

A military operation scene at sunset. In the foreground, several soldiers in full combat gear, including helmets and vests, are walking towards the viewer. In the background, there are two large military vehicles, possibly armored trucks or APCs, and two helicopters flying in the sky. The sun is low on the horizon, creating a golden glow and long shadows.

ISRAEL Defense Venture Builder DefenseTech & HLS

THE HUMAN ADVANTAGE

Field-expert mission managers leading every venture. Bridging operational pedigree with precision engineering.



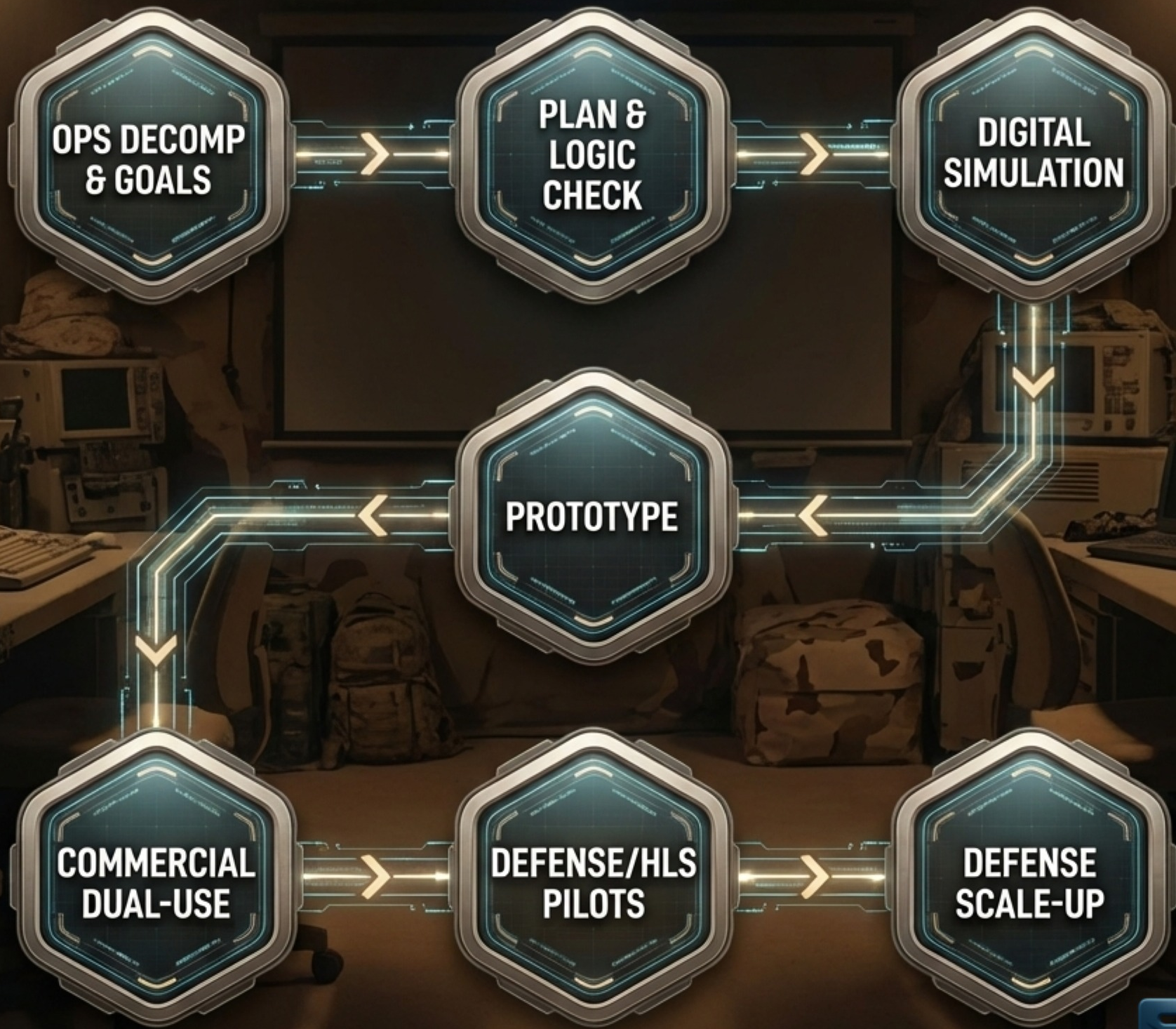


fail fast on paper

Rigorous conceptual validation prevents misdirected capital. We integrate Commercial Off-The-Shelf (COTS) components and Dual-Use architectures to test viability, ensuring operational logic and structural resilience long before physical prototyping begins.



DEVELOPMENT & TRANSITION FRAMEWORK





ISRAEL Defense Venture Builder Portfolio





C2 & ISR



Tactical Connectivity Hub

Establishing distributed tactical networks in complex terrain through mobile and adaptive relay nodes.



Development Phase: **C** — **Digital Simulation**

COTS Component TRL: **9**

Dual-Use: **Transitional**



Perimeter Sensing Barrier

Securing borders and coastlines through the deployment of multi-sensor masts and real-time data fusion.

Development Phase: **C — Digital Simulation**

COTS Component TRL: **9**

Dual-Use: **Transitional**



Unified 3D Operational Picture

Enhancing situational awareness through real-time 3D visualization of multi-source operational data.

Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**



Counter-UAV Interception Platform

Detecting and neutralizing enemy drones and UAV threats using dedicated kinetic or electronic countermeasures.

Development Phase: **C — Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Transitional**





Rescue & HLS



Firefighting Drone Management System

Coordinating autonomous drone swarms for firefighting missions through a SaaS-based multi-agency command platform.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **9**

Dual-Use: **Transitional**



Rescue Exoskeleton

Augmenting strength for engineering and rescue teams through sustained electrochemical power and ergonomic load support.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**

EM

Tactical Vital Signs Monitoring System

Integrating on-body sensors, edge processing, and augmented displays to deliver real-time physiological telemetry for field medics.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**

EM

Hybrid VTOL Interception Platform

Providing extended loitering and precision target interception through hybrid vertical takeoff and landing technology.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**

EM

In-Motion Crowd Screening System

Identifying hazards among moving individuals in transit areas through integrated sensor-based walk-through screening.



Development Phase: **A — Ops Decomp & Goals**

COTS Component TRL: **5**

Dual-Use: **Transitional**

EII



Logistics & Energy

Autonomous Robotic Logistics Convoy

Transporting critical equipment in contested environments through coordinated autonomous unmanned platforms.

Development Phase: **C — Digital Simulation**

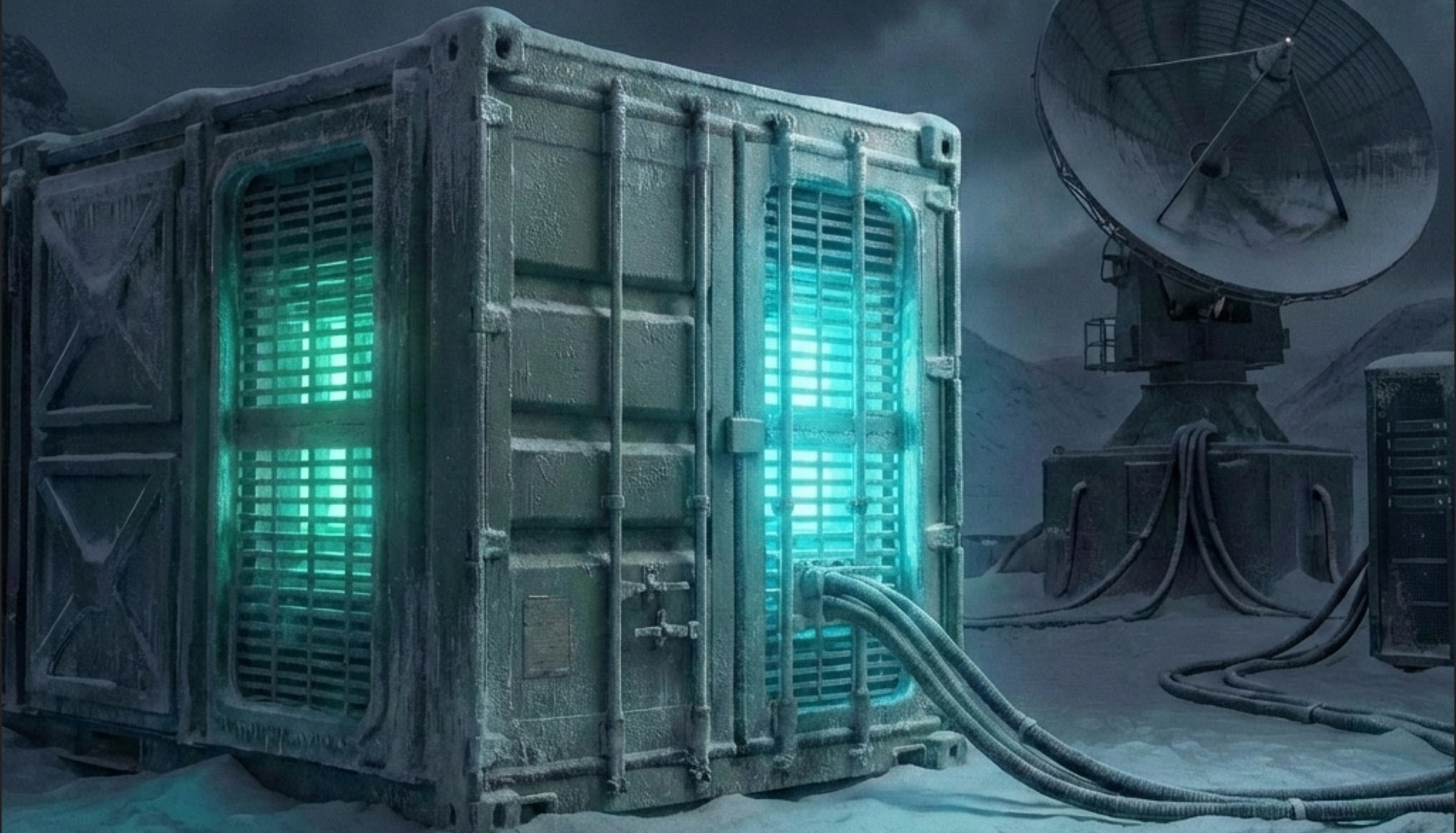
COTS Component TRL: **9**

Dual-Use: **Transitional**



Silent AL-AIR Power Generator

Providing continuous power and heat for off-grid sites through long-endurance, low-signature chemical energy processes.



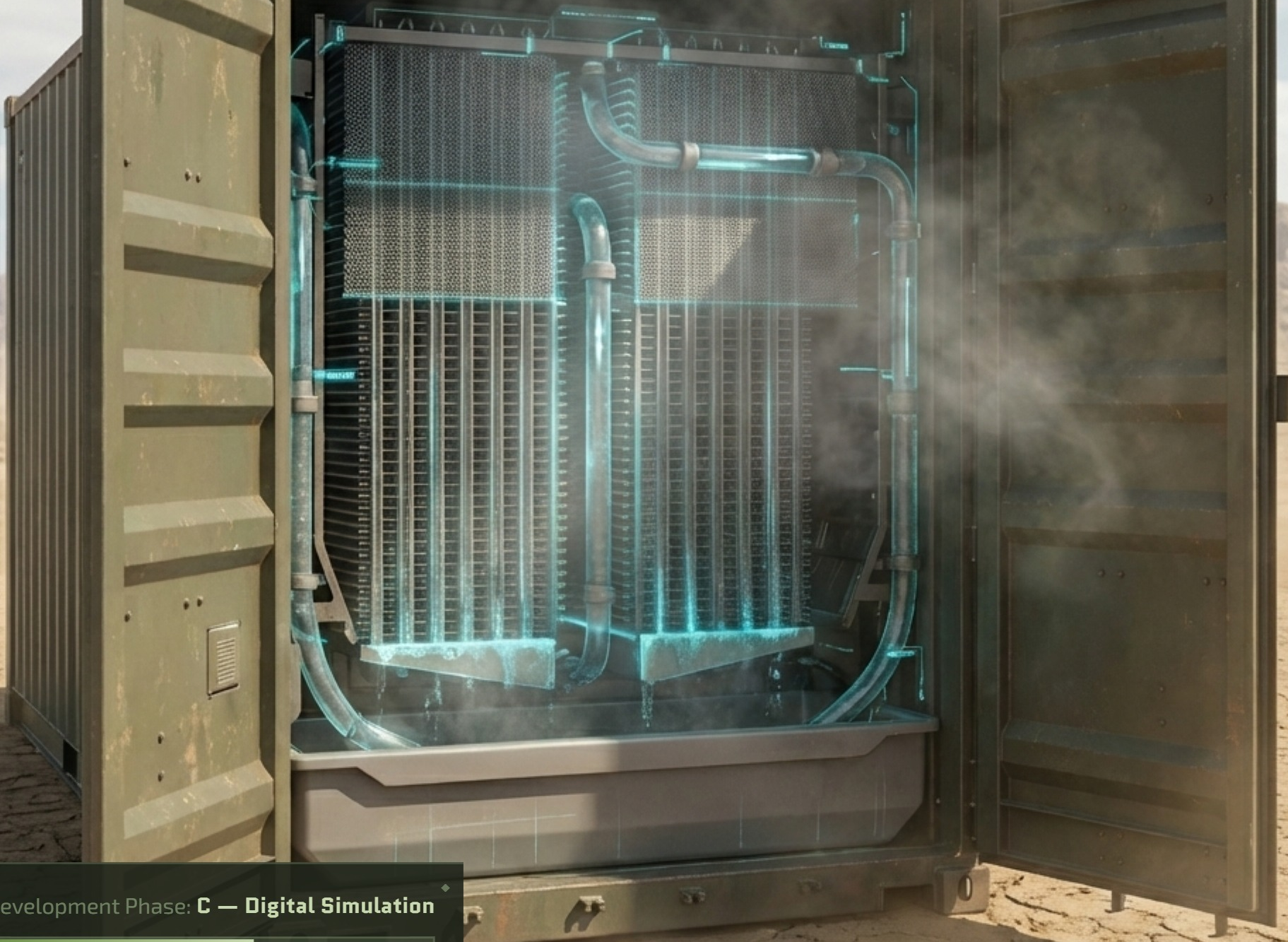
Development Phase: **C — Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**

Tactical Water Independence System

Producing potable water in the field through atmospheric harvesting and advanced purification of contaminated sources.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**

Subcontractor Management Platform

Monitoring and coordinating outsourced fleets and logistics assets through a unified tactical command interface.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **9**

Dual-Use: **Bidirectional**



A large military bulldozer is shown in operation on a rugged, rocky terrain. The bulldozer is positioned on a steep, rocky slope, pushing a large pile of earth and rocks. The scene is set against a dramatic sunset sky, with the sun low on the horizon, casting a warm, golden glow over the entire scene. The bulldozer's blade is lowered, and it appears to be in the middle of a task. The text "Combat Engineering" is overlaid in large, bold, white letters across the center of the image.

Combat Engineering



EI

Tactical Shelter Deployment System

Rapidly establishing protective field shelters through specialized tactical casting and deployment methods.



Development Phase: **C** — **Digital Simulation**

COTS Component TRL: **8**

Dual-Use: **Bidirectional**



Rubble Recycling and 3D Printing System

Processing structural debris into geopolymers concrete for automated 3D printing of field buildings and structures.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**



Remote Mine Detection System

Identifying buried mines and IEDs using remote sensing platforms deployed by drones or ground vehicles.



Development Phase: **D — Prototype**

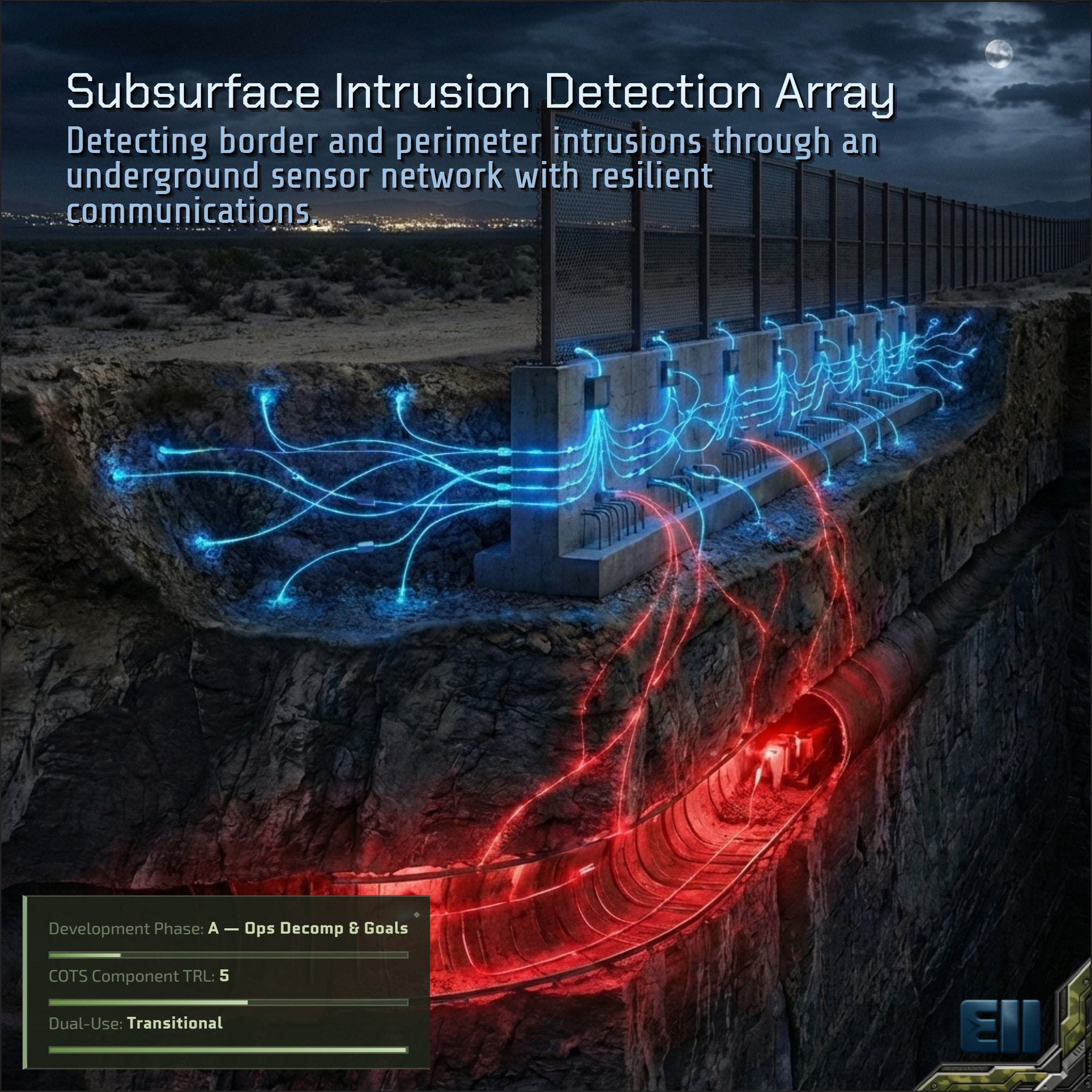
COTS Component TRL: **6**

Dual-Use: **Bidirectional**

EII

Subsurface Intrusion Detection Array

Detecting border and perimeter intrusions through an underground sensor network with resilient communications.



Development Phase: **A — Ops Decomp & Goals**

COTS Component TRL: **5**

Dual-Use: **Transitional**





Soldier Systems

Dismounted AL-AIR Power Unit

Providing sustained energy for foot soldiers through portable, silent, zero-thermal-signature energy cells.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**



Camouflage Threat Detection System

Identifying targets in ghillie suits or under camouflage nets through high-resolution hyperspectral analysis.



Development Phase: **D — Prototype**

COTS Component TRL: **6**

Dual-Use: **Transitional**



Soldier Multisensory Interface

Reducing cognitive load by integrating haptic, audio, and visual HUD feedback for dismounted personnel.



Development Phase: **B — Plan & Logic Check**

COTS Component TRL: **6**

Dual-Use: **Bidirectional**



AL-AIR Drone Charging Station

Replenishing energy for UAV swarms through a silent, forward-deployed chemical energy exchange platform.



Development Phase: **C** — **Digital Simulation**

COTS Component TRL: **7**

Dual-Use: **Bidirectional**



Tactical Area Defense System

Securing units and designated zones through multi-sensor arrays and automated detection across mobile or fixed positions.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **9**

Dual-Use: **Transitional**



Portable Tactical AI Computing Unit

Analyzing edge data and identifying threats through ruggedized, high-performance AI processing hardware.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **8**

Dual-Use: **Transitional**

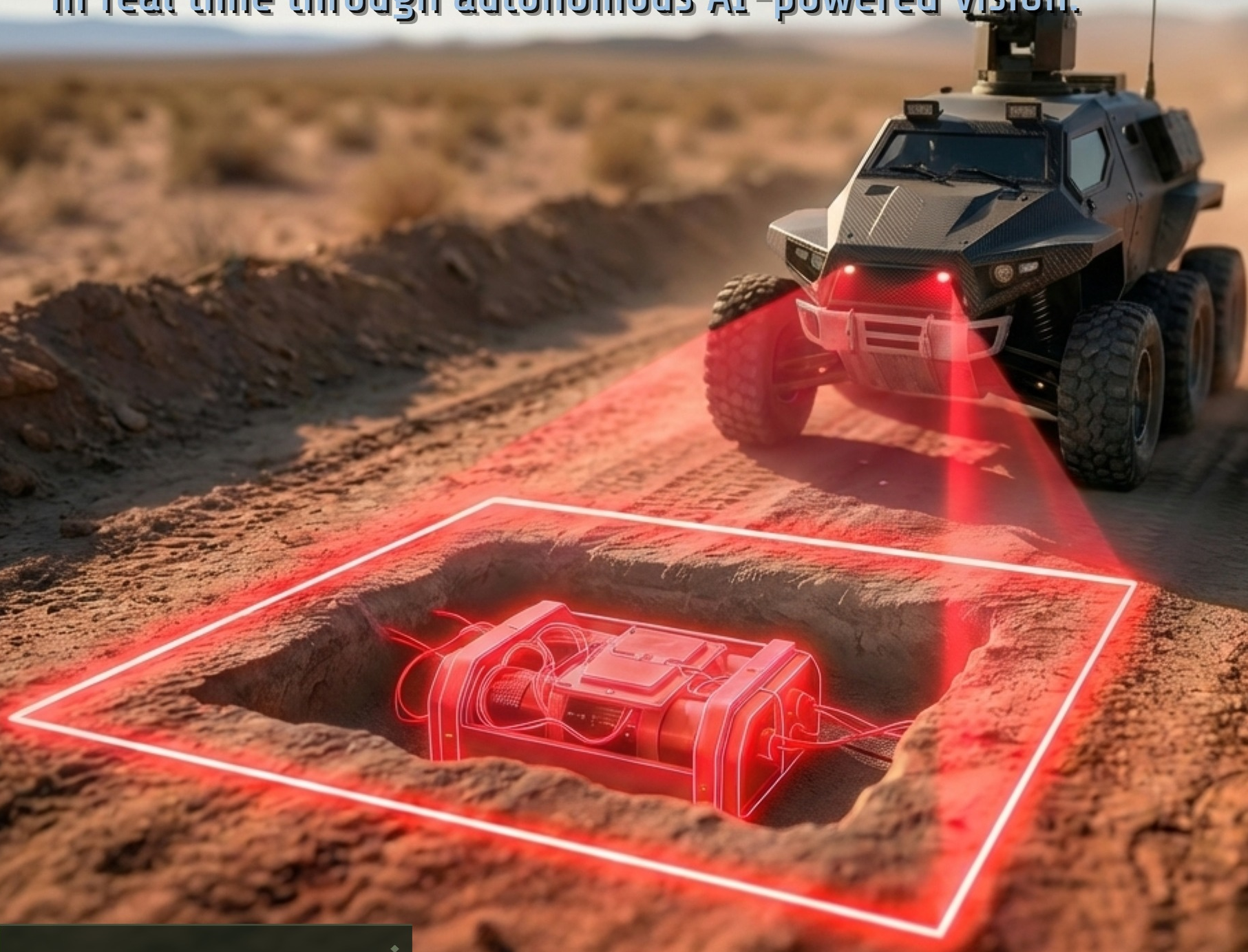




Tactical Mobility

AI Road Hazard Detection System

Identifying road hazards such as IEDs, ice, or oil slicks in real time through autonomous AI-powered vision.



Development Phase: **D — Prototype**

COTS Component TRL: **6**

Dual-Use: **Bidirectional**



GPS-Independent Navigation System

Navigating robotic vehicles in signal-denied areas using pre-loaded GIS and aerial imagery data.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **8**

Dual-Use: **Transitional**



W74

TUNGSTEN
AUTOMOTIVE

W74 Tactical Vehicle Ecosystem

Developing high-mobility hybrid-electric platforms for modular reconnaissance and logistics missions.



Development Phase: **C — Digital Simulation**

COTS Component TRL: **6**

Dual-Use: **Bidirectional**



Let's Engineer Clarity!



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