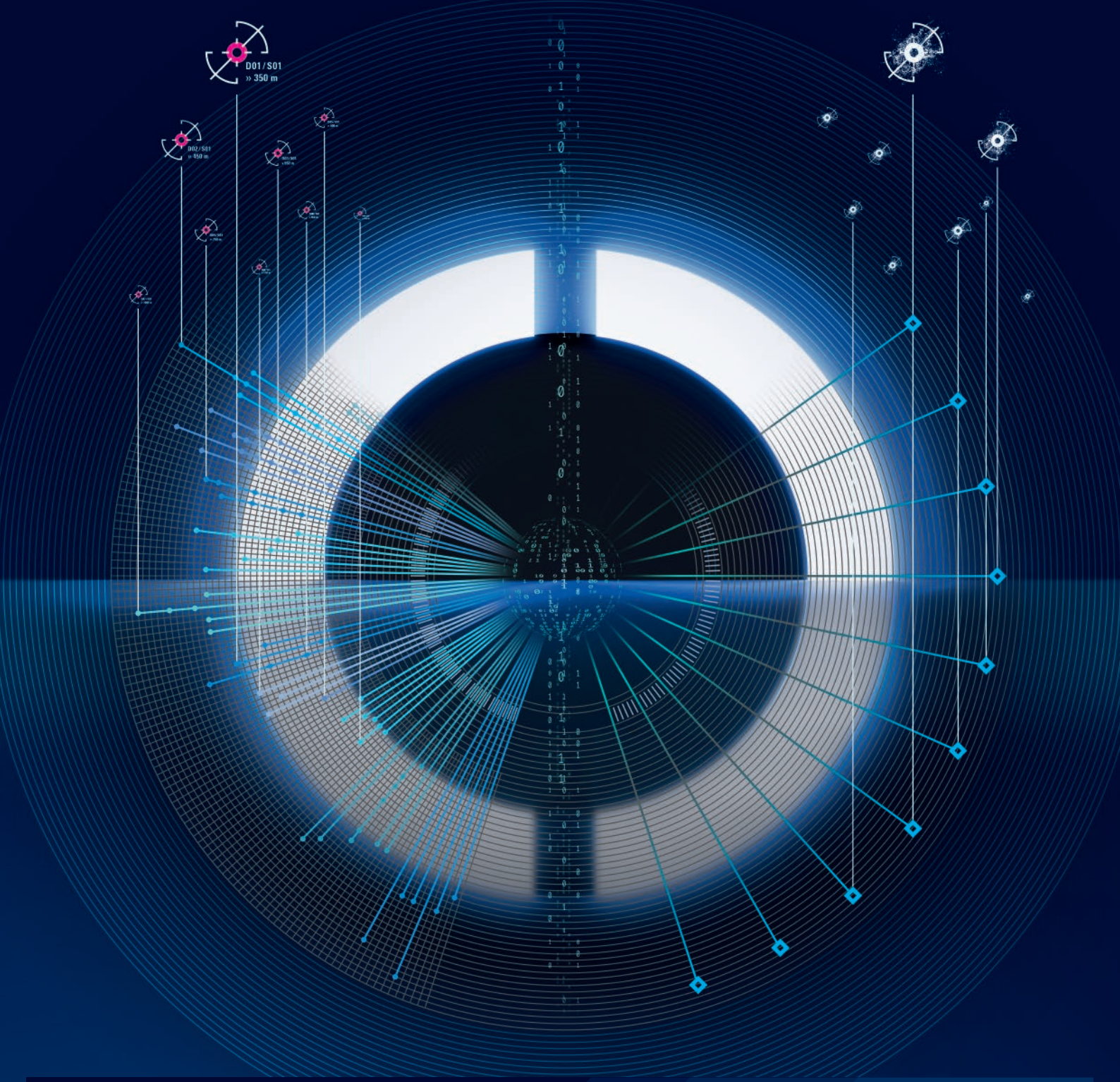


THORIS

From spectrum awareness to multi-layered counter-UAS

ROHDE&SCHWARZ

Make ideas real

THORIS

TRANSFORMING THE FUTURE OF DRONE DEFENSE

THE DRONE THREAT IS EVOLVING – FAST

Unmanned aerial systems are changing the security landscape. Driven by geopolitical tensions and rapid technological progress, drones are becoming more capable, widely available and dramatically less expensive. Capabilities that were once limited to state actors are now accessible to a much broader range of users.

At the same time, the nature of conflict is shifting. The battlefield is under constant aerial surveillance, and the time between detection and attack can be extremely short. Hybrid warfare brings these risks beyond military operations and into the homeland. **Military bases, government facilities, airports and critical infrastructure** are increasingly exposed to the threat posed by small, agile and inexpensive drones.

Modern drones also operate in many different ways. While traditional radio-controlled links remain common, today's platforms may follow pre-programmed flight paths, communicate via cellular networks or satellite links, or operate autonomously. This diversity makes **single-sensor counter-drone solutions insufficient.**

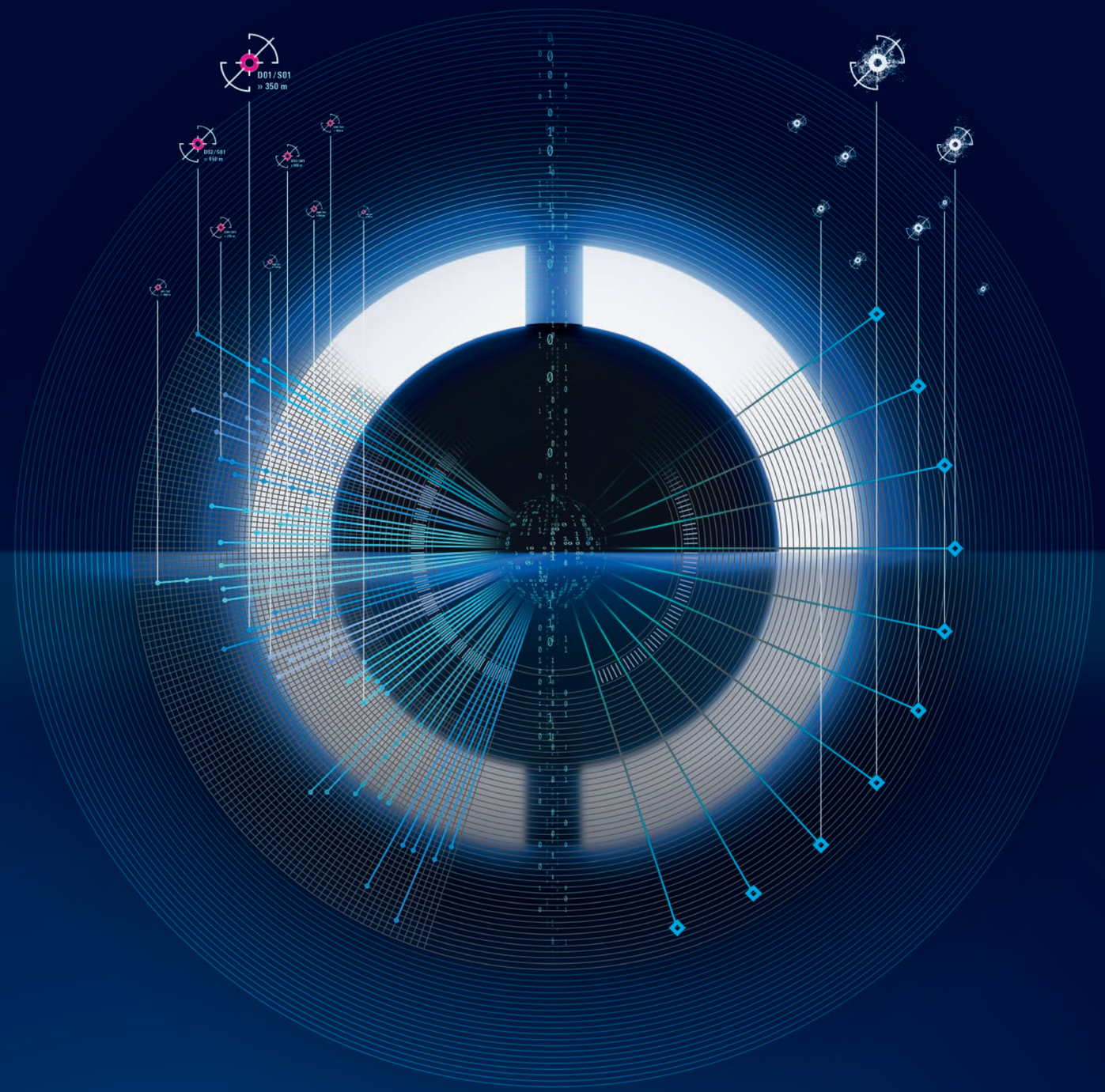
What is required is a multi-layered capability that combines multiple sensors, integrates data into one operational picture, and enables coordinated response. **THORIS provides exactly this capability.**

THE THORIS ARCHITECTURE FOLLOWS A CLEAR OPERATIONAL CHAIN:

DETECT
layered sensors identify and track aerial activity

DECIDE
integrated C2 fuses data into a unified air picture

RESPOND
appropriate mitigation measures are applied where permitted



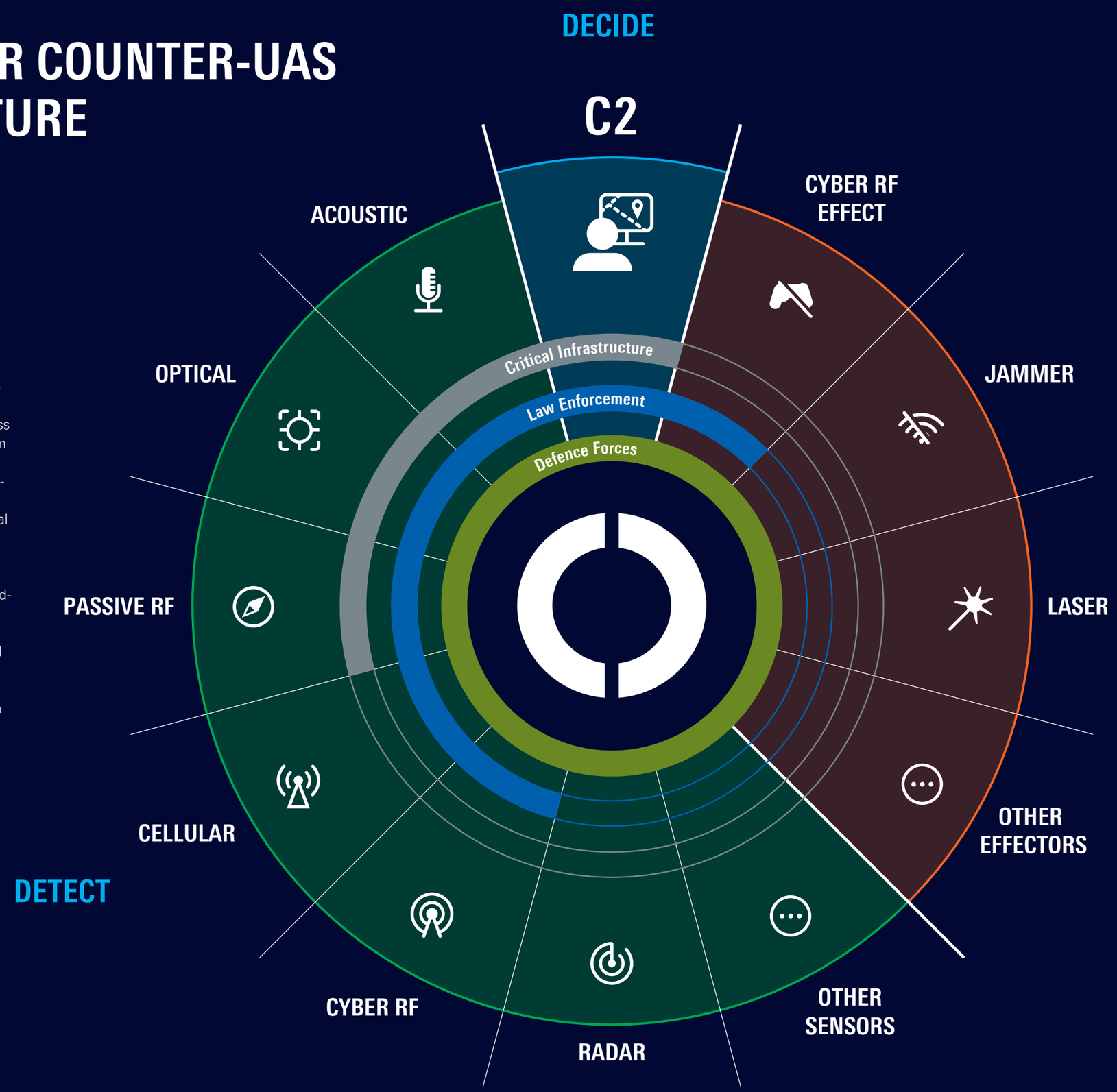
THORIS
(Tactical High-Energy Opponent Response & Interception System):
a modular, multi-layered CUAS architecture combining Rohde & Schwarz sensing and EW expertise with integrated C2 for scalable mobile and fixed-site protection against UAS.

THORIS

A MODULAR COUNTER-UAS ARCHITECTURE

THORIS provides a **scalable counter-UAS framework** that combines Rohde & Schwarz expertise in spectrum operations with best-in-class sensor and effector technologies from trusted partners. Built on an **open architecture,** THORIS enables adaptable, multi-layer solutions tailored to evolving drone threats and operational requirements.

At its core, the framework integrates multiple sensing technologies – including passive RF detection, radar and EO/IR sensors – and fuses their data within a single command-and-control (C2) environment. The result is a coherent air picture that supports faster detection, reliable identification and coordinated threat evaluation and mitigation.



FROM MULTIPLE SENSORS TO ONE OPERATIONAL PICTURE.

The THORIS architecture follows a clear operational chain:

- **Detect**
  layered sensors identify and track aerial activity
- **Decide**
  integrated C2 fuses data into a unified air picture
- **Respond**
  appropriate mitigation measures are applied where permitted

Through this integrated workflow, operators gain improved situational awareness and can react faster and more reliably to emerging drone threats.

FROM SPECTRUM AWARENESS TO MULTI-LAYERED COUNTER-UAS

DESIGNED FOR A COMPLEX THREAT ENVIRONMENT

THORIS is built to adapt to evolving threats and operational requirements.

The architecture is **sensor and effector agnostic,** allowing additional technologies to be integrated as missions evolve. Detection layers can be complemented with response capabilities such as cyber-RF effects, jamming or laser-based threat mitigation measures.

Thanks to **open interfaces and interoperability standards,** THORIS can integrate partner subsystems and connect seamlessly to higher-level air-defense or security networks.

This open architecture **allows organizations to start with a focused capability and expand towards a full counter-UAS setup over time.**

A FOUNDATION FOR FUTURE COUNTER-UAS OPERATIONS

By combining layered counter measures and sensing, integrated command and control (C2) and an open architecture, THORIS creates a scalable foundation for counter-UAS operations.

It enables organizations across defense, security and critical infrastructure sectors to maintain situational awareness, respond effectively to drone incidents and continuously evolve their capabilities as threats develop.

ONE ARCHITECTURE – THREE OPERATIONAL SECTORS

Drone threats affect a wide range of operators, but their legal authority and operational requirements differ significantly.

Critical-infrastructure operators require early warning and reliable situational awareness to protect sensitive sites such as airports, energy facilities or government buildings.

Law-enforcement and security organizations often need rapid deployment and the ability to intervene selectively while operating under strict regulatory frameworks.

Defense forces require the most comprehensive capability: multi-sensor detection, coordinated tracking and layered response options to counter multiple threats in dynamic operational environments.

THORIS adapts to all three scenarios. Its modular architecture enables configurations ranging from detection-focused systems to fully integrated counter-UAS deployments with layered mitigation capabilities.

Critical infrastructure

Defense forces

Law enforcement

One architecture – three operational sectors: critical-infrastructure operators, law-enforcement and security organizations, defense forces

DETECTION.
DECISION.
RESPONSE.

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