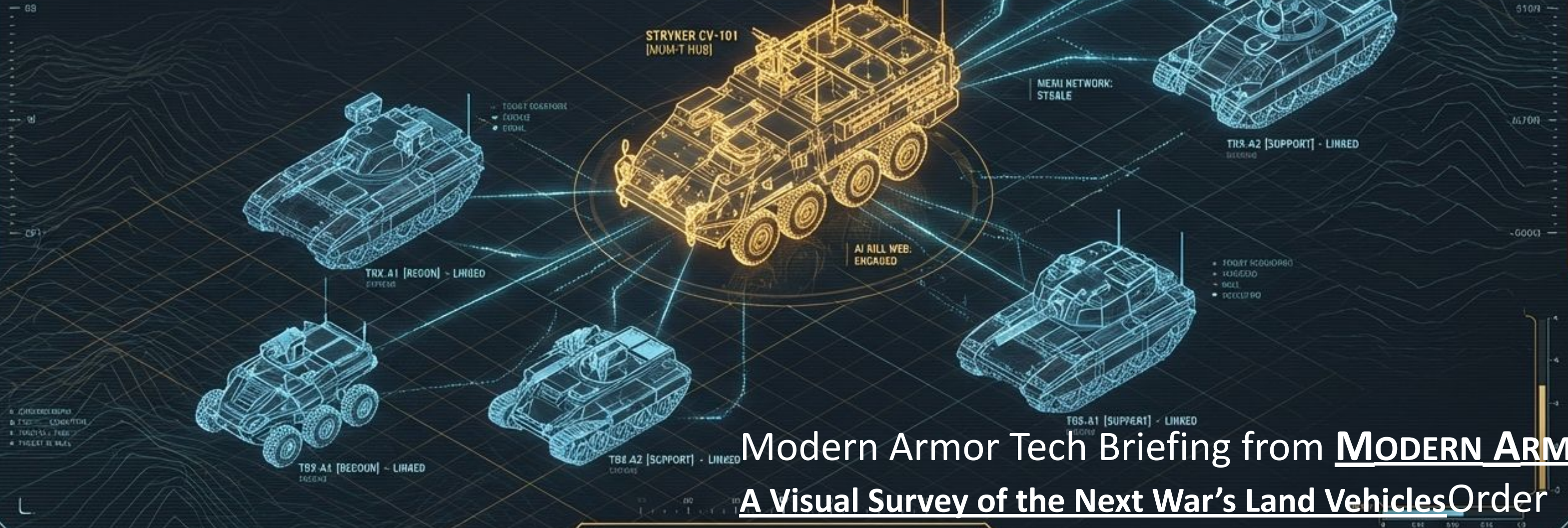


THE AUTONOMOUS COMBINED ARMS BRIGADE

Designing the Near-Future RCV Recon Squadron:
MUM-T, MESH Networks, and the AI Kill Web.

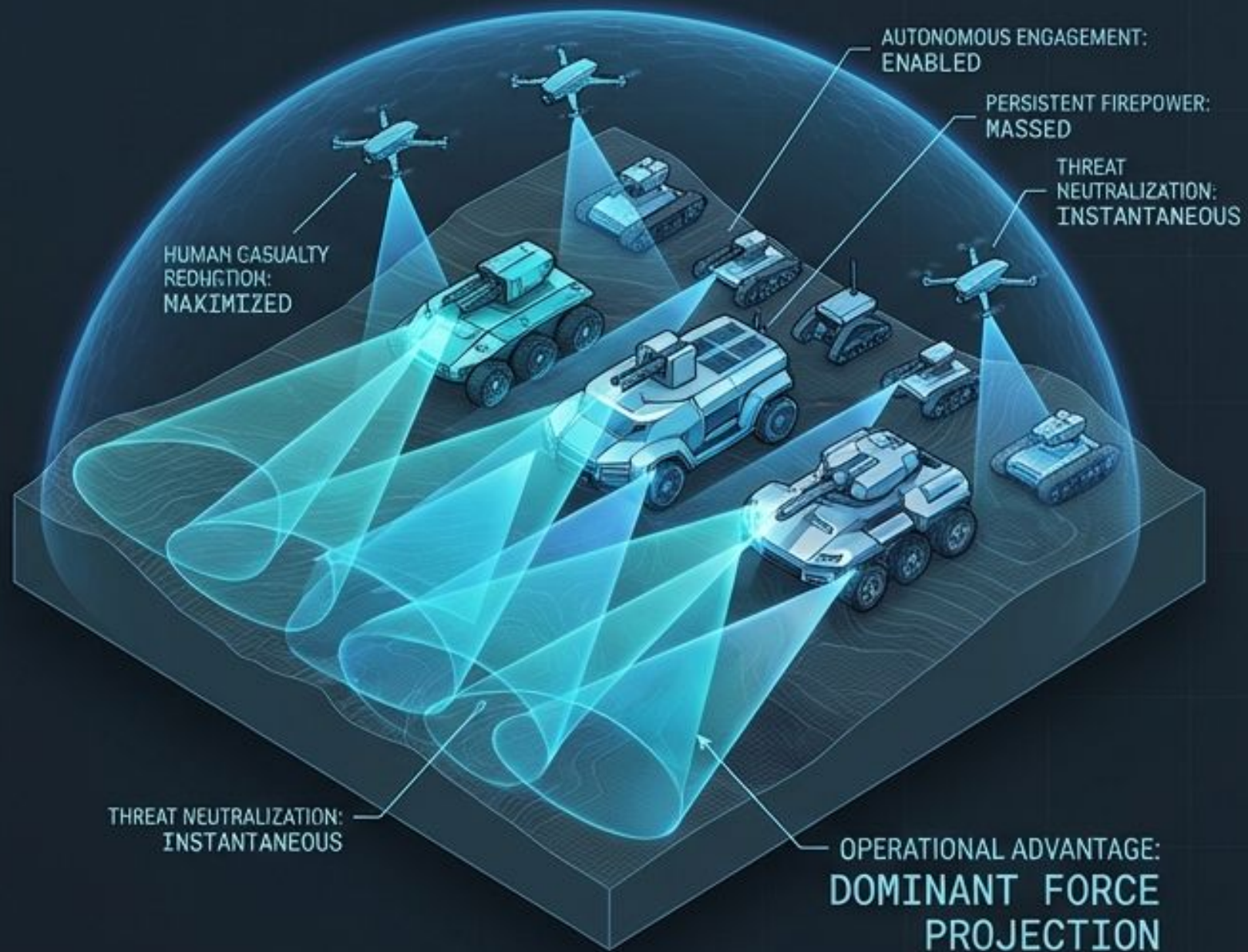
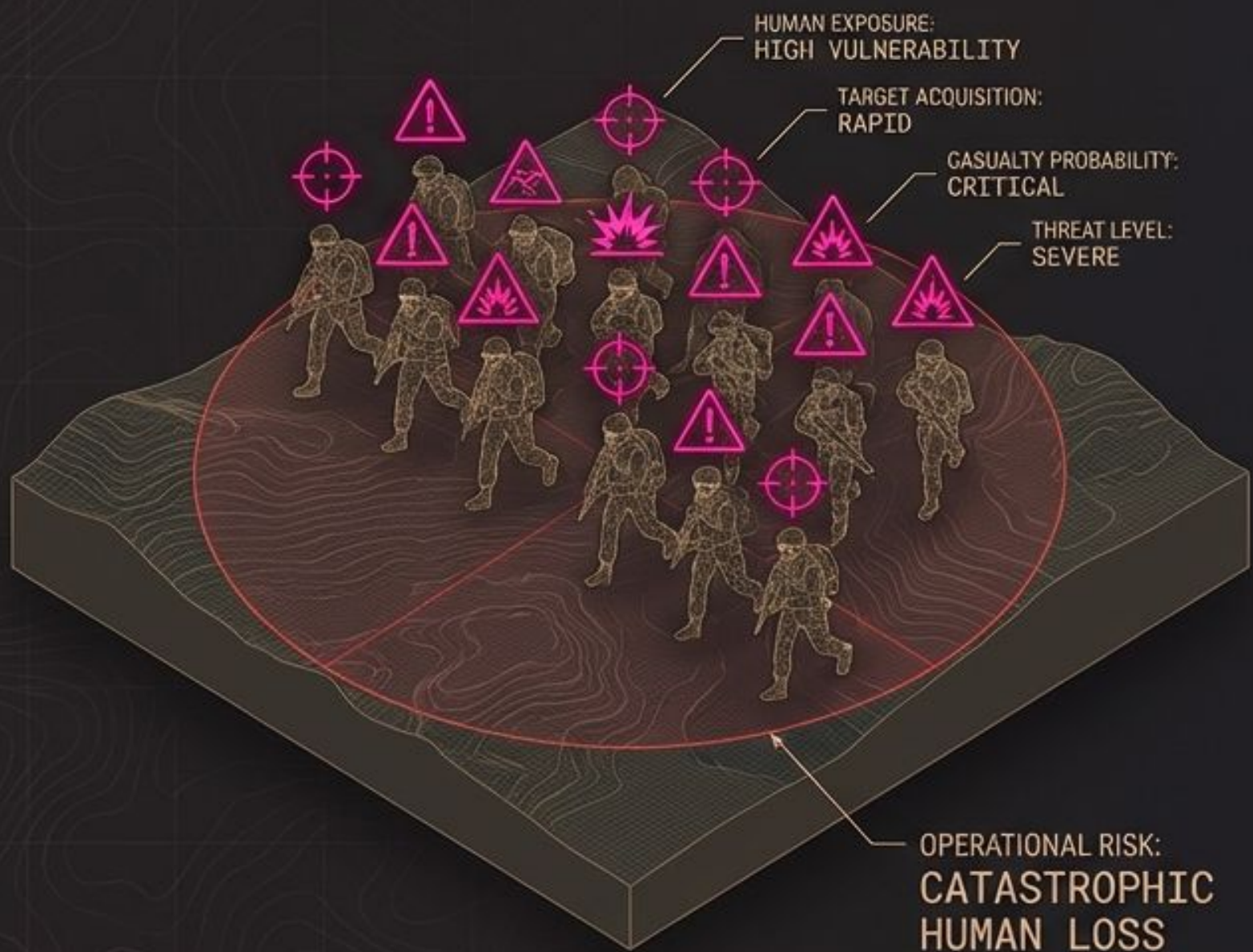


Modern Armor Tech Briefing from **MODERN ARMOR**
A Visual Survey of the Next War's Land Vehicles Order
today on Amazon or Barnes & Noble BookStores.

LEGACY DISMOUNTED INFANTRY FORMATION

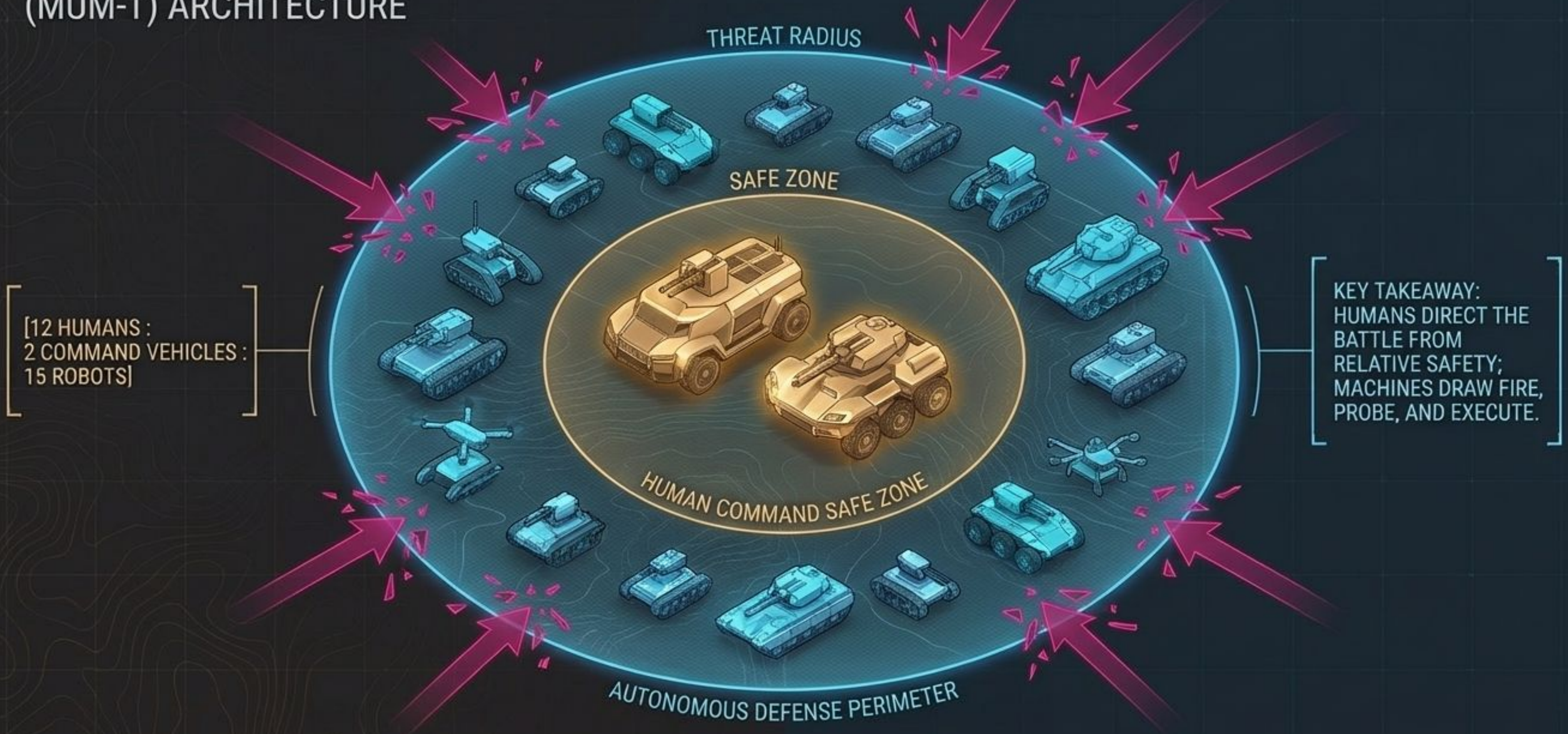
MISSION FIRST. PEOPLE ALWAYS.

NEXT-GEN ROBOT-CENTRIC FORCE



The defining shift of the 2030s battlefield is the transition to a robot-centric force. The objective is to drastically reduce human casualties while simultaneously maximizing persistent, massed firepower at the Forward Edge of the Battle Area.

MANNED-UNMANNED TEAMING (MUM-T) ARCHITECTURE



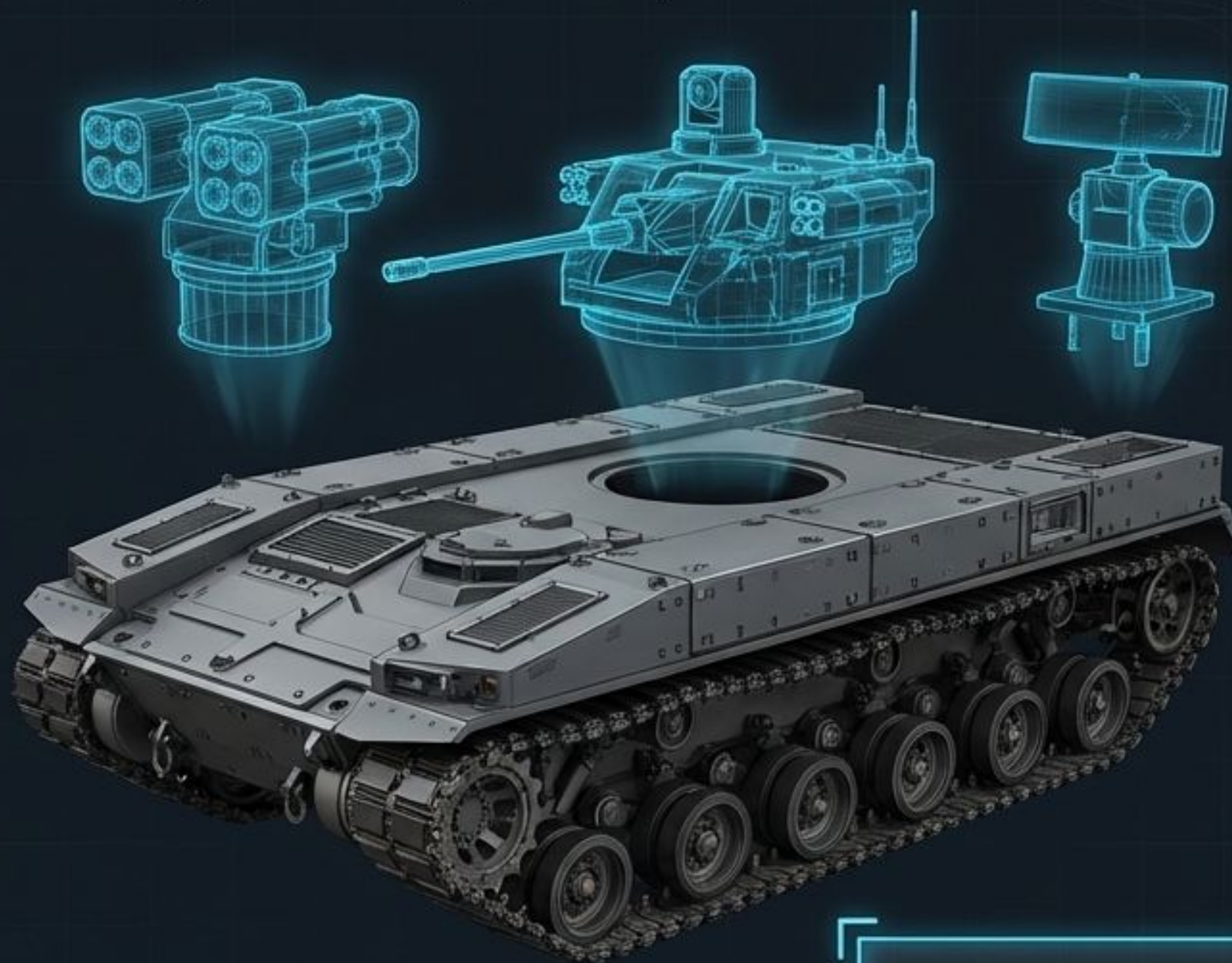
THE FORCE STRUCTURE FLIP

	TRADITIONAL DISMOUNTED PLATOON	RCV RECON PLATOON
DIAGNOSTIC		
HUMAN EXPOSURE	~30 front-line humans 	12 protected humans 
FORCE COMPOSITION	3-5 vehicles 	2 Command Vehicles + 15 Robots 
COGNITIVE LOAD & TARGETING	Manual/Voice targeting 	AI-Driven Kill Web with Human-on-the-loop authorization 
LOGISTICS MODEL	Vulnerable "Pull" via voice radio requests 	Automated, predictive "Push" resupply 

The Universal Foundation: General Dynamics Land Systems (GDLS) TRX

Specs:

- 10-Ton track platform
- Flat deck architecture
- Hybrid-electric drive
(diesel-electric)



Key Advantage: Enormous exportable power generation and a common logistical footprint. One chassis, infinite applications.

Class 1: Maneuver Element (The Vanguard)



Variant 1: Breacher/Assault

Role: Trips ambushes, clears fortified obstacles.



Variant 2: Direct Fire Support

Role: The "Loyal Wingman" for suppressing fire and armor engagement.



Variant 3: Missile Carrier

Role: Organic, loitering Non-Line-of-Sight (NLOS) precision strike.

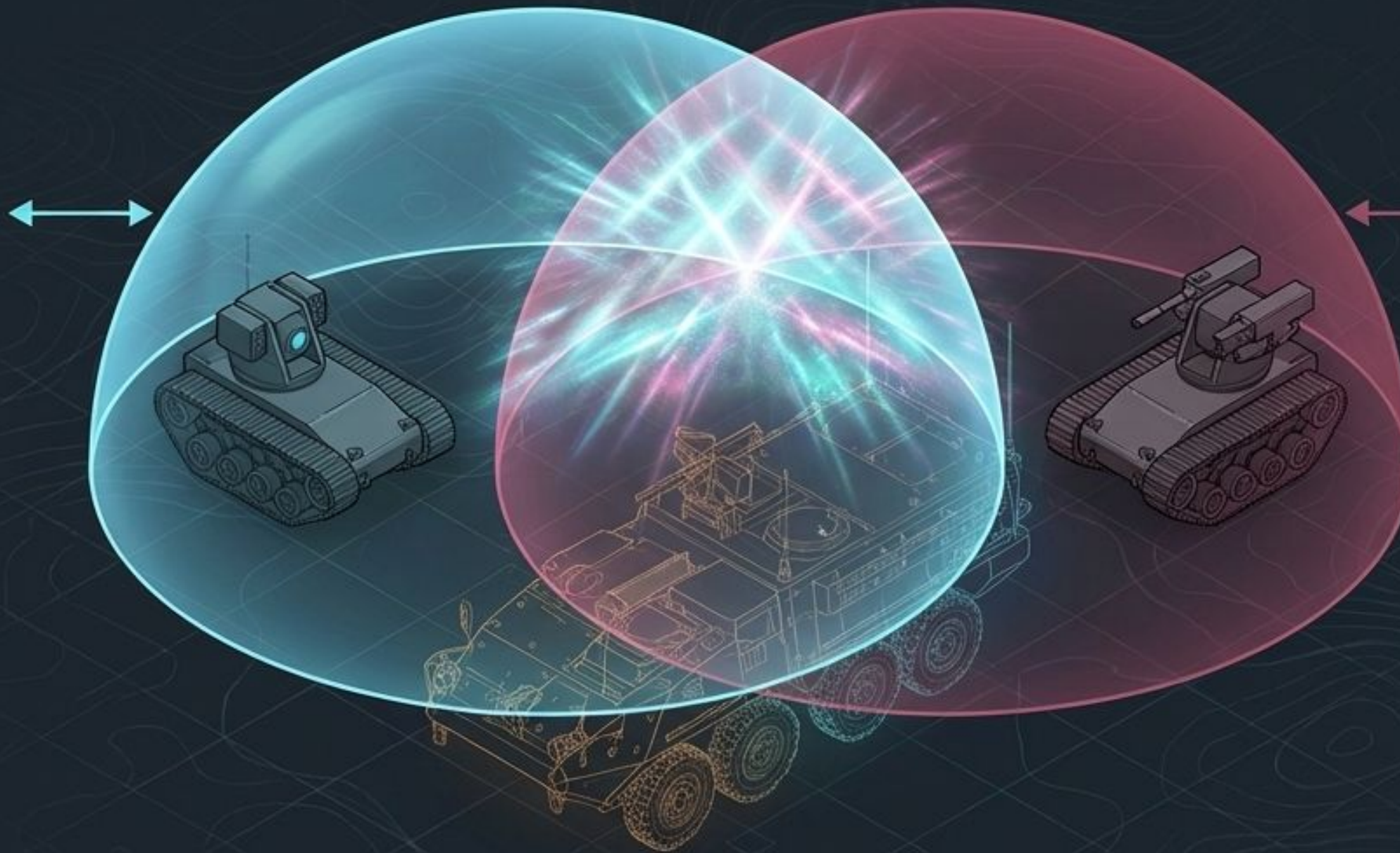
Class 2: Force Protection (The Air Defense Shield)

Variant 4: SHORAD 'Helios'

High-power
microwave/laser
directed energy system
powered by the TRX
hybrid drive.

Data marke: andtes:
Roboto Monos: of 10%
data copy:
Inter

Role: Silent, low-
cost defeat of enemy
surveillance and
attack drone swarms.



Variant 5: Kinetic Interceptor

Stinger missiles and
30mm airburst cannon.

Role: The hard-kill
counterpart for
helicopters,
fast-movers, or
heavy drone
threats leaking
through the energy
shield.

Roboto Marts:
Roboto Mono:
Roboto Mono

Class 3: C4ISR (The Nervous System Nodes)



SENSOR RANGE: 500NM
DRONE SAARR: ACTIVE
STATUS: ACQUIRING

Variant 6: Recon Mast / Mothership

Telescopic multi-spectrum sensors (Optical, Thermal, Radar) and a launch/recovery pad for scout drones.

Role: Deep sensing and target acquisition.



BANDWIDTH: HCSH
UPLINE: SECURE
JAMMING: BYPASED
NODES CONNECTED: 128

Variant 7: SATCOM / Network Hub

Dedicated relay with high-bandwidth satellite dishes and 5G mesh arrays.

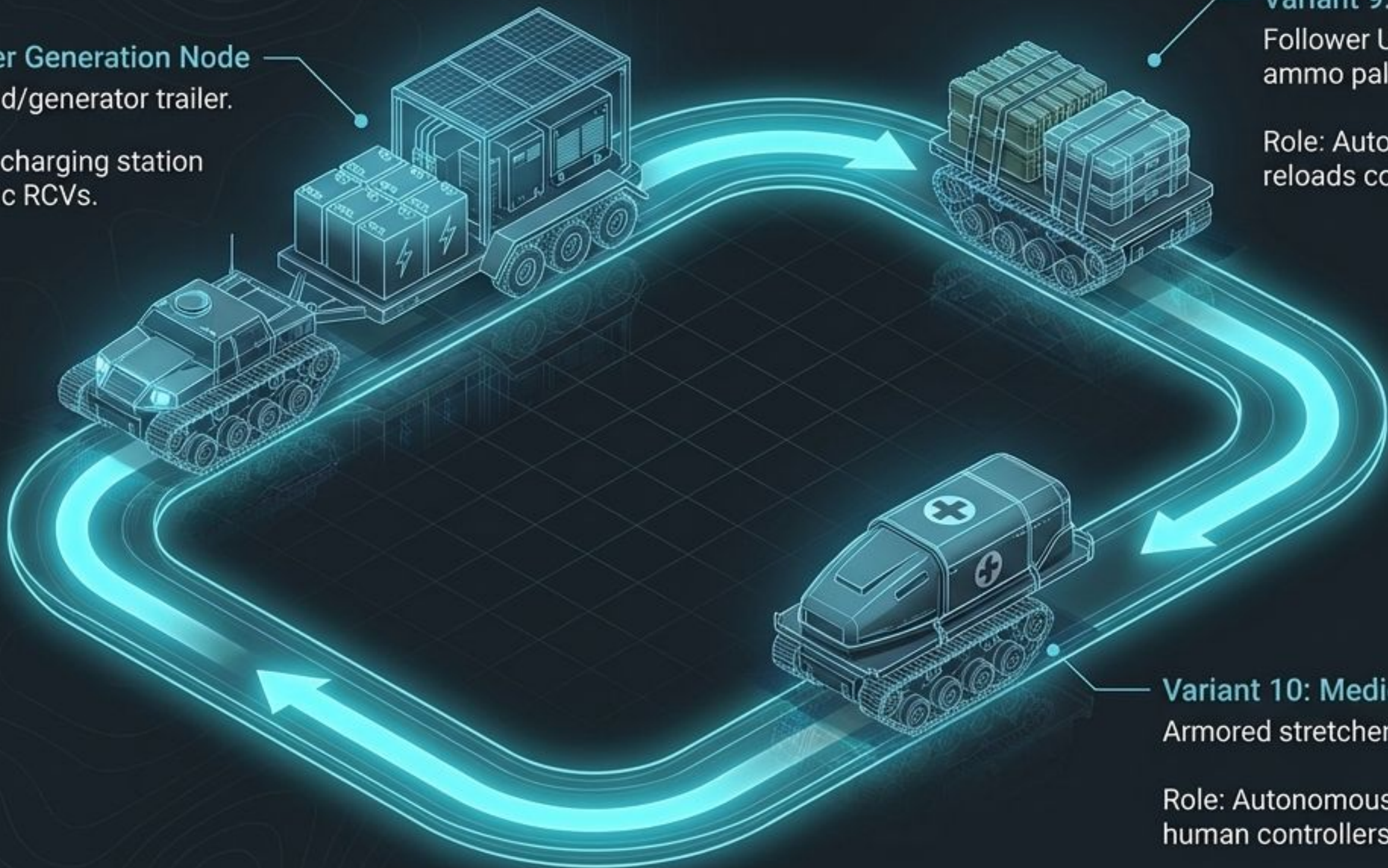
Role: Ensures the swarm stays connected to human operators, bypassing jammed environments.

Class 4: Sustainment Tail (Automated Push Logistics)

Variant 8: Power Generation Node

Mobile micro-grid/generator trailer.

Role: Forward recharging station for hybrid-electric RCVs.



Variant 9: Autonomous Resupply Mule

Follower UGV with pre-packaged ammo pallets.

Role: Autonomously docks and reloads combat RCVs.

Rear Node

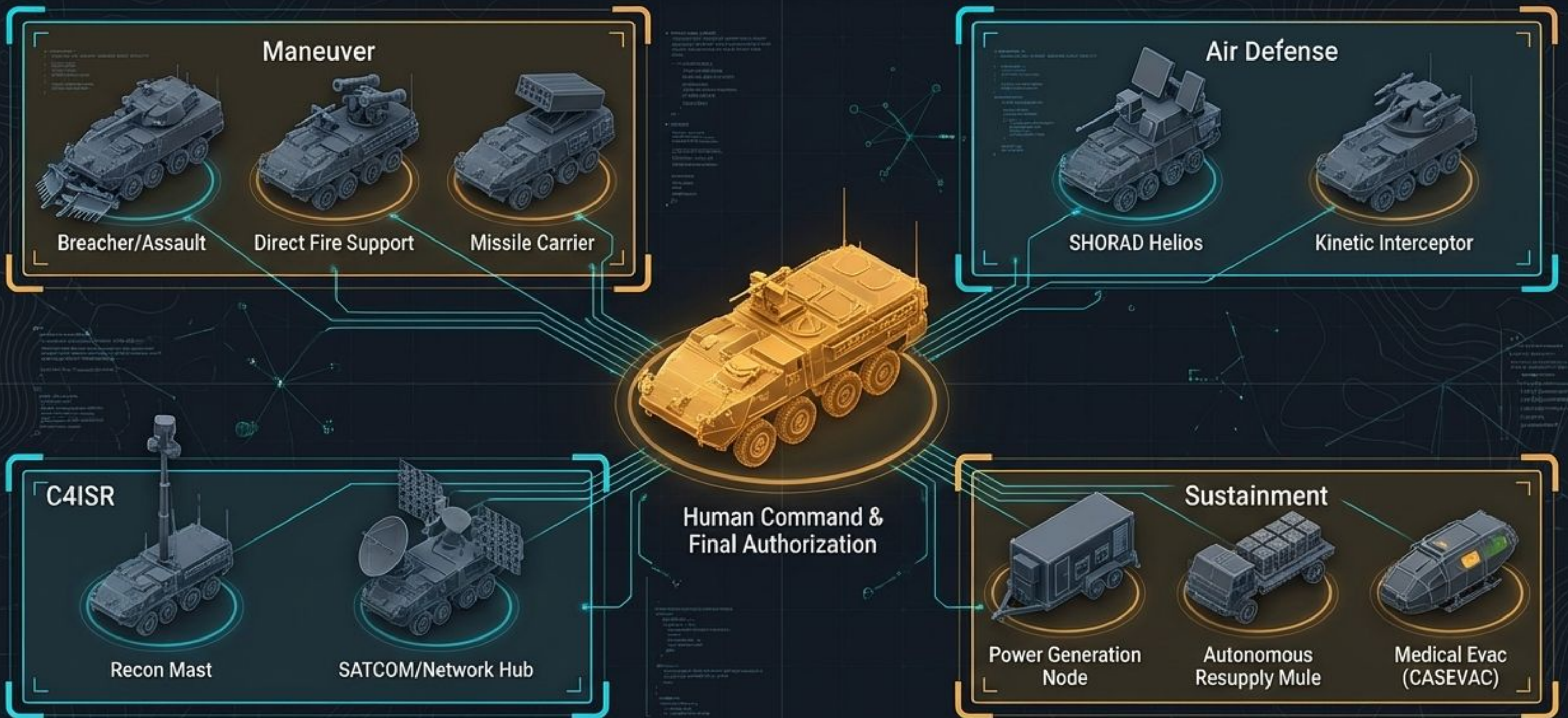
Front Line Node

Variant 10: Medical Evac (CASEVAC)

Armored stretcher pod.

Role: Autonomously retrieves wounded human controllers to rear medical points.

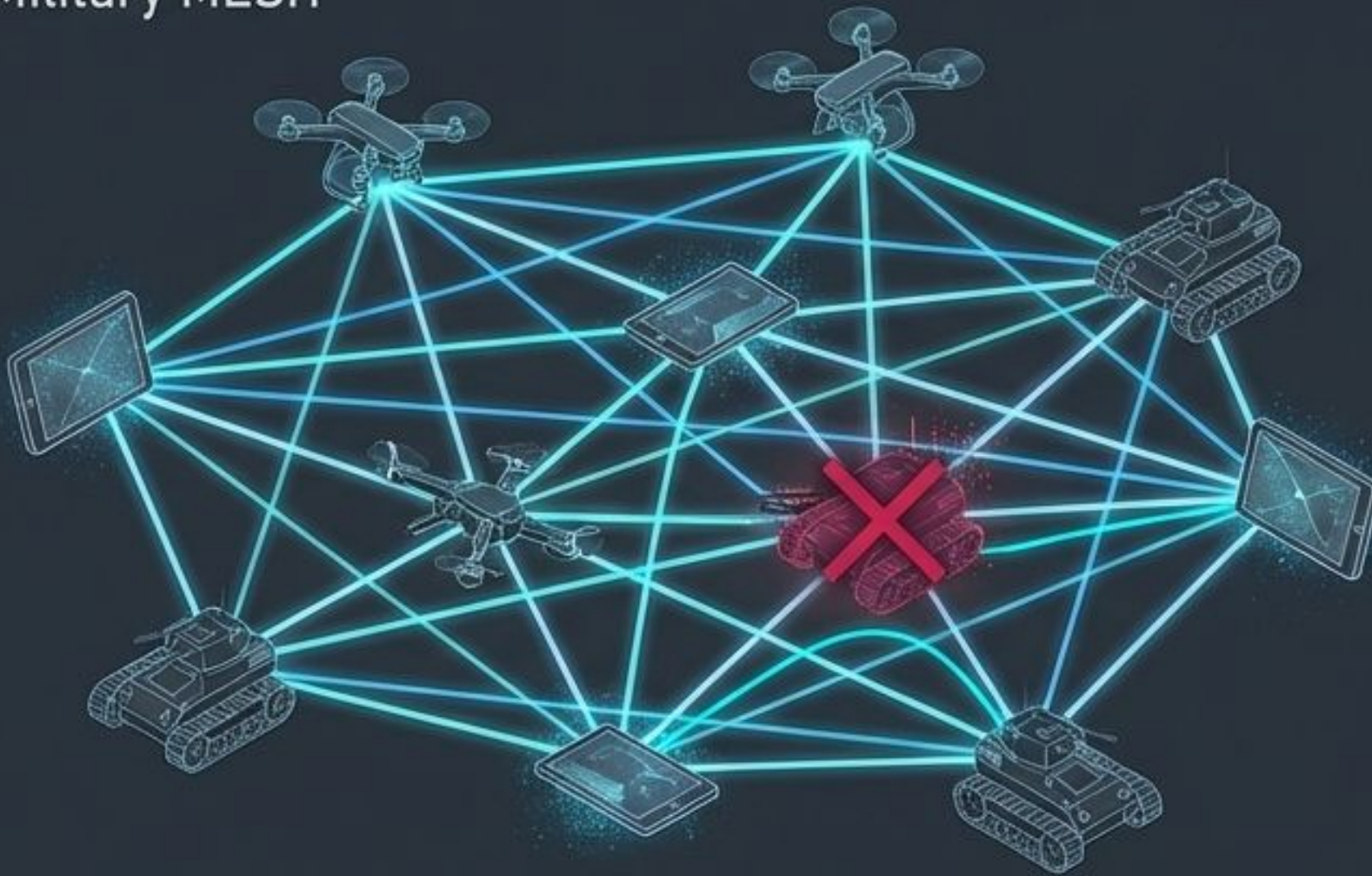
The Arsenal Matrix: A Complete Robotic Ecology



4 distinct tactical classes. 10 specialized variants. 1 universal 10-ton chassis. The RCV Recon Squadron effectively replicates the capabilities of an entire heavy brigade within a fraction of the human footprint.

COFDM MESH Networking (The Unbreakable Tether)

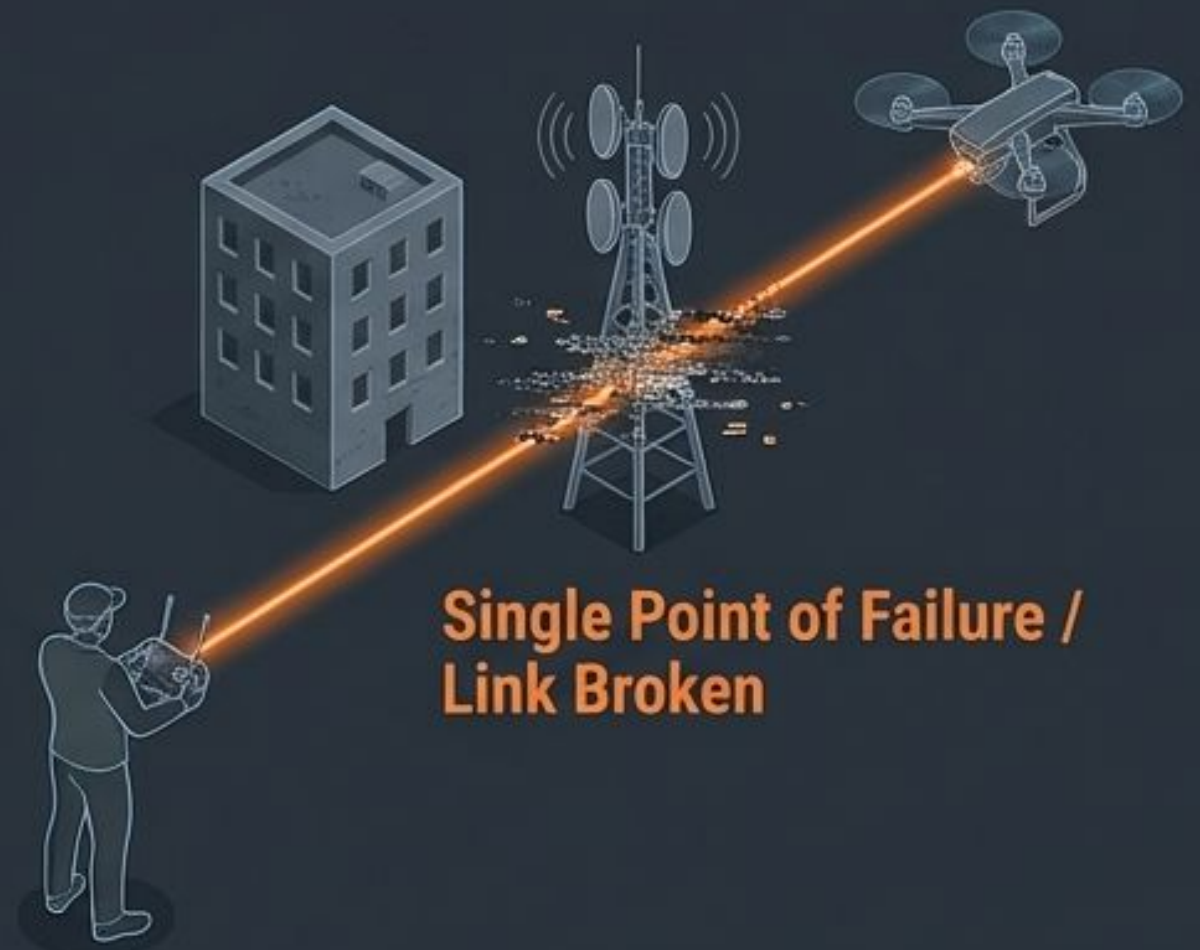
Military MESH



Military MESH

Self-forming, self-healing topology. Not dependent on a single base station. High-bandwidth Line-of-Sight (LOS) data hops dynamically across every vehicle and drone, guaranteeing unbroken control in contested EW environments.

Commercial Point-to-Point



Vulnerable. Single dependent connection. Obstacles and jamming lead to instant signal loss.

Fire Faster: The AI-Driven Kill Web

Linear & Manual (Measured in Minutes)



Parallel & Instant (Measured in Seconds)



AI handles 90% of the cognitive load (Identify, Track, Target Solution). Funnel to a single human tollgate to eliminate electronic fratricide and maintain ethical lethal force.

The 5 Rules of the RCV Squadron

1
2
3
4
5



Human-on-the-Loop

AI drives and acquires targets; humans authorize lethal fires.



Manned Vehicles Never Lead

Robots aggressively probe and attrite; humans direct from relative safety.



Fire Faster

Leverage the digital Kill Web to compress OODA loops from minutes to seconds.



Push Logistics

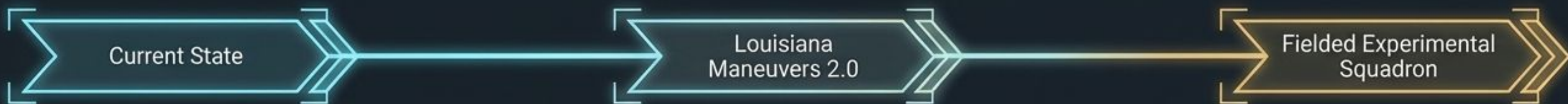
Rely on predictive, automated resupply, keeping human convoys out of kill zones.



Iterate Relentlessly

Embrace the chaos of the experimental phase to achieve rapid tactical evolution.

The 2-Year Horizon: Louisiana Maneuvers 2.0



Takeaway:

The technology exists today. The imperative is integration. By embracing rapid, iterative testing—expecting failures and learning instantly—a combat-ready, autonomous RCV Recon Squadron can be fielded within 24 months.

Closing Thought:

Confusion is the apex of learning. Field the force. Find the flaws. Dominate the future.