



COCOON - From Vision to Reality

Dear COCOON Community,

As we enter the final stretch of the COCOON project, the momentum has never been stronger. From landmark pilot milestones to international conference appearances and new research breakthroughs, the past months have been packed with achievements that are bringing the COCOON vision closer to full realization. Here's everything you need to know!

CPN Technical Workshop – University of Glasgow

A major step forward for the COCOON Programmable Node came with the CPN Technical Workshop, hosted by the University of Glasgow (UGLA). The full consortium gathered for hands-on configuration and deployment sessions, connecting the cybersecurity algorithms developed by Aristotle University of Thessaloniki (AUTH) and the University of Seville (USE) with the ICT network orchestration layer built by UGLA — all within a unified framework guided by the University of Cyprus (UCY). Partners moved decisively from architecture and design into real-world integration, directly feeding the requirements of pilots running on live infrastructures across Greece, the Netherlands, and Spain.

5th General Assembly – Delft, Netherlands

Building on that energy, our 5th General Assembly took place in Delft, Netherlands, hosted by Delft University of Technology (TUD). Over two full days, the consortium reviewed progress, aligned

strategy, and looked ahead to the final phase of the project. The results were clear: all work packages are ahead of schedule, and all pilots have reached TRL 6 — a strong validation of how far the consortium has come since kickoff. The CPN continues to gain structure and function, and the shared ambition across all partners has never felt more tangible.

COCOON Toolset Dashboard – Alpha Version Live!

Alongside these technical milestones, we are excited to share the first look at the COCOON Toolset Dashboard (CTD) — the central platform that consolidates cybersecurity and operational insights across all pilots. The alpha version brings together real-time network and electrical data from each site, cyberattack monitoring and detection capabilities, a Risk Scoring Tool highlighting vulnerabilities across network devices, and an Early Warning System designed to alert operators before an incident escalates.

Greek Pilot Highlights – A Series of National Firsts

The Greek pilot, led by HEDNO, continues to make history. For the first time ever, the Greek Distribution System Operator remotely controlled PV parks, opening the door to nationwide implementation. COCOON also enabled the first real-world application of Ancillary Services in Greece — a landmark step for smart grid evolution and energy resilience. Most recently, distributed energy sources began actively supporting the grid for the first time, the result of close collaboration between HEDNO, AUTH, and I&K Electrical Engineering Systems Ltd.

The scale of interest in this work was on full display at HEDNO's internal Spotlight event, where the COCOON project was presented to more than 250 participants. The team received strong recognition for their commitment and the concrete results being delivered as the project enters its final year.

Secure DRES Deployments Pilot – Spain

In Spain, the Secure DRES Deployments Pilot is progressing steadily. Led by Cuerva, Ingelectus, and USE, the pilot focuses on how COCOON tools — including the Early Warning System — can protect Power Plant Controllers managing solar PV installations. Operators gain the ability to detect risks early, prevent disruptions, and respond swiftly to limit remote access when needed, keeping energy systems secure and reliable under real-world conditions.

COCOON on the International Stage

The project's visibility has grown significantly across major European events in recent months. At SEMICON Europa 2025 in Munich, Project Coordinator Prof. Angelos Marnerides introduced the CPN to audiences spanning sectors well beyond energy, reinforcing COCOON's potential as a cross-domain cybersecurity solution. Shortly after, at ENLIT 2025 in Bilbao — one of Europe's largest energy gatherings with over 15,000 visitors — HEDNO showcased its own pavilion for the first time, with COCOON featured as one of its flagship innovation projects.

On the AI front, Prof. Marnerides presented at the "AI Enables Cybersecurity" Meetup organized by COSMOTE, sparking strong interest and laying the groundwork for future collaborative initiatives. Most recently, on January 27, 2026, he was invited to speak at "Driving Trustworthy AI through Design and Regulation" in Cyprus — a high-level event co-organized by the Office of the Commissioner of Communications and the Cyprus Organization for Standardization. His presentation used the CPN as a concrete, real-world demonstration of how AI-powered security can protect interconnected power grids at a national scale.

What's Coming Next

As we head toward the project's conclusion, final pilot demonstrations across Greece, Spain, and the Netherlands are approaching, alongside the full CPN release and comprehensive results from across the consortium. The second half of COCOON promised to be exciting — and it is delivering on that promise.

Thank you for being part of the journey. Follow our updates on LinkedIn, visit <https://www.cyber-cocoon.eu>, and don't miss the new COCOON Podcast series, now back after a break, dedicated to presenting final project results and real pilot implementations.

Warm regards,
The COCOON Team

