

CRIMSON

Smart operation management

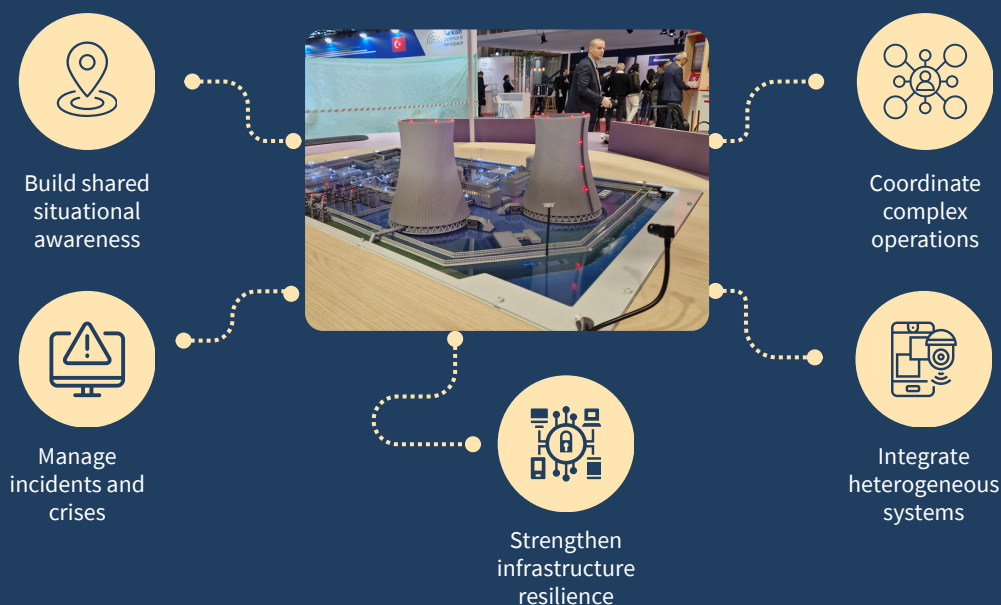
Smart Operation Management for Critical Infrastructure and Crisis Response

CRIMSON is a smart operations management solution designed and developed in Europe using sovereign technologies. It supports collaborative command and control across defence, security, civil protection and critical infrastructure environments, enabling organisations to manage a wide range of day-to-day operations, including surveys and maintenance activities, through to incident response and crisis management.

As a multi-domain, data-centric C2/C4ISR platform, CRIMSON brings together digital twins, simulation, extended reality, artificial intelligence, sensors, effectors, drones, video management systems, and third-party command tools into a shared operational picture. This helps operators, decision-makers, and stakeholders coordinate more effectively and respond faster to evolving threats and incidents.

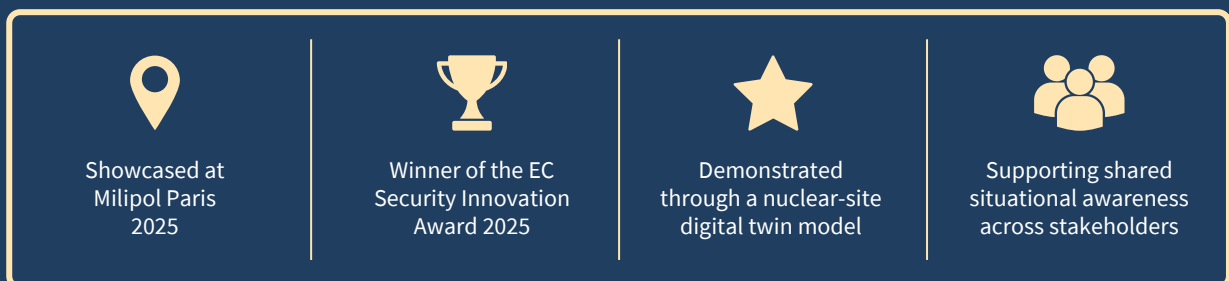
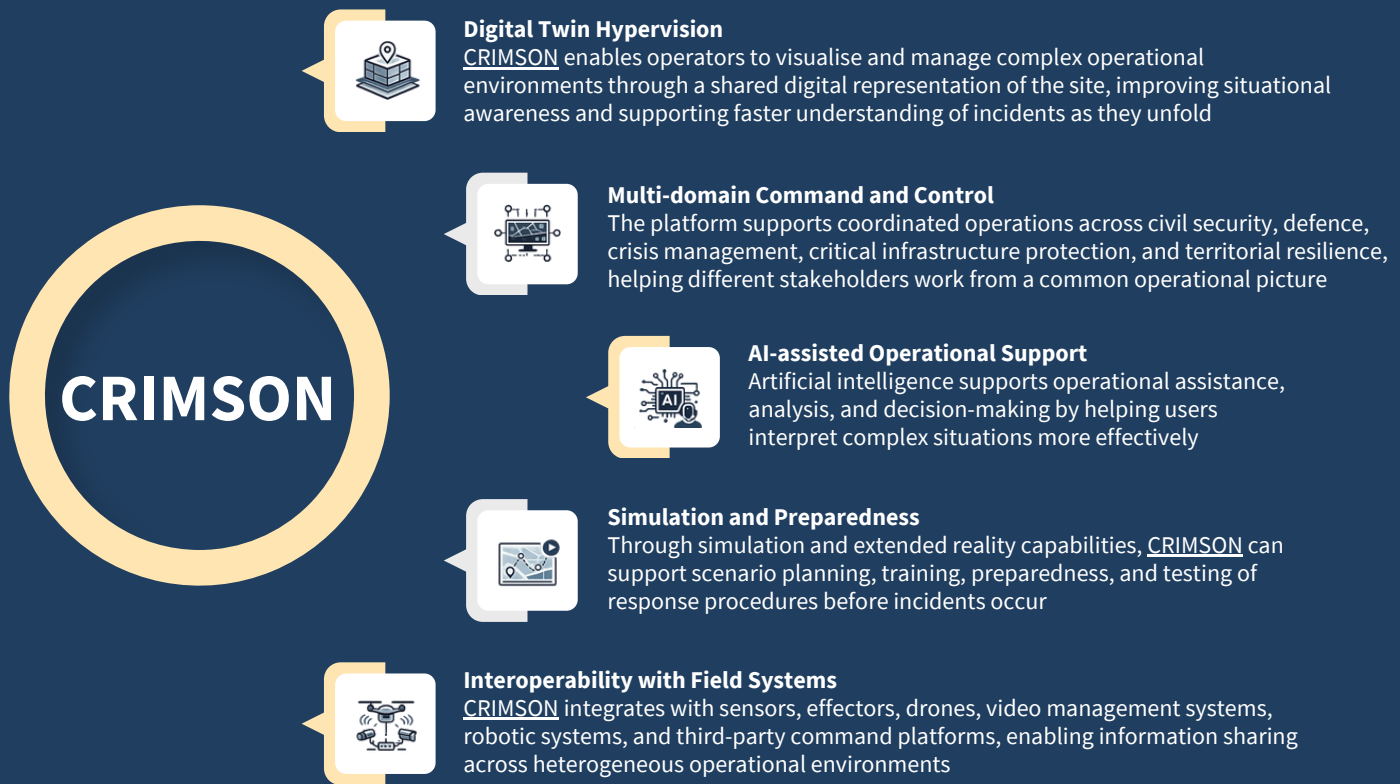
What Challenge does CRIMSON address?

Critical infrastructure sites, public spaces, industrial environments, and security operations are increasingly complex. Operators must monitor large volumes of data, coordinate multiple teams, integrate different systems, and respond rapidly to incidents that may affect public safety, national resilience, or essential services. CRIMSON addresses this challenge by providing comprehensive, intelligible situational awareness, intelligent operational assistance, and intuitive interaction between all stakeholders and third-party systems, such as sensors, effectors, VMS, CMS, C2, and drones, in multi-organisational and multi-level operations. By giving operators a shared, real-time view of the situation, the platform supports coordinated decision-making across multiple organisations and operational levels. The solution helps users to:



Innovative Aspects of the Solution

CRIMSON stands out through its combination of sovereign European technology, digital twin capabilities, and collaborative command-and-control functionality.



Real-World Impact

CRIMSON is already used across civil and defence domains. One example is its selection by a leading European energy provider to support the protection and resilience of critical infrastructure. In this context, CRIMSON enables security teams to oversee daily operations, manage incidents, and coordinate responses to major events through a shared, real-time operational view.

This demonstrates CRIMSON's relevance for sensitive industrial environments where operators must integrate heterogeneous systems, maintain situational awareness, and coordinate multiple stakeholders under time pressure.



How ENACT Funding supported CRIMSON

Through ENACT funding, CS GROUP attended Milipol Paris 2025, held from 18 to 21 November 2025, where the team showcased CRIMSON on the Sopra Steria booth. For the exhibition, CS GROUP developed a physical 3D miniaturised model of a nuclear site equipped with mini sensors and effectors. This model demonstrated how CRIMSON's multi-domain hypervision and command-and-control capabilities can support the management of a plant through digital twin functionality.

The funding also supported communication and dissemination activities around the solution, including social media promotion before and during the event. This helped raise CRIMSON's visibility among homeland security, critical infrastructure, defence, and safety stakeholders, and provided a stronger platform for presenting the solution's operational value.



Future Developments

CRIMSON will continue to evolve as a smart operations management platform for critical infrastructure protection, crisis response and multi-domain command and control. Future developments may further strengthen digital twin capabilities, AI-assisted operational support, the orchestration of uncrewed vehicles (UxV) and manned-unmanned teaming (MUM-T) operations, interoperability with field systems, and applications for infrastructure and territorial resilience.

Through these developments, CRIMSON aims to support more effective coordination, faster decision-making, and stronger resilience across complex security and crisis-management environments.



Further Information



crimson.eu



[@cs-defense-and-security](https://www.linkedin.com/company/cs-defense-and-security)



contact@crimson.eu



**Funded by
the European Union**

Through the Cooperation Pillar, ENACT is supporting 12 innovative projects with additional funding to enhance their communication, dissemination and exploitation activities.