

SAMI-AEC **HEMA** Surveillance System

Integrated Surveillance. Faster Response.
Stronger Protection.





SAMI-AEC HEMA Surveillance System is an integrated command and control solution designed to support wide-area surveillance, early warning, threat detection, and coordinated response.

Built for Critical Surveillance Operations

HEMA supports security and monitoring missions across civilian, defense, environmental, and infrastructure domains. It helps authorities improve visibility, strengthen field coordination, and respond faster to incidents across large or difficult terrain.

Key Use Cases



National Security

Border surveillance, military base protection, and intrusion detection.



Critical Infrastructure

Pipeline monitoring, highway inspection, and protection against vandalism or defects.



Environmental Protection

Monitoring reserves, reducing illegal hunting, overgrazing, lumbering, and waste dumping.

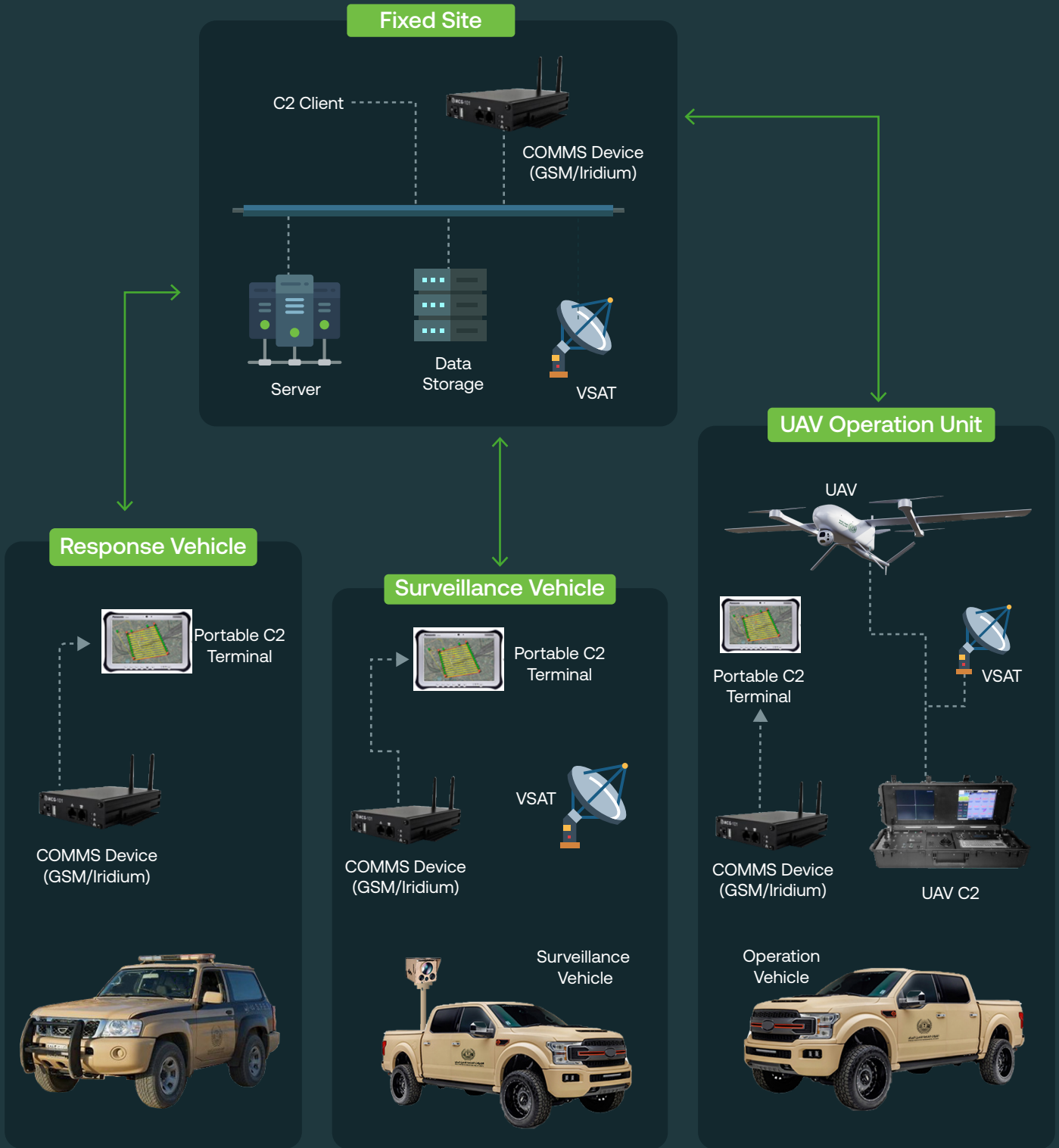


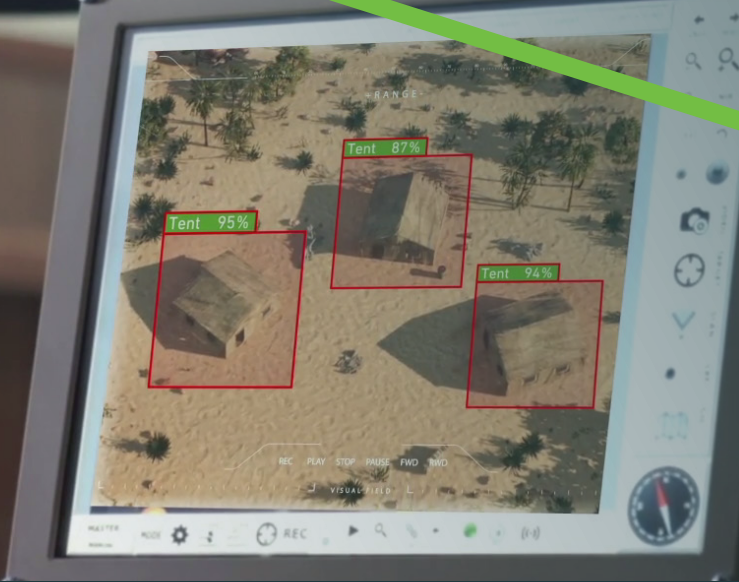
Public Safety & Events

Crowd monitoring, traffic observation, and response to abnormal activities.

Solution Architecture

HEMA provides a connected operational environment where field data, live locations, threat reports, coordinates, images, and mission updates are shared between commanders and response teams.





Major System Components



C2 Platform

A centralized command and control application that enables live asset tracking, incident reporting, threat evaluation, task assignment, mission coordination, and operational reporting.



Ground Surveillance Vehicle

A mobile surveillance platform equipped with EO/IR systems to support land-based monitoring, target detection, and event reporting.



VTOL UAV

A runway-independent aerial surveillance platform designed for wide-area monitoring, target detection, and real-time intelligence sharing.



Portable C2 Terminal

A rugged field device that enables response teams to receive missions, view target locations, send updates, and communicate with commanders.



Communication Unit

A resilient communication layer using cellular, SATCOM, VSAT, and Iridium links to maintain connectivity between field units and command sites.

AI-Driven Surveillance & Strategic Decision Support

Real-Time Threat Visualization

Seamlessly integrates data from multi-sensor and communication networks to deliver instant, high-definition surveillance mapping.

Tactical Insights & Analytics

Translates complex data streams into actionable recommendations, providing leaders with a distinct advantage for strategic planning.

Automated Pattern Recognition

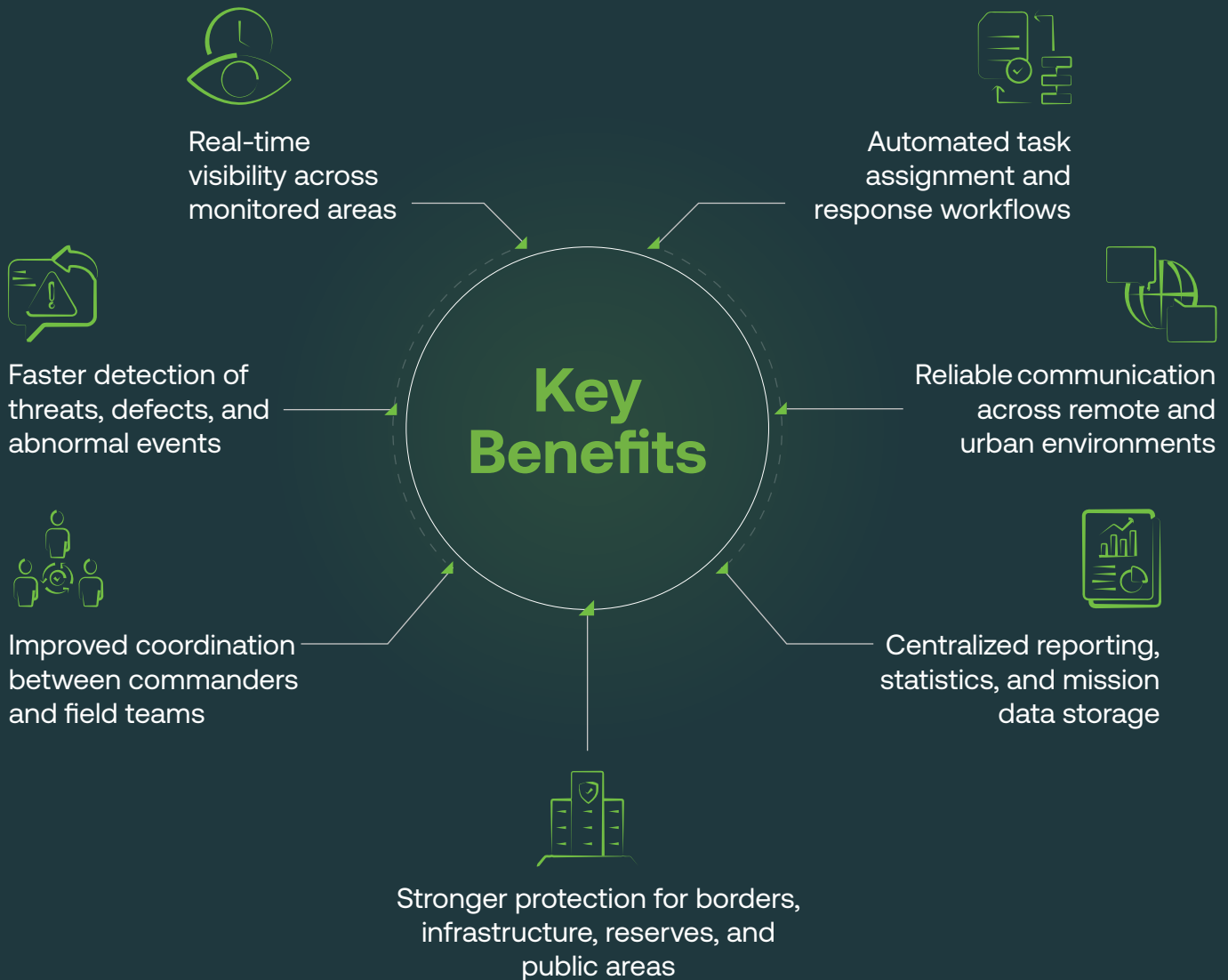
Leverages advanced video analytics to immediately detect, analyze, and distinguish between friendly and hostile activities.

Cross-Domain Operational Efficiency

Accelerates response times and sharpens decision-making accuracy across both defense and civilian applications.

Value Proposition

HEMA enables decision-makers to move from fragmented surveillance to connected command operations. By integrating sensors, vehicles, UAVs, field teams, and command centers into one operational environment, the system improves awareness, accelerates response, and strengthens control across high-risk areas.



Enabling Safer Civilian and Defense Environments

SAMI-AEC HEMA Surveillance System supports Saudi Arabia's need for advanced, locally enabled surveillance and command capabilities. By combining early warning, reconnaissance, field communication, and response coordination, HEMA helps protect national assets, public spaces, natural environments, and critical infrastructure.

Designed for demanding missions, HEMA strengthens operational readiness and enables authorities to act with greater speed, accuracy, and confidence.



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