloud computing. The TCSPs refer to network operators who have deployed their own clouds infrastructure, particularly numerous edge clouds where services are hosted and have strict performance requirements, such as low latency or high bandwidth. The performance of cloud services delivery of TCSPs heavily relies on the efficient combined management and coordination between the clouds and the network infrastructure that interconnect them. Neotec has met in several side meetings in IETF (IETF 121 in November 2024 - see materials at https://github.com/xiechf974/NeoTec-IETF121-, and IETF 122 in March 2025 – see materials at https://github.com/xiechf974/NeoTec-IETF121) and the activity has been considered for a new formed working group named ONIONS (Operationalizing Network & service abstractIONS).

⁴ https://ec.europa.eu/docsroom/documents/48598

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- L.M. Contreras, M. Boucadair, D. Lopez, C.J. Bernald's "An Evolution of Cooperating Layered Architecture for SDN (CLAS) for Compute and Data Awareness", draft-contrerascoinrg-clas-evolution-01 (work in progress), July 2023, https://www.ietf.org/archive/id/draft-contreras-coinrg-clas-evolution-01.txt). Relation to LEMO: This draft proposes an architecture for inter-related control and management car abhases for services, connectivity and compute environments, where planes for control, records and data (focusing AI/ML) are interconnected and collaboratively interacting. One with scenarios of applicability is the cloud-edge continuum case. This document has produced two incremental versions in October 2023 and July 2024 (see https://datatracker.ight.org/doc/draft-contreras-coinrg-clas-evolution/).
- Luis M. Contreras, Paolo (wente. "Interconnection Intents" (work in progress) (https://www.ietf.org/ac.mve/id/draft-contreras-nmrg-interconnection-intents-04.txt). Relation to NEMO: the contribution proposes the usage of intents for expressing evolved interconnection services, i.e., not analy a peering. For instance, need of connecting services / applications in different administrative domains, identification of resources on those domains, etc. These intents target similar nigh-level objectives as NEMO in regard to underlying technologies, addressing the age-cloud continuum goals where NEMO is focused. Similar kind of intents could be use // le ined in NEMO (on-going work).
- Luis M Contreras, Paolo Lucente, Terpsichori Helen Velivassaki. "Interconnection Intents" (on a progress) (https://www.ietf.org/archive/id/draft-contreras-nmrg-interconnection-itte-is-05.txt). Relation to NEMO: the contribution extends the proposal for using intents for excessing interconnection among services running at different parts of the edge and cloud ontinuum. These intents can be combined with other intents within NEMO, addressing the edge-cloud continuum goals in both network and container management functions. Similar kind of intents are used / integrated in NEMO (on-going work).
- Furthermore, with the decision of the Network Management Research Group (NMRG) in IRTF of producing a single document with all the relevant intent-based use cases, the content of this draft has been moved to the "Use Cases and Practices for Intent-Based Networking" document (https://www.ietf.org/archive/id/draft-irtf-nmrg-ibn-usecases-00.txt) which has been adopted by NMRG and which can progress to become RFC. A new version of this document is being prepared for IETF 124 in November 2025.
- Thanks to its participation in EUCEI TF3 Architecture, NEMO has contributed to the initial version of the taxonomy and reference architecture for the continuum. A request for opening a Preliminary Work Item was presented during an ISO meeting in Helsinki (June 2024). The work started in December 2024 and first results were presented during a plenary in Canada (June 2025). The ISO/IEC SC41 committee accepted them, and an extension of 2 years was approved in order to develop the needed material to start the process for developing a new standard.
- Additionally, NEMO has presented a set of development patterns, based on the implementations done for the use cases, to the Advisory Group (AG) 35. The main goal of this group is to set up a repository with development patterns that can be used by any external stakeholder who needs to implement a solution for their verticals. Thus, a development pattern is considered a technical document presenting a problem and an agreed standardised solution that can be further reused. All contributions received positive feedback, and further work was requested to develop a standardised pattern for developing these technical documents. This pattern will be presented during the next ISO/IEC meeting to be held in November in Berlin.

The full description of the contributions presented above can be found in NEMO website⁵.

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⁵ https://meta-os.eu/index.php/contributions-to-standardization/



4 Communities Liaisons

In this section is presented the communities building activities but he place by the consortium to sustain the project results as well as objectives, their selection criteria, he action the consortium is putting in place to achieve these objectives.

The aim of the dissemination is to communicate the set lts, get to know the project, and build a strong network and interest in the NEMO project. On the project can start building a community. Once the dissemination and the on mulity building have played their role, the community liaison is the key to start creating the sust inactive of the NEMO project.

For this reason, the consortium is in relationship with several business and development communities. Each of this communities provides us the opportunity to present and be challenged on the different facets of our project.

4.1 Gaia-X

GAIA-X is a European private sector initiative for developing an open, federated and interoperable data infrastructure burn on our of digital sovereignty.

In this course, ATOS is a founding member of the global initiative and member of the Spanish Hub. Thus, A OS romoted NEMO and leveraged on Gaia- X Association, the Gaia-X Hubs, and the Gaia-X Care number.

AIOTI

RWTH pushed NEMO use cases at AIOTI WG 12: Smart Energy, CONTI to WG 11: Smart Manufacturing and SYN to WG 06: Smart Farming, aiming to engage early adopters, find prominent users and develop joint activities. A community building activity has been carried on with AIOTI during the AIOTI Days2024 and AIOTIDays20256 in Madrid.



NEMO ATTENDS AIOIT DAYS 2024

SEPTEMBER 27, 2024

Figure 17 NEMO presented in AIOTI days 2024

⁶ https://aioti.eu/aioti-days-2025/

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NEMO presented and sponsored the Open Source Community Day 025 7



Figure 18 NEMO presented and sponsored the Open Source Community Day 2025



Figure 19 NEMO presented and sponsored the Open Source Community Day 2025

⁷ https://www.eclipse.org/events/2025/oscd/

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4.3 DAIRO/BDVA

DAIRO is the updated version of the BDVA community, now in the proposition of the BDVA community, now in the proposition of the BDVA community.

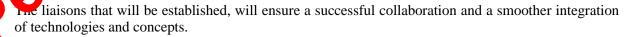
There are several ways of contributing to it, being the most relevant at this stage the participation in the EBDVF, as the reference annual event, where NEMC can organize or co-organize a workshop to show results in front of a multidisciplinary audience; (a. ve. participate within the BDVA Marketplace to offer tailored solutions for its community. ATOS, TSC, ENG, UPM are BDVA/DAIRO Board Members and lead SG13 Security (ENG), SG7 Mobility (1971, A), SG9 Agriculture (ATOS), SG4 Media (UPM), TF10 Data Sharing (INTRA).

4.4 5GPPP

Partners can heavily lever ge to MEMO framework to set the roots for the coming 5G and Smart Networks and Services it by rial partnerships as a key enabler of a trustworthy, resilient, sustainable and open next generation Io

Liaison with 5G PP process.

NEMO actively collaborated with other 5G PPP and non - 5GPPP projects. Several NEMO partners have been r are actively involved in 5G PPP Phase 1, Phase 2, and Phase 3 projects, and have long track red rd a establishing fruitful liaisons with other projects. As a matter of fact, NEMO builds up on the chaptered gained from previous work that the consortium has performed as part of the aforementioned projects.



4.5 NGI

NEMO is strongly aligned with the NGI core values and intends to collaborate in NGI community activities, such as outreach, event organisation and webinars

4.6 Eclipse IOT and Edge working groups

Eclipse Working Groups provide a vendor-neutral governance structure that allows organizations to freely collaborate on new technology development. Among all the Eclipse Working group, NEMO identified the Eclipse IoT Working Group as the most relevant for the topic. In particular, Eclipse IoT Working Group⁸ is an ecosystem of companies and individuals that are working together to establish an Internet of Things based on open technologies. It provides open source implementations of the standards, services and frameworks that enable an Open Internet of Things. Today the Eclipse IoT Working group has:

- 42 projects covering all the scope of the IoT from the device to the cloud, including gateway and edge devices;
- over 2.2 million Lines of Code;
- over 210 committers delivering the code;
- an average of 132K unique visitors per month.

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⁸ http://iot.eclipse.org



Through newsletters and dedicated events, NEMO reached the Eclasse IoT community. Furthermore, the engagement with Eclipse IoT community has already started with the Open Continuum project, as detailed in the next subsection.

4.7 European Cloud, Edge & IoT Continuum Charler

NEMO has a strong collaboration with the European in the European Cloud, Edge & IoT Continuum⁹.

NEMO participated in IoTEXPO 2025 with a workshop and a booth as mentioned in the dissemination channel.



Figure 20 IoTEXPO 2025

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⁹https://eucloudedgeiot.eu/





Figure 21 NEMO at OCX2024 presenting a paper in eSAAM2024

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Figure 22 EUCEI's Open Continuum Final Conference

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5 NEMO Open Source

A good open-source and community-building strategy should (i) draw and keep track of the open-source landscape of the project, (ii) create an environment that allows for open collaboration right from the start, (iii) implement sufficient Intellectual Property (III) management and (iv) lay out measures for community-building.

5.1 Open Source Development

As the name suggests, open-source development is meant to be done in the open. In most cases, it is not a good idea to wait until the end of the project to release code, because "the code needs polishing before it can be shown to the public", or "it's not ady", for whatever reason. Developing behind closed doors is an open-source antipathy. It fill slow the project down, and the effort to "do it later" will continue to grow. It will cause a lot of tain.

Infrastructure (i.e., a publication) should be set up at the start of the project, and open-source best practices should be implemented from the start. This will allow everyone to become familiar with open-source development and will encourage knowledge transfer. It is a prerequisite for reaping all the benefits of open collaboration - something that should be a pillar of any research project.

Following the good practices, Nemo open source code is stored in the Eclipse Research Labs 10, Figure 23.

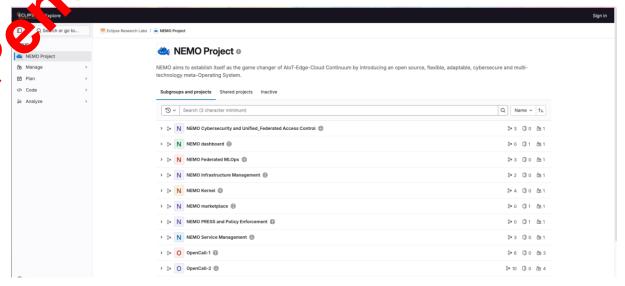


Figure 23 NEMO Eclipse Research Labs

It is also important to discuss open-source licences. The consortium should agree on (the types of) licences for the project results. For example, to allow commercial use of the open-source results, strong copyleft licences should not be brought into the project (at least not without prior agreement).

Moreover, as the project runs and code is developed, it is wise to keep track of all incoming IP and licenses. The aim is to identify problems as early as possible. For example, replacing a license-incompatible library will be much easier if it is caught early, rather than later, when a lot of code already depends on it. Typically, IP and licensing are not straightforward issues and require a certain amount of training, coordination and, ideally, tool support.

¹⁰ https://gitlab.eclipse.org/eclipse-research-labs/nemo-project

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Figure 24 shows the license spectrum, ordered from strong copyright (or proprietary licenses, on the right) to permissive licenses (on the left), until the Public domain or ich corresponds to an unlicensed piece of software.

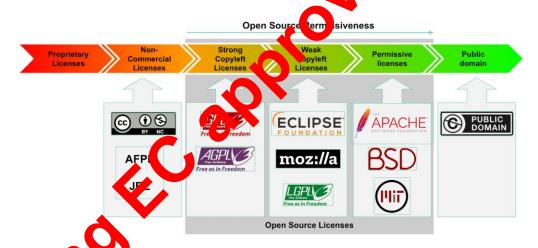


Figure 24 The OSS license spectrum.

NEMO costs jum has 48 open source repositories distributed as Table 4 shows.

Table 4 NEMO Open Source

Repositories	#	Dependences
NEMO	33	2336
Open Call#1	12	408
Open Call#2	3	1086

On the licence aspect, NEMO used 4 different licenses: Apache 2.0, EPL 2.0, MIT, MPL2.0. Table 5 shows the exact distribution.

Table 5 NEMO licences distribution

Licence	#
Apache 2.0	30
EPL 2.0	1
MIT	2
MPL 2.0	2
Dual: Apache 2.0 & MIT	1

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6 Conclusions

Over the project's **three-year duration**, the combined strategy of assemination, standardization, and community liaison proved highly effective, establishing a strong foundation for the project's long-term sustainability.

- **Dissemination:** We built **strong projec** six lity by consistently reaching both expert and general audiences through events, publications, and digital channels. We successfully positioned our work within the Europe 1 and global open source and research communities, creating valuable synergies.
- **Standardization:** Our proactive e-gagement led to several **key contributions** to relevant bodies, directly influering discussions on interoperability, data spaces, and open digital infrastructures. This en ured diagrament with EU policy and supported industry adoption.
- infrastructures. This en ured dignment with EU policy and supported industry adoption.
 Communities Litison. We fostered engagement with developers, SMEs, and industrial partners by create effective bridges with major open source foundations. This facilitated mutual learning, the reuse, and created opportunities for sustainable adoption beyond the project's life.

Furthermore, a **Oss project collaborations** with other initiatives amplified our overall impact and reinforced Exposs leading position in open innovation ecosystems.

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