

WISG

Workshop interdisciplinaire sur la sécurité globale

14 & 15 mars **2024** • Couvent des Jacobins
Rennes



PRAETORIAN

Frédéric Guyomard (EDF)

H2020 European Project Overview

 <https://praetorian-h2020.eu/>

 <https://www.linkedin.com/company/praetorian-h2020>

PRAETORIAN Project Overview and Solutions

Frédéric Guyomard (EDF) – Project Coordinator



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under Grant Agreement No 101021274



PRAETORIAN AT A GLANCE

- Coordinator: EDF
- 23 partners from 7 EU countries
- 4 pilot sites in 3 EU Member states
- Total budget: 9,04 M€
- Total funding: 7,58 M€
- Start date: 01/06/2021
- End date: 30/09/2023



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PRAETORIAN strategic goal is to increase the **security and resilience** of European CIs, facilitating the **coordinated protection** of **interrelated CI** against **combined physical and cyber threats**.

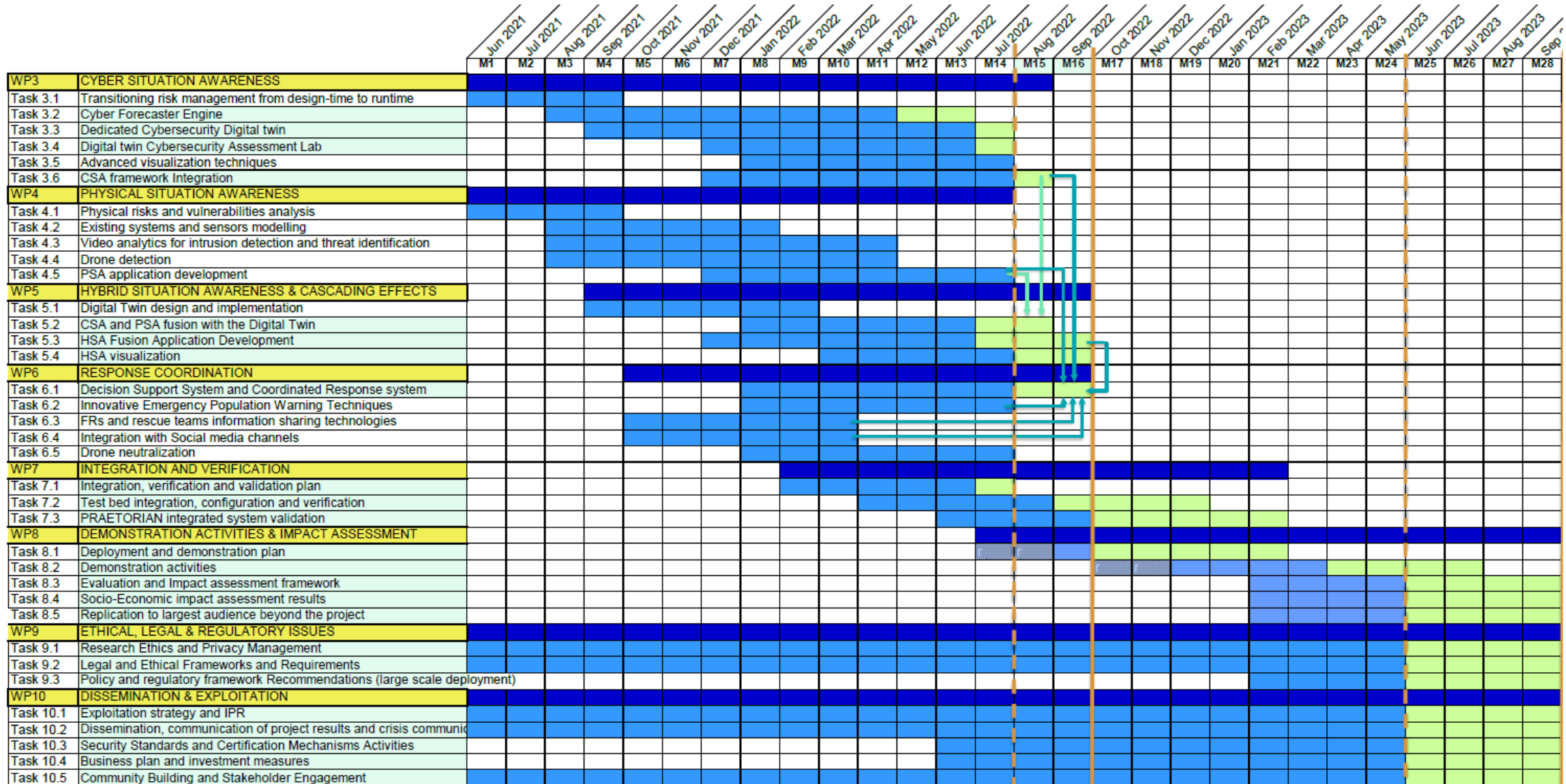




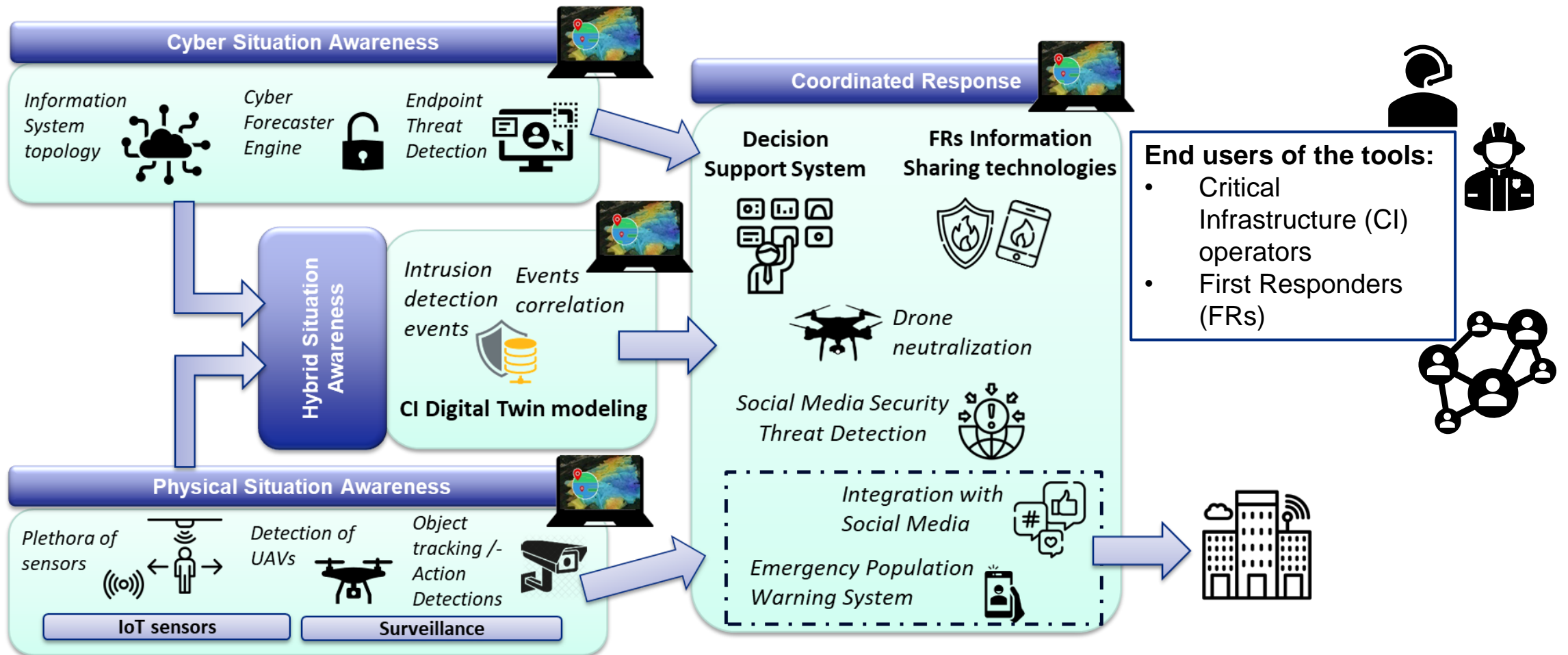
Overview

Evaluate hazards and minimise their level of risk by assessing the vulnerabilities of the targeted sectors and designing appropriate security measures.





Final PRAETORIAN solution

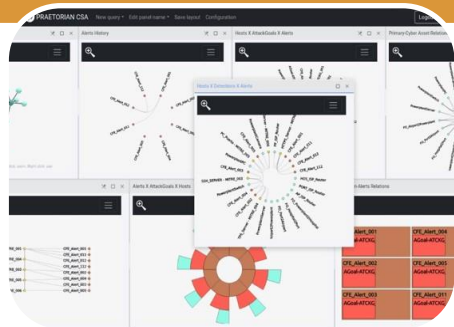


PRAETORIAN has developed **four products** to provide a coordinated and effective action towards security threats and attacks

P1



**CYBER
SITUATION
AWARENESS**



CSA

P2



**PHYSICAL
SITUATION
AWARENESS**



PSA

P3



**HYBRID
SITUATION
AWARENESS**



HSA

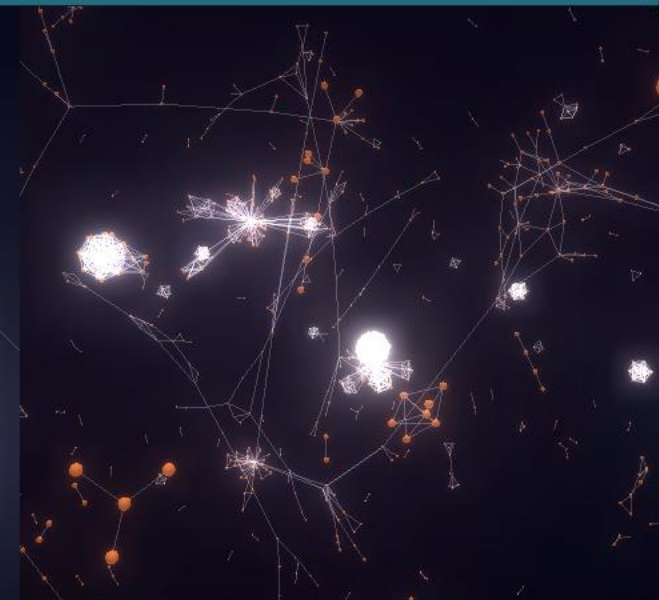
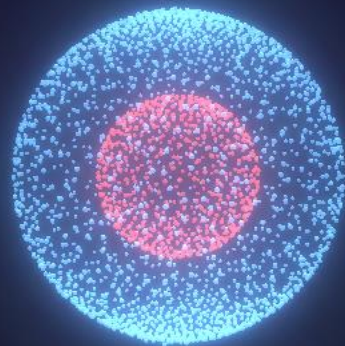
P4



**COORDINATED
RESPONSE**



CR



Cyber Situation Awareness

A Cyber Forecaster Engine and a Cyber Digital Twin covering all the defined cyber risks and vulnerabilities and generating the corresponding event alarms

Physical Situation Awareness

A PSA system integrating all the existing sensors and systems, covering all the defined physical risks and vulnerabilities and generating the corresponding event alarms

Hybrid Situation Awareness

An Hybrid Situation Awareness system modelling the Critical Infrastructures, correlating all the cyber and physical events and generating and visualizing threat alarms

Decision Support System

A Decision Support System providing a holistic dashboard for decision making and integrating all the existing platforms

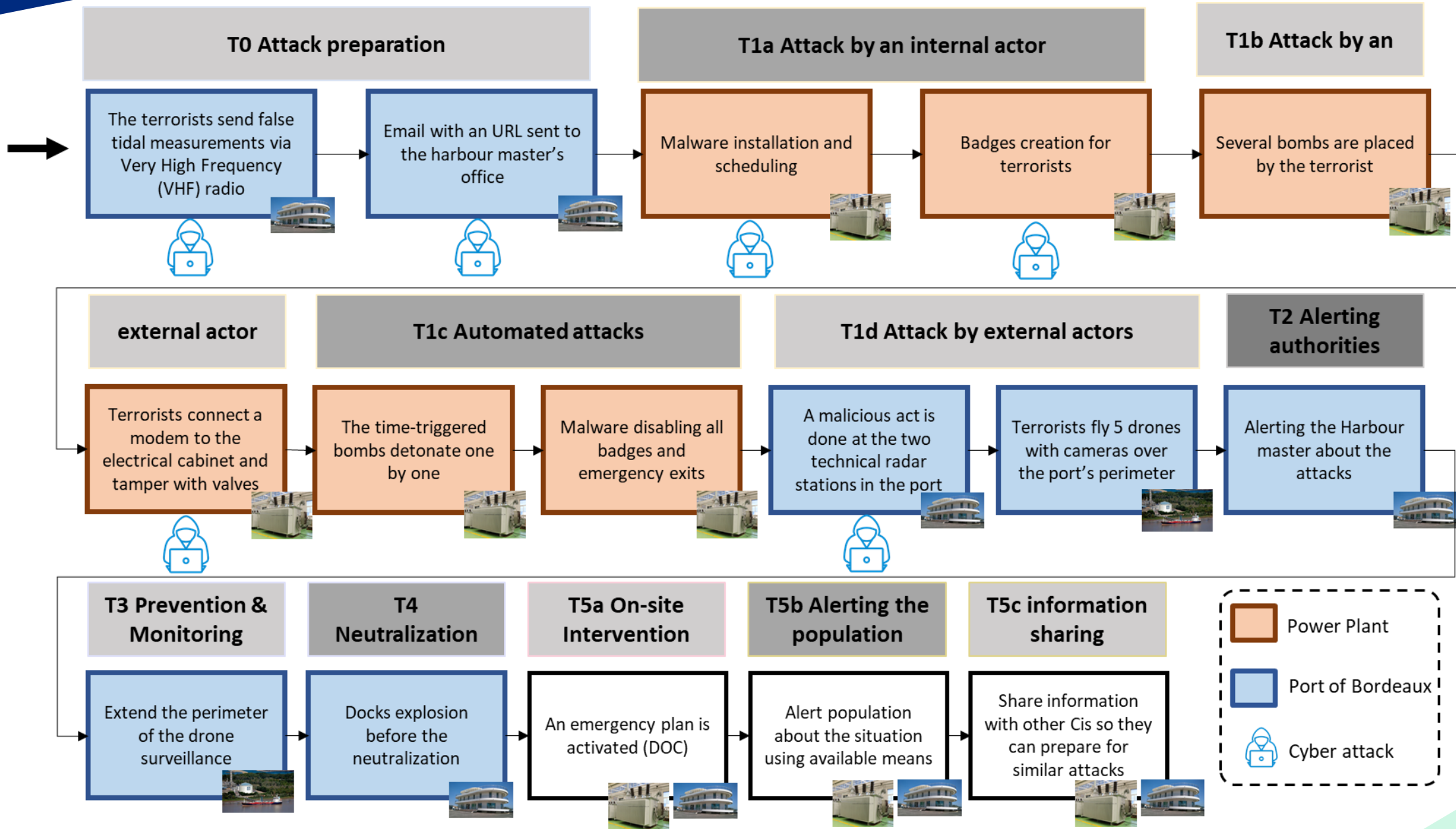
Information sharing with FRs

Techniques for optimal information sharing with FRs and rescue teams

Social Media Security Threat Detection

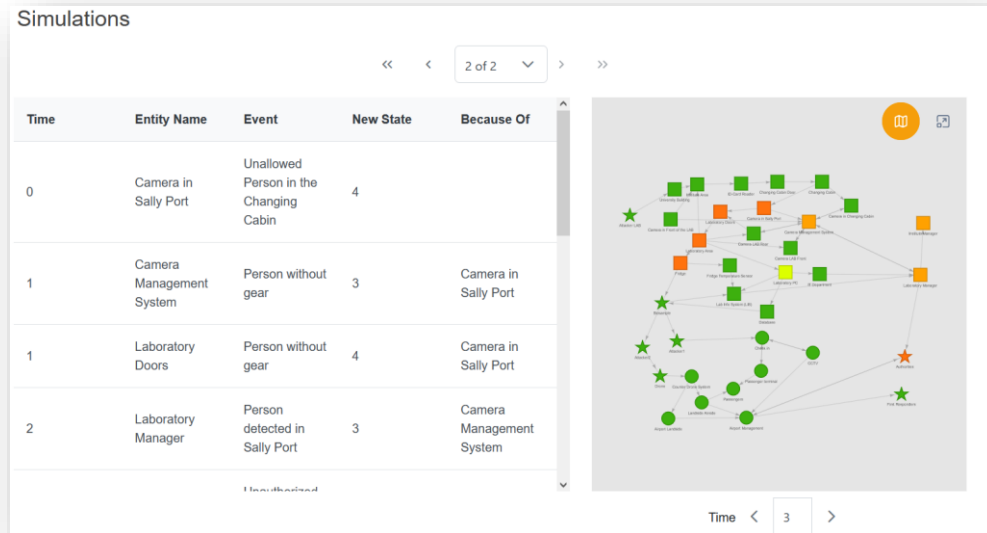
Integration and use of social media for ensuring detecting



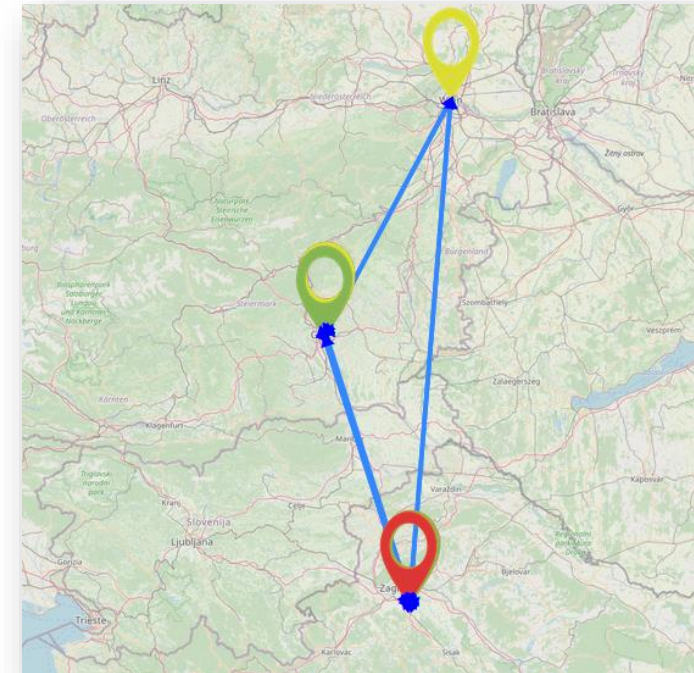


Threat Propagation Engine (TPE) describes direct and indirect consequences over time

Possible cascading effects on the airport due to the attack on the [laboratory](#)



One simulation run



After attack simulation

CER Directive – Critical Entities Resilience & SRI2

<https://www.consilium.europa.eu/fr/press/press-releases/2022/12/08/eu-resilience-council-adopts-a-directive-to-strengthen-the-resilience-of-critical-entities/>

<https://digital-strategy.ec.europa.eu/en/policies/nis2-directive>



RESILIENCE

- ✓ Better preparing
- ✓ Better responding
- ✓ Enhancing international cooperation