aerOS
EUROPEAN IOT-EDGE-CLOUD

Newsletter
Issue 6

December 2023 – February 2024

aeros-project.eu

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ISSUE HIGHLIGHTS

The 6th issue of aerOS newsletter presents the project activities during the period December 2023 – February 2024. This specific issue focuses on the communication and dissemination activities, Open call Statistics, EUCloudEdgeIoT related activities, aerOS new videos, the project period deliverables and the 4th Plenary Meeting.

aerOS trimester activities in numbers:

- ➢ 4 Publications
- ➢ 4 Presentations
- ➢ Open Call Statistics
- ➢ SME brochure 2023
- ➢ EUCloudEdgeIoT Activities
- ➢ aerOS new videos
- ➢ 5 Upcoming Deliverables
- ➢ 4th Plenary Meeting

Communication & Dissemination Activities
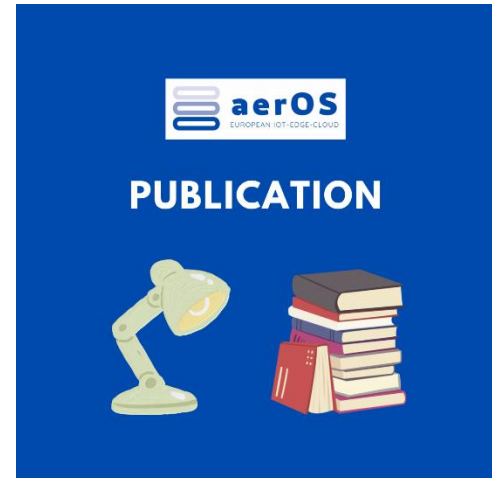
Publications

aerOS paper entitled "A novel approach to self-capabilities in IoT industrial automation computing continuum" by Ignacio Lacalle, Salvador Cunat, Andreu Belsa, Rafael Vano, Raul S-Julian, Philippe Buschmann, Jose Fontalvo-Hernandez, Korbinian Pfab, Renzo Bazan Florian Gramss, Katarzyna Wasielewska-Michniewska, Carlos E. Palau, has been accepted at WF-IoT 2023.

aerOS paper entitled, "Emerging IoT Applications and Architectures for Smart Maritime Container Terminals" by Michalis Michaelides, Sheraz Aslam, Herodotos Herodotou, Petros Dias (Cyprus University of Technology), Eduardo Garro, Álvaro Martínez Romero, María A. Burgos (Prodevelop S.L), Alessandro Cassera, George Papas (Eurogate Container) has been accepted at WF-IoT 2023.

The aerOS conference paper entitled "Hierarchical Container Orchestration based on Time Utility Functions" authored by Stefan Walser, Jan Ruh and Silviu Craciun (TTtech) has been accepted at 20th IEEE Int. Conference on Factory Communication Systems Welcome | WFCS 2024 - April 17-19, 2024.

Article

aerOS project is featured in the "Communication in the Horizon context" article published at the EUCloudEdgeIoT platform. The article is presenting how our communication partner (INFOLYSiS) is promoting and communicating the project's outcomes in the Horizon context. Find the article online here: https://eucloudedgeiot.eu/communication-horizon-context/

Presentations

aerOS project was on InfoCom world 2023 in Athens. The event took place on December 14th and our project was represented by Fofy Setaki and Spyridon Georgoulas. Find the video from the event here: https://vimeo.com/893888341

The aerOS Open Call webinar took place on January 12th. Ignacio Lacalle Úbeda from Universitat Politècnica de València UPV presented Open Call details to almost 30 attendees.

aerOS project took place in the "Cloud-Edge-IoT Innovations in Agriculture and Crisis Management: Exploring Data Spaces, Value Chains, and Practical Applications" webinar by EUCloudEdgeIoT. The event provided valuable information and knowledge to navigate the evolving agriculture landscape and unlock the potential of the Cloud-Edge-IoT continuum in this sector. This event was co-organised with MetaOS projects and the AgriDataSpace project. aerOS project was represented by Anna Ryabokon, TTControl & TTTech. Find out more information here: https://eucloudedgeiot.eu/event/eucei-event-agriculture-crisis-management/

aerOS project was represented at HiPEAC conference by Salvator Cunat who presented "Deep Learning Components" The HiPEAC conference took place in Munich, from 17 to 19 January 2024. The conference was organized by HiPEAC, a project managed by HaDEA, and it was consisted of parallel workshops, tutorials, special sessions, and an industry exhibition.

aerOS Open Call Statistics

The 1st aerOS Open Call closed on Monday 31st of January 2024. The express of interest was really high and in total, 38 open call proposals were submitted.

More details on statistics are provided below. Information on the acceptance/rejection of submitted proposals is expected by March 31st, 2024. More information on statistics are available here: https://aeros-project.eu/2024/02/12/aeros-open-call-statistics/

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SME Brochure 2023

The latest SME brochure by SME Working Group is out! The brochure showcases the skills, expertise and experience of the SME Working group members in different domains, as well as their achievements. aerOS project is represented in the SME brochure by INFOLYSiS, FOGUS and 8Bells. You may find the brochure online here: https://bscw.sns-ju.eu/pub/bscw.cgi/d111258/sme-brochure-02-2024.pdf

HE-CL4-2021-DATA-01-05

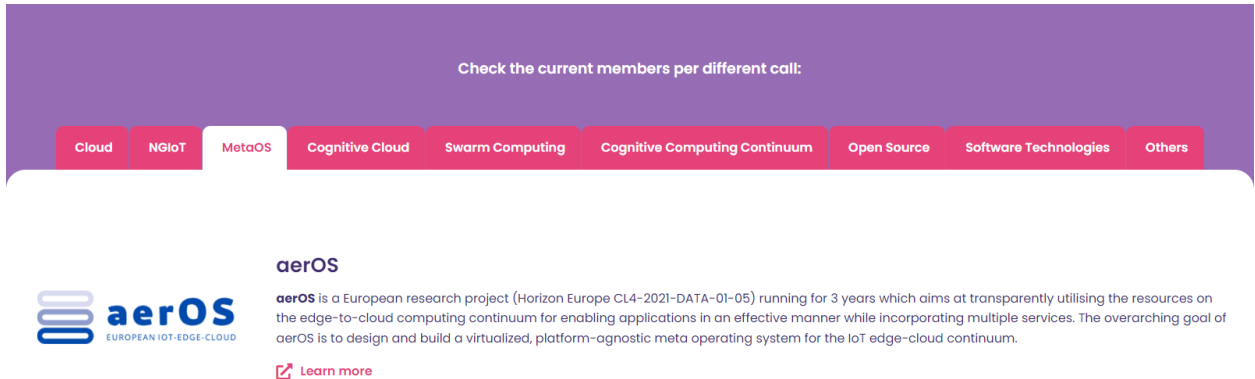## *EUCloudEdgeIoT Activities*

aerOS project in the EUCloudEdgeIoT platform

The aerOS project is available in the Research and Innovation Projects in EUCloudEdgeIoT, website here: https://eucloudedgeiot.eu/members/european-research-and-innovation-projects/

Meta-OS Use Cases Overview

The latest Meta-OS Use Cases Overview by EUCloudEdgeIoT is now available. You may find it online here: https://zenodo.org/records/10390848

aerOS New Videos

The aerOS consortium had a highly active trimester focused on producing numerous videos, all of which can now be found on the aerOS YouTube channel. Namely:

- aerOS Open Call Webinar: https://www.youtube.com/watch?v=smbP-JdQ_zU&t=384s
- aerOS Pilot 1 Scenario 1: Green manufacturing and C02 footprint monitoring: https://www.youtube.com/watch?v=dAZ_OImnSaA
- aerOS Pilot 1 Scenario 3: How the aerOS Project is Revolutionizing Manufacturing: https://www.youtube.com/watch?v=1IkbUZme0pA
- aerOS Pilot 1 Sce3, 2nd Use Case: Zero ramp-up safe PLC reconfiguration for loT-size-1 production: https://www.youtube.com/watch?v=l7-UCES6fSI
- aerOS Pilot 2 Use Case by CloudFerro S.A., SRIPAS, Electrum: https://www.youtube.com/watch?v=7ryLLFaMAxM&t=2s
- aerOS Pilot 4 at EUROGATE Container Terminal Limassol: https://www.youtube.com/watch?v=fYC8bgD70MQ&t=4s
- aerOS Pilot 5 Infrastructure & IoT application for Smart, Energy Efficient & Health Safety Buildings: https://www.youtube.com/watch?v=lB8GPRL_bRQ

Do not forget to subscribe!

Period Deliverables

D2.3 Use cases manual, requirements, legal and regulatory analysis [M18] – Initial and final version of requirements elicitation, use cases and scenarios definition and legal and regulatory analysis.

D3.2 Intermediate distributed compute infrastructure implementation [M18] – Intermediate implementation of infrastructure components, and update on the implementation.

D4.2 Software for delivering intelligence at the edge intermediate release [M18] – Initial software release of the components to deliver intelligent applications.

D5.3 Use cases deployment and implementation (1) [M18] – Will document the three pilots and integrated third parties, addressing the proposed use cases and scenarios. This will be the final version.

D6.2 Intermediate report on impact activities [M18] – Intermediate report on the communication, dissemination, standardization, initial exploitation and innovation activities as well as on the initial business value and market propositions during the first period of the project (M1-M18)

All public aerOS deliverables are available for downloading

at aerOS website: https://aeros-project.eu/dissemination/deliverables/

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4th aerOS Plenary Meeting in Limassol

aerOS 4th Plenary Meeting took place in Cyprus hosted by EUROGATE Limassol Terminal. The meeting lasted two days (30 & 31 of January) and proved to be very fruitful. Partners were able to discuss the project status, the upcoming activities and the pilots' development. As usual, the traditional group photo was taken. Also, during this meeting, all participants had the chance to visit the use case 4 site entitled "SMART EDGE SERVICES FOR THE PORT CONTINUUM" hosted by Eurogate! All partners had the chance to watch how the terminal operates under real circumstances.