





NPS Joint Interagency Field Experimentation 23-4

Event Dates:

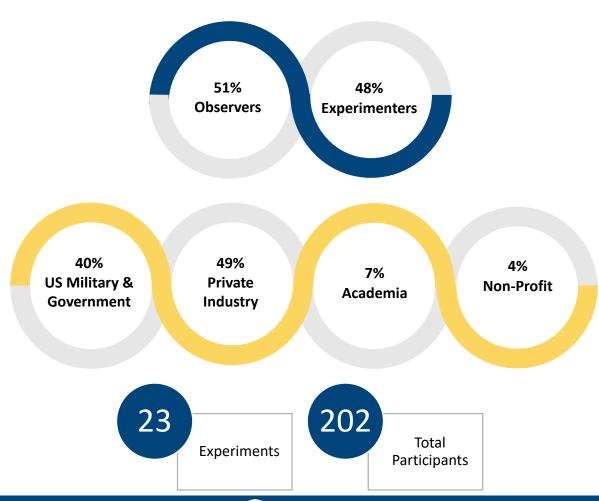
7 - 11 August 2023

Event Focus Area:

Autonomy and Human Machine Teaming

Event Location:

McMillian Airfield at Camp Roberts Army National Guard Base











JIFX 23-4 Experiments

	Experiment Title	Organization
A-03	GPS-Denied Navigation & Autonomy: Vision Based Navigation System	Rhoman Aerospace
A-04	Sustained Autonomous Overwatch/Patrol	Airrow
A-05	Visual Positioning System (VPS)	Vermeer
A-06	Targeting In a GPS Denied Environment	Trillium Engineering & Vermeer
A-08	Short-Haul Drive & Fly Personnel/Cargo Movement	NFT Inc. (dba ASKA)
A-09	Phalanx Shield Multi-Domain	Innovative Algorithms
A-10	GreenSight SA4 - Secure Advanced Aerial Attributable Asset	GreenSight
A-11	Laila Ground Testing	ODYS Aviation
B-01	Legion	Swarm Aero
B-04	WeatherHive Swarming Meteorological Measurement System	GreenSight
B-07	Motion-First Perception, Localization, and Odometry for Offroad Autonomy	Bluespace Al
B-08	Tactical Mixed Reality FPV Drone and Robotic Goggles	ISEEYOU360 Inc.
D-02	ROADFI360 - Comms Box	ISEEYOU360 Inc.
F-01	Multi-Domain Expeditionary Artificial Intelligence and Behavior Analysis at-the-edge for Tactical Surveillance Application	Gantz-Mountain Intelligence Automation Systems, Inc.
F-03	Informational Warfare Enabler Kit Detachment (IWEK-D)	Ombra
F-05	BEATs - Broadcast Evaluation and Analysis Translation Experiment	Blue Ridge Dynamics, Inc
G-01	Intelligent Human Motion Denied GPS Trials	Yotta Navigation
G-02	SmartCam3D ATAK and WinTAK Plugins Geospatial Augmented Reality and Annotation Tools for Real-Time FMV	Rapid Imaging Technologies LLC
G-04	The Frontline Perception System	TurbineOne, Inc
G-08	Artificially Intelligent Decision Support	Synmax
G-09	Data Driven Contested Logistics Analytical Modeling	Premise Data
K-02	QUICKBLOCK	Stucan Solutions Corp
M-01	Autonomous Multi-Sensory Non-Lethal Deterrence System	Cornerstone Research Group, Inc.







Naval Postgraduate School Student Participation

Twenty-three Naval Postgraduate School (NPS) information science students attended JIFX 23-4. JIFX is one component of NPS' mandate to enhance the technological literacy of military leaders. Events facilitate the exchange of ideas between NPS students, government stakeholders, and technologists from industry, academia, and government labs to advance the collective knowledge of defense applications for emerging technologies. Students assess technologies for their potential to solve operational challenges.



NPS students discuss the merits of a collaborative experiment combining <u>Vermeer</u> and <u>Trillium</u> capabilities to detect, track, and target objects in a GPS denied environment.



Naval Postgraduate School (NPS) students observe <u>Airrow</u>'s drone hub and discuss its operational applications.



Capt. Jordan Eubanks, a U.S. Marine student at NPS, examines a tactical building system component from Quick Block.











Lucas Barnello and his <u>Ombra</u> colleague conduct an ad-hoc experiment with Kyle Miller of <u>Blue Ridge Dynamics</u>.



<u>GreenSight</u> technologist Eli Davis and his colleague prepare their WeatherHive drone system for a test flight





The ASKA team demonstrates how the wings open and close on their prototype A5, flying car. With wings folded the A5 is street legal.



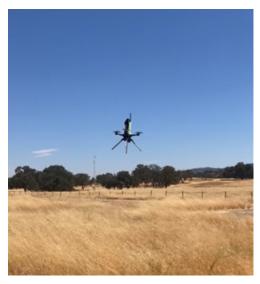








Odys Aviation validated the ability to transport and rapidly prepare, Laila, their twenty-one-foot box wing VTOL prototype aircraft from container to fully assembled in less than thirty minutes.



<u>Innovative Algorithms</u> UAS maneuvers to deploy a sensor.



Ray Heath (standing left), Deputy Branch Chief for AFSOC A5 Special Warfare Requirements Branch, and his colleague, Tim Masek, provide other government stakeholders an overview of the limited user assessment of Rapid Imaging Technologies Smart Cam 3D system completed during the event.



NPS students discuss the potential benefits of a tactical building system from Quick Block founder Andrew Vincent.

