



# JIFX

Joint Interagency Field Experimentation

## JIFX 25 - 1

04 – 08 November 2024

NPS Field Laboratory at Camp Roberts

Event Focus Area: **Uncrewed Systems & Counter-Uncrewed Systems**

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Uncrewed Systems (UxS) are transforming the operational landscape, offering unprecedented capabilities in terms of surveillance, reconnaissance, and autonomous operations. The focus of this event is to enhance the performance, autonomy, and resilience of these systems.

### **Autonomy**

Objective: Improve self-sufficiency and decision-making of UxS.

- Develop algorithms that enable UxS to navigate, recognize, and adapt to environments autonomously, reducing the need for human intervention.

### **Logistics**

Objective: Optimize deployment and maintenance of UxS.

- Enhance planning and management for UxS transportation, deployment, and resupply, ensuring operational availability and efficiency.

### **Communication**

Objective: Ensure reliable and secure data transmission.

- Develop resilient networks and secure protocols for real-time data exchange between UxS and operators, and among UxS units.

### **Power and Energy**

Objective: Enhance endurance through advanced power solutions.

- Innovate in battery, solar, and fuel cell technologies to extend UxS operational range and duration, reducing resupply needs.

### **Sensor Integration and Data Fusion**

Objective: Improve situational awareness and data interpretation.

- Integrate multiple sensors and use data fusion techniques for a comprehensive and accurate understanding of the environment.

### **Detection and Tracking Technologies**

Objective: Develop capabilities for identifying and following targets.

- Enhance detection and tracking with radar, optical, and AI technologies for accurate monitoring of objects or threats.

### **Kinetic and Non-Kinetic Neutralization Methods**

Objective: Safely neutralize hostile or unauthorized UxS.

- Employ methods to disable enemy UxS.

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