

JIFX 24-1

Coordination Calls

23 – 27 October 2023



Call Agenda – Call #1

JIFX Team

Event Overview

Registration & Gate Access

Logistics

Future Meetings

Q&A

Call Agenda – Call #2

Call #1 Reminders

Networks & Frequencies

Event Safety

Vulcan

COPERS

Q&A

Call Agenda – Call #3

Final Logistics

Experiment Introductions

Q&A

Dr. Mike Richardson, JIFX Director

Ashley Book, Event Operations

Jonathan Coon, Data Management

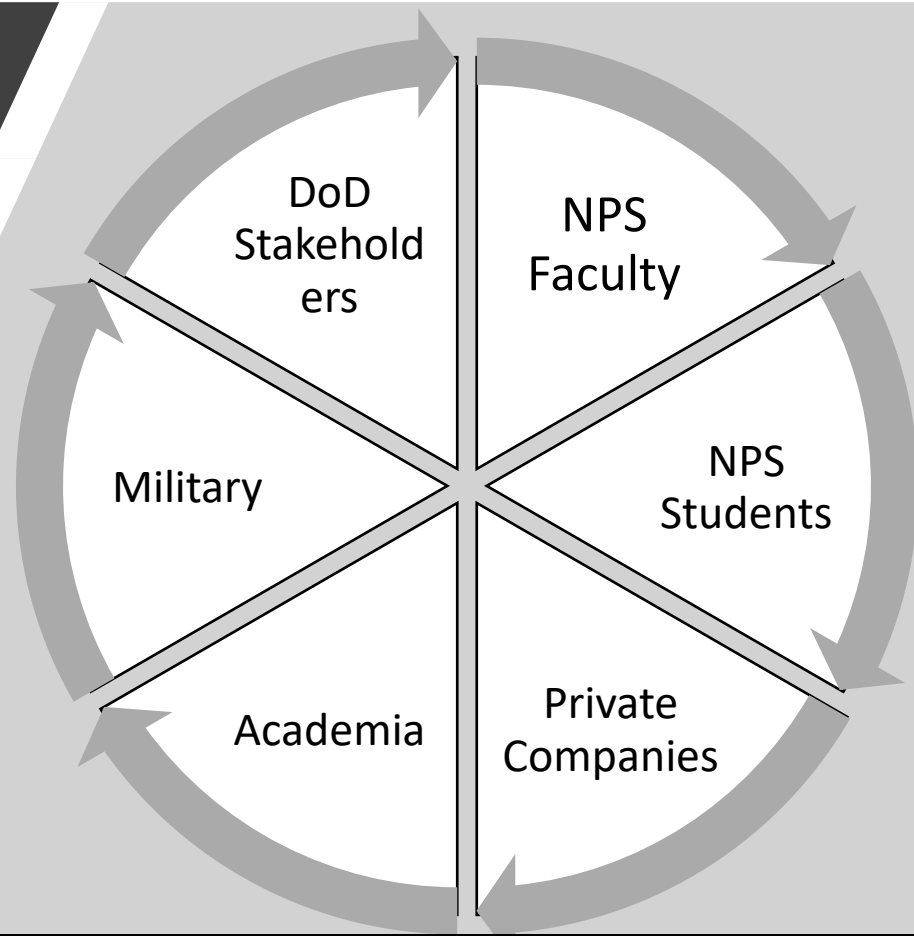
Aurelio Monarrez, Air Operations

Joseph Lukefahr, Tech & Network Management

Dirk Hale, Camp Roberts Facilities

JIFX Team

WHAT IS JIFX?



JIFX is an **experiment** in the methods to enable **rapid technological development**.

Mission Statement:

The JIFX team leads experimentation in alternative methods to enable rapid technological development by cultivating a community of interest and hosting broadly scoped quarterly collaborative field events which enable DoD, US government, and allied stakeholders to identify, influence, and accelerate early-stage technology development that address national and collective security challenges.

JIFX provides researchers a turn-key solution for **safe, secure, legal, and collaborative** experimentation

What JIFX isn't:

- Tradeshow
- Conference
- Sales Event
- Demonstration
- Lectures
- Presentation
- Acquisition Event



and Illustrate Your Own Stories	Rachel Wintenberg	🌐 🌟
ancing through STEAM	Elizabeth Peterson	🌐 🌟
onia - More than Just a Gallery!	Donna Staten	🌟
11:00AM BRAIN BREAK #1		
terns in Music, Dance and Mathematics	Marcia Daft	🌐 🌟
Exploring the Creative Process with Dance	Deirdre Moore	🌐 🌟
Experimenting with Color	Beth Elliston	🌐 🌟
Partner Showcase: Art to Remember		
Partner Showcase: Buncee		
12:35PM BRAIN BREAK #2		
Building an Arts Magnet School	Bobby Riley & Judy Kilma	🌐
Put on Your Math Goggles: Seeing Math in Art	Robin Ward	🌐
PM Design Brain-Friendly Learning Spaces	Erin Klein	🌐
1:50PM BRAIN BREAK #3		

BIG SALE



FUNDAMENTAL TENETS

AUSTERE BY DESIGN

COLLABORATION IS EXPECTED

BOUNDED, NOT CONTROLLED


DEVELOP NOW!

FAILURE = LEARNING

INCLUSIVE



General Location

- McMillan Airfield at Camp Roberts
 - Closest Town: Paso Robles, Atascadero, San Luis Obispo
 - Closest Airports: San Luis Obispo (45m), Monterey (1h30m), Bakersfield (2h), San Jose (2h15m), SF (2h40m)
- 
- A large yellow triangle is positioned in the bottom right corner of the slide, pointing towards the top right.

Event Location

The image is a screenshot of a Google Maps interface. On the left, a white information panel displays the following details for the location 'NPS Field Laboratory at McMillan Airfield':

- Title:** NPS Field Laboratory at McMillan Airfield
- Type:** Federal government office
- Navigation:** Overview (selected), About
- Actions:** Directions, Save, Nearby, Send to phone, Share
- Address:** California 93446
- Coordinates:** P68P+4C Lake Nacimiento, California
- Options:** Send to your phone, Claim this business, Add a label
- Footer:** Suggest an edit

On the right, a satellite-style map shows the location. A red pin is placed on a road labeled 'E Perimeter Rd'. The road branches into two directions. The Google logo is visible in the bottom right corner of the map area.

Event Schedule

Monday 0900 Venue/Registration Opens
:
1000 Event Kick-Off Brief*
Frequency Verifications
Experimentation
1630 Afternoon Debrief*

Tuesday: 0730 Venue/Registration Opens
0800 Morning Brief*
0830 Flyers Meeting
Experimentation
1630 Afternoon Debrief*

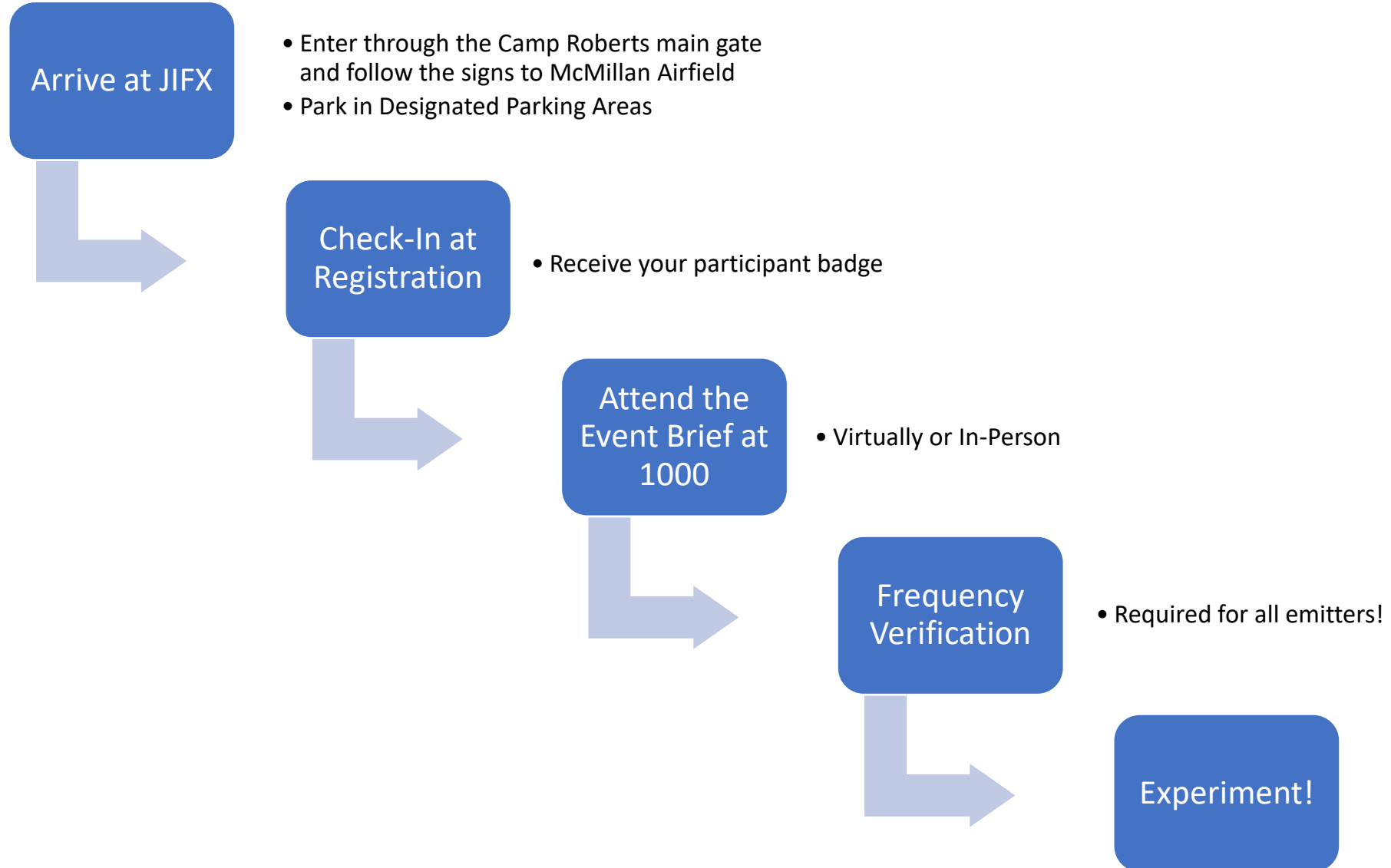
Wed. 0730 Venue/Registration Opens
0800 Morning Brief*
0830 Flyers Meeting
Experimentation
1630 Afternoon debrief*

Thurs. 0730 Venue/Registration Opens
0800 Morning Brief*
0830 Flyers Meeting
Experimentation
1200 Event Closing Brief*
Further Experimentation (Coord Req'd)

Fri. Clean-up//Experimentation (Coord Req'd)

*All Briefs will be broadcast for virtual participation.










Monday Schedule



Registration & Gate Access

- Registration is required for all participants
 - www.nps.edu/web/fx/register
 - Be sure to scroll all the way through the safety brief!
 - Non-US Citizens Registration deadline: 9 October 2023

Badges

 <p>Staff</p> 	 <p>Stakeholder</p> 
 <p>Government</p>	 <p>Private Industry / Academia</p> 
 <p>Foreign National</p> 	



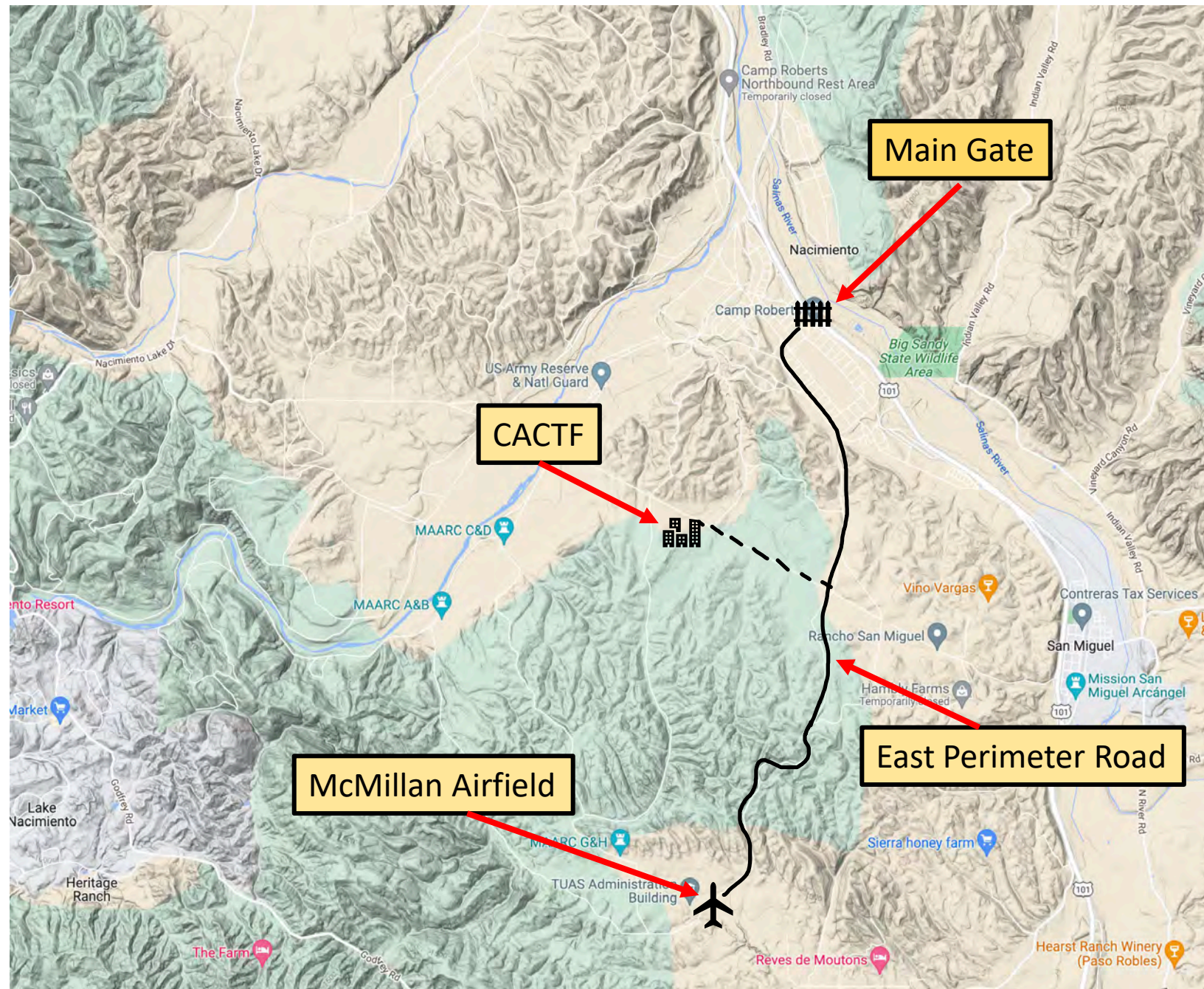
Camp Roberts Facilities: McMillan Airfield



Camp Roberts Facilities: Combined Arms Collective Training Facility (CACTF)

26-acre full-scale urban operations training facility including a mock church, police station with underground jail, three-story hotel, businesses, residential buildings, underground tunnels, and a rubble pile.

Camp Roberts Orientation



McMillan Airfield

Runway



SIP
Hut

Briefing
Trailer

Vehicle Barn

Hangar

TOC

Registration

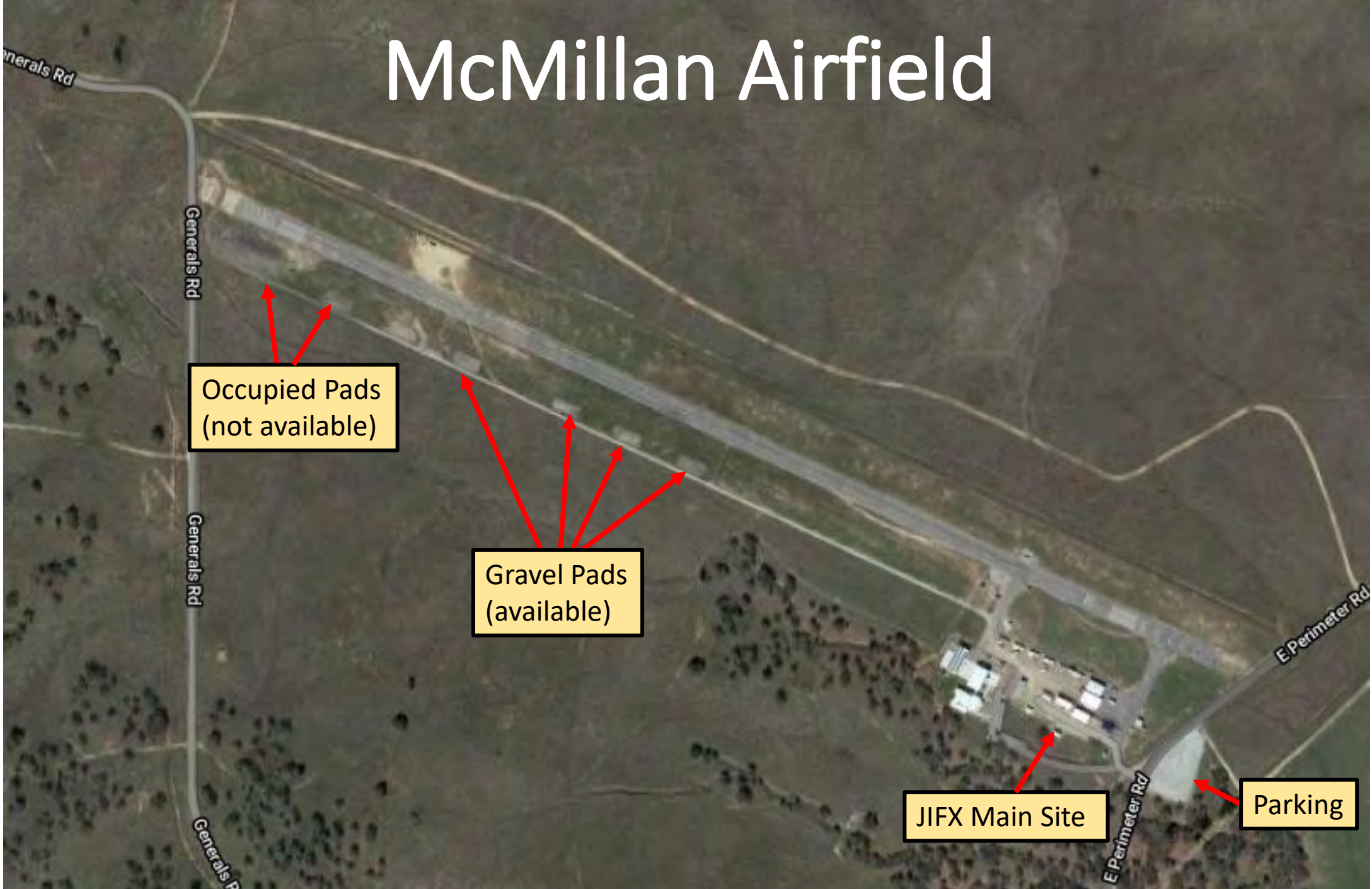
Restrooms

E Perimeter Rd

Parking



McMillan Airfield



Occupied Pads
(not available)

Gravel Pads
(available)

JIFX Main Site

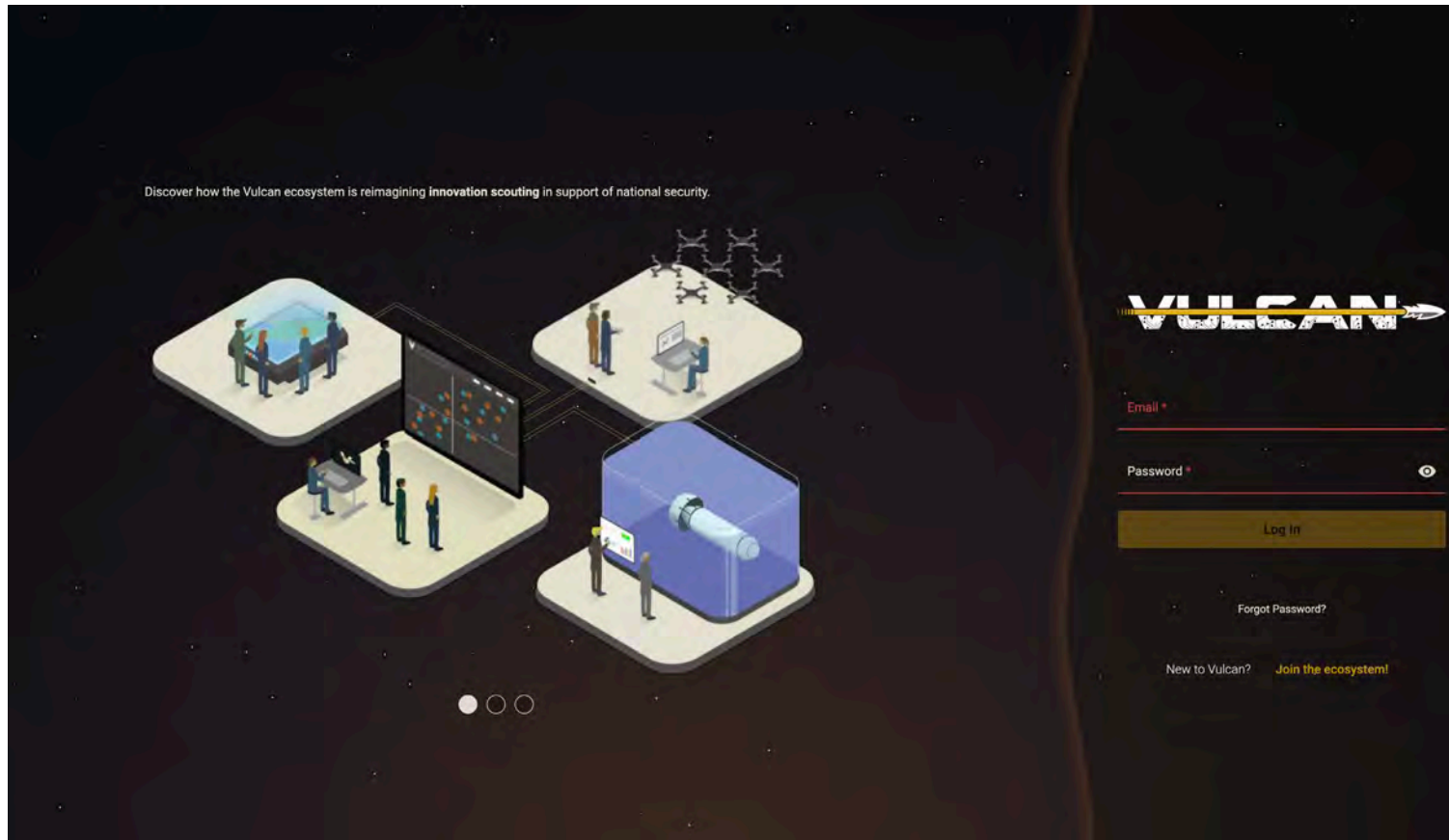
Parking

Event Info



- Weather
 - **Be prepared for arid climate!**
 - Cold nights, warm days
 - Fires are a major concern
- Emergencies
 - **Emergency Services are 30-45 minutes away**
 - Emergency Phone Numbers will be on the back of all participant name badge
- Food options limited: bring what you need
- Hazmat: *pack out what you bring in!*

Vulcan



- Please set up a Vulcan account and create a scout card for your technology at www.Vulcan-sof.com

JIFX Networks



Communications

Local IP networking (Ethernet, WiFi)

- McMillan Airfield
- CACTF

**Limited Internet
connectivity**




Information Technology (Camp Roberts)

Printing @ McMillan Airfield

Tactical Assault Kit (TAK)

**Cursor-on-Target
debugging/routing**

Before You Connect...

- JIFX network is intended for:
 - Event administration
 - Rapid collaboration & integration
 - Acceptable use:
 - Respect others' operations, privacy, security
 - No malicious activity
 - Consult your organization's IT & security policies before connecting
 - Coordinate with network manager before connecting systems (Joseph Lukefahr)
- 
- A yellow triangular graphic is located in the bottom right corner of the slide, pointing towards the top right.

Shipping

Parcel Service (Individual packages, less than 150 lbs)

NPS Field Laboratory - McMillan Airfield

Attn: (*Your Company / Your Name*)

Bldg 914, Shipping & Receiving

Camp Roberts, CA 93451-5000

Ph 805-227-1314

Directly to the Airfield: Freight

NPS Field Laboratory - McMillan Airfield

Attn: (*Your Company / Your Name*)

McMillan Airfield, East Perimeter Rd

Camp Roberts, CA 93451-5000

Ph 805-227-1314

Addresses are posted on
the website!

www.nps.edu/fx

Air Operations



Range Flag

No flight operations are permitted unless the RED RANGE FLAG is flying. The airspace is considered “HOT” when the flag is raised.

- An “Airboss” will manage all UAVS and always maintain safety in the airspace.
 - **Prior to radiating – you need airboss approval!**
 - **Prior to take-off – you need airboss approval!**
 - **Prior to landing – you need airboss approval!**
- All UAVs and Frequency Emitting devices must be verified by the airboss prior to flight approval. Expect to complete this on Monday or Tuesday of JIFX week.
- All airboss communication will be down over the JIFX radio network.
- All event participants (on foot or on vehicle) must remain clear of the active runway and at all times unless first cleared by the Air Boss.

Airspace Safety



Found on “Upcoming Events” Page
(links below)

- [Airspace Control Plan \(ACP\)](#)
- [Pre-Mishap Plan \(PMP\)](#)

Airspace Control Plan (ACP)

This **Airspace Control Plan (ACP)** outlines airspace procedures for NPS activities aboard Camp Roberts CA ARNG base and within Restricted Area R-2504A/B. The ACP is directive for all NPS JIFX event participants.

Airspace Boundaries and Buffers must be displayed on your Ground Control Station (GCS)

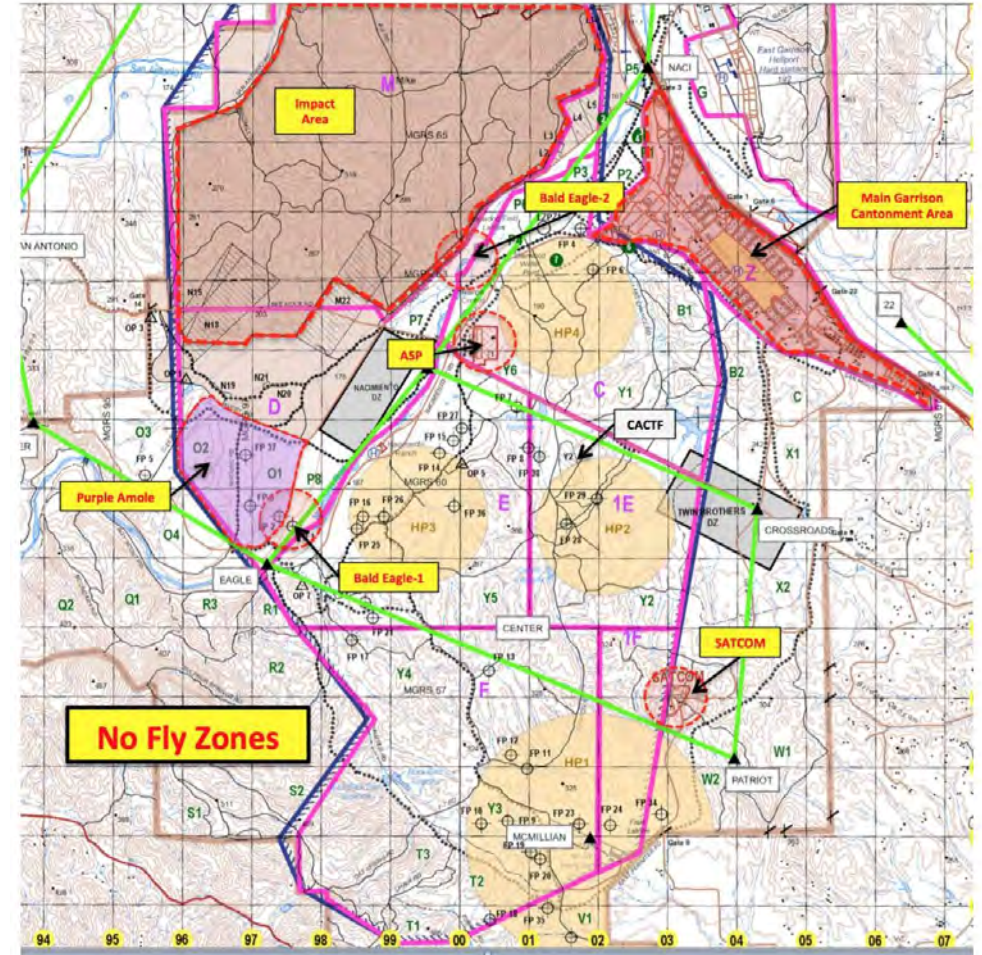


Figure 3: Camp Roberts Restricted Operating Zones (A-F, M, Z), No Fly Zones, and Holding Points within the R-2504

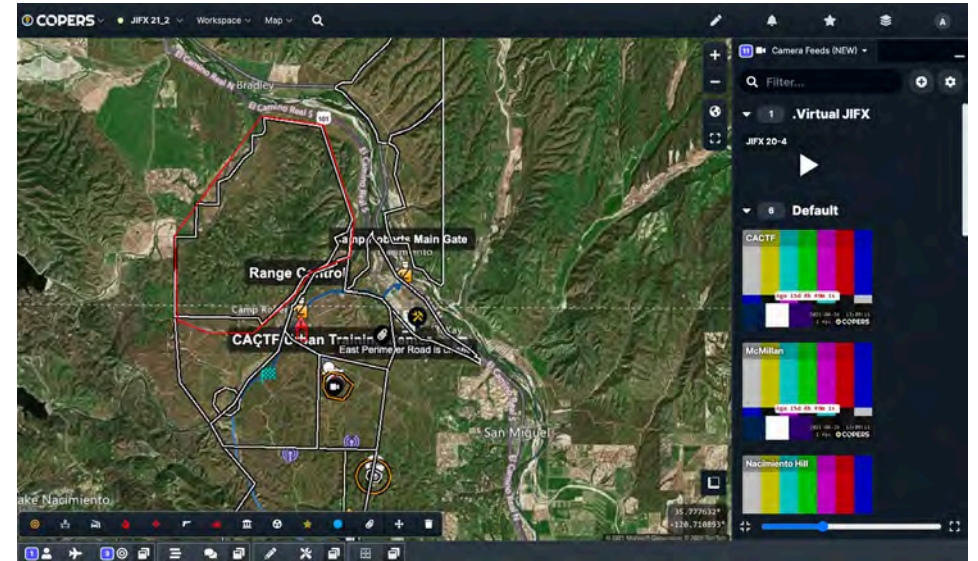
Pre-Mishap Plan

The PMP established procedures that will assist personnel immediately following a mishap.

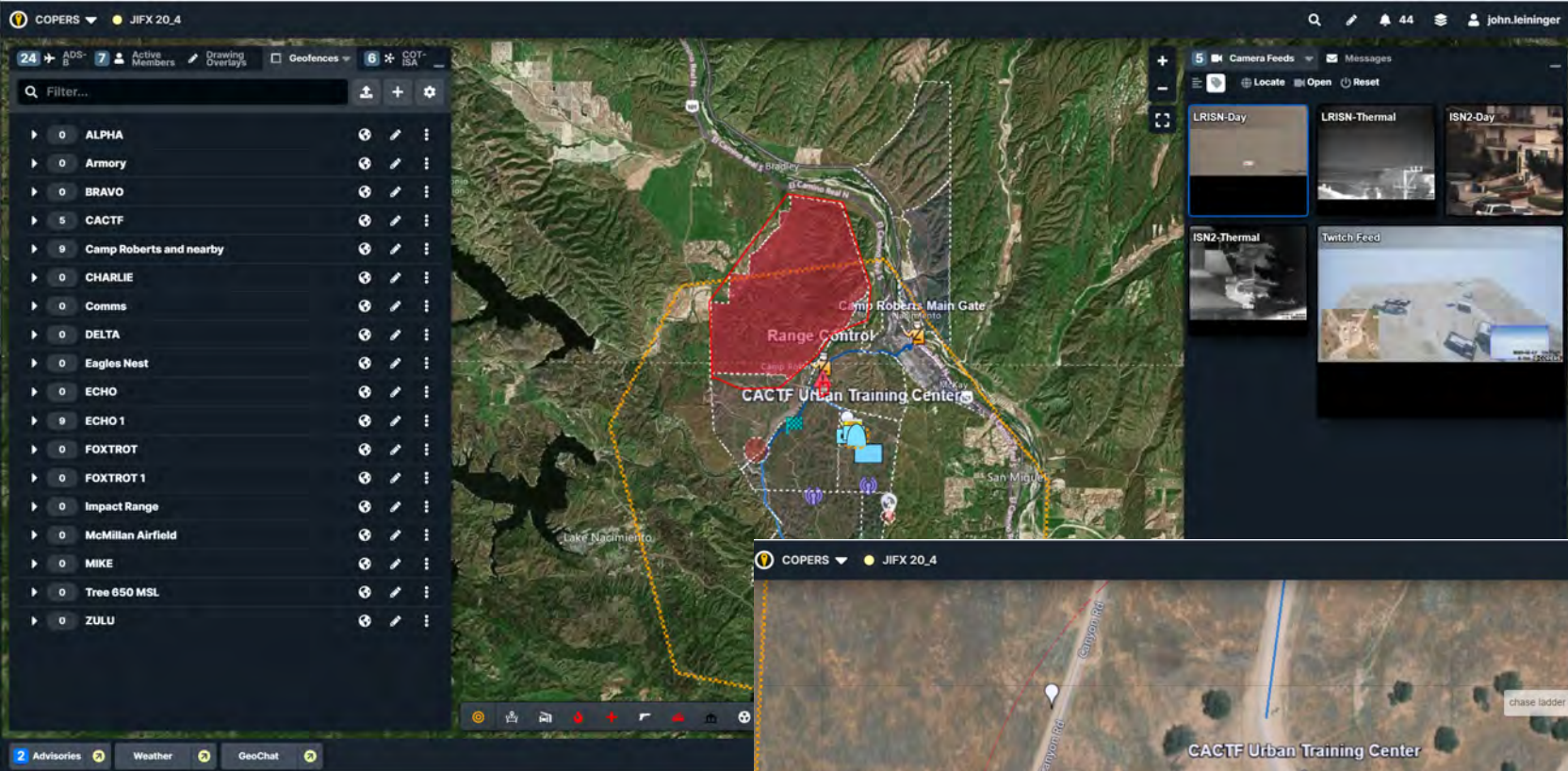
“In case of a mishap, or any unintended impact with the ground or another vehicle, the flying unit will immediately notify the Air Boss via Radio or phone.”

COPERS

- COPERS Common Operating Picture (COP) provides real-time situational awareness of your connected experiment, team and equipment.
- COPERS provides a broad array of tools and integrations including:
 - Cursor on Target (CoT)
 - Android Team Awareness Kit (ATAK)
 - ADS-B
 - Geofencing
 - Ad hoc shared map drawing
 - geochat among ATAK devices and COPERS Users
 - Biomedical sensor status
 - Cameras feeds and live streams
 - Forms and checklists
 - Equipment management



<http://copers.tdkc.com/>



<http://copers.tdkc.com/>



COPERS – JIFX Integration

- Group logins available for each Experiment
- ADS-B
- Cursor on Target Integration
- Live Stream
 - YouTube
 - Twitch
- Camera Feeds
 - 1 connection between the camera feed and COPERS
 - Typically configured for, low frame rates (~1 frame / sec) to COPERS

Experiment Introductions

- Introduction of Experiment (1-2 minutes each)
 - What is your technology
 - What is your experiment
 - How can you support other experiments?
 - How can other experiments integrate with you?
 - Share your contact info in the chat

You can find the roster of technologies and quad charts summarizing the proposed experiments on the JIFX website “Upcoming Events” page <https://nps.edu/web/fx/upcoming-jifx>



Questions?

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