CASSATA
Covert and Advanced Multi-modal Sensor Systems for Target Acquisition and Reconnaissance

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CASSATA's Global Demonstration in Madrid

CASSATA (Covert and Advanced Multi-modal Sensor Systems for Target Acquisition and Reconnaissance) project funded from the European Defence Fund (EDF), will present its collaborative sensing technologies at the Global Demonstration Meeting on 12 November 2026, hosted by Indra Sistemas at its facilities in Alcobendas, Madrid. The project develops and tests covert sensing technologies for defence, covering optronics, acoustic and seismic sensing as well as radio-frequency and radar systems.

DATE	HOST	VENUE	DOMAIN
12 November 2026	**Indra Sistemas**	**Alcobendas, Madrid**	**Collaborative Sensors**

The event will showcase demonstration activities in the technical domain of Collaborative Sensors, highlighting key capabilities within a laboratory environment. These live demonstrations are structured around specific use case scenarios and predefined validation criteria to prove the Covert Sensing capabilities developed under Cassata project.

The core objective is to validate the requirements of the system through a suite of micro scenarios strategically mapped to Key Technologies across CASSATA's four technical areas: optronics for covert sensing, acoustic and seismic sensing, RF and radar systems for covert sensing, and adaptive and collaborative sensing, data processing, fusion, AI and sensor management.

Technical areas

1	Optronics for covert sensing
2	Acoustic and seismic sensing
3	RF and radar systems for covert sensing
4	Adaptive and collaborative sensing, data processing, fusion, AI and sensor management

These technologies support the coordination of heterogeneous sensors and the effective combination of their data. Each demonstration is linked to its parent scenario, providing a detailed breakdown of objectives, operational flows, and constraints while serving as a validation vehicle for the involved key technologies. A primary focus is to evaluate and document the maturity evolution of these technologies as they progress through increasingly complex simulated environments.

The event will highlight essential capabilities such as **adaptive and collaborative sensing, advanced data processing, and sensor data fusion.** Furthermore, the meeting will demonstrate **cutting edge Artificial Intelligence solutions, specifically leveraging Reinforcement Learning to optimize system responsiveness and overall operational performance.**

Attendees will observe a dedicated session where each scenario of the global demonstration is presented in detail. The scenarios will be thoroughly explained and simulated within the Simulation Environment, which integrates advanced software modules with physical deployment configurations to ensure high fidelity representation of the operational environment. Furthermore, these simulations will allow the audience to observe and verify the results obtained against established Success Criteria, KPIs, and TRL metrics.

Following the live demonstrations, and as part of the official project deliverables, a comprehensive report will be elaborated. This report will detail all obtained results alongside the key findings and conclusions derived from each individual demonstration scenario.

> ***"This global demonstration represents a major milestone for CASSATA, showcasing the maturity and real-world potential of our Collaborative Sensors and Covert Sensing capabilities. By validating these key technologies within an advanced simulation environment"***
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> ■ **Sixto Donalonso Fraile, CASSATA TA4 Leader and Technical Manager at INDRA**

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