

# ASSIST-IoT H2020 Project

*Newsletter Issue 9*

*November 2022 - January 2023*



[www.assist-iot.eu](http://www.assist-iot.eu)



European  
Commission

Horizon 2020  
European Union funding  
for Research & Innovation

## Inside This Issue

1. Issue Highlights
2. Communication & Dissemination Activities
3. NGIoT Activities
4. Deliverables
5. ASSIST-IoT GA Meeting

## ISSUE HIGHLIGHTS

The ninth issue of ASSIST-IoT newsletter presents the project activities throughout November 2022 – January 2023 period. This issue focuses on the, the communication and the dissemination activities of the period, the project survey, the Advisory Board meeting, the interaction with the NGIoT association, and the Code Camp meeting in Bilbao.

ASSIST-IoT trimester activities:

- 3 Presentations
- 1 Poster Session
- IEEE 8th World Forum on Internet of Things (WF-IoT)
- AB meeting
- 3 YouTube Videos
- ASSIST-IoT Survey
- 4 NGIoT Activities
- 3 Submitted Deliverables
- Code Camp in Bilbao



Newsletter

## Communication and Dissemination Activities

### Presentations

Ignacio Lacalle from Universitat Politècnica de València UPV presented ASSIST-IoT project in TRA 2022 at the stand of the European Commission on 14th of November. You may learn more about the event here: <https://traconference.eu/>

Insighio, a Greek SME, ASSIST-IoT Open Call winner, presented RAZOR project during DigiFed event on November 30th. You may learn more about the event here: <https://digifed.org/>

ASSIST-IoT project was present at HiPEAC conference 2023 invited by VEDLIoT project "AIoT related projects" session! On January 17, our representative Ignacio Lacalle from Universitat Politècnica de València UPV presented our project. You may find more information about the event here: <https://www.hipeac.net/2023/toulouse/#/>

Piotr Sowiński (SRIPAS) presented the paper "Towards Edge-Cloud Architectures for Personal Protective Equipment Detection", 4th International Conference on Information Management and Machine Intelligence (ICIMMI 2022), 23–24 December 2022, Jaipur, India.



## Poster Session

Universitat Politècnica de València UPV represented ASSIST-IoT on the event Transport Research Arena (TRA). There, as a culmination of ASSIST-IoT actions, a poster was exhibited in the main poster panel. The poster was explained by UPV representatives (included the Project Coordinator), summarising the works depicted in a scientific paper elaborated by several members of the project relating the innovative business scenario of automated, edge-based cooperation between cargo handling equipment to perform more efficient operations in maritime terminal yards.





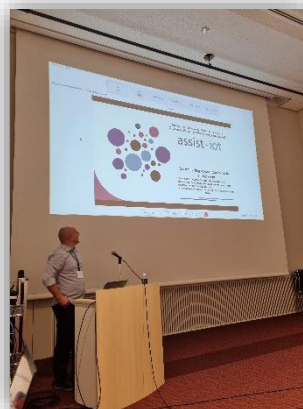
## IEEE 8th World Forum on Internet of Things (WF-IoT)

### ASSIST-IoT Special Session: Future Platforms for Edge-Cloud Continuum—Theoretical Foundations and Practical Considerations

ASSIST-IoT partners presented 4 Conference paper during ASSIST-IoT’s special session entitled “Future Platforms for Edge-Cloud Continuum—Theoretical Foundations and Practical Considerations” at the 8<sup>th</sup> version of IEEE World Forum on Internet of Things (WF-IoT). The Special Session took place on October 31<sup>st</sup> of October in Yokohama, Japan. You may learn more about the event here: <https://wfiot2022.iot.ieee.org/program/>

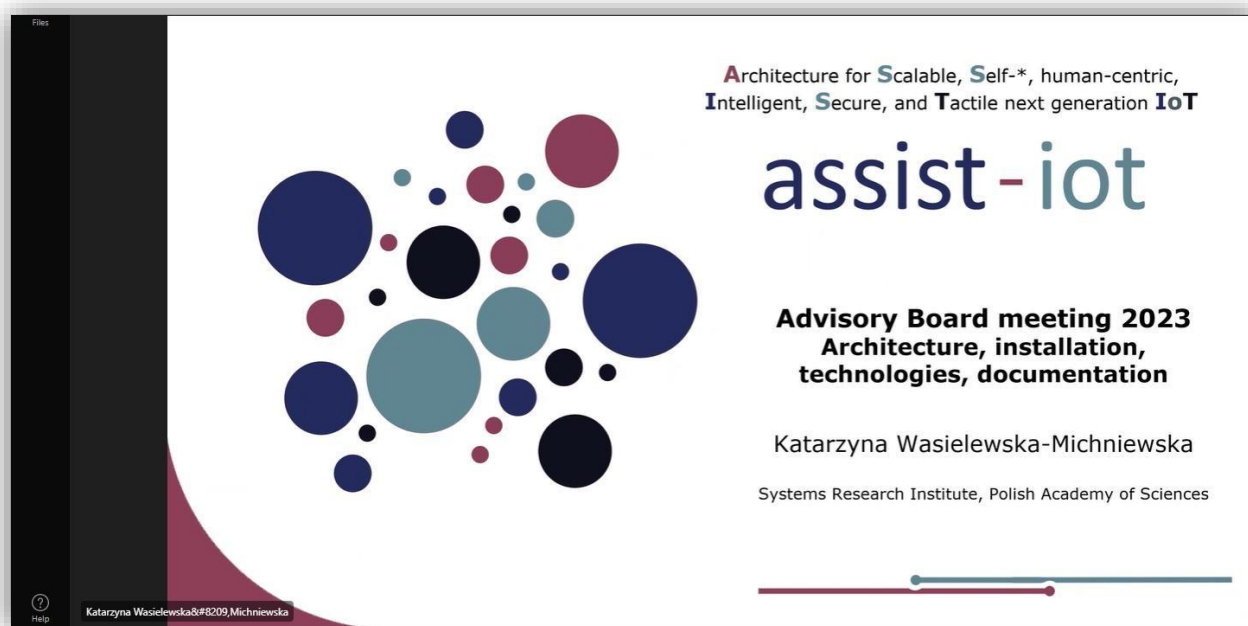
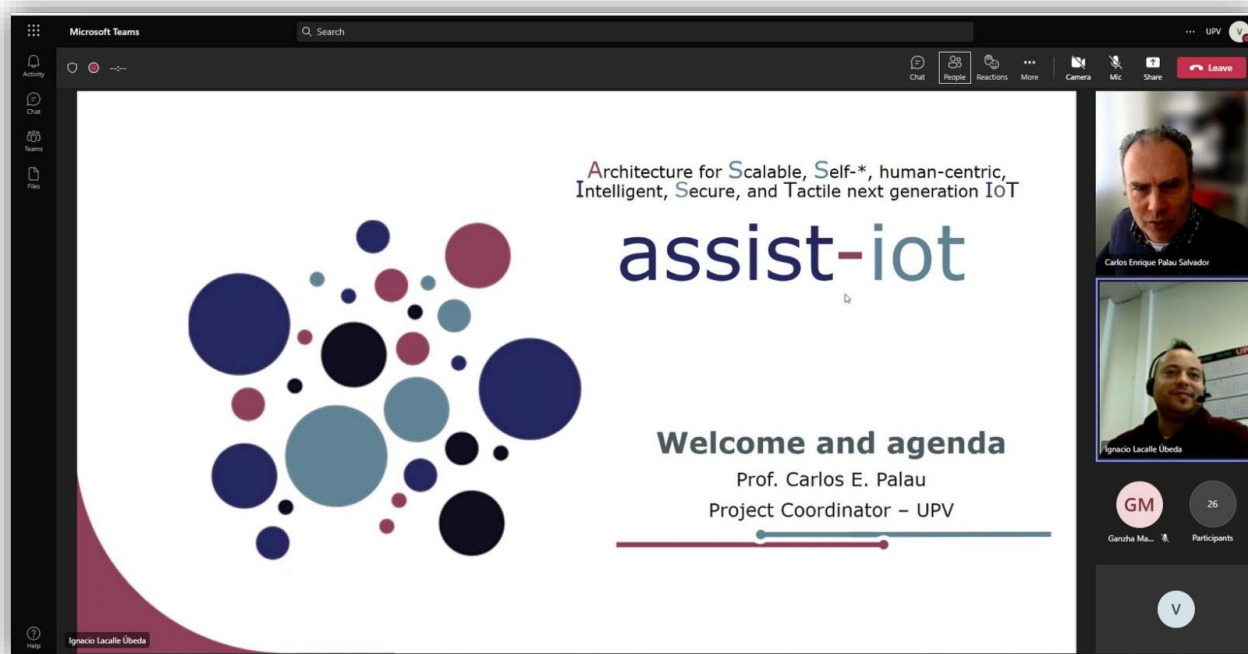
The following papers were presented during the special session:

- “Efficient RDF Streaming for the Edge-Cloud Continuum” by Maria Ganzha - SRIPAS
- “Introducing Federated Learning into Internet of Things ecosystems – preliminary considerations” by Marcin Paprzycki - SRIPAS
- “Decentralising Access Control for IoT environment” by Georgios Stavropoulos – CERTH
- “A fuzzy knowledge-based system for UV exposure management” by Georgios Stavropoulos – CERTH



## ASSIST-IoT Advisory Board meeting

ASSIST-IoT Advisory Board meeting took place on January 20th! Partners had the chance to present the pilots status and the technical advancements to 6 Advisory Board members. The Advisory Board members had also the chance to make discussions with consortium members and propose new action points.



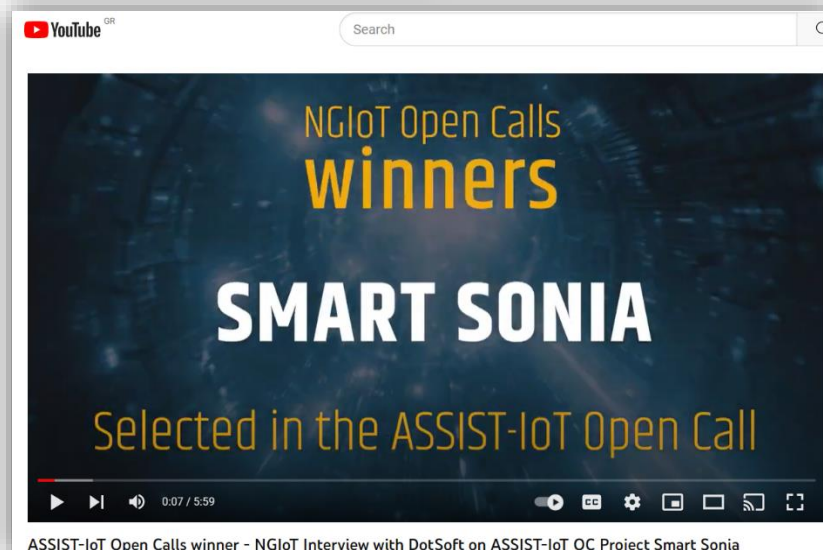
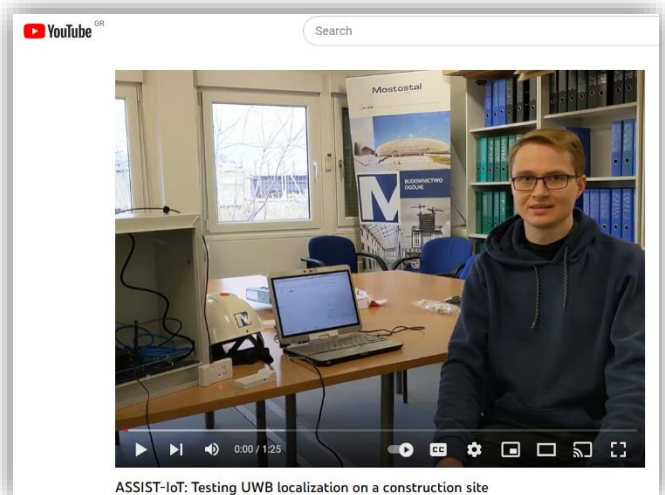
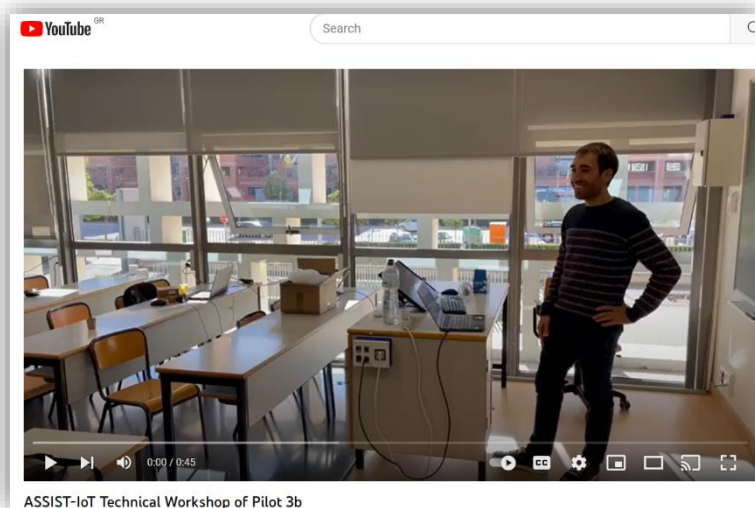
## ASSIST-IoT YouTube Videos

During ASSIST-IoT's last trimester (November 2022 – January 2023) three new videos were uploaded to ASSIST-IoT YouTube official channel. The new YouTube videos are the following ones:

- ASSIST-IoT Open Calls winner - NGIoT Interview with DotSoft on ASSIST-IoT OC Project Smart Sonia (<https://www.youtube.com/watch?v=-BOyDHh9aqw&t=7s>)
- ASSIST-IoT: Testing UWB localization on a construction site (<https://www.youtube.com/watch?v=Mr3i8v2SkLM>)
- ASSIST-IoT Technical Workshop of Pilot 3b (<https://www.youtube.com/watch?v=mjqN6zvo6Yk>)

Find all ASSIST-IoT YouTube Videos here:

<https://www.youtube.com/@assist-iot>





## ***“Adoption Barriers of NGIoT technologies” Survey***

This survey is part of the project “Architecture for Scalable, Self-\*, human-centric, Intelligent, Secure, and Tactile next generation IoT” — ‘ASSIST-IoT’, funded by the European Union’s Horizon 2020. Task T8.4 (part of WP8) of the project ASSIST-IoT has developed this questionnaire containing tables and heterogeneous fields to understand the adoption and implementation barriers of Next Generation IoT solutions (i.e., administrative, political, financial, technological, geographical, cultural or problem-related barriers/drivers.).

For this purpose, WP8 relies on the exposed information on the already developed deliverables of the project (<https://assist-iot.eu>). It spreads this questionnaire to selected experts and stakeholders to learn about such barriers and drivers. The questionnaire is structured in seven parts, starting with a profiling chapter to understand the responder’s background, followed by several sub-parts corresponding to the features that characterize each barrier, with a combination of different kinds of questions.

The aims of the survey are:

- To collect experts’ and stakeholders’ opinions on the relevance of each barrier and specific aspect, to feed back the technical and exploitation approaches of the results of ASSIST-IoT.
- To understand the different views of the barriers depending on the respondent profiles, If necessary, to map additional barriers which had not been considered.

This questionnaire is the first of a series of three surveys planned to be exerted by T8.4 of ASSIST-IoT. Whereas this instance focuses on global barriers and their main reasons, the second one will mostly address technological details. The third one will analyse sector-specific concerns alongside highlighting the drivers instead of the barriers.

You may find the survey online here: <https://form.jotform.com/223392763037357>



## ASSIST-IoT and NGIoT Activities

### NGIoT Newsletter Issues:

- December 2022: <https://mailchi.mp/3783b997f6f9/ngiot-newsletter-dec2022>
- January 2023: <https://mailchi.mp/7b07b34c4085/ngiot-newsflash-jan23>

### Horizon Europe Info Day & Pitch Session

The European Commission invited stakeholders from industry, academia and innovators to participate in the Horizon Europe Info Day on 30 January 2023. This event was an Information Session on the Horizon Europe Work Programme 2023-2024 on “World leading data and computing technologies” and offered participants a unique opportunity to pitch concrete ideas in front of leading research organisations and cutting-edge innovators from across industry.

### The EU-IoT Framework for Internet of Things Skills: Closing the Talent Gap – White Paper

The EU-IoT Coordination and Support Action (CSA) is supporting the activities of EU funded R&D projects in Internet of Things (IoT), while also providing resources and services to the wider European IoT ecosystem. These span different areas of IoT development and deployment, including standardisation, reference implementations, open source software implementations, as well as IoT training and skills development. You may find the White Paper along with ASSIST-IoT contributions here: <https://www.ngiot.eu/white-papers/>





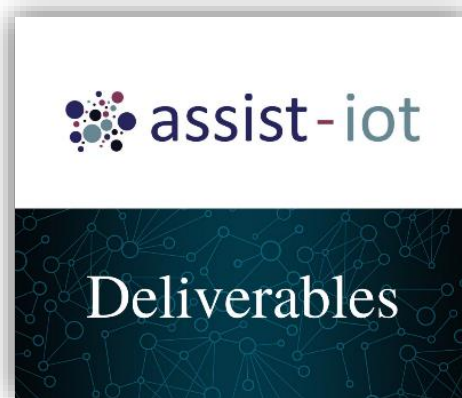
## ASSIST-IoT

### *Submitted Deliverables*

**D2.7 Risk Management v3 [M27]** – Will include the risk policy, forecasted and detected risks and the mitigation measures, including ethical and legal risks.

**D7.3 Pilot Scenario Implementation – Intermediate Version [M27]** – Will document the three pilots and integrated third parties, addressing the proposed use cases and scenarios

**D8.2 Technical Evaluation and Assessment Report [M27]** – Will provide the assessment findings from a technical perspective, covering integration, testing and trial activities

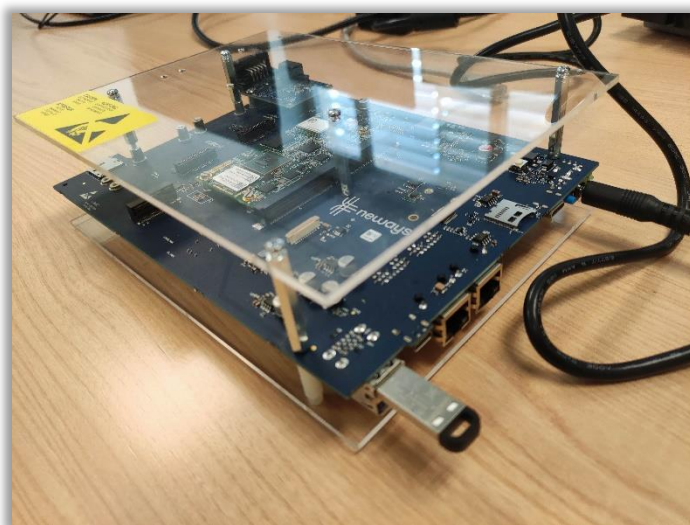


**ASSIST-IoT public deliverables are available for downloading**

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

## Code Camp

ASSIST-IoT partners had the 1<sup>st</sup> Code Camp in Bilbao, Spain. The 1<sup>st</sup> ASSIST-IoT Code camp was hosted by S21sec in their premises for three days (17 – 19 January 2023). In this camp technical partners had the chance to discuss about project specifications and technical advancements.



### Communication Channels



[www.assist-iot.eu](http://www.assist-iot.eu)

[info@assist-iot.eu](mailto:info@assist-iot.eu)



Call: H2020-ICT-2020-1

Topic: ICT-56-2020

Type of Action: RIA

Duration: 36 Months

Start Date: 1 November 2020