



# SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS EXPANDING THE COMPETITIVE SPACE

PM - Technical Collection and Communications (TCC)





# PEO-SPECIAL RECONNAISSANCE MISSION

Lead the rapid and focused acquisition of state-of-the-art sensors and associated C2, emplacement, recovery, and specialized communication systems across all domains to enable total situational awareness for the SOF Warfighter



### Pillars of Special Reconnaissance\*

- Complements national & theater intel collection
- Supported by SIGINT, HUMINT, TTL
- Used for target ID, acquisition, tracking & post-strike reconnaissance
- Uses unmanned collection capabilities to provide persistent, high-fidelity intelligence

\* Per Joint Pub 3-05

### Capability Development Areas

- Next-Gen Unattended Sensors
- Flexible, Tactical SIGINT
- Small Tactical Unmanned Systems
- Space-Based Collection, C2, Data Exfiltration
- Standoff Biometrics & Forensics
- Collaborative Special Reconnaissance



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SOCNORTH



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SOCKOR



SOCAFICA



# PM TECHNICAL COLLECTION & COMMUNICATIONS (PM-TCC)

Develop, field and sustain credible special reconnaissance, surveillance, and communication capabilities that support the SOF Operator missions to include: Tagging, Tracking, and Locating of enemy assets; capturing and transferring of near-real time ground based tactical imagery and video; providing non-traditional communications capabilities for low density and sensitive missions; and providing battlefield visualization and situational awareness through remotely tracking and monitoring SOF Operators



## Technical Collection & Communication Enabling SR Portfolio

- Tagging, Tracking and Locating – SOF, Hostile and Partner Forces
- Target identification and threat assessment
- Collect and provide near-real time imagery (stills, video, audio) and sensor data
- Information for situational awareness and de-confliction

## Capability Development Areas

- Next-Gen Unattended Sensors (Ground & Maritime)
- Alternative PNT Tracking Solutions
- Non-Traditional Sensor Emplacement Techniques
- Collaborative Special Reconnaissance
- Space-Based Collection, C2, Data Exfiltration



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Hostile-Forces  
TTL

## Capability Description

The Hostile Forces – Tagging, Tracking, and Locating program acquires and fields capabilities to tag, track, and locate targets such as personnel, mobility platforms, and objects using clandestinely employed devices with low probability of interception and low probability of detection

## Operational Relevance

Support SOF technical collection missions through the development, acquisition, and fielding of tracking and close target reconnaissance capabilities and their associated detection, interrogation, viewing, and communications systems

## Technology Insertion Initiatives

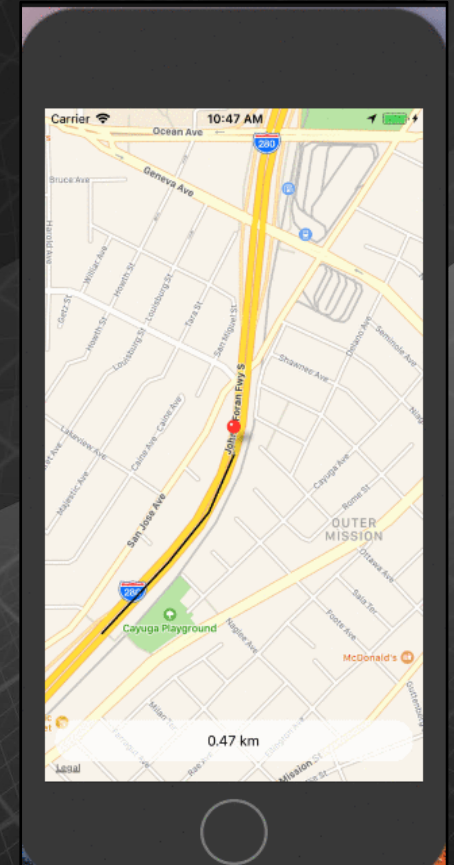
Near (1-2yrs): LPI/LPD Exfil

Mid (3-5yrs): Resilient PLI

Far (6+yrs): Telematics/RF Fingerprint

## Industry Engagement Opportunities

Engage SOF (eSOF), S&T Technical Experimentation (TE) Events, Special Operations Forces Works (SOFWERX), and Defense Innovation Unit (DIU)



Hostile Forces –  
Tagging, Tracking, & Locating

Blue Force  
Tracking**Capability Description**

The Blue Force Tracking program fields a family of devices used to :

- Remotely track and monitor SOF Blue Forces
- Enhance Command and Control, threat warning, force protection, situational awareness, battlefield visualization, counter-fratricide, and combat Personnel Recovery

**Operational Relevance**

Provides stand-alone SOF-peculiar capabilities for Situational Awareness and Command and Control in austere environments

**Technology Insertion Initiatives**

Near (1-2yrs): Next Generation BFT Device  
Standalone PR Device

Mid (3-5yrs): Infil/Exfil Enhancements  
Far (6+yrs): AI/Ubiquitous Device

**Industry Engagement Opportunities**

SOFWERX/DIU/S&T

OGA RFP for Next Generation device to be released via Classified means during mid-2022



# Tactical Video Systems / Reconnaissance Surveillance Target Acquisition

## Tactical Video Systems

### Capability Description

Tactical Video Systems consist of interoperable equipment to capture and transfer near-real-time ground-based, tactical day/night/reduced visibility, imagery, video, and electronic proximity and movement sensing, all capable of dissemination through SOF organic, global C4I, and commercial communications infrastructures

### Operational Relevance

Tactical Video Systems consist of interoperable equipment to capture and transfer near-real-time ground-based, tactical day/night/reduced visibility, imagery, video, and electronic proximity and movement sensing, all capable of dissemination through SOF organic, global C4I, and commercial communications infrastructures

### Technology Insertion Initiatives

Near (1-2yrs): Next Generation Small, Rugged, reduced signature concepts for Multi Modal Sensors (e.g., video, acoustic, seismic, magnetic, PIR, EO, etc.)

Unattended Sensors for Maritime

Awareness Systems

Mid (3-5yrs): Automated detection, identification, and localization capabilities.

Far (6+yrs): Non-traditional emplacement methods

### Industry Engagement Opportunities

SOFWERX events and Technical Experimentation Events (TE) hosted by S&T

(date TBD-late Feb-early March 2023)



Remote Advise  
& Assist

### Capability Description

SOF operators require the capability to harness technologies to improve RAA mission sets with Partnered Forces (PF). This capability serves as a force multiplier in support of effective mission command in support of SOF missions

### Operational Relevance

RAA-VAK will provide SOF commanders, staff, and operators access to near-real-time information and support activities such as mission planning and execution, while SOF operators remain at the last covered and concealed position, outside the maximum effective range of small arms fire

### Technology Insertion Initiatives

Near (1-2yrs): Dismounted RAA-VAK;

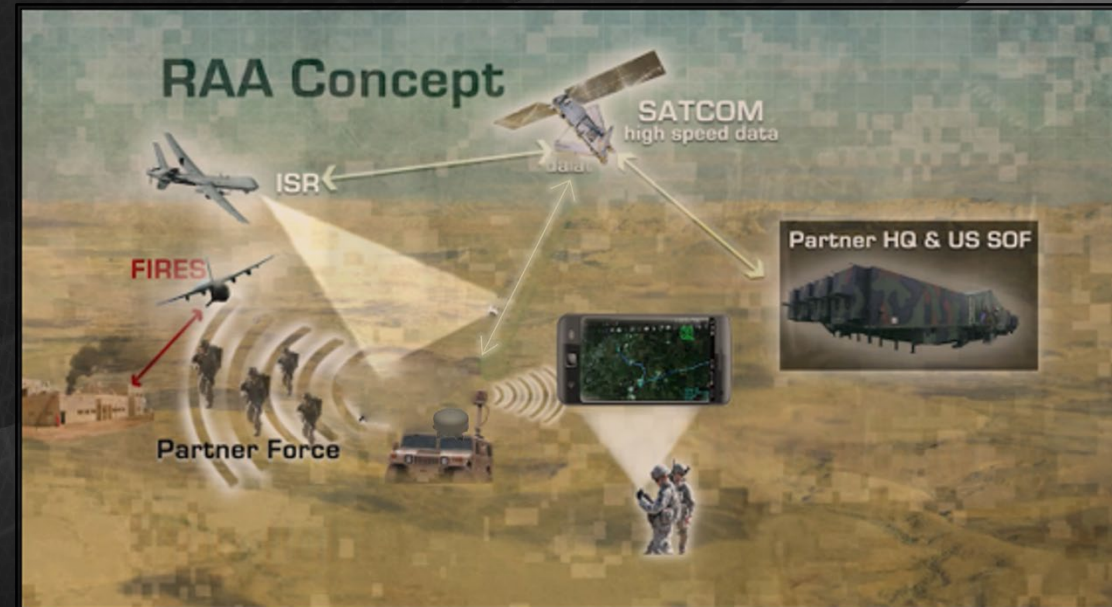
ITAR-compliant extended comm methods in various topologies

Mid (3-5yrs): ITAR-compliant NEXGEN backhaul solution beyond SATCOM & cell

Far (6+yrs): ITAR-compliant NEXGEN backhaul solution beyond SATCOM & cell

### Industry Engagement Opportunities

Engage SOF (eSOF), S&T Technical Experimentation Events, and Special Operations Forces Works (SOFWERX)



Remote Advise & Assist - Virtual  
Accompany Kit