

PARTNERS:



THALES
Building a future we can all trust



PROJECT TIMELINE:

Starting Date: 1 December 2023

End Date: 30 November 2026

PROJECT NUMBER:

101121447



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COVERT AND ADVANCED MULTI-MODAL
SENSOR SYSTEMS FOR TARGET
ACQUISITION AND RECONNAISSANCE



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AIM OF CASSATA:

Foster and enable the digital transformation of the EU defense capabilities by identifying systems, solutions, and integrated concepts that can provide a strategic advantage in defense utilizing Covert Sensing Technologies (CST).

KEY OBJECTIVES:

CASSATA introduces advanced and disruptive covert sensing technologies that:

- Increase detection and tracking performance, accuracy, and reliability
- Exploit advanced data processing, analytics and edge computing techniques
- Adopt modular & scalable architectures for interoperable integration of heterogeneous data
- Utilize multi-modal data fusion, AI and multi-sensor and multispectral techniques

APPROACH:

- Identify new and disruptive capability opportunities for strategic advantage in defense and evaluate covert sensing technologies
- Develop studies and designs in order to demonstrate innovative covert sensing functionalities
- Demonstrate and evaluate covert sensing technologies in simulation and laboratory environment

CASSATA solutions cover (4) different Technology Areas (TAs) offering multifaceted innovations to address the challenges of covert sensing across air, maritime, and land operations.

1. Optronics for covert sensing
2. Acoustics/Seismic sensing
3. RF and RADAR systems for covert sensing
4. Adaptive and collaborative sensing, data processing, fusion, AI, and sensor management

EXPECTED IMPACTS:

- Produce New knowledge in the field of covert sensors, sensor systems and their interplay, thereby strengthening the European technological and industrial base.

Strengthen future EU critical land, air, maritime, and ISTAR capabilities in highly dynamic scenarios, especially regarding challenging targets, increasing situational awareness, early warning, decision making and action-planning capabilities.

- Increase survivability of units/platforms and reduced vulnerabilities of defense assets.
- Increase of interoperability and efficient use of sensor systems thereby facilitating joint operations of the EU Member States and Norway.

