

Drone Dome



A scalable, AI-powered ecosystem for integrated airspace awareness and response.

The Challenge

Low-altitude airspace is becoming increasingly congested and contested, driven by the rapid rise of drones, hybrid threats and disruptions affecting both security and critical infrastructure.

Existing approaches remain fragmented across domains and institutions, largely reactive and unable to support timely, coordinated decision-making. As a result, a growing gap persists between detection and effective response.

The Concept

Drone Dome introduces an integrated ecosystem rather than a standalone system. It connects sensing, analysis and response into a unified operational layer that enables continuous situational awareness across domains.

Built on a modular and open architecture, it brings together existing and emerging technologies into a scalable framework designed to support real-time coordination.

Core Principles

AI-powered decision loop acceleration

At its core, Drone Dome applies self-learning AI to continuously improve detection, analysis and response, accelerating decision-making and increasing effectiveness over time.

Modular & open architecture

The system is designed as a flexible and vendor-agnostic ecosystem that can adapt to different environments, operational needs and evolving threat landscapes.

Dual-use by design

The same framework supports both defence and civilian applications, enabling consistent use across security, border management, infrastructure protection and public safety.



Engage with the concept

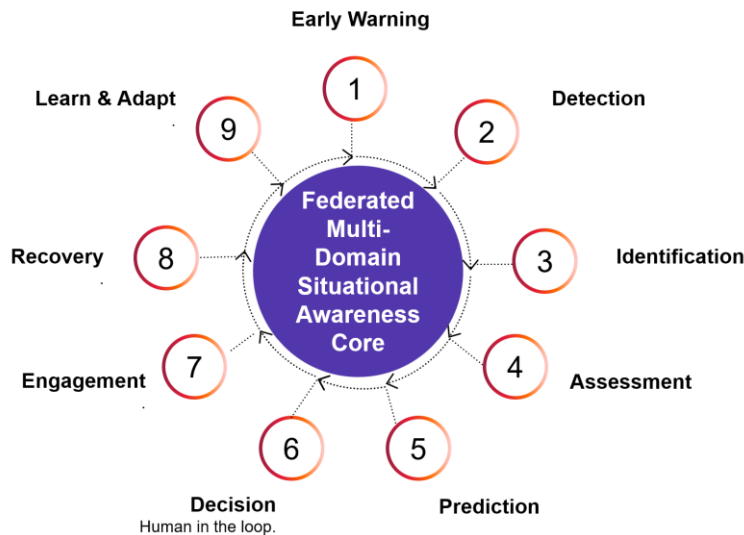
Drone Dome introduces a scalable approach to airspace awareness and response, opening opportunities for collaboration, experimentation and the development of new use cases.

- **AI-powered decision loop acceleration**
- **Modular & open architecture**
- **Dual-use by design for defence and civilian applications**

How it works

Drone Dome integrates sensing, data fusion and response capabilities into a continuous loop of detection, analysis, prioritization, decision and action.

Through continuous learning and adaptation, the system improves performance over time while maintaining consistent operational logic.



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Why It Matters

By moving from fragmented tools to a connected ecosystem, Drone Dome enables faster and more informed decisions, supports scalable deployment across different environments and strengthens resilience against evolving threats, while making better use of existing capabilities.

Ecosystem Approach

Drone Dome is built as a collaborative framework that brings together technology providers, public sector stakeholders and infrastructure operators into a shared operational environment.

Get in touch for an introductory session and brainstorm around your challenges:

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