



TRAETORIAN



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PRAETORIAN project

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ELECTRUM

currently focuses on electric utilities and mostly targets entities in Ukraine. It is responsible for the disruptive CRASHOVERRIDE event in 2016¹¹. This group is capable of developing malware that can impact electric operations, leveraging known ICS protocols and communications.¹²

Links: [KAMACITE](#), [Sandworm](#)



KAMACITE

participated in multiple critical infrastructure intrusion events, including operations enabling the 2015 and 2016 Ukraine power events, as well as the persistent campaign targeting U.S. Energy companies from late 2019 to mid 2020¹³. Dragos assesses KAMACITE to be the Activity Group associated with developing access for other groups like ELECTRUM, which then follows through with the ICS-focused attack as observed in 2016. KAMACITE should not be seen itself as having ICS-specific capabilities but instead enabling the access for the teams that do, making it an especially concerning threat.¹⁴

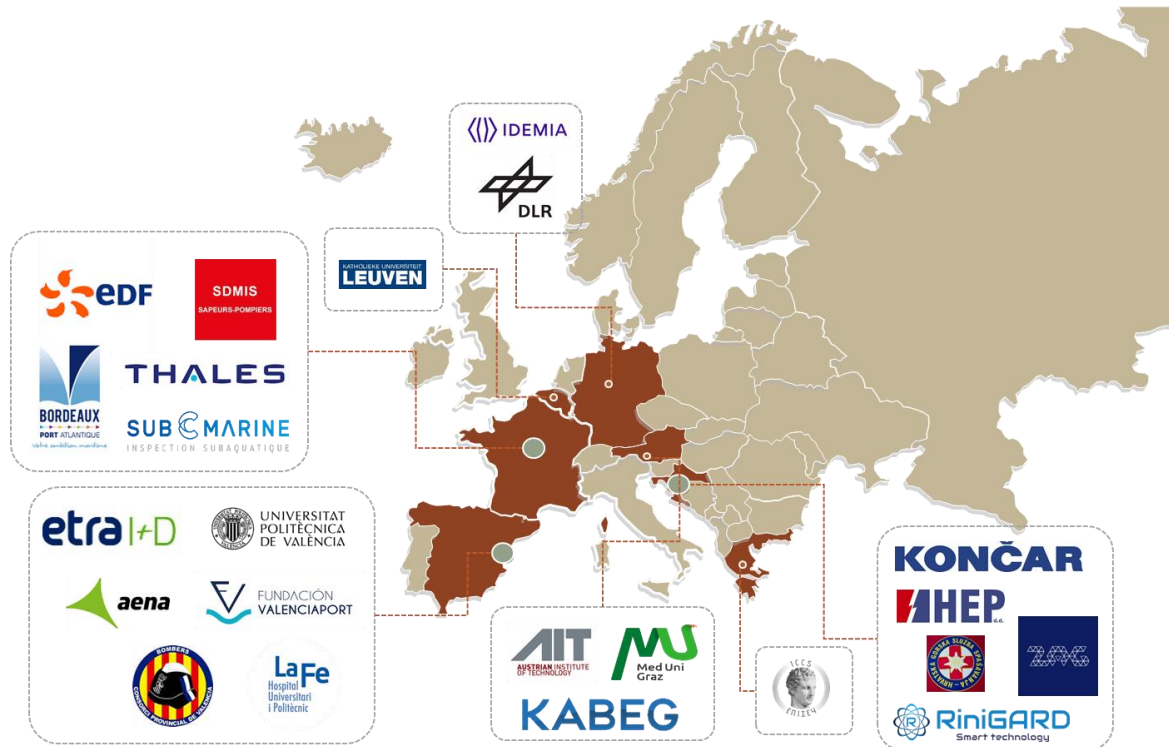
Links: [ELECTRUM](#), [Sandworm](#)¹⁵





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.

PRAETORIAN AT A GLANCE



- 23 partners from 7 EU countries
- 3 pilot sites in 4 EU Member states
- Total budget: 9,04 M€
- Total funding: 7,58 M€
- Start date: 01/06/2021
- End date: 31/05/2023

1. Technological Objectives

- Evaluate the hazards and minimize their level of risk
- Understanding of any physical or cyber threats
- Resilience and response to an attack
- Information on the risks



2. Impact and user-oriented objectives

- Validate in real contexts



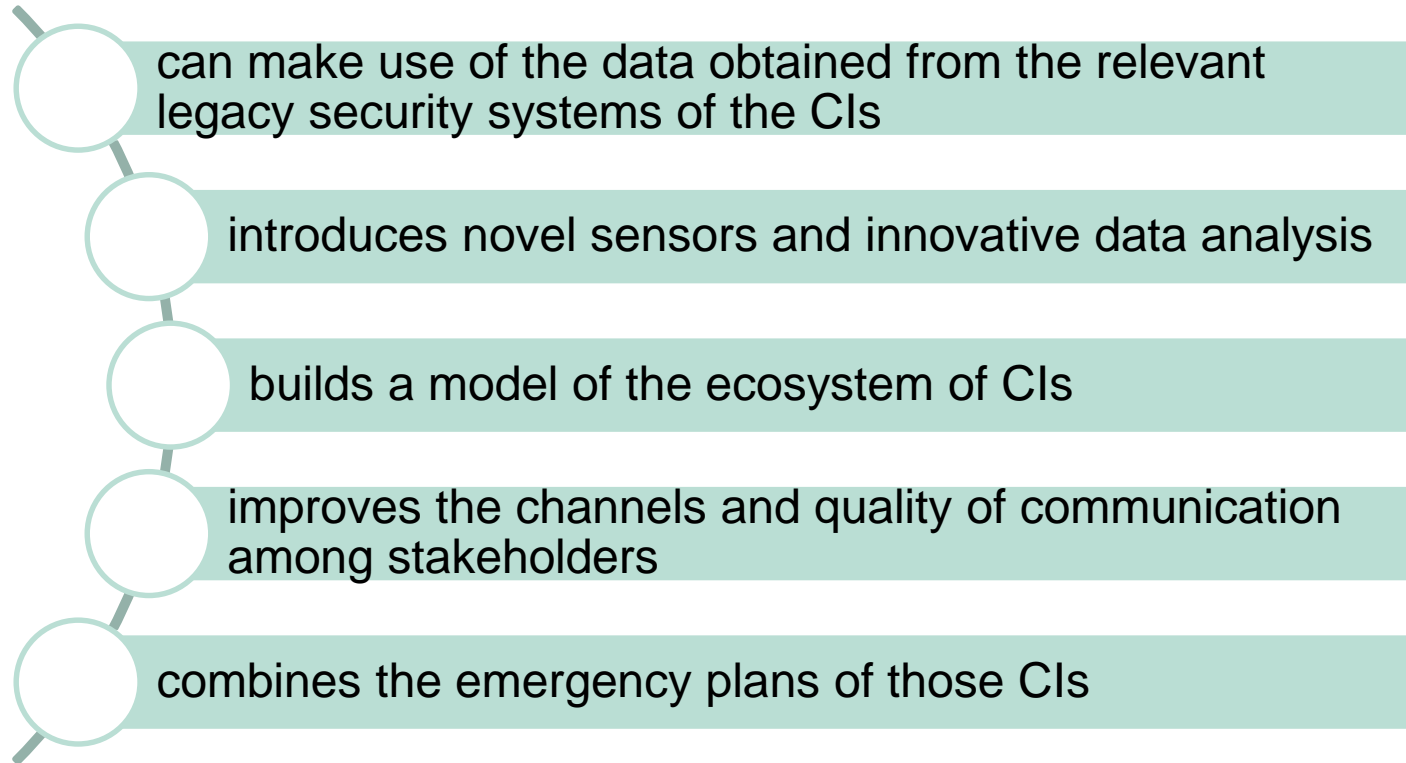
- Legal, ethical, privacy, and societal principles



- Disseminate results - Relevant communities of users



PRAETORIAN proposes a toolset that

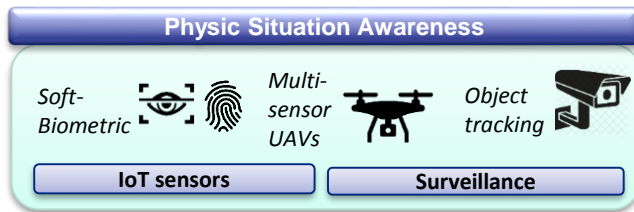


PRAETORIAN will develop **four products** to provide a coordinated and effective action towards security threats and attacks

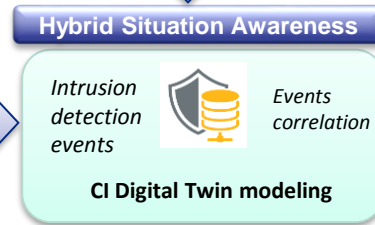
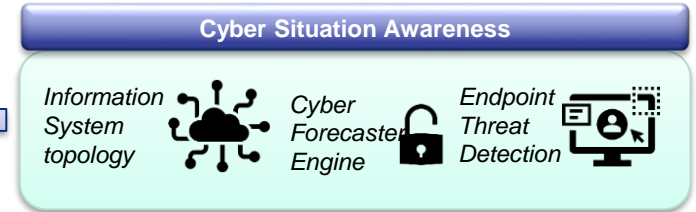
P4 - Coordinated Response system



P2 - Physical Situation Awareness system

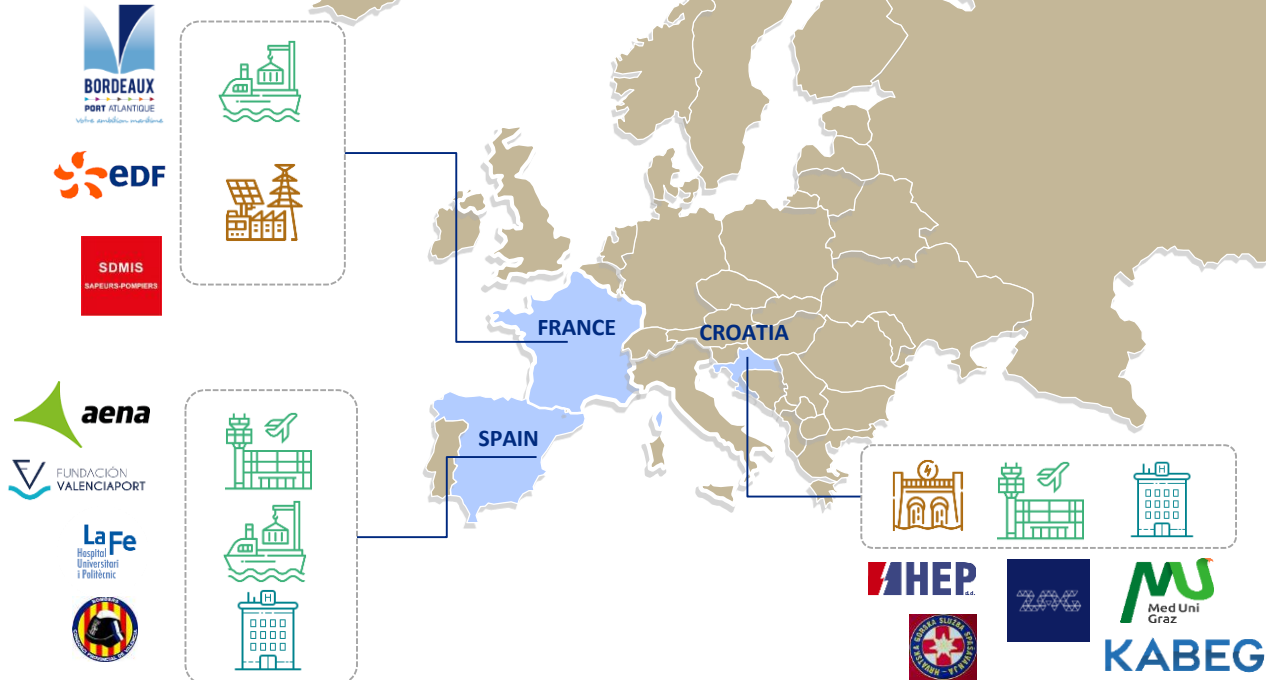


P1 - Cyber Situation Awareness system



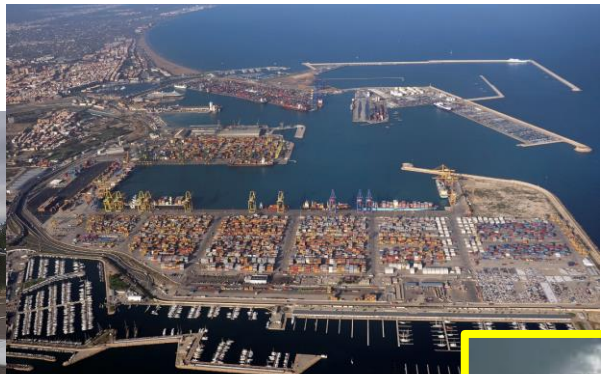
P3 - Hybrid Situation Awareness system

DEMO SITES





DEMO SITES



CI-led project

- Led by a prominent CI European operator, EDF
- CIs capabilities **to influence, develop and take up** the project results that are useful and usable.

Cost-efficiency and effectiveness

- Building on top of **8 previous successful INFRA-CIP** projects: SAURON, SATIE, SECUREGAS, SAFECARE, INFRASTRESS, DEFENDER, RESISTO, STOP-IT

Maximum impact

- involvement of a large set of CI owners and operators from the most attacked sectors guarantee **the transferability** of results

Scalability

- different types of users
- needs of any possible kind of CI.

**360°
Engagement of
EU society**

- project supported by all possible stakeholders and beneficiaries

**Comprehensive
in situ
demonstrations**

- three ambitious yet feasible pilots
- to cover a large variety of possible scenarios



Any questions or comments
Thank you!

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