# Cyber-Physical Resilience Tool Step-by-step Training Guide

CPR Dashboard Overview ATOS/EVIDEN, Spain XLAB, Slovenia



### Overview of the Cyber-Physical Resilience Tool

- + CPR (Cyber-Physical Resilience) Tool is developed under the SUNRISE project to enhance the cybersecurity posture of critical infrastructure (CI), particularly during complex events like pandemics. It aims to support security teams in managing digital threats that may arise alongside other challenges such as staff shortages or operational disruptions.
- + CPR integrates multiple modules to provide a holistic view of cyber threats. These include an anomaly detection system validated with real CI logs, a risk assessment module that incorporates temporary conditions and physical activity alarms, and a threat intelligence scoring component enhanced with source confidence evaluation.
- + The tool aligns with known frameworks such as MITRE ATT&CK for mapping Indicators of Compromise (IoCs), helping security analysts understand attack patterns more efficiently. It also includes features that support NIS 2 Directive compliance through its structured incident reporting module.
- + The CPR dashboard enables users to access risk reports, simulate mitigation strategies, and evaluate the effectiveness of cyber defense mechanisms in real-time. It is designed for ease of use, allowing operators to visualize and respond to threats across cyber and physical domains quickly and effectively.
- + CPR is especially valuable for operators of essential services, offering capabilities that strengthen incident awareness, improve response times, and support decision-making during both normal operations and crisis scenarios.

#### **Content Overview**



This step-by-step training guide provides an overview of the **CPR Dashboard**, part of the SUNRISE Cyber-Physical Resilience Tool. It is designed to help users understand and navigate the key features. It forms part of the training materials provided for the solution, alongside the <u>training video</u>.



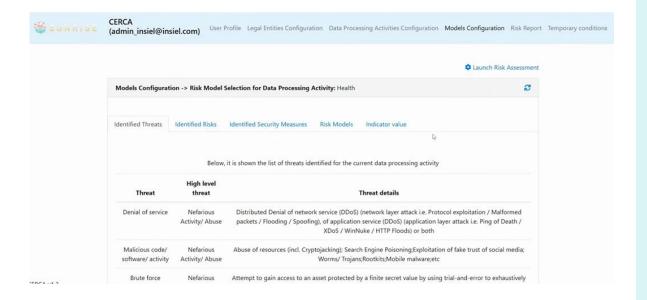
#### Dashboard Overview





- + The CPR Dashboard presents a summary of key cybersecurity activity:
  - Latest anomalies from LOMOS
  - Recent alerts from WAZUH
  - Most recent risk assessment (CERCA)
  - Incoming threat intelligence (IoCs)
  - Ongoing incident reports
- + You can also access each module directly from the dashboard interface.

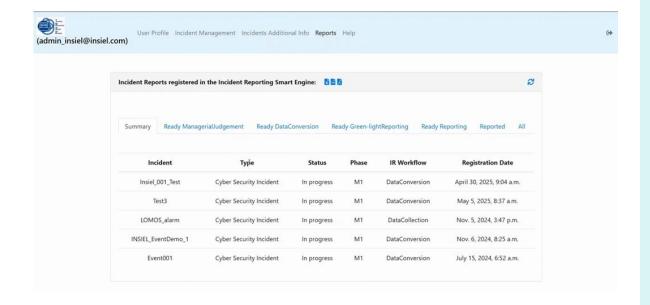
#### Risk Assessment - CERCA Module





- Define the organisation and configure it as a **legal entity**
- Complete both the main and workforce **questionnaires**
- Create data processing activities and link relevant assets
- Set criticality levels for each asset (CIA: Confidentiality, Integrity, Availability)
- Input or auto-generate **financial loss values** per asset
- Select and apply appropriate **risk models** (e.g. SQL injection, session fixation)
- View results in the Risk Report, showing both qualitative and quantitative risk
- Check Risk History for past assessments
- Review suggested mitigations for each model

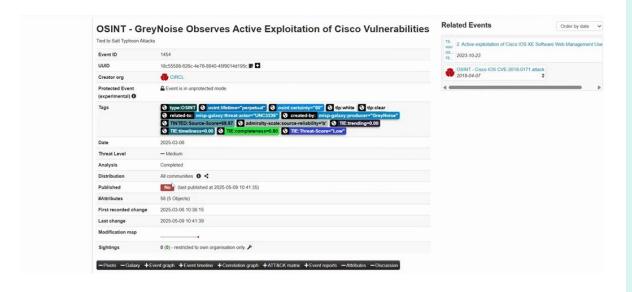
## Incident Reporting - AIRE Module





- AIRE helps track and report security incidents, following regulatory requirements.
- + Steps:
- + Access reports from the "Reports" tab
- + Open cases using the **TheHive** interface
- View incident data in "Incidents Additional Info"
- Configure impacted essential services and personal data breach details
- + Add affected processes under "Impacted Processes"
- Monitor incident workflows and tasks

## Threat Intelligence – TINTED Tool





- + TINTED enriches threat intelligence and aligns technical data to known attack methods.
- + Access the MISP dashboard via the CPR interface
- + View MISP events enriched with:
  - Threat scoring
  - Source confidence
  - Admiralty scale ratings
  - MITRE ATT&CK mapping ("galaxies")
- + Explore all received IoCs under "Threat Intelligence Monitoring"

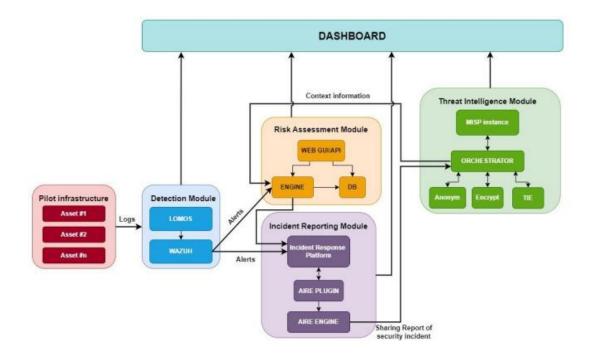
## **Anomaly Detection - LOMOS**





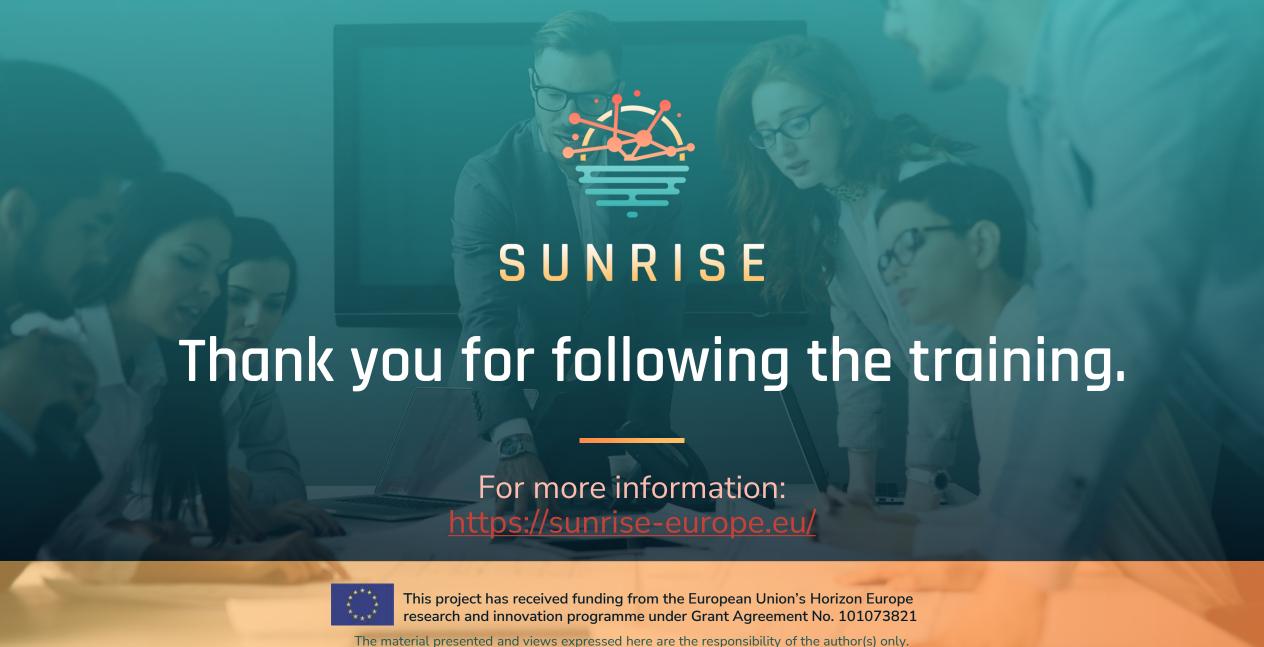
- + LOMOS monitors system logs to detect behavioural anomalies in real time.
- More details about the LOMOS functionalities are presented in the dedicated training video and step-by-step training guide.

#### Health Credential Validation





- + CPR modules are connected to allow crossfunctional responses:
  - LOMOS anomalies and WAZUH alerts feed into CERCA and AIRE
  - CERCA uses threat data and organisational inputs to assess evolving risks
  - AIRE manages incidents from detection through to reporting
  - TINTED enhances threat context and feeds this back to CERCA



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