4th Newsletter

March 2024

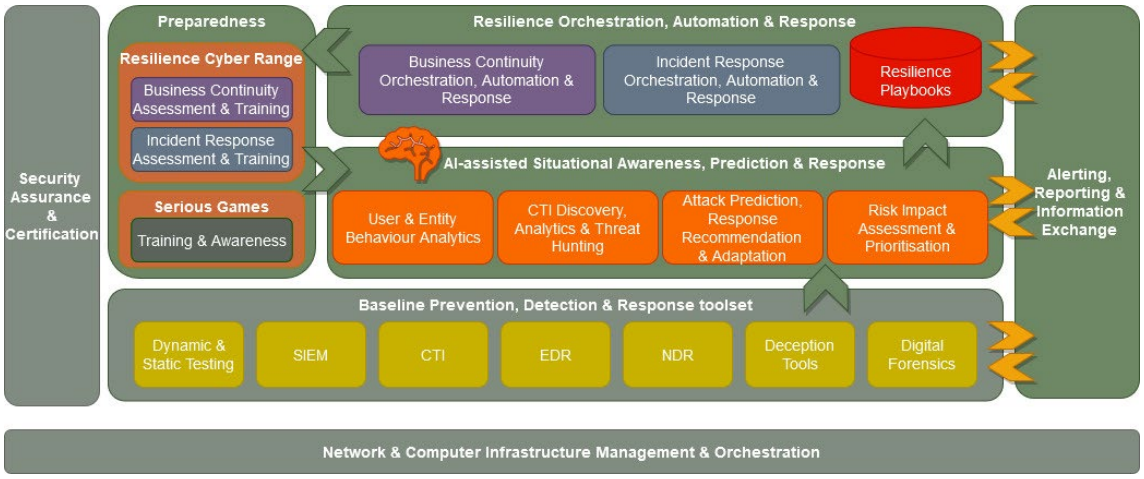
WELCOME

In December 2023 ended the first period of the PHOENI2X project. This fourth Newsletter presents the project's main achievements over the last four months. From the technical point of view, we have been focused on the development of the first (MVP) version of the integrated PHOENI2X framework, which includes the baseline components, the AI-assisted Situational Awareness, Prediction & Response enablers and for the Coordinated Response & Preparedness enablers. The integrated PHOENI2X framework has been demonstrated in the three use cases of the project. i.e. energy, transport and healthcare.

Review the past editions of the PHOENI2X newsletter to discover the technical advancements, as well as the events and news of the project during its first period of life. Stay tuned to our website, and Twitter, @Phoeni2xProject, where key project results will be published periodically.

PHOENI2X FRAMEWORK

PHOENI2X proposes a Cyber Resilience framework with AI-assisted orchestration, automation & response capabilities for business continuity, recovery, incident response, and information exchange, tailored to the needs of Operators of Essential Services and their National Authorities.



PHOENI2X Architectural building blocks

Baseline Prevention, Detection & Response toolset

Dynamic testing Open VAS vulnerabiltiy scanner	SIEM Wazuh	NDR pfSense Zeek Wireshark CICFlowMeter	Deception Tool Conpot
Static testing Vulnerability scanning component of SPA Suite	CTI MISP	Digital Investigations and Forensics FVT	EDR Wazuh

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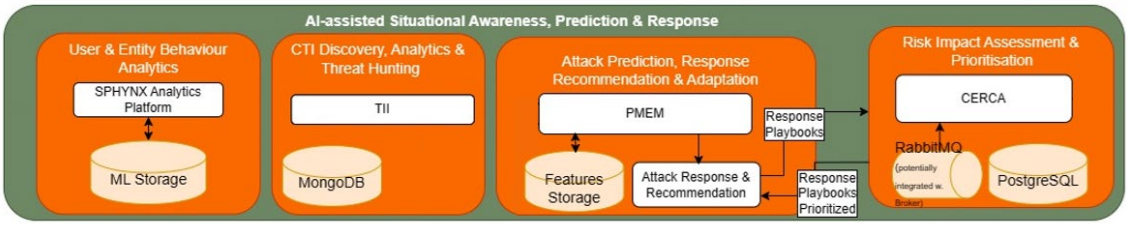
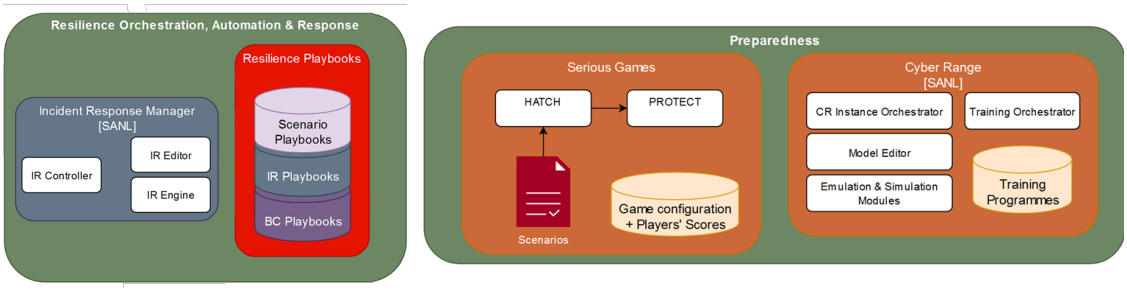
AI-assisted Situational Awareness, Prediction & Response Enablers



Coordinated Response & Preparedness Enablers



PHOENI2X NEWS AND EVENTS

Infocom World 2023

The PHOENI2X Project has been presented in the *AI for the Support of Cyber Resilience and CyberSecurity in Modern 5G/B5G Infrastructures* session of the **25th InfoCom World Conference**, on December 14th.

The InfoCom conference brings together industry leaders, researchers, policymakers and entrepreneurs. In this session four EU-funded Projects discussed how AI can accelerate threat detection and response mechanisms, a critical issue to cyber resilience, enabling the prediction of upcoming threats and incidents in real-time.

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CyberHunt2023

PHOENI2X has participated on the **6th Workshop on Cyber Threat Intelligence and Hunting** (CyberHunt2023), in conjunction with the 2023 IEEE International Conference on Big Data (IEEE BigData 2023). The workshop has been jointly organized by the PHOENI2X and JCOP EU-funded projects.

The workshop, which brought together experts from academia, industry, and government to discuss advances on the domain of Cyber Threat Intelligence, took place in Sorrento, Italy, the 17th December 2023. Three partners from the PHOENI2X project, i.e. AEGIS, University of Oslo, and University of Patras, attended the workshop presenting two PHOENI2X related scientific papers: "*AMINet: An Industrial Honeynet for AMI Systems*" co-authored by UPAT and PPC; and "*Enhancing Cyber Threat Hunting: A Visual Approach with the Forensic Visualization Toolkit*" authored by AEGIS.

5th PHOENI2X Plenary Meeting

The PHOENI2X 5th Plenary meeting was celebrated on the 24th and 25th of January, 2024, in Athens, Greece. The meeting was hosted by COSMOTE, and its main objectives were to finalise the integration of the enablers within the PHOENI2X framework and to prepare the first review meeting of the project.

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The first day's discussions addressed the open issues on the integration of the PHOENI2X framework in the three uses cases of the project, i.e. energy led by PPC and COSMOTE, railway led by FGC and WSE and healthcare led by NPS, as well as on the completion of the three demos. The second day, first partners reviewed the progress done on the AI-assisted Situational Awareness, Prediction & Response Enablers (in the context of WP3) and Coordinated Response & Preparedness Enablers (in the context of WP4). While in the second session, was presented the work done in management, dissemination, exploitation, standardisation and sustainability in the first term of the PHOENI2X project. The meeting concluded with an open discussion and wrap-up of the 5th plenary meeting.

ETSI AI conference

Eunomia Limited has participated at the **ETSI AI Conference**: **Status, Implementation and Way Forward of AI Standardization** presenting the paper *Standardization: AI Act's Cornerstone*.

In the conference was discussed how Europe is addressing policy and legislation which will impact the deployment of AI, paying particular attention to ensure that AI systems placed on the EU market respect existing law on fundamental rights and EU values; and to facilitate the development of a single market for lawful, safe and trustworthy AI applications.

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