Press Release

30 September 2025

End of the REWIRE EU Project: **Three years of innovation reinforcing Europe's cybersecurity in the IoT era**

After three years of intense research, innovative ideas, and a fruitful collaboration among 14 partners, the REWIRE Project has successfully concluded its mission to reinforce Europe's cybersecurity posture in the age of the great rise of the Internet of Things (IoT) ecosystem and trusted computing. With its final activities wrapped up in September 2025, REWIRE leaves behind a legacy of ground-breaking new technologies, exploitable innovations and unique research outcomes for the open-source communities that upgrade cybersecurity and trustworthiness of the EU digital ecosystems.

In a globally interconnected world, with the rise of the IoT and pervasive Edge Computing we witness the continuous transformation of societies, industries and economies. Although, this transformation also leads to the escalation of emerging cyber risks: such as the fragmentation of trust anchors, HW and SW vulnerabilities, and growing cyberattacks that target essential services in major and critical industries. REWIRE partners managed successfully to address these challenges with a common vision: to create an interoperable, trustworthy computing continuum that extends from edge devices to cloud services, integrating new trust models and extensions, lightweight attestation mechanisms, and automated risk assessment into practical solutions for real-world applications.

By combining expertise in Trusted Execution Environments (TEE), formal verification, AI-driven anomaly detection, secure blockchain infrastructures, and verifiable credentials, the REWIRE partners advanced both scientific knowledge and practical deployment pathways, contributing actively with core innovations and a suite of real-world exploitable results. At the heart of REWIRE's success is the advanced portfolio of tools and demos developed during this adventurous journey. As a result, in three years, REWIRE managed to develop a portfolio of innovative Key Exploitable Results (KERs) and outcomes, demonstrating the impact of the research in three Smart verticals (Smart Cities, Smart Automotive and Smart Satellites), in order to ensure that results moved beyond the laboratory, REWIRE validated its technologies in high-impact demonstrators. These demonstrators not only validated REWIRE technologies but also engaged industry stakeholders, creating pathways for exploitation and up-scale.

To this end, the REWIRE's legacy is not only technological, but also strategic. The project has directly contributed to Europe's cybersecurity policy frameworks by aligning fully with NIS2 Directive. Its innovations support compliance with these regulations by offering concrete mechanisms for risk management, certification, and resilience in the face of evolving hybrid threats.

Funded by
the European Union

As the REWIRE project concludes, its outcomes continue to inspire new research and innovation. In the words of the consortium: *“REWIRE has shows that cybersecurity for the IoT requires a continuum of trust — from design to deployment, from cloud to edge, and from the lab to the market. Our project has served this foundation.”*

REWIRE is a 3-year Research and Innovation action (RIA), running from 2022 to 2025, funded under Horizon Europe. REWIRE brings together 13 partners from 8 European countries, providing all the required expertise for achieving the set objectives, consisting of 3 Industrial Partners, 3 Service Providers, 4 Academic and Research representatives, as well as three 3 SMEs. For more information please visit: https://www.rewire-he.eu/.