



MISSION READY EDGE AUTONOMY

FOR FEDERAL MISSIONS

Built for complex, unstructured, and GPS-denied environments, FieldAI Edge Autonomy enables ground systems to navigate safely, adapt in real time, and execute missions with confidence at the tactical edge. Powered by Field Foundation Models, it is designed to operate without prior maps, predefined paths, or continuous communications.

FieldAI Edge Autonomy is built to support a broad range of federal mission applications, including:

- + Autonomous reconnaissance and overwatch
- + Route identification and low-signature navigation
- + Optical and thermal survey of objectives
- + Autonomous convoy
- + Autonomous sentry, threat patrol, and point-of-interest marking
- + Alerting and reporting
- + Connected multi-robot operations
- + Attritable uncrewed platforms
- + Logistics and material transport across unstructured terrain



One Brain. Broad Mission Flexibility.



ENVIRONMENTS

Handles dynamic, unpredictable, and unstructured real-world conditions, including off-road terrain and GPS-denied environments, day and night.

SENSORS

Integrates with major sensing modalities including high-resolution cameras, LWIR, RADAR, and LiDAR for rich spatial and environmental understanding.

PLATFORMS

Supports legged, wheeled, tracked, and aerial systems, enabling autonomy across the robotic embodiments best suited for the mission.

NO GPS / NO COMMS

Designed to operate without prior maps, predefined routes, or continuous communications in denied and degraded conditions.

Winner, Autonomous UGVs
2025 U.S. ARMY XTECH OVERWATCH

Winner, Urban Circuit
2020 DARPA SUBTERRANEAN CHALLENGE

Top Performer
2024 DARPA RACER

CONTACT US

Jon Ross
Senior Director – Chief Growth Officer
FieldAI Federal
805.428.8101
jon.ross@fieldai.com

Stuart Young, Ph.D.
Senior Director, FieldAI Federal
703.731.7366
stuart.young@fieldai.com
fieldaifederal.com

Built for the real world

FieldAI Edge Autonomy is designed for real deployment, not controlled demos. Using onboard intelligence and multimodal sensing, it understands terrain, obstacles, and changing conditions in real time, enabling safer navigation and reliable mission execution in the most demanding environments.

Architected for uncertainty

At the core of FieldAI Edge Autonomy are Field Foundation Models™, a new class of physics-first robotics models built to reason under uncertainty. This risk-aware architecture helps vehicles adapt to incomplete information, changing terrain, and unexpected conditions while operating safely in the physical world.