

ASSIST-IoT H2020 Project

Newsletter Issue 10

February – April 2023



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ISSUE HIGHLIGHTS

The tenth issue of ASSIST-IoT newsletter presents the project activities throughout February - April 2023 period. This issue focuses on the, the communication and the dissemination activities of the period, the EUCloudEdgeIoT official launch, the EU-IoT Final Event, and the plenary meeting in Thessaloniki.

ASSIST-IoT trimester activities:

- 2 Publications
- 3 Presentations
- ASSIST-IoT Co-organised Workshops & Call for Papers Opportunities
- EUCloudEdgeIoT official Launch
- EU-IoT Final Event
- EUCloudEdgeIoT Activities
- 5 Submitted Deliverables
- Plenary Meeting



Newsletter

Communication and Dissemination Activities

Publications

The ASSIST-IoT journal paper entitled “ASSIST-IoT: A Modular Implementation of a Reference Architecture for the Next Generation Internet of Things: by UPV, SRIPAS and NEWAYS partners has been published at MDPI, Electronics, Volume 12, Issue 4, The paper is available here: <https://www.mdpi.com/2079-9292/12/4/854>

The latest Next Generation Internet of Things - NGIoT White Paper on "IoT Skills: Closing the Talent Gap" is now available! The White Paper summarises the gap in skills for automation and the future of work. Closing this skills gap is very important for adopting and leveraging cutting-edge technologies of the fourth industrial revolution in many economic sectors. IoT skills are among the most important elements of the skills puzzle, as IoT technologies have a broad scope and are widely used in sectors like manufacturing, energy, healthcare, transport, retail, agriculture, and supply chain management. State-of-the-art skills surveys identify some of the skills that are high in demand in the market. Nevertheless, they usually take a broad view that addresses many different digital technologies rather than focusing on the IoT skills and the IoT market. You may find it online here: <https://www.ngiot.eu/eu-iot-releases-the-white-paper-on-internet-of-things-skills-closing-the-talent-gap>



Presentations

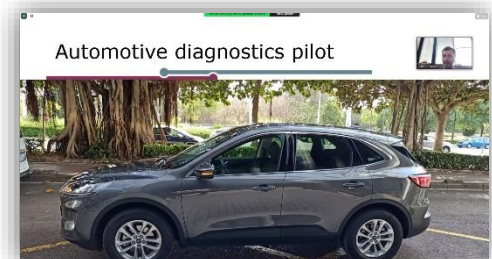
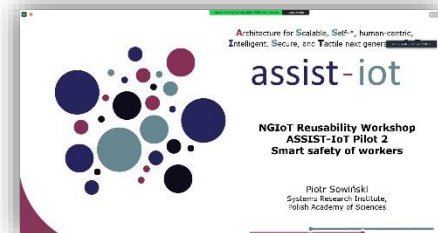
Marcin Paprzycki presented “Introducing Federated Learning in the Internet of Things Ecosystem” at International Conference on intelligent Systems, Advanced Computing and Communication 2023 (ISACC 2023) on Saturday 4th February 2023 (online)!

ASSIST-IoT project participated at Next Generation Internet of Things - NGIoT "NGIoT Sustainability Workshop - Use Cases" workshop on 22nd of February 2023!

- ASSIST- IoT was represented on 2 different slots. On the first one, Piotr Sowinski presented insights on the **Smart Safety of Workers pilot**.
- ASSIST- IoT was represented on 2 different slots. On the second one, Carlos Guardiola presented **"Tackling reusability plans for components developed for automotive diagnostics pilot"**.

Open Caller Update

The first results from the Razor IoT device by insigh.io in the context of ASSIST-IoT Open Call #1 are now available! You may find all the related information here: <https://insigh.io/blog/iot-empowered-road-anomalies-detection-in-real-time/> & <https://docs.insigh.io/firmwareapi/>



ASSIST-IoT Co-organised Workshops & Call for Papers Opportunities



ASSIST-IoT co-organises the 7th Workshop on Internet of Things – Enablers, Challenges and Applications (IoT-ECAW'23) in Warsaw, Poland, 17–20 September 2023 (organized within the 18th Conference on Computer Science and Intelligence Systems-FedCSIS 2023 (IEEE: #57573), 16th International Workshop on Computational Optimization (WCO'23), Track 3). **Deadline submission: 23 May 2023.** Find out more here: <https://assist-iot.eu/2023/04/10/assist-iot-iot-ecaw23-call-for-papers/>



ASSIST-IoT co-organised Minitrack (HICSS57) by ASSIST-IoT in the Cognitive Cloud Continuum Ecosystems: Theory and Practice, Honolulu, Hawaii, will take place in January 3-6, 2024 – part of the Hawaii International Conference on System Sciences (HICSS)), Honolulu, Hawaii, January 3-6, 2024. **Deadline submission: June 15, 2023.** More information about the workshop here: <https://assist-iot.eu/2023/04/17/assist-iot-minitrack-in-hicss57-call-for-papers/>



This year, scientists and engineers from all over the world meet to explore the design principles, development and applications of new imaging technologies and computer visualization techniques. The use of machine learning and artificial intelligence to analyze and interpret imaging data is rapidly changing the global economy, experiencing an unparalleled integration of science and technology with artificial intelligence and big data; let us see this event as unique opportunity not only to exchange and disseminate knowledge but also bridge multidisciplinary areas like engineering and science with health science, robotics, quantum neuromorphic cognition, exploration of Space and Industry 4.0.; generating new knowledge while establishing global collaborative multidisciplinary opportunities, by tightening collaborations among industry, academia, and healthcare industry. **Deadline submission: June 5, 2023.** Find out more here: <https://ist2023.ieee-ims.org/>



EUCloudEdgeIoT official Launch

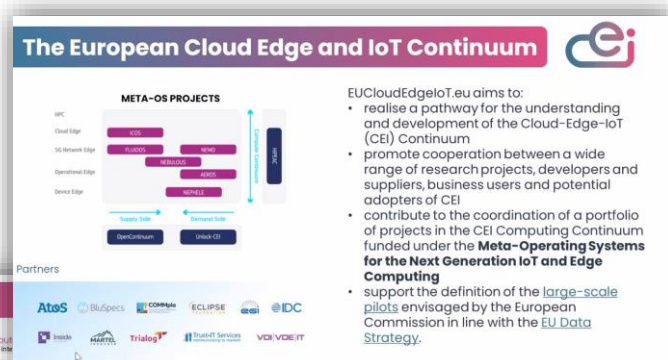
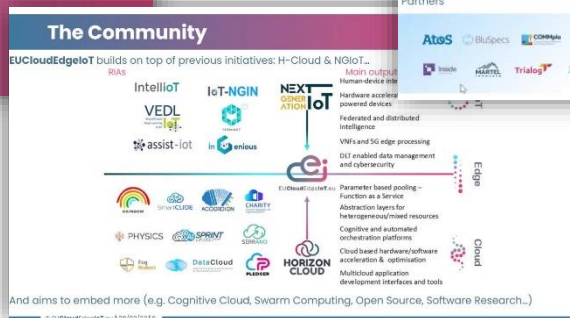
The official launch of the EUCloudEdgeIoT took place on Wednesday 8th of April, and ASSIST-IoT project was present! In this introductory meeting participants had the chance to meet the coordination team and the new Task Forces!

Cloud and edge computing are essential technologies in a computing continuum to ensure data is managed more efficiently – closer to the originating source rather than transmitting raw data to data centres. As recent studies suggest, data processing is moving closer to the edge.

Thus, advancing the IoT can reduce communication and storage costs, energy consumption and produce benefits for citizens and businesses thanks to the integration of AI and Machine Learning. These trends call for a shift towards the technical and business convergence of the so-far formally separated Cloud, Edge and IoT domains.

Emerging **Cloud, Edge and IoT** computing technologies can help an increasing number of businesses to optimise their systems by shifting data processing to the sources rather than depending on remote endpoints. CEI technologies also ensure quicker and smoother data access avoiding speed and connectivity issues, thus improving user experience and reducing hindrances. Moreover, through their decentralised systems, they enhance data security and reduce operational costs due to the minimal need to move data to the cloud.

Cloud, Edge and IoT technologies are critical for Europe's future in different domains, leveraging low latency responses that can positively impact several domains – from energy infrastructures to national security to healthcare and economics in larger terms. These technologies also play an essential role in achieving sustainability goals in both rural and urban contexts. From an industrial perspective, the cloud, edge and IoT convergence creates a wide range of opportunities for different companies by significantly improving network latency and traffic.

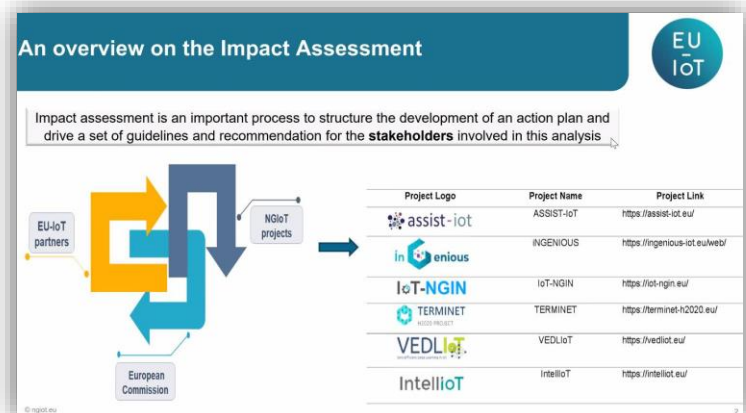
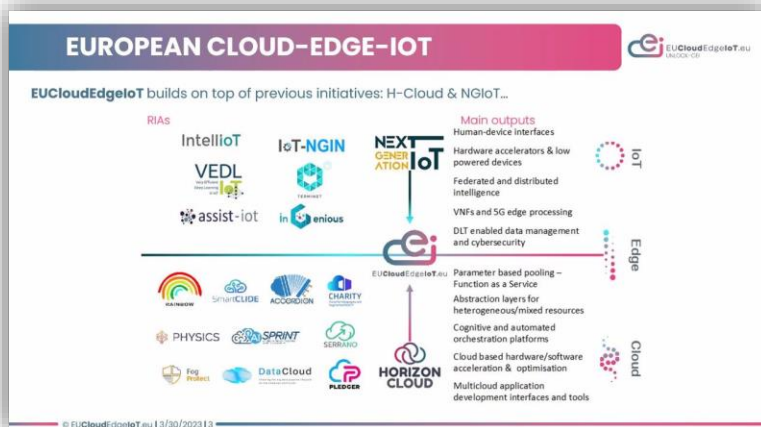


EU-IoT Final Event

The final event of EU-IoT, took place on 30th of March. The event was based on the achievements of EU-IoT community and the upcoming activities.

EU-IoT has been a vital accelerator for the European IoT ecosystem, supporting the development of synergies, fostering strategic coordination among Next Generation Internet of Things (NGIoT) projects and related initiatives, and promoting the adoption of IoT solutions. As the project comes to a close in March 2023, this event provides an opportunity to reflect on the achievements and lessons learned and explore the future of IoT in Europe.

More information about the agenda, available here: <https://www.ngiot.eu/event/eu-iot-final-event-from-iot-to-cloud-edge-iot-continuum-takeaways-and-transition-to-the-new-paradigm>



EUCloudEDGEIoT Activities

EUCloudEdgeIoT "Concertation and Consultation on Computing Continuum: From Cloud to Edge to IoT" event will take place on May 10th - 11th at Brussels. ASSIST-IoT project will be represented by the coordination team. You may learn more here:

<https://eucloudedgeiot.eu/concertation-and-consultation-on-computing-continuum-from-cloud-to-edge-to-iot/>



The EUCloudEdgeIoT initiative aims to realise a pathway for the understanding and development of the Cloud, Edge and IoT (CEI) Continuum by promoting cooperation between a wide range of research projects, developers and suppliers, business users and potential adopters of this new technological paradigm. Provide the with insights by filling the following survey. Find out more here:

<https://eucloudedgeiot.eu/call-for-expression-of-interest/>



Submitted Deliverables

D2.10 Advisory Board Minutes – Final Meeting [M30] – Minutes and report of the final meeting with the Advisory Board.

D6.3 Testing and Integration Plan – Final [M30] – Final plan and results of testing and integration.

D6.6 Technical and Support Documentation – Final [M30] – Includes final versions of all technical and supporting documentation of components developed in WP3 and WP4

D6.7 Release and Distribution Plan – Final [M30] – Final version of the software and documentation release. This version will update the initial plan.



ASSIST-IoT public deliverables are available for downloading

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

6th Face to Face to Face Plenary Meeting

The 6th Face to Face Plenary meeting took place on the 26th & 27th of April, in CERTH's premises in Thessaloniki. In this plenary meeting partners discussed about the final period of the project. Details about the pilots and the current status of the work packages were also discussed. In this meeting a separate parallel room with technical orientations was included in the agenda. Also, members of the consortium had fruitful discussions with the Advisory Board members which participated in the meeting both physically and virtually.



Communication Channels



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Call: H2020-ICT-2020-1
Topic: ICT-56-2020
Type of Action: RIA
Duration: 36 Months
Start Date: 1 November 2020

