



Critical Asset Surveillance & Protection

WSense's wireless underwater networks deliver a new level of security and resilience to critical subsea infrastructure. Unlike complex, vulnerable cabled systems, WSense provides real-time situational awareness without physical connections. By delivering early warning and fast response capabilities, we protect assets—including cables, pipelines, terminals, and platforms—from sabotage and hybrid threats. Furthermore, WSense enables autonomous underwater operations via AI-driven coordination of AUV fleets and sensor networks for threat detection, classification, and predictive analytics.

Functionality Overview

SeaFencing

Uses AI-driven analytics to detect and classify potential threats near critical subsea infrastructures.

AUV Swarming

AI-driven swarm coordination for autonomous underwater surveillance and sabotage intervention.

Early Warning Integrated Subsea-Surface

Coordinates Autonomous Underwater and surface Vehicles and satellite data for alerting hybrid threats.

Intrusion Detection & Classification

Uses AI-driven analytics to detect and classify potential threats near critical subsea infrastructures.

Underwater Gateway

Integration of a subsea gateway into cable system providing continuous monitoring and alerting.

Benefits of IoUT for Critical Asset Surveillance & Protection



Provides early warning of potential threats or operational anomalies, enhancing security and situational awareness.



Facilitates early detection of sabotage, damage, or suspicious activities.



Enhances situational awareness and accelerates crisis response to detected potential threats.



Supports autonomous operations for rapid threat mitigation and infrastructure protection.

WSense's IoUT in action

WSense and Fincantieri are working together to redefine the future of underwater connectivity and security. This collaboration combines WSense's expertise in wireless underwater communication and IoUT (Internet of Underwater Things) with Fincantieri's leadership in shipbuilding and maritime engineering.

Together, we are developing advanced solutions for real-time monitoring, early warning systems, and secure data transmission across critical underwater infrastructures. These technologies support defense, energy, and maritime operations, ensuring resilience and situational awareness in increasingly complex environments.

Read more on wsense.it or get in touch at wsense@wsense.it