



"In the middle of difficulty lies opportunity"

*Albert Einstein*



# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS Campaigning with Partners for Integrated Deterrence

**COL Jarret Mathews**, Joint Acquisition Task Force Director

Controlled by: HQ USSOCOM/SOFAT&L  
Distribution/Dissemination Control: Distribution Unlimited  
POC: LCDR Steven Hyde [steven.hyde@socom.mil](mailto:steven.hyde@socom.mil)



# AGENDA

- Organizational Overview
- Operational Overview
- Operational Environment (OE)
- HEO Framework
- Lines of Effort
- 7th SFG(A) Partnership
- How to Get Involved

# JOINT ACQUISITION TASK FORCE (JATF)

## PEOPLE

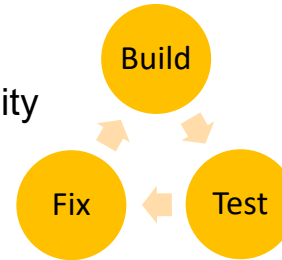


## PROCESS



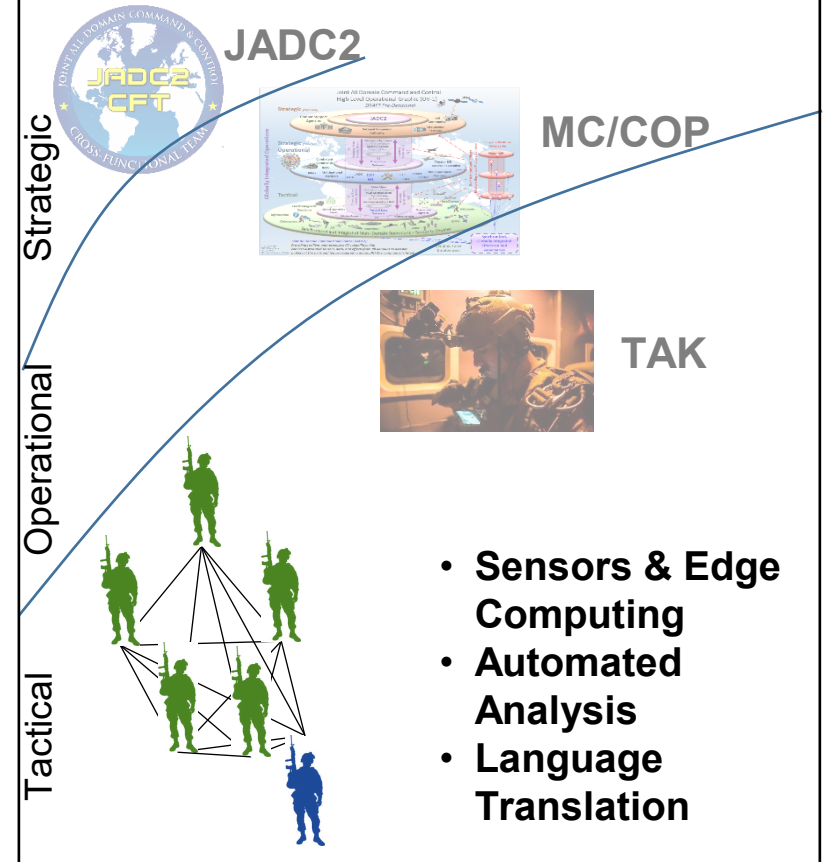
7<sup>th</sup> SFG(A) innovation partners. Nested within component priorities

Rapid prototype development; capability dev 1-3 years



Flexible contract arrangements with key industry partners combined with "in-house" prototyping and coding expertise

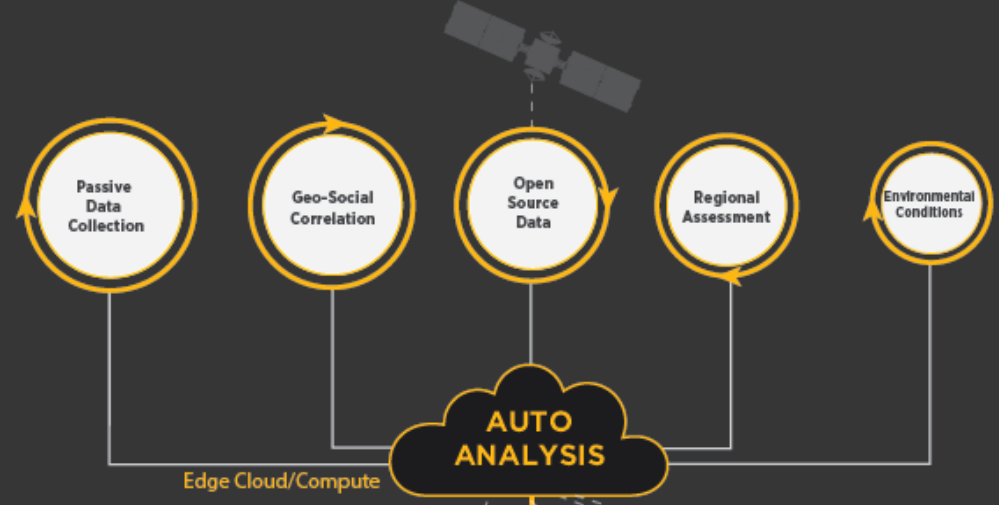
## PRODUCTS



*Rapid prototyping and proof of concept capability that informs and enhances the larger SOF acquisition effort*

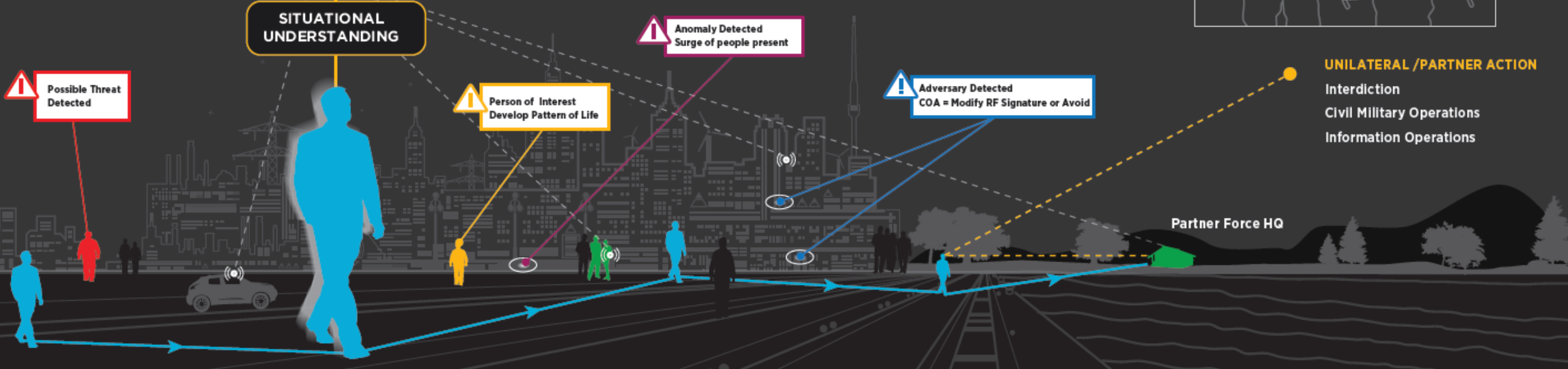
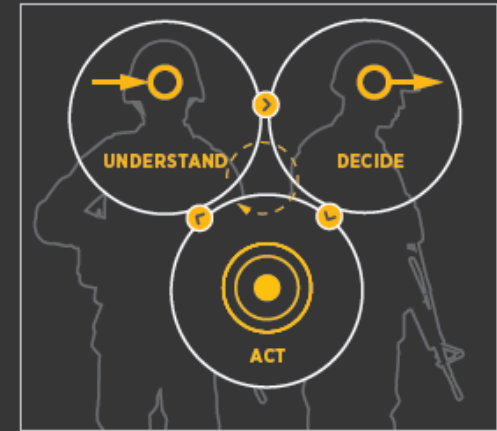
# HEO - Hyper-Enabled Operator at The Edge

• **Mission** Foreign Internal Defense • **Campaign** Irregular Warfare • **Strategic Objective** Integrated Deterrence



## Relevant Selectable Layers for Situational Understanding

- Anomaly Detection for Force Protection
- Dynamic Route Optimization
- Person of Interest Pattern
- Pattern-of-Life Development
- Actionable Intelligence



## UNILATERAL /PARTNER ACTION

- Interdiction
- Civil Military Operations
- Information Operations



Combining What's Technically Possible with What's Tactically Relevant



# HYPER ENABLED OPERATOR

## Mission

- Improve the quality and speed of USSOF Operator decision making at the edge

## Vision

- Achieve situational understanding and decision-making dominance across multiple domains in order to gain and maintain the initiative

## Current Focus

- Operational Environment (OE): Other than Declared Theaters of Conflict (ODTAC)
- Integrated Deterrence
- Support to the Joint Force (CONPLANS, OPLANS)
- Operating by, with and through partners and allies
- HEO in an intermittent or denied SATCOM environment

} Influence, Access  
Emplacement, and  
Deterrence

***Hyper-enabling the USSOF Operator in the cognitive domain, allowing them to make better informed decisions faster***

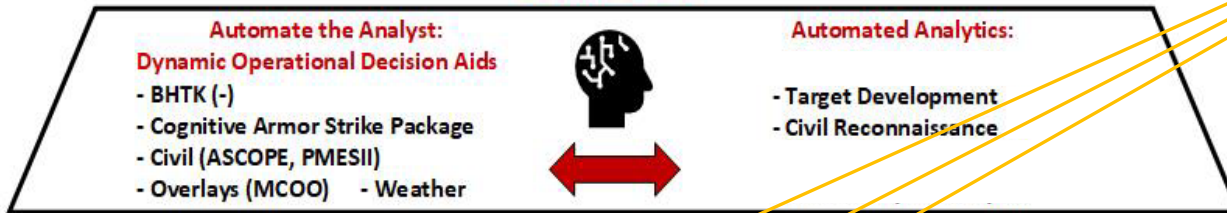
# HEO FRAMEWORK



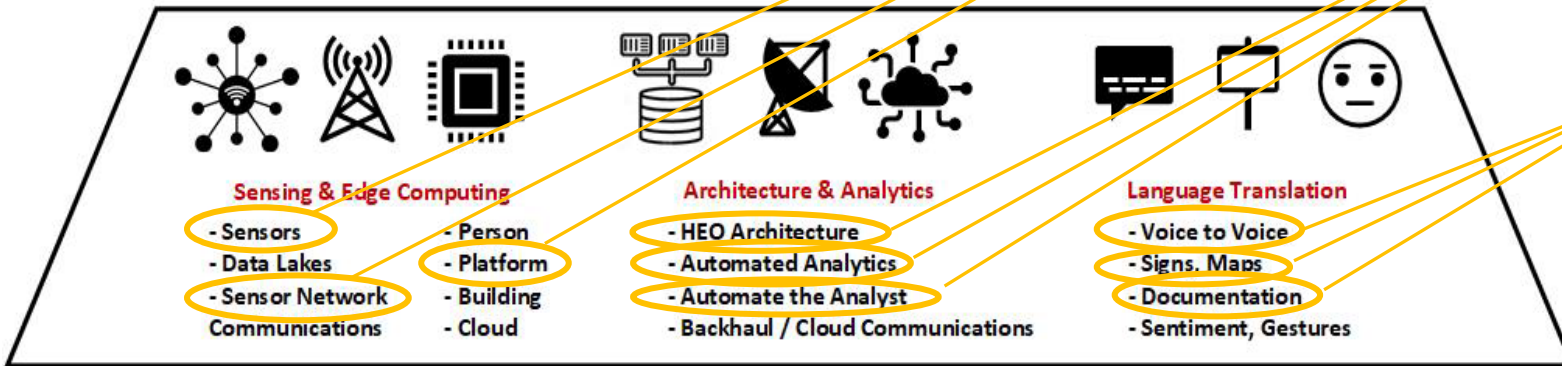
## DECIDE



## ORIENT



## OBSERVE



## FY22 LOEs

Sensing and Edge Compute

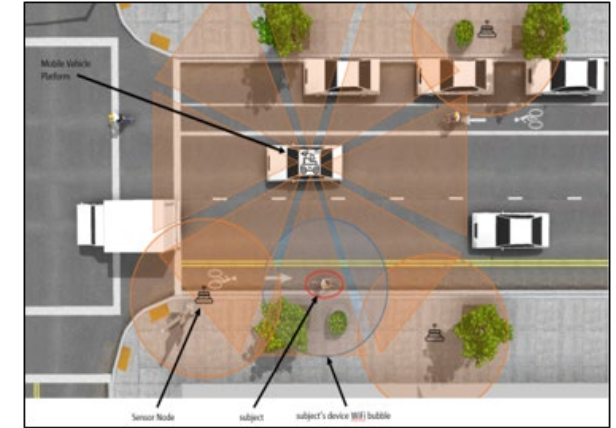
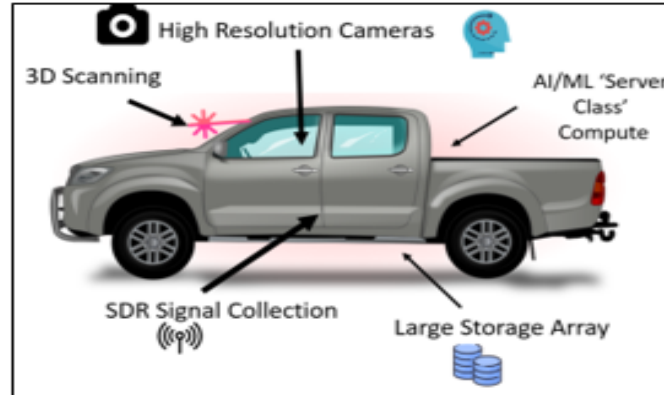
Architecture and Analysis

Language Translation

# LINES OF EFFORT

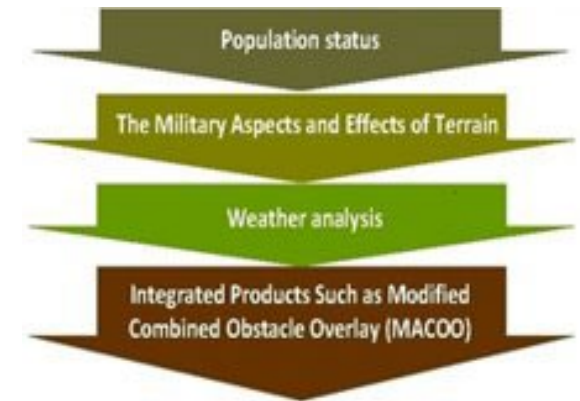
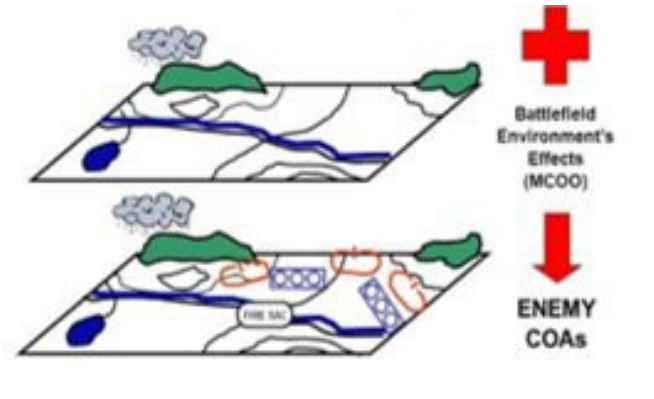
## Sensing & Edge Computing

- Mobile Collection Platform (MCP)
- Distributed Sensor Network (DSN)
  - SEEKER App on Android



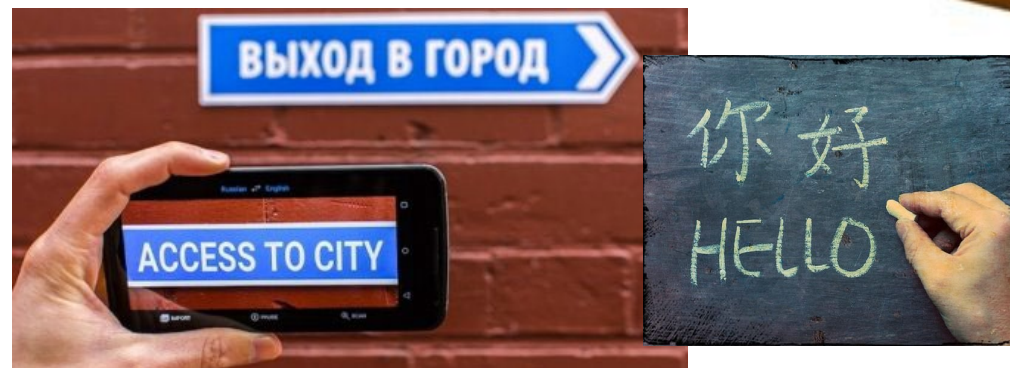
## Architecture & Analysis

- Automate the Analyst (Intell products)
- Automated Analytics (Msn Specific)



## Language Translation

- Voice to Voice (V2V)
- Optical Character Recognition (OCR)



# JATF - 7TH SFG(A) PARTNERSHIP



WiFi Hotspot 6110

5/3/2021, 8:01:21 PM  
 (33.92363, -116.64451)  
 HEO Node: GSPuck201

**Devices**

- WiFi Hotspot 6110

ID: **F0:3D:4D:F2:6F:00**

Name: WiFi Hotspot 6110

Physical Interface: IEEE 802.11

Device Type: ?

Manufacturer: Unknown





# JATF - 7TH SFG(A) PARTNERSHIP – PROJECT DIVERGENCE

## What is it?

- Project Divergence is a Campaign of Learning to continually test, evaluate and validate SOCOM's functional needs analysis for Integrated Deterrence in a UTS environment.

## What are the Opportunities

- SOCOM receives SOF validated Capability Gaps focused on Integrated Deterrence across all DOTMLPF solutions.
- SOCOM gains further understanding of SOF operations in Smart Cities
- SOCOM understands SOF's role in Integrated Deterrence
- SOCOM can integrate Rapid Prototyping initiatives for further development.

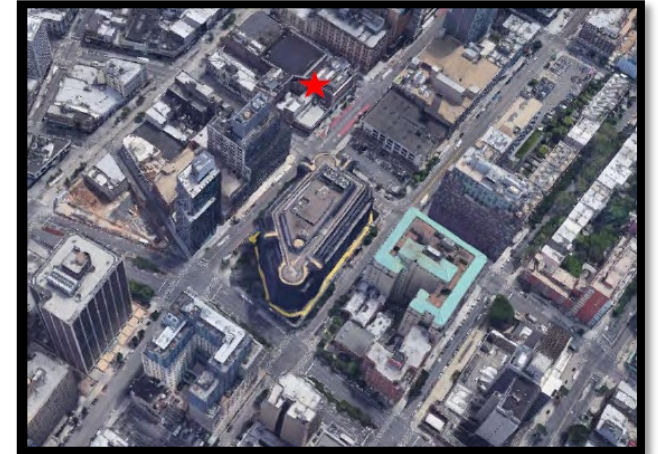
## Material Technical Experiment

Task: Understand Operational Environment

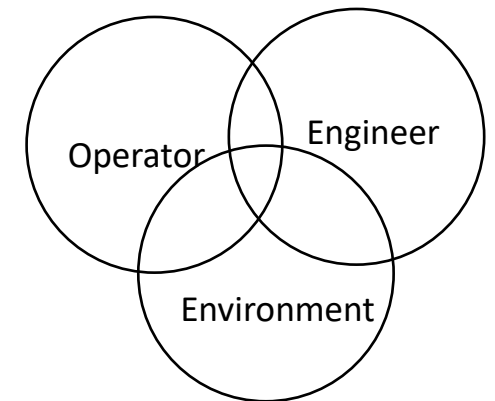
Purpose: Increase the Kill Chain within a Smart/Safe City for Integrated Deterrence.

## Technical Industry Partners

- Integrated Tactical Edge Sensor network providing situational awareness and cognitive overmatch.
- Open Source automated analytical tool to provide real time analytics to increase decision making at the speed of information.
- Mixed Reality for Operator visualization to develop a shared understanding of the operational environment in AR/VR.



Combat Laboratory: Lower Manhattan, NYC



Collaboration for greater Sum

***Campaign of Learning in America's most sophisticated Combat Laboratory (NYC)***

# HOW TO GET INVOLVED

## Request from Industry:

1. How to gather, integrate, and format the right data?
2. How to securely transmit, process, and analyze data to produce timely understanding at the edge?
3. How to automatically integrate language translation capabilities at the edge.

## Partnership Lense:

1. Criticality to Current Projects
2. TRL 5/6
3. Ability to Integrate within 6-8 months

**Contact Info: Engage SOF (eSOF)**  
813-826-1269, [eSOF@socom.mil](mailto:eSOF@socom.mil)

# QUESTIONS

