SODA-IIoT4Factory: Blockchain to keep the A.I. of your Intrusion Detection System up-to-date

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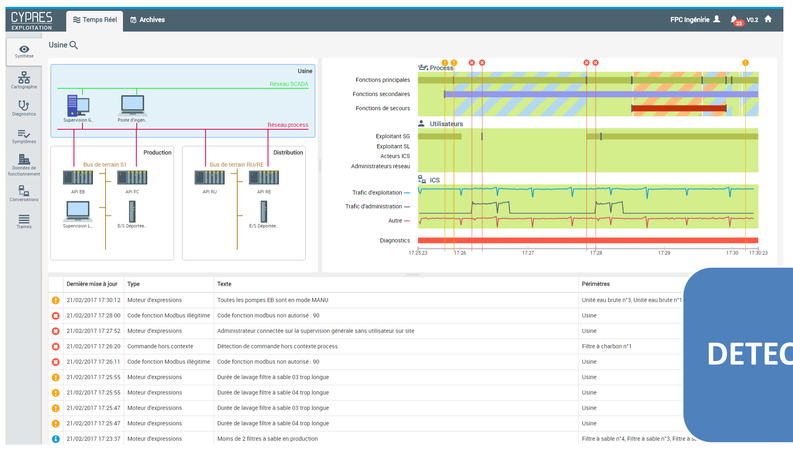
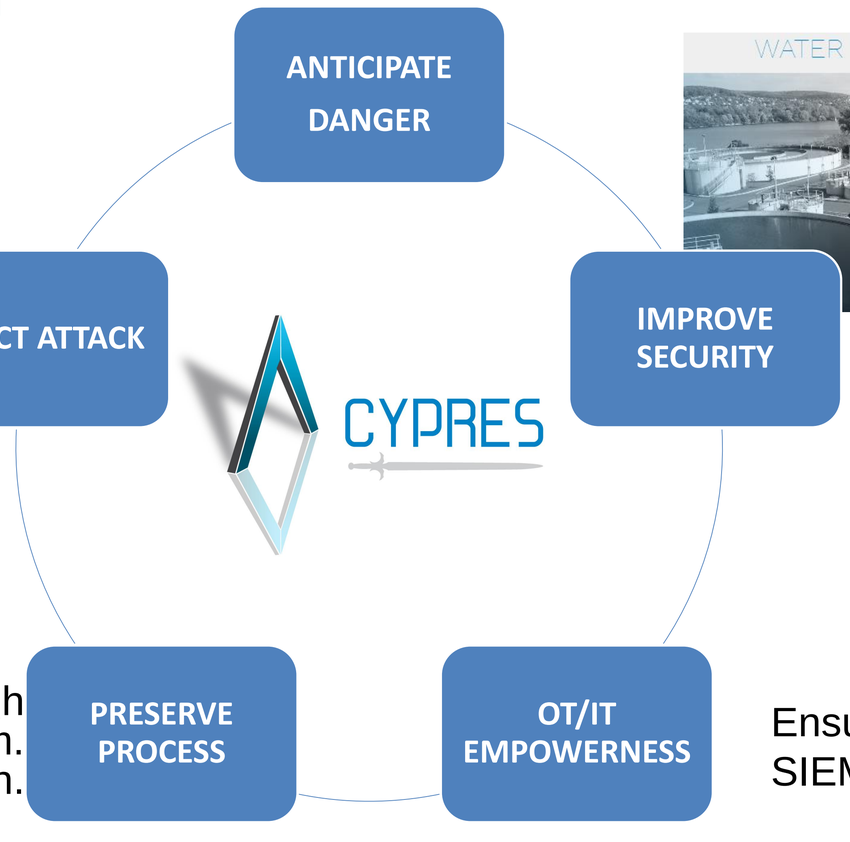
CyPRES is an **intelligent IDS** that strengthens industrial information systems. It **learns** then verifies the operation and **behaviour of the system** to the lowest level of detail. It **detects the first signs of attacks** before damage is incurred.

Avoid production downtime or the deterioration of facilities by monitoring the activity of the industrial network and anticipating the risks associated with abnormal behaviour.



Alert immediately of any intrusion or cyber attack and intervene in order to ensure continuity of service of the facilities.



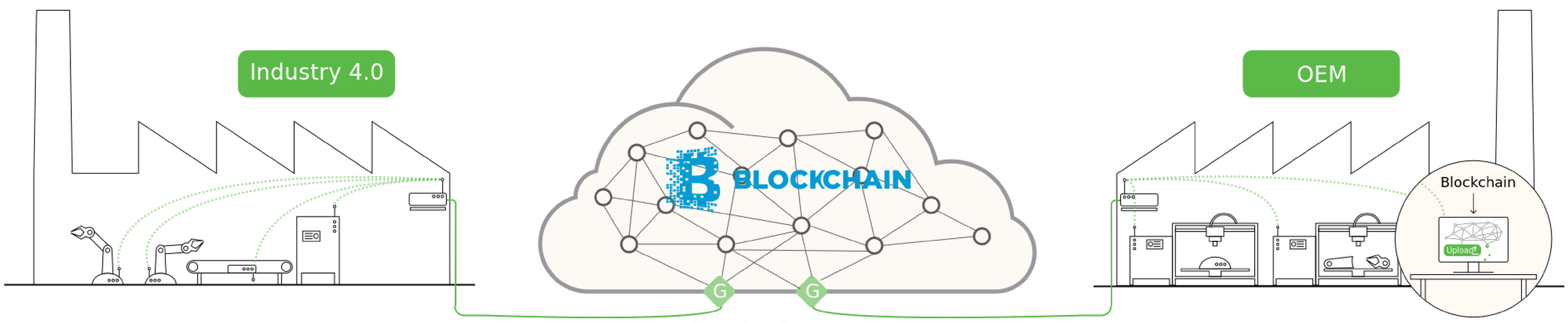
Analyse logged data to identify the root cause of an anomaly or an attack and implement appropriate security measures.

Listen to all communications that pass through the ICS without disrupting the control system. CyPRES is a non-intrusive solution.

Ensure OT/IT empowerness by raising alerts to a SIEM for a SOC exploitation.

- Discover, monitor and map de network and its equipment
- Detect unknown threats through continuous behaviour analysis
- Monitor the functional activity of the process
- Find the origin of an attack by a post-incident analysis

Co-designed with FPC Ingénierie, SODA-IIoT4Factory offers a secure way to update CyPRES rule engines & cyber security/attack models.



Credit Jack Fazakerley

Secured **O**n-the-pouce **D**ecentralized **A**rchitecture for the **I**ndustrial **I**nternet of **T**hings (SODA-IIoT), co-designed by IRT SystemX, CEA Tech List and Airbus Innovation Group, features innovative solutions to manage IIoT access rights management & secure software and firmware updates through **Blockchain technology & cryptographic signatures**.

The **SODA-IIoT4Factory** demonstrator is built on top of the **CHESS platform** (**C**ybersecurity **H**ardening **E**nvironment for **S**ystems of **S**ystems**)**, an experimental and technical cybersecurity platform funded by **ANSSI** to support cybersecurity research effort at Institute for Technological Research SystemX - Paris-Saclay (EIC R&D project).

This platform is part of French Government “Nouvelle France Industrielle”, Cybersecurity plan, action 8: set up one or more testing and demonstration cybersecurity platforms.

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