

EF ECS 2022

EF ECS is the international forum to 'Create impact by collaborative innovation!' for an autonomous and sustainable Europe and the Electronic Components and Systems value chain in Europe. EF ECS 2022 took place in Amsterdam, the Netherlands on the 23-24th of November 2022.

ADACORSA project was represented in a booth, where project partners presented technical demonstrators and overall achievements of the project. Anna Ryabokon, TTEch, presented Demonstrator 5.1.1. "Fail-operational avionics architecture". Panagiotis Rodosthenous, ITML, presented "Drone market insights". Nina Suchotina, Metis Baltic, presented Demonstrators 1.3 "3D Imaging" and 1.4 "Detect and avoid".

Project representatives also took advantage of all networking opportunities and formed meaningful connections with potential stakeholders.



UPCOMING EVENTS

ADW 2023

Amsterdam Drone Week 2023 will take place in Amsterdam, the Netherlands on the 21-23rd of March 2023.

Amsterdam Drone Week is the global platform for sharing knowledge on current air solutions, potential innovations and vital regulations. A top-level meeting point where all key players, big and small, commercial and non-commercial, from various industries, knowledge institutes and authorities, gather to co-create and co-operate. Creating urban air solutions together.



This project received funding from the ECSEL Joint Undertaking (JU) under grant agreement No 876019. The JU receives support from the European Union's Horizon 2020 research and innovation programme and national authorities

Collaboration with other projects

The EFECTS conference was a perfect opportunity to celebrate the "Towards a European single market for drones" initiative, which brought together **Comp4Drones, CPS4EU, ADACORSA and Arrowhead-tools projects**.

The synergy between these projects allowed to increase accessibility to pre-integrated tool chains produced by SMEs that make up the drone industry in Europe. Comp4Drones and ADACORSA are developing components for drones. Comp4Drones architecture stems from avionics practices, while ADACORSA adapts automotive technologies and practices. CPS4EU developed 6 pre-integrated architectures for cyber-physical systems, which can enable easy customisation of drone systems. Arrowhead-tools work on closing the gaps that hinder IT/OT integration. By introducing new technologies in an open-source platform for design and run-time engineering, Arrowhead Tools renders the efficient integration of IoT and System of Systems tractable.

Furthermore, these projects have many partners in common, making it easier to share the overall vision and facilitating the adoption of the projects` results.



2nd Review Meeting

The Review Meeting took place on the 21st of June in Brussels, Belgium at KDT JU, White Atrium Building. Work Package and Supply Chain leaders participated in person, while the rest of the consortium joined online. The Project Officer and outside experts evaluated favourably technological achievements, demonstrators and overall progress made in the 2nd year of the project.



PROJECT UPDATES:

3rd ADACORSA General Assembly Meeting

The project`s 2nd in-person General Assembly meeting will take place on the 2nd-3rd of March 2023 in Larnaca, Cyprus. This will allow partners to meet in person after a long break, present their work, receive valuable feedback and foster relationships, that are crucial for successful project completion.

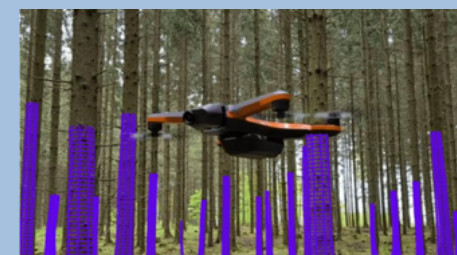


New Technology by KATAM

Our partner Katam Technologies has launched the world's first service for capturing tree trunk data using camera drones.

Autonomous drones are utilised to complement manual measurements of tree trunk diameter. With this new solution, forest owners and field personnel can avoid entering inaccessible, hilly, thorny, and even dangerous forests, such as tropical environments that are home to spiders and snakes.

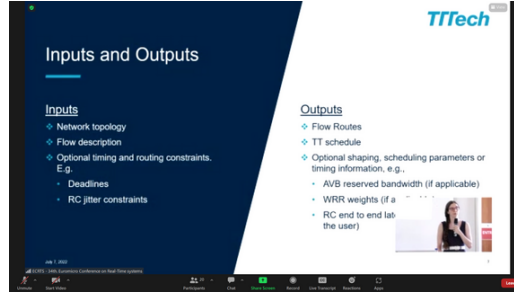
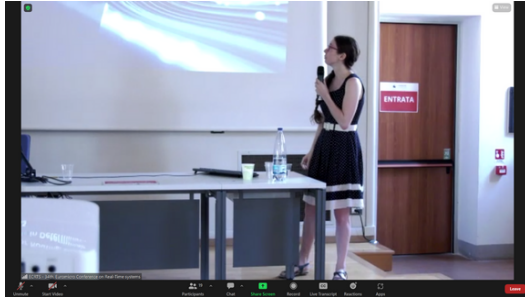
[More information in the article.](#)



ECRTS 2022

Dr Anaïs Finzi, TTTech, presented her presentation “General Framework for Routing, Scheduling and Formal Timing Analysis in Deterministic Time-Aware Networks” during the 34th Euromicro Conference on Real-Time Systems conference (ECRTS 2022). ECRTS took place on the 5th -8th of July 2022 in Modena, Italy.

Her co-author Ramon Serna Oliver participated online. We are looking forward to the future works of Dr Anaïs Finzi and Ramon Serna Oliver.



EASN conference

During the EASN conference, which took place on the 18th -21st of October 2022 in Barcelona, Spain, the ADACORSA project was represented in the “Leveraging cross-sectional industries to enable BVLOS drone services” session. Project partners presented 6 topics, that made a great impact on conference participants and laid the foundation for future publications and presentations. We are grateful to have such dedicated partners on our project and look forward to their future work.



Measurement flights by OTH-AW

Successful Measurement Flights as Part of the ADACORSA Research Project Performed by Automotive-Team OTH Amberg-Weiden

Measurement campaigns were successfully carried out in a farming area near Schmidgaden in Bavaria. For this purpose, a commercially available DJI drone was extended with a measurement system that enables the recording of the quality of service of mobile radio connections. The picture shows the drone, with which predefined routes are flown, the drone pilot, as well as an RTK base station, which is used for the exact routing of the drone. With the help of the measurement data, prediction models are to be trained. These are, for example, applied to adjust the utilization of the transmission channels accordingly or to generate a flight route adapted to the transmission characteristics.



Stay tuned



Project communication:

Nina Suchotina
 nina@metisbaltic.lt
 (Metis Baltic)



Project Coordination:

Ulrike Glock
 ulrike.glock@infineon.com
 (Infineon Technologies AG)



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