ASSIST-IoT H2020 Project

Newsletter Issue 7

May - July 2022

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Inside This Issue

ISSUE HIGHLIGHTS

The seventh issue of ASSIST-IoT newsletter presents the project activities throughout May - July 2022 period. This issue focuses on the ASSIST-IoT Open Call #2, the communication and the dissemination activities of the project, the project deliverables, the interaction with the NGIoT association, IoT Week 2022, CONASENCE 2022 and 4th GA Meeting.

ASSIST-IoT trimester activities in numbers:

➢ ASSIST-IoT Open Call #2 and upcoming webinars

➢ 5 Technical Reports

➢ ASSIST-IoT Research Gate

➢ 2 YouTube Videos

➢ 2 Presentations

➢ 2 Booth & Stands

➢ 3 NGIoT Activities

➢ IoT Week 2022

➢ CONASENSE 2022 and EU-IoT Hackathon

➢ 2 Submitted deliverables

➢ 4Th GA Meeting

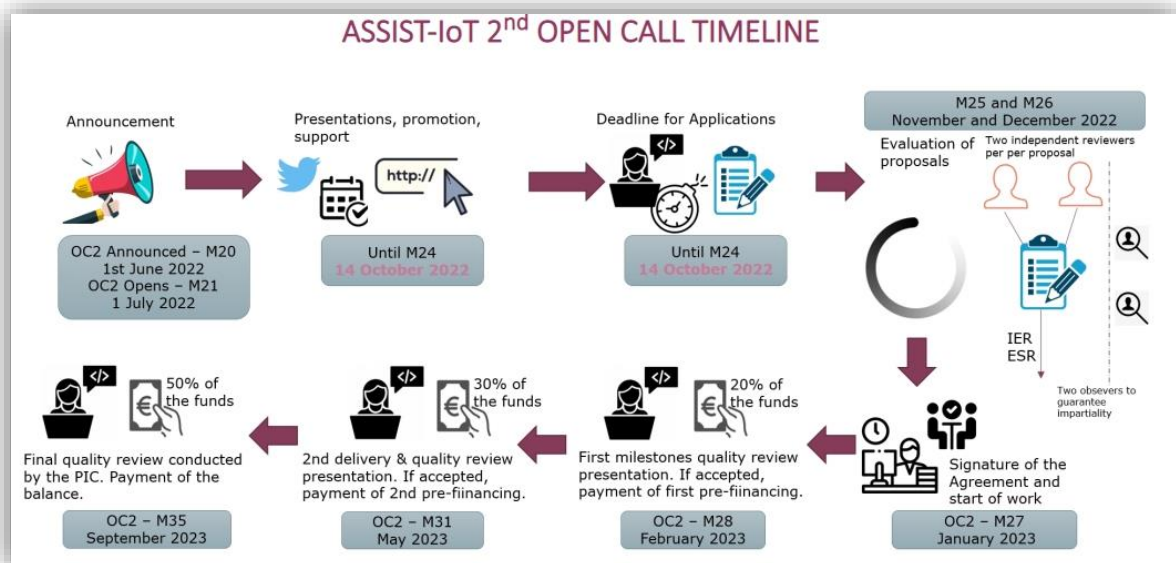# *ASSIST-IoT Open Call #2* and Upcoming Webinar Series

The 2nd ASSIST-IoT Open Call has been officially announced. It started 1st of July 2022 and will end on the 14th of October 2022, 17:00 CET! The ASSIST-IoT project has reserved part of the project budget to fund specific activities in order to enhance and improve IoT features and applications and boost the NGIoT community across Europe. Third parties are expected to come along and carry out relevant actions during the project's life cycle. These later-joining entities will be selected by the evaluation means of the Open Call which will be dedicated to integration and validation of the proposals within any of the ASSIST-IoT three pilots and scenarios.

This Open Call aims at funding innovative proposals that will enhance ASSIST-IoT's objectives framed (mandatorily) within one (out of its three) pilot(s). In particular, Open Call proposals are expected to address one specific challenge out of a list of possible challenges formulated by each pilot.

Within the context of Open Call 2, ASSIST-IoT, with the support of NGIoT, organizes three webinars for better informing potential candidates. Registration is free. Please register and attend! More info on the OC webinar series here

- **Webinar #1** - OC Overview - 6 September 2022 11:00 CET – Info here
- **Webinar #2** - Eligibility and Challenges - 13 September 2022 11:00 CET – Info here
- **Webinar #3** - Overview and Q&As – 4 October 2022 11:00 CET – Info here

You may learn more about the OC#2 and its details at:

https://assist-iot.eu/open-call-2-2/

Communication and Dissemination Activities

ASSIST-IoT Call for Papers at WF-IoT 2022

Call for papers for the "Future Platforms for Edge-Cloud Continuum–Theoretical Foundations and Practical Considerations" Special Session by ASSIST-IoT in IEEE 8th World Forum on Internet of Things (WF-IoT) ended on July 11th! The event will take place on 26 Oct–11 Nov 2022, in Yokohama, Japan. You may learn more here: https://wfiot2022.iot.ieee.org/spes-01/

Technical Report #10

ASSIST-IoT Technical Report #10, entitled "Implementation of UI methods and UX in VR in case of 3D printer tutorial" , by: ASIST-IoT partners Andrzej PASZKIEWICZ, Mateusz SALACH, Maria GANZHA, Marcin PAPRZYCKI, Marek BOLANOWSKI, Grzegorz BUDZIK, Hubert WÓJCIK, Fotios KONSTANTINIDIS, and Carlos E. PALAU, is published and is available: https://assist-iot.eu/wp-content/uploads/2022/06/ASSIST-IoT-Technical-Report-10-Implementation-of-UI-methods-and-UX-in-VR-in-case-of-3D-printer-tutorial.pdf

Technical Report #11

ASSIST-IoT Technical Report #11, entitled "Eficiency of REST and gRPC realizing communication tasks in microservice-based ecosystems", by: ASIST-IoT partners Marek BOLANOWSKI, Kamil ŻAK, Andrzej PASZKIEWICZ, Maria GANZHA, Marcin PAPRZYCKI, Ignacio LACALLE, Carlos E. PALAU, is published and is available: https://assist-iot.eu/wp-content/uploads/2022/06/ASSIST-IoT-Technical-Report-11-Eficiency-of-REST-and-gRPC-realizing-communication-tasks-in-microservice-based-ecosystems1.pdf

Technical Report #12

ASSIST-IoT Technical Report #12, entitled "Eficiency of REST and gRPC realizing communication tasks in microservice-based ecosystems", by: ASIST-IoT partners Piotr Sowinski, Katarzyna Wasielewska-Michniewska, Maria Ganzha, Wieslaw Pawlowski, Pawel Szmeja, Marcin Paprzycki is published and is available:https://assist-iot.eu/wp-content/uploads/2022/07/ASSIST-IoT-Technical-Report-12-Efficient-RDF-Streaming-for-the-Edge-Cloud-Continuum.pdf

Technical Report #13

ASSIST-IoT Technical Report #13, entitled "Introducing Federated Learning into Internet of Things ecosystems – preliminary considerations", by: ASIST-IoT partners Karolina Bogacka, Katarzyna Wasielewska-Michniewska, Marcin Paprzycki, Maria Ganzha, Anastasiya Danilenka, Lambis Tassakos, Eduardo Garro is published and is available: https://assist-iot.eu/wp-content/uploads/2022/07/ASSIST-IoT-Technical-Report-13-Introducing-Federated-Learning-into-Internet-of-Things-ecosystems-%E2%80%93-preliminary-considerations.pd

Technical Report #14

ASSIST-IoT Technical Report #14, entitled "Decentralising Access Control for IoT environment", by: ASIST-IoT partners Charalampos Savvaidis, Christos Patsonakis, Georgios Stavropoulos, Anastasia Kassiani Blitsi, Iordanis Papoutsoglou, Konstantinos Votis, Dimitrios Tzovaras has been published and is available:https://assist-iot.eu/wp-content/uploads/2022/07/ASSIST-IoT-Technical-Report-14-Decentralising-Access-Control-for-IoT-environment.pdf
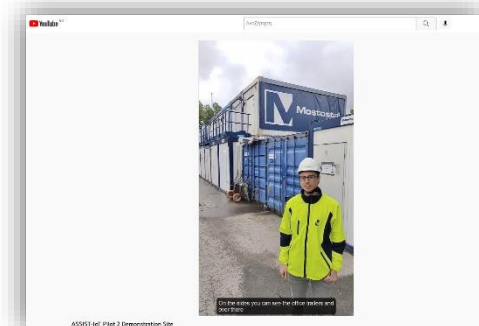
ASSIST-IoT ResearchGate Account

ASSIST-IoT project is available in **ResearchGate platform**! Find us and read our publications. You may learn more here: https://www.researchgate.net/project/ASSIST-IoT

ASSIST- IoT YouTube Videos

ASSIST-IoT Project has uploaded two new videos in the ASSIST-IoT official YouTube channel.

➢ Within the ASSIST-IoT Project, innovation elements are being developed planning to improve health and safety. These solutions will be tested on a construction site managed by Mostostal Warszawa SA. If you want to see our pilot, we invite you to watch this video. You may find the video here: https://www.youtube.com/watch?v=Potc-vBG-80

➢ The BIM visualisation functionality relies on the loading of the BIM model in a way that can be visualized through the MR device. The OSH inspector can manipulate the most-updated BIM model at each location, reviewing the overall progress of the building as well as the dangerous zones. Safety at the construction site will be also increased by additional control of access to restricted zones, ensuring that only workers with relevant permissions, and valid safety trainings have access to dangerous locations. You may watch how this functionality will be used in ASSIST-IoT project and in tis pilot's trials here: https://www.youtube.com/watch?v=fB83BaTNPLI
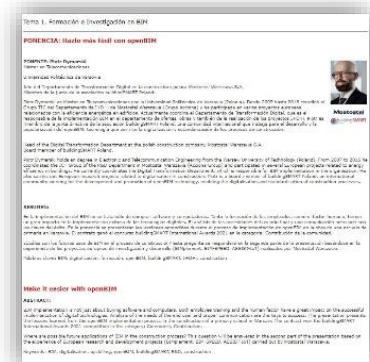
Presentations

ASSIST-IoT partner Piotr Dymarski (Mostostal Warszawa SA) took place on EUBIM 2022 and presented "Make it easier with openBIM" on May 20! You may learn more about the event here: http://www.eubim.com/programa_Tema1.html

ASSIST-IoT project coordinator professor Carlos-Enrique Palau Salvador from Universitat Politècnica de València (UPV) took part in DataWeek22 by BDVA. Our project coordinator presented ASSIST-IoT in a workshop entitled "Joining research forces and create the future of ports and maritime based on data-driven services: Defining the Strategy" by DataPorts. You may learn more about this presentation here: https://data-week-2022.b2match.io/components/20122

Booths and Stands

ASSIST-IoT project was represented on May at the TOC Europe 2022 through a joint booth with TIC4.0 committee. Feel free to visit us and learn all about our project. You may learn more about the event here: https://www.tocevents-europe.com/en/home.html

ASSIST-IoT project was represented by S21sec on BIEMH2022 showing the criticality of cybersecurity services in Next Generation IoT environments, and explaining the importance of effective detection, authentication, and authorization features in this scenario.

ASSIST-IoT and NGIoT Activities

NGIoT Newsflash Issues:

> June 2022: https://mailchi.mp/3f7872800811/ngiot-newsflash-june2022

The **ASSIST-IoT Open Call #2** was officially hosted in the **NGIoT website**. You may find more information about the second ASSIST-IoT Open Call and the requirements here: https://www.ngiot.eu/event/assist-iot/?instance_id=238
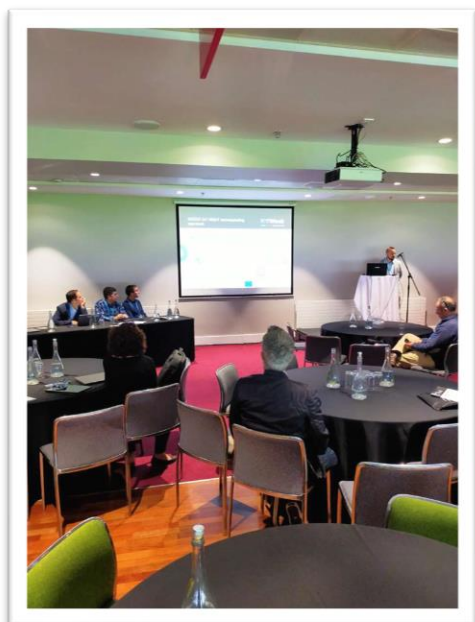
Next Generation IoT face-to-face Meeting during IoT Week 2022

ICT-56 representatives had the chance to meet each other face-to-face in the context of IoT Week 2022. During this meeting, partners had the chance to discuss about upcoming activities and Open Call opportunities.
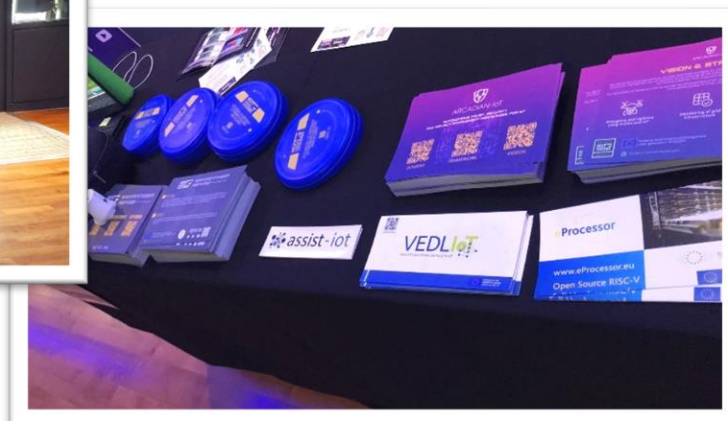
ASSIST-IoT in IoT Week 2022

ASSIST-IoT project organized a **workshop at IoT Week 2022** (20-23 June, Dublin, Ireland entitled: **"The ASSIST-IoT approach to NGIoT architecture design and implementation"**, during IoT Week 2022, on Tuesday 21 June 2022. In this session, experts of the project, presented relevant outcomes of ASSIST-IoT and in particular: design principles of the reference architecture and definition of the concept of encapsulated enablers.

The ASSIST-IoT project was also present in the NGIoT booth No7, sharing project's communication material and making short demonstrations.
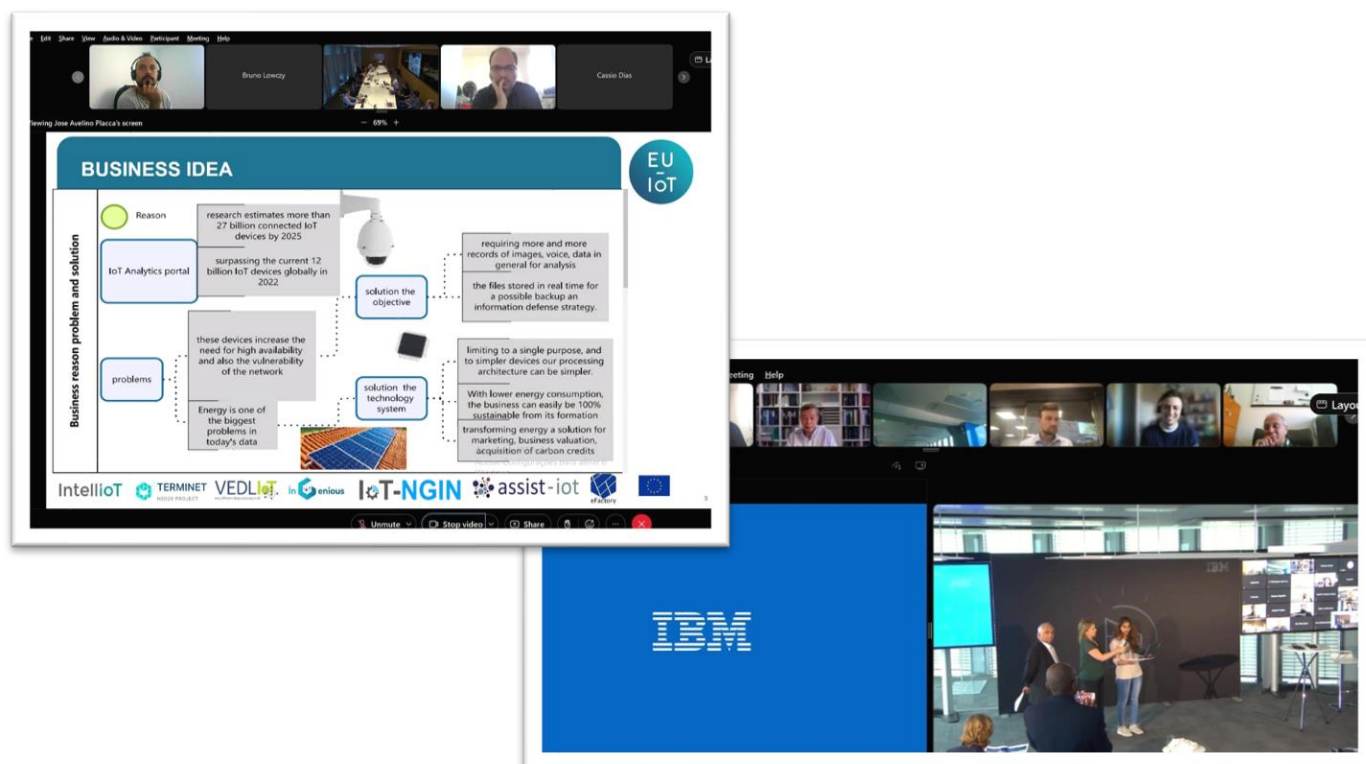

ASSIST-IoT partner UPV and Ignacio Lacalle Úbeda participated and presented our project at **Next Generation Internet of Things - NGIoT workshop** that took place during **IoT Week**. Also ASSIST-IoT project was presented in the context of **DataPorts project session**!

CONASENSE 2022 and EU-IoT Hackathon

ASSIST-IoT partner, Ignacio Lacalle Úbeda (Universitat Politècnica de València UPV) **was called for jury duty** at the **EU-IoT Hackathon**, during the **CONASENSE 2022**, which took place on the 27th-28th of June 2022.

ASSIST-IoT project was one of the promotional partners at **CONASENSE 2022**

in the context of **EU-IoT Hackathon** where ASSISt-IoT was also presented.
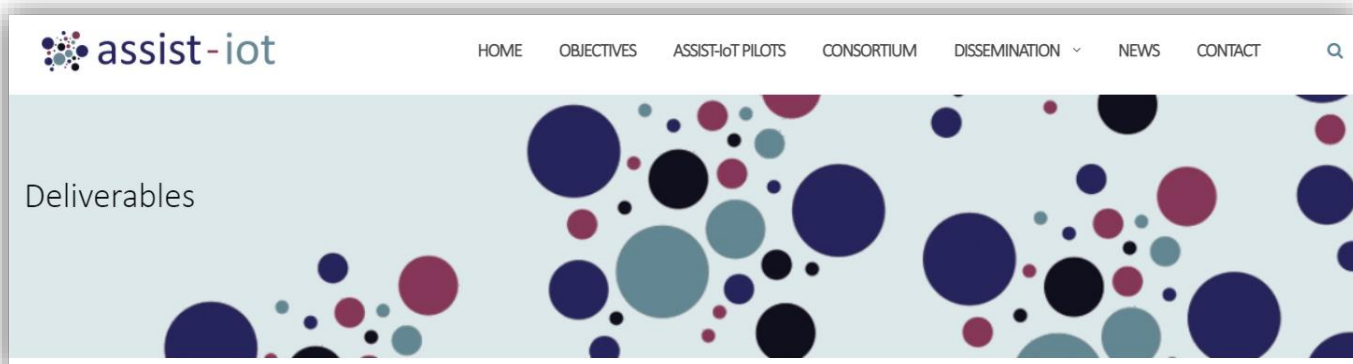
ASSIST-IoT

Submitted Deliverables

D2.11 First Open Call Report [M20] – Complete report of all procedural/formal aspects of the first open call procedure.
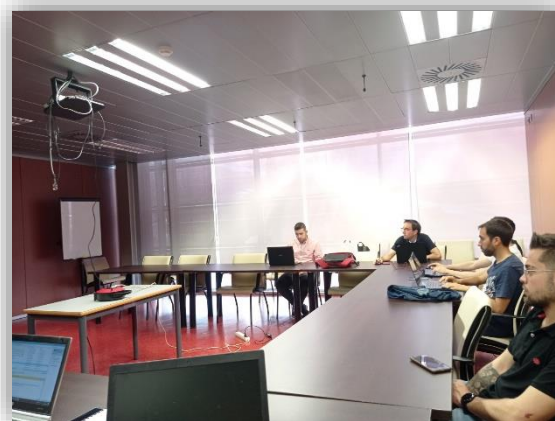
D3.7 ASSIST-IoT Architecture Definition – Final [M21] – Final specification of the ASSIST-IoT technical architecture and its components.

ASSIST-IoT public deliverables are available for downloading

at ASSIST-IoT website: https://assist-iot.eu/deliverables/

4ᵀʰ GA Meeting

The **4th ASSIST-IoT GA** meeting and **first face-to-face meeting** took place on May 2022, in UPV's premises in Valencia. The meeting lasted for three days (17ᵗʰ -19ᵗʰ May) and was held in two parallel tracks, focusing the discussion on both **several technical activities/tasks and on more general aspects such as impact, Open Calls, upcoming review**.

Communication Channels

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