

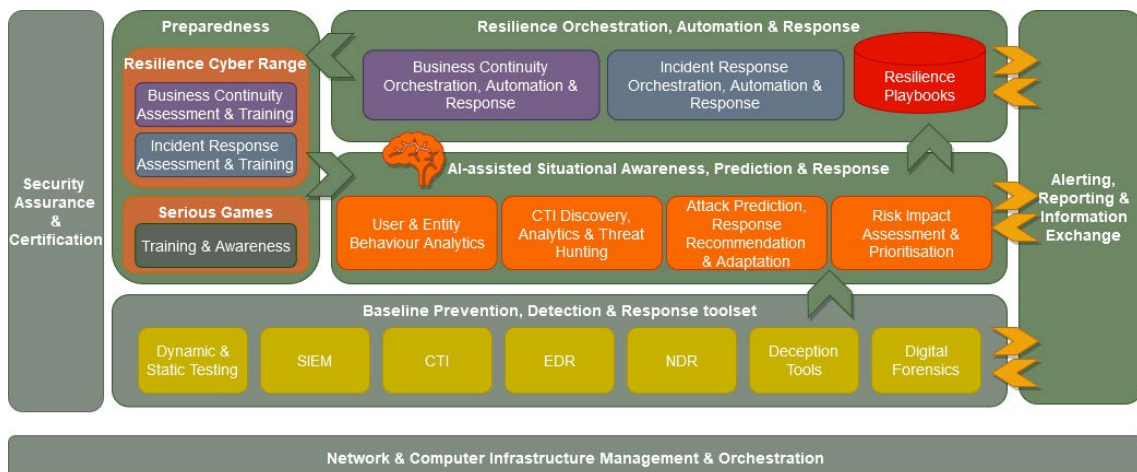
WELCOME

The first year of the PHOENIX project is over and this second newsletter introduces the main achievements of the project during the last six months. Review the first edition of the PHOENIX newsletter to discover the technical advancements, as well as the events and news of the project during its first six months of life. Stay tuned to our website, <https://phoenix.eu/>, and twitter, @PhoenixProject, where key project results will be published periodically.

PHOENIX TECHNICAL ACTIVITIES

PHOENIX proposes a Cyber Resilience Framework intended to provide Artificial Intelligence (AI) – assisted orchestration, automation & response capabilities for business continuity and recovery, incident response, and information exchange, particularly tailored to the needs of Operators of Essential Services (OES) and of the EU Member State (MS) National Authorities entrusted with cybersecurity.

Over this period, a key achievement has been the definition of the PHOENIX architecture made up of the following key components: AI-assisted Situational Awareness, Prediction & Response; Preparedness; Baseline Prevention, Detection & Response; Serious Games; Resilience Orchestration, Automation & Response; Security Assurance & Certification, and Alerting, Reporting & Information Exchange capabilities.



PHOENIX PARTNERS



This project has received funding from the Horizon Europe Research and Innovation programme under Grant Agreement No101070586.

PHOENI2X NEWS AND EVENTS

2nd PHOENI2X Plenary Meeting

The PHOENI2X 2nd Plenary meeting has been celebrated the 15 and 16 of March, 2023, in Barcelona, Spain. The meeting was hosted by FGC. The second plenary meeting put together all project partners to discuss the overall progress, to present the work conducted in the last four months, and to define a roadmap for the different tasks for the next ten months, up to the first project review meeting.



The first day of the meeting three sessions took place. First, the PHOENI2X architecture and baseline tools were presented and minor issues were discussed. Second, an interesting discussion took place on the pilots' setup, for Health, Energy and Transport use cases. In the afternoon, WP3 partners presented the work conducted during the last months on AI-assisted situational awareness, prediction and response enablers. Then, WP4 partners presented the work done on the coordinated response and preparedness enablers. The meeting concluded with the definition of the upcoming actions for all the different tasks of WP3 and WP4.

The second day of the meeting, two sessions took place. First, dissemination and management activities for the last four months were presented and discussed, and a roadmap for the next 10 months was defined. Then, all partners visited the FGC's Security Operation Center. The second day concluded with an open discussion and wrap-up of the meeting.

DRCN 2023 Conference

IOSEC 2023

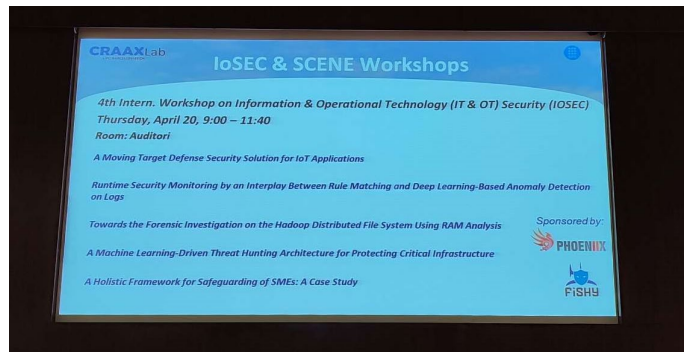
On April 19, 2023 the 4th International workshop on Information & Operational Technology (IT & OT) security (IOSEC 2023) was held in Vilanova i la Geltrú co-located with the 19th International Conference on the Design of Reliable Communication Networks (DRCN2023).

The IOSEC workshop was organized as a joint initiative of four EU-funded projects: JCOP (<https://jcop.eu/>), PHOENI2X (<https://phoeni2x.eu/>), IntelloT (<https://intelliot.eu/>), and FISHY (<https://fishy-project.eu/>). The workshop brought together experts from the cybersecurity and Artificial Intelligence fields, to discuss security problems and solutions for advancing the collective science and practice of IT and OT security.



The following presentations took place in the workshop:

- A Moving Target Defense Security Solution for IoT Applications
- Runtime Security Monitoring by an Interplay Between Rule Matching and Deep Learning-Based Anomaly Detection on Logs.
- Towards the Forensic Investigation on the Hadoop Distributed File System Using RAM Analysis
- A Machine Learning-Driven Threat Hunting Architecture for Protecting Critical Infrastructure
- A Holistic Framework for Safeguarding of SMEs: A Case Study.



DRCN 2023 Panel

During the DRCN 2023 conference takes place the panel “Reliability, are you for real?” sponsored by the EU-funded projects PHOENIX and FISHY. Two PHOENIX partners participated in the panel, Rodrigo Díaz (ATOS) and Xavi Masip (UPC), and the other participants were Oscar Carrasco (Casa-systems), Dominique Verchere (NOKIA Bell Labs), Matthias Gunkel (DT), Admela Jukan (TUBS) and Dominic Schupke (Airbus).



3rd PHOENIX Plenary Meeting

The PHOENIX 3rd Plenary meeting has been celebrated the 8 and 9 of June, 2023, in Oslo, Norway. The meeting was hosted by the Universitetet i Oslo (UiO). The meeting was mainly aimed at discussing the three pilots of the project, defining the proper processes for the integration of the PHOENIX tools into the Pilots’ testbeds.



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The first day discussions were centered on the definition of the Pilots' testbeds (Energy, Railway and Health); the selection of the baseline prevention, detection and response toolset for each one of the Pilots; and finally on the research progress done in WP3 for AI-assisted Situational Awareness, Prediction & Response Enablers and on WP4 for Coordinated Response & Preparedness Enablers.



The second day was organized in three sessions. First, the project and ethics and management activities were reviewed focusing the discussions in innovation management. Second, the work done on dissemination, exploitation, and standardisation activities was reported. And the third session held a Business continuity Workshop, where the use case partners presented their infrastructures and main aspects to ensure business continuity, recovery, and incident response related processes. The second day concluded with an open discussion and wrap-up of the meeting.

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