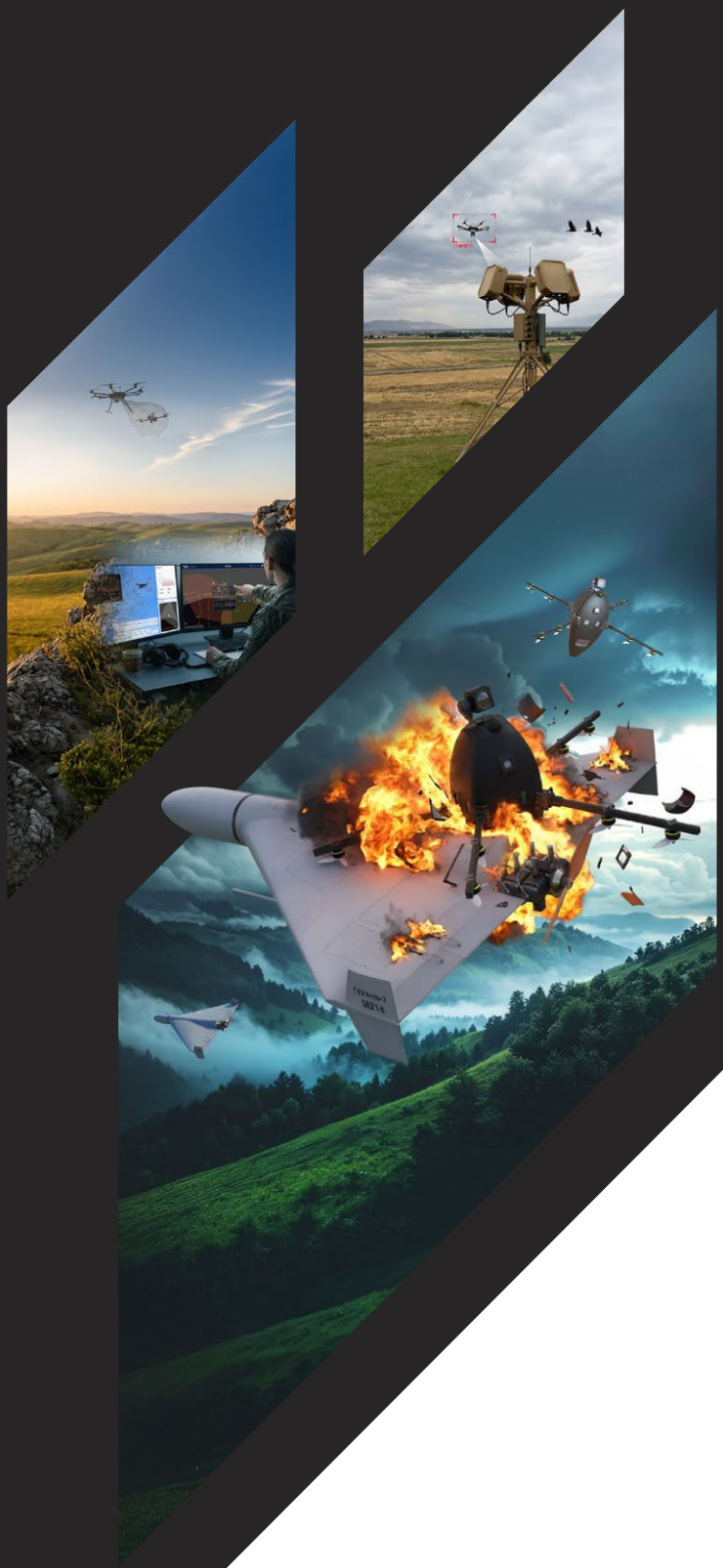
DroneWeaver System (DWS)

C-UAS SOLUTION



TSG
EXPANDING YOUR ADVANTAGE

FAST, FLEXIBLE, END-TO-END COUNTER-UAS DEFENSE

DroneWeaver System is TSG's automated Counter-UAS solution, designed to help forces detect, understand, prioritize, and respond to drone threats in seconds.

Built with an open, sensor and effector-agnostic architecture, DroneWeaver System can integrate with existing and future systems, allowing each deployment to be tailored to the mission, environment, budget, and operational need.

The Low-Altitude Challenge

Drone threats are becoming faster, cheaper, and harder to defeat. FPV drones, swarms, loitering munitions, and autonomous systems can appear with little warning, fly low, avoid detection, and overwhelm operators with multiple tracks and alerts.

The Solution

DroneWeaver System connects sensors, command & control, and effectors into one automated Counter-UAS platform. It fuses data from multiple sources into a single air picture, classifies threats, prioritizes risks, and recommends the most suitable response in real time.

Any Effector
Matches the right effector to the right threat, reducing unnecessary use of expensive interceptors and supporting scalable protection.

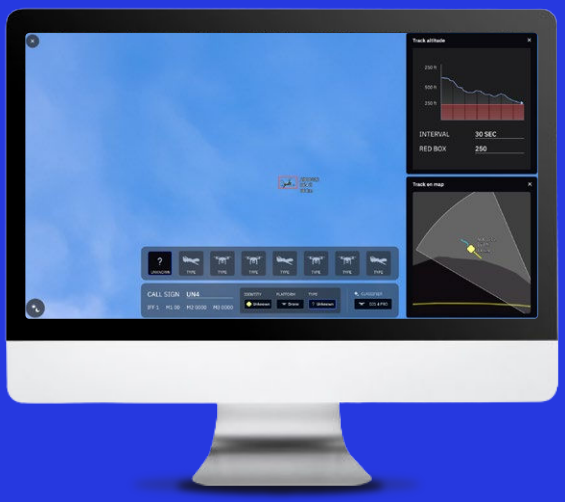
Any Sensor
Integrates with different sensor types, including radar, RF, EO/IR, ADS-B, and additional detection sources.

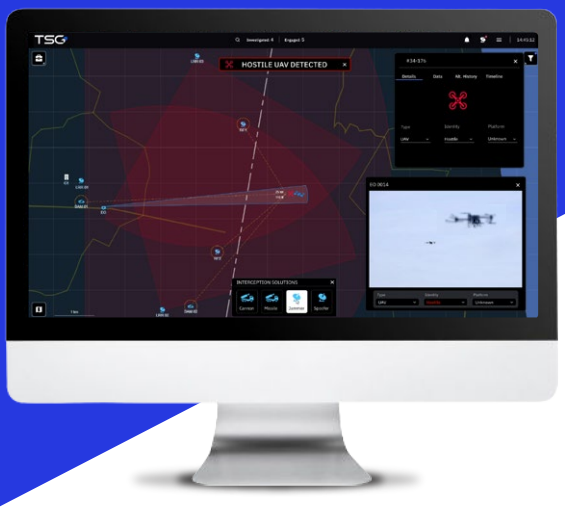
Multi-Deployment
Built for fixed sites, FOBs, critical infrastructure, mobile forces, convoys, and tactical missions.

AI-Driven Autonomy
Up to 90% autonomous operation with AI-based response recommendation.

The Components

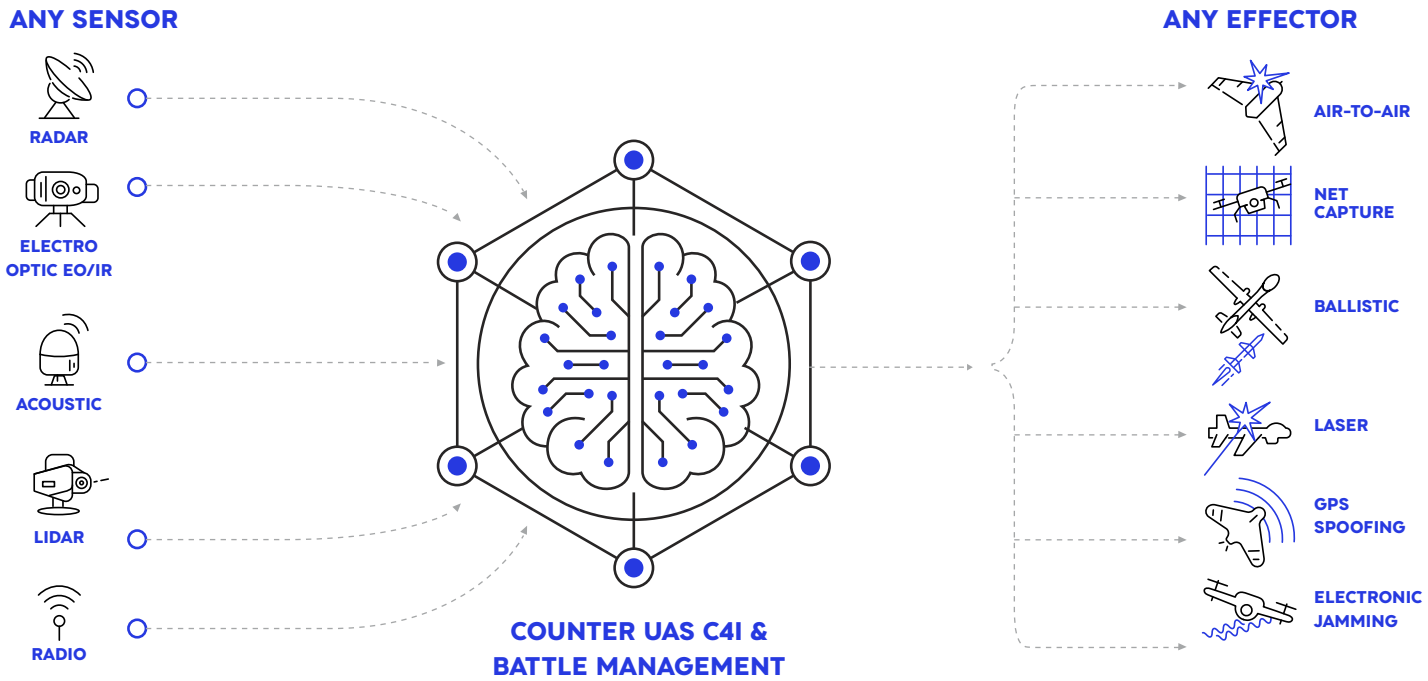
- **Sensor-Agnostic Fusion**
  Combines inputs from radar, RF, EO/IR, ADS-B, and other sensors into one continuous air picture. The system removes duplicate detections, correlates tracks, and gives operators one reliable view instead of fragmented alerts.
- **Threat Assessment and Alerts**
  Evaluates whether each object is real, relevant, and dangerous. DroneWeaver analyzes confidence, identity, object type, behavior, trajectory, and predicted impact to alert operators to genuine threats.
- **Risk Prioritization**
  Ranks threats by urgency and potential impact, including proximity to protected assets, speed, trajectory, behavior, payload likelihood, and mission rules.
- **Actionable Intelligence**
  Turns complex data into clear operational recommendations, including target profile, predicted behavior, and suggested response options.
- **Battle Management**
  Supports weapon-target pairing, engagement authorization, and coordination of effector. DroneWeaver System supports soft-kill and hard-kill responses, including electronic jamming, spoofing, net capture, lasers, ballistic systems, and air-to-air interceptors.





DroneWeaver UI

ARCHITECTURE



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EXPANDING YOUR ADVANTAGE
tsg@tsgitsystems.com
www.tsgitsystems.com