



June – August 2024



aeros-project.eu

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ISSUE HIGHLIGHTS

The 8th issue of aerOS newsletter presents the project activities during the period June - August 2024. This specific issue focuses on the communication and dissemination activities, 2nd Open Call, EUCloudEdgeIoT related material, the project period activities and the 8th Plenary Meeting.

aerOS trimester activities in numbers:

- 2 Publications
- 2 Presentations
- 3 Workshops – Webinars
- 1 Conference
- 59th Demokritos Summer School
- EuCNC & 6G Summit 2024
- EUCloudEdgeIoT Activities
- Upcoming activities
- Submitted deliverable
- 8th Plenary meeting



aeros Open Call #2

The aerOS project has launched its 2nd Open Call, inviting innovative organizations to join its efforts in enhancing the future of edge computing. This call focuses on integrating third-party solutions into the aerOS ecosystem, specifically targeting the areas of AI/ML, data management, cybersecurity, and more. Selected participants will receive funding, technical support, and access to the aerOS platform to develop and validate their solutions. This initiative is a great opportunity for companies and research teams to collaborate on cutting-edge technologies and contribute to the advancement of smart, connected environments.

2nd Open call in a nutshell:

- 2nd Open Call budget: €480,000 – A maximum of 8 projects are expected to be selected and funded.
- Project budget range: €60,000.00 maximum
- Opening date: 25th July 2024
- Closing date: 30th September 2024 at 17:00 CET
- Contact person: Ignacio Lacalle Úbeda (Universitat Politècnica de València)
- Email: opencall-aeros-project-eu@aeros-project.eu

Find all the details here: <https://aeros-project.eu/open-call-2/>



Communication & Dissemination Activities

Publications

aerOS paper entitled, “A Proof of Concept Implementation of an AI-assisted User-Centric 6G Network”, by N. Gkatzios (INFOLYSIS P.C.), H. Koumaras (NCSR “DEMOKRITOS”), D. Fragkos (NCSR “DEMOKRITOS”), V. Koumaras (INFOLYSIS P.C), is now available. You may find it online here: <https://ieeexplore.ieee.org/abstract/document/10597020> .



The latest HiPEAC magazine's issue explores the latest developments and innovations in high-performance computing (HPC), embedded architecture, and cybersecurity. It features a range of articles on key topics, including advancements in AI and machine learning, sustainability in computing, and the role of HPC in scientific research. The magazine also highlights collaborative efforts across academia and industry to address current challenges and shape the future of computing. By showcasing groundbreaking projects and expert insights, the issue emphasizes the importance of interdisciplinary collaboration in pushing the boundaries of technology and solving real-world problems.

Find it online here: <https://www.hipeac.net/magazine/7168.pdf>

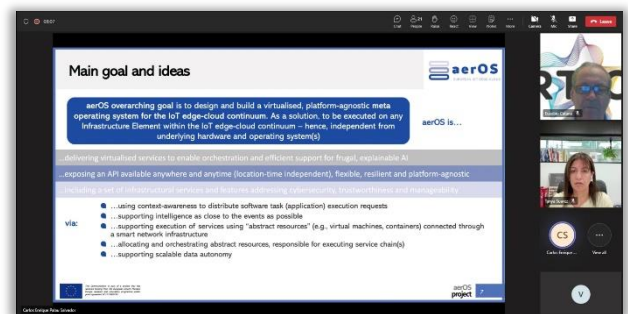


All public aerOS publications are available at aerOS website:
<https://aeros-project.eu/dissemination/publications/>



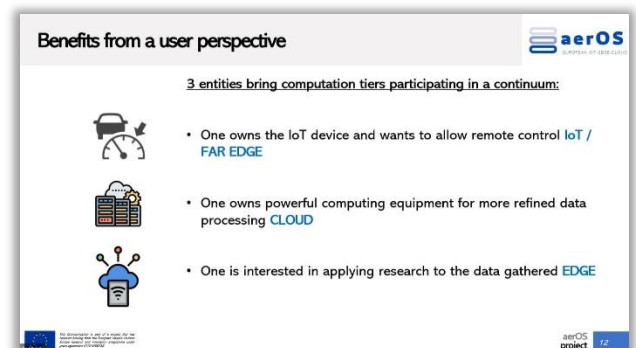
Presentations

- Walter Quadrini from Politecnico di Milano had the chance on 10th of July to present aerOS project to master's students that visited the MADE lab. The event took place in the context of SUPSI's Summer School on the internet of Things.
- The first Advisory Board (AB) meeting for our project was held earlier today, marking an important milestone in our ongoing efforts. The meeting was highly productive, featuring in-depth discussions on various project-related matters. The board members provided valuable insights and constructive feedback.



Workshops - Webinars

- During previous week, the Hellenic Cyber Security Institute, organised a workshop on the emerging EU regulation framework, including NIS2, CRA, DORA & AI Act. Our project was represented by Prof. Xenakis and InQbit - The Q-Bit Innovation
- The aerOS and SAFE-6G projects collaborated to co-organize a workshop focused on sharing their technical progress and exploring future opportunities for collaboration. This joint initiative offered a valuable platform for both projects to exchange insights, align objectives, and identify areas of synergy. The workshop created a collaborative atmosphere for participants to discuss recent advancements, share best practices, and plan future actions, thereby enhancing the partnership between the aerOS and SAFE-6G projects.



- The aerOS co-organized the International Workshop on Adaptive Privacy and Security (IWAPS) 2024, a significant event held from July 30 to August 2, 2024, in conjunction with the ARES Conference in Vienna, Austria. Attendees explored the latest research and strategies to tackle evolving privacy and security challenges. It was a fantastic opportunity to network with industry leaders and advance our understanding of adaptive cybersecurity measures. Find out more information: <https://www.ares-conference.eu/iwaps>

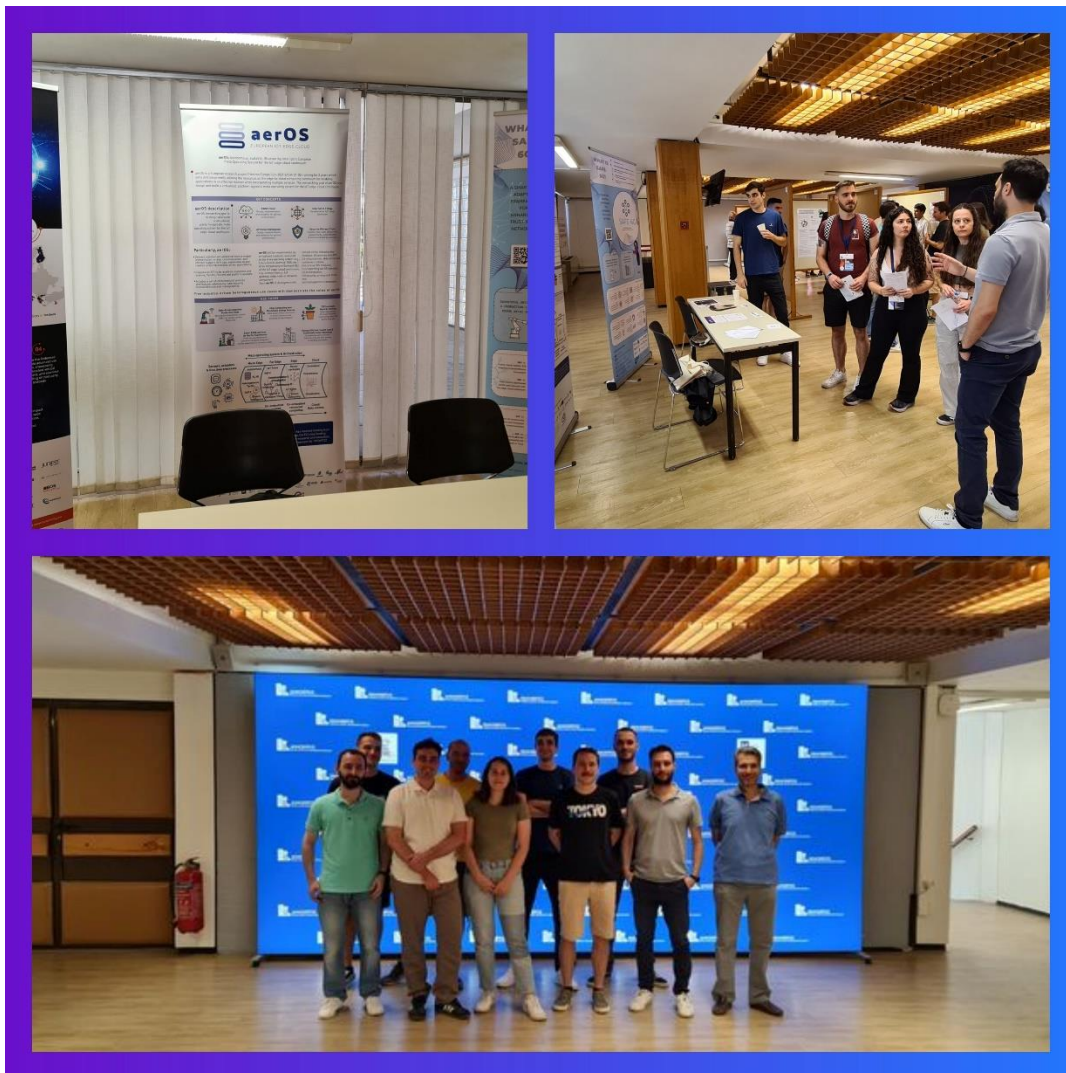
Conference

- The Open Continuum Final Conference focused on the value of the EUCloudEdgeIoT.eu (EUCEI) community research for the industry, highlighting the latest advancements and results of the Open Continuum CSA and the over 50 research and innovation actions it supported. Attendees had the opportunity to participate in engaging panel discussions, hear about the transition to the Nexus Forum CSA, and learn about the current status of the Unlock CEI CSA use cases. The conference also featured an awards ceremony recognizing the most promising projects within the community. aerOS project was represented by Universitat Politècnica de València (UPV).



59th Demokritos Summer School

Our partner, FRONT Research Group from NCSR "DEMOKRITOS," proudly showcased the aerOS project at the prestigious 59th Demokritos Summer School. This event, which gathers students and researchers from various fields, served as an excellent platform to highlight the significance and impact of the aerOS project. Supported by INFOLYSiS, this communication effort provided comprehensive materials that offered in-depth insights into the project's objectives, goals, and technological innovations. The aerOS presence at the summer school was further amplified with engaging promotional materials such as roll-up banners, informative leaflets, and eye-catching stickers, all of which effectively captured the attention of attendees. Through this initiative, FRONT Research Group successfully communicated the value of aerOS to a wide audience, inspiring the next generation of researchers and fostering interest in the project's contributions to the future of smart, connected environments.



aerOS in EuCNC & 6G Summit 2024

The aerOS project was prominently featured at the EuCNC 2024 & 6G Summit, where it presented its latest venture on cutting-edge 6G networks. A key highlight was the presentation of the paper entitled “A Proof-of-Concept Implementation of an AI-assisted User-Centric 6G Network,” which explored how AI can enhance user-centric 6G network performance. The event provided an excellent platform for engaging discussions and networking with experts in the field. More information about the aerOS project and its communication material could be found under the SNS project section of the EuCNC & 6G Summit 2024.



EUCloudEdgeIoT Activities

EUCloudEdgeIoT news digest issues

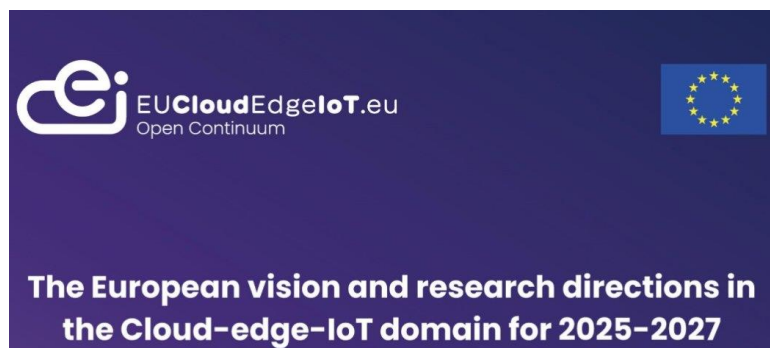
- Issue 17:

<https://preview.mailerlite.io/preview/185345/emails/125198461842753276>



The European vision and research directions in the Cloud-Edge-IoT domain for 2025-2027

The document entitled “The European vision and research directions in the Cloud-edge-IoT domain for 2025-2027” outlines key insights and strategic directions for advancing cloud, edge computing, and Internet of Things (IoT) technologies in Europe. It provides a comprehensive overview of the current landscape, highlighting the importance of these technologies in driving digital transformation and innovation. The summary emphasizes the need for a unified European approach to research and development, aiming to foster collaboration across industries and academia.



Upcoming Events

- "Empowering 6G Networks: 1st Workshop on Advancements in Research Infrastructures, Adaptive Frameworks, and Global Architectural Evolution" in the context of IEEE CAMAD, Athens, Greece on 21-23.
- AIOTI Days 2024, 23-24 September 2024, Brussels.
- Towards deployment of Cloud-Edge-IoT solutions across the computing continuum from market pathways to large scale pilots, 23 September 2024 Brussels.
- Nexus Forum 2024 Summit, 19 -21 September 2024 Brussels



Submitted Deliverable

D5.5 Technical evaluation, validation and assessment report (1) [M23] – Provide the validation and assessment findings from a technical perspective, covering integration testing and trial activities



All public aerOS deliverables are available for downloading
at aerOS website: <https://aeros-project.eu/dissemination/deliverables/>



8th aerOS Plenary Meeting

The 8th aerOS Plenary Meeting was a dynamic and productive event filled with insightful discussions and strategic planning. The meeting kicked off with our project manager outlining the agenda and providing key administrative details. Over the three days, participants engaged in presentations, networking, and innovative sessions, each contributing to a richer understanding of the project's direction. On the 2nd day, participants had the opportunity to reflect on the activities and accomplishments of the 1st day, while the 3rd day of the meeting featured additional presentations, parallel technical meetings, and strategic planning for future milestones. Attendees also had the opportunity to visit the Pilot 2 premises, hosted by CloudFerro S.A., which added practical insights to the discussions. The meeting lasted 3 days from 18 to 20 of June.



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This project has received funding from Horizon Europe, the EU's key funding programme for research and innovation, under grant agreement No 101069732

Call: WORLD LEADING DATA AND COMPUTING TECHNOLOGIES 2021

Topic: HE-CL4-2021-DATA-01-05

Type of Action: RIA

Duration: 36 Months

Start Date: 1 September 2022