

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. David Breede

Program Executive Officer

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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Program Executive Office Special Reconnaissance, Surveillance, and Exploitation

SOF PRIORITIES

Ensure SOF Readiness Right People / Skills / Capabilities

Help Our Nation Win

Provide a Diverse Portfolio of Capabilities Sustainment Focused on Readiness

Continue To Build Relationships

Components; Industry; International; & Intelligence Community You Can't Surge Trust

Prepare For The Future

Accept & Adapt to Rapidly Evolving Future Develop Concepts That Challenge Our Organizational Construct

Preserve Our Force and Families

Take Care of Our People



Program Executive Office Special Reconnaissance, Surveillance, and Exploitation

PEO SRSE MISSION

Be the recognized and trusted experts for the acquisition of state of the art technical collection and exploitation capabilities for advanced surveillance, reconnaissance, and intelligence systems for the Special Operations Warfighter.

- Agile Acquisition Rapid Fielding & In-Theater Support
 - Quick Reaction Capability
 - Rapid Prototyping
- Extensive Network of Partners to Assist & Advise
 - Intelligence Community
 - Service Labs / PEOs
 - Department of Energy

UNCLASSIFIED **Program Executive Office Special Reconnaissance, Surveillance, and Exploitation**

BFT

TECHNICAL COLLECTION SYSTEMS

Hostile Forces – Tagging, Tracking, and Locating (HF-TTL)









Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition









Joint Threat Warning System

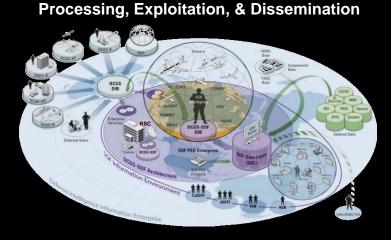








MISSION SUPPORT SYSTEMS



SIGINT PED **GEOINT PED Big Data PED** ٠ Distributed Common Ground/Surface System (DCGS)-SOF

FOCUSED RDT&E

Tagging, Tracking, and Locating



Tactical Exploitation of National Capabilities







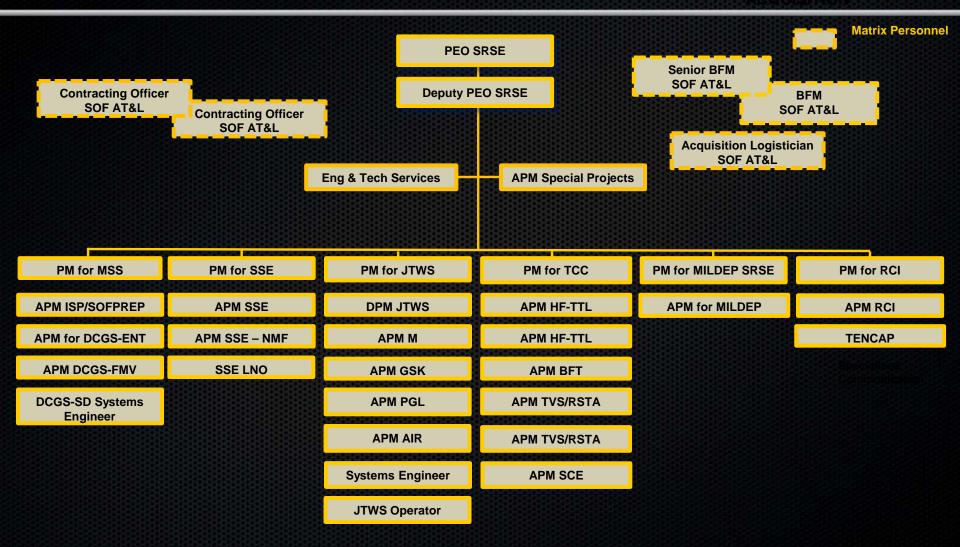


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Specialized Communication

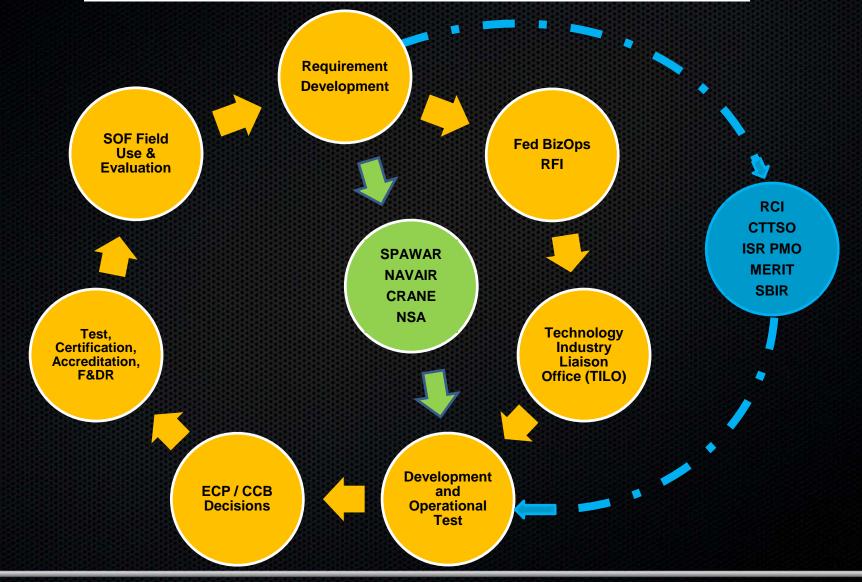
Program Executive Office Special Reconnaissance, Surveillance, and Exploitation



PEO SRSE Capability Evolution

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Capability Insertion or Replacement Cycle



Program Executive Office Special Reconnaissance, Surveillance, and Exploitation

PEO SRSE

Intelligence Preparation of the (Acquisition) Battlefield

Define The Environment

- Iraq/Afghanistan to Global Outlook
- Unpredictable Stability
- Uncertain / Evolving Budget

Opportunities

- More Contact with Partner Nations
- Leverage Components; Government Labs;
- Industry

Future Missions

- Support to Foreign / Irregular Forces
- Tailor Portfolio Capabilities for Blue / Green / 'Other'
- Equip & Train Forces
- Transnational Organized Crime

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Program Manager RAPID CAPABILITY INSERTION

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SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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RCI Portfolio

- 72 Active Projects
- Portfolio Supports SRSE PoRs
- Tactical Exploitation of National Capabilities (TENCAP) Projects

Key Events

- Two Annual Program Management Reviews
- Annual Gap Analysis / Broad Agency Announcement
- Trident Spectre Exercise







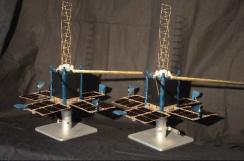
Development Effort:

- Rapid Prototype TTL Capabilities And Reconnaissance Devices Through Applied R&D
- Improve Sensor SWAP-C For Use
 On Group 2 And 3 UAS
- Serve As Command's TENCAP Office And Leverage Existing And Future Space-Related Technologies



FY18

\$ 0.0M



ACQUISITION STRATEGY

 Rapid Prototyping, Technology Demonstrations, Combat Evaluations

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

PERIOD OF PERFORMANCE

 Project Dependent: Focused on 12-18 Month Project Development Cycle

FUNDING

FY17

\$ 0.0M

MILESTONES

Project Dependent

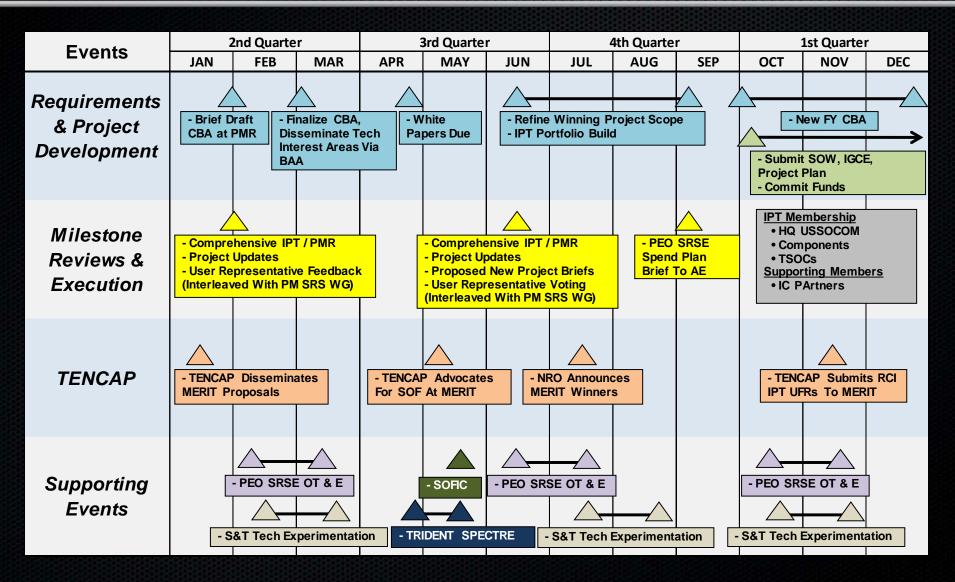
CURRENT CONTRACT/OEM

• Project Dependent

• PROC \$ 0.0M \$ 0.0M • RDT&E \$ 33.6M \$ 35.2M

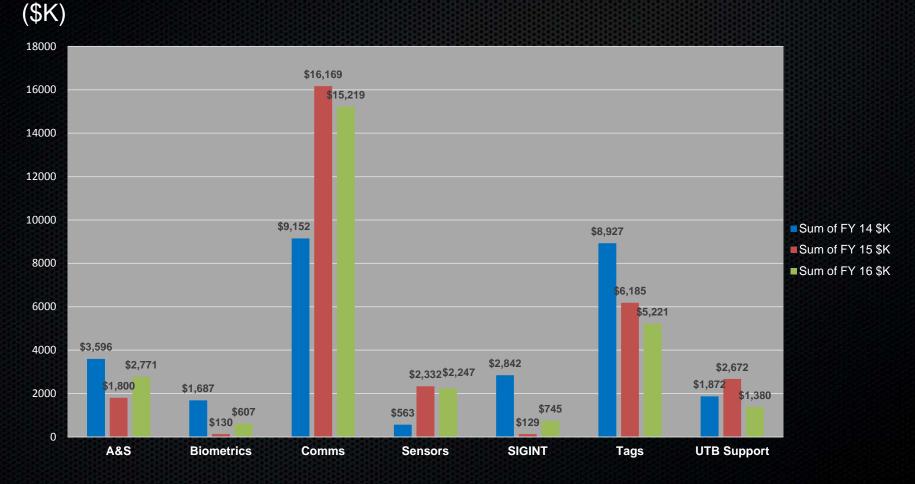
APPROP

• O&M



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FY14 - FY16 Investments



Capability Insertion Opportunities

- SRSE Program of Record Priorities
- Strike balance w/ Leap-Ahead Tech vs. Rapid Incremental Steps
- Novel Combinations of Existing Technologies
- Modular / Multi-Use Components
- Size, Weight and Power Reductions
- Interoperability With Legacy Systems

Why Should You Care?

- RCI Enables Tech Entry Point Into SRSE Programs of Record
- Annually Refreshing Capability Gaps
- Low Barrier To Entry: Broad Agency Announcement
- RCI Partners with Numerous Other Departments and Agencies
- Typical Year: 20-30 Contract Awards, Roughly Half Small Businesses

Tips for a Successful BAA Proposal

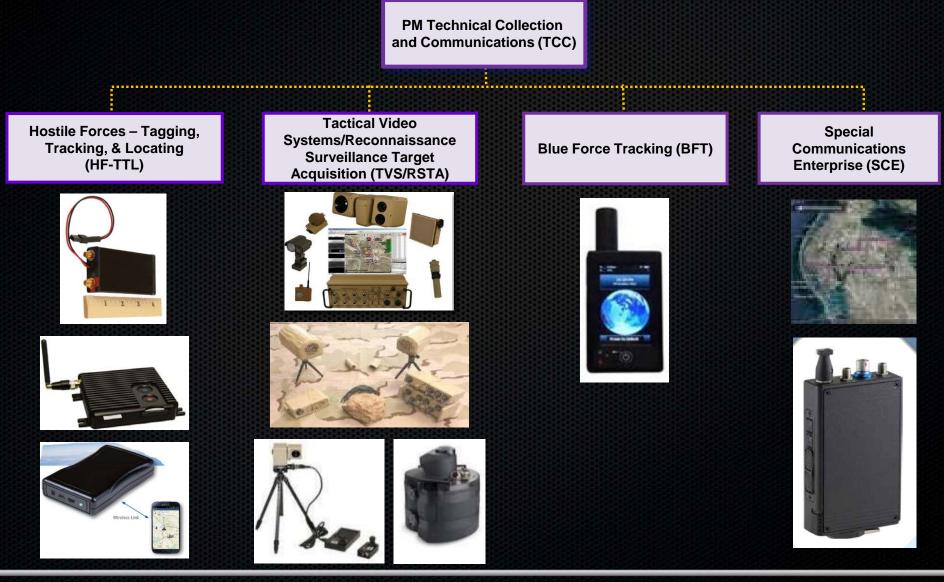
- Propose A Phased Development
- ~12-18 Months Start to Finish
- ~\$1M Effort
- BAA located on FBO.GOV: Search for "USSOCOM-BAAST"
 - SRSE requirements are located in Appendix G-1

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Program Manager TECHNICAL COLLECTION AND COMMUNICATIONS

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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TCC Portfolio

- HF-TTL Mission Sets
- TVS/RSTA Family of Systems
- BFT Family of Systems
- SCE Mission Sets

Key Events

- Two Annual Program Management Reviews
- Three Annual Operational Test and Evaluations
- Two to Three Annual Procurement Cycles



HOSTILE FORCES - TAGGING, TRACKING, & LOCATING (HF-TTL)

Mission Set Fielding to Components and TSOCs:

- Continuously Tailored; Commodity Ordering
- Two/Three Annual Increments

Priorities:

- Quick Reaction Capability (QRC)
- Integration of TTL Payloads on Remotely Piloted Vehicles

ACQUISITION STRATEGY

• Commodity Procurement Project (CPP)

PERIOD OF PERFORMANCE

- Deliver Capability Within 90-Days to 1 Year of Award (Norm)
- QRC Delivers in 14 to 90 Days

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

FUNDING						
<u>APPROP</u>	<u>FY17</u>	<u>FY18</u>				
• O&M	\$19.4M	\$20.1M				
• PROC	\$19.2M	\$19.0M				
• RDT&E	\$ 0.8M	\$ 0.8M				

HF-TTL Portfolio:

- Tag/Track Kits
- Audio Kits
- Video Kits
- Misc Tool Kits

MILESTONES

- Mission Set Kits Procured Annually
- NET Continuously
- Focused Technical Insertion in an Ever-Changing Environment

CURRENT CONTRACT/OEM

- T-REX Multiple Award IDIQ Contract
- Multiple OEMs Contact TILO

TACTICAL VIDEO SYSTEM/RECONNAISSANCE SURVEILLANCE TARGET ACQUISITION (TVS/RSTA)

Kits are Operationally Tailored:

- Support Six Capability Areas
- 9 Variants

Priorities:

- Enhanced Night / Obscured Operations
- Component Interoperability

ACQUISITION STRATEGY

• Commodity Procurement Project (CPP)

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

TVS/RSTA Portfolio:

- Tactical Video System
- RECCE Systems
- Remote Observation Post
- Tactical Sensor
- Unattended Ground Sensors
- Austere Location Force Protection

MILESTONES

- Kit Selection Annually
- NET Continuously
- Capital Equipment Replacement

CURRENT CONTRACT/OEM

- T-REX Multiple Award IDIQ
 Contract
- Multiple OEMs Contact TILO
- FUNDING

 APPROP
 FY17
 FY18

 • O&M
 \$ 9.3M
 \$ 9.7M

 • PROC
 \$ 4.1M
 \$ 3.8M

 • RDT&E
 \$ 0.4M
 \$ 0.4M

PERIOD OF PERFORMANCE

• Deliver Capability Within 90-Days

to 1 Year of Contract Award

(Norm)

BLUE FORCE TRACKER (BFT)

Mission Set Fielding to Components:

 Family of Devices that are Small, Lightweight, Employ Multiple Waveforms, & Have Self-Contained Transmitters

Priorities:

- Multiple Waveform Support; Battery Life; MGUE Integration
- Maximum Benefits Leveraging OGA Efforts

BFT Family of Devices:

- Iridium Based
- Government Off The Shelf (GOTS)

ACQUISITION STRATEGY • Commodity Procurement Project (CPP)	PERIOD OF PERFORMANCE • Varied		MILESTONES • Device Selection Annually • NET Continuously • Capital Equipment Replacement	
POINT OF CONTACT • Technology & Industry Liaison Office • TILO@SOCOM.mil • 813-826-9482	FUNDIN <u>APPROP</u> <u>FY17</u> • O&M \$ 1.4M • PROC \$ 3.4M • RDT&E \$ 0.07M	<u>FY18</u> \$ 1.7M \$ 3.4M	CURRENT CONTRACT/OEM • Multiple – Leveraging OGAs	

Special Communication Enterprise (SCE)

Development Effort:

- MS are continuously tailored based on threat and capability
- Two/Three annual increments

Priorities:

- Providing operationally relevant SC equipment in fluid and unique environment
- Providing low density two way communications with diverse capabilities

SCE Portfolio:

- Field Segment
- Transport Segment
- Enterprise Control Segment
- Base End Segment

ACQUISITION STRATEGY PERIOD OF PERFORMANCE **MILESTONES** Acquisition Category III (ACAT III) MS Selection Annually Varied NET Continuously Technical Insertion to **Maintain Relevancy POINT OF CONTACT FUNDING CURRENT CONTRACT/OEM** Technology & Industry APPROP FY17 FY18 T-REX Multiple Award IDIQ Liaison Office • O&M \$7.0M \$ 9.7M Contract • TILO@SOCOM.mil • PROC \$ 2.9M \$ 4.5M • Multiple OEMs – Contact TILO • 813-826-9482 • RDT&E \$4.5M \$4.7M Leveraging OGAs

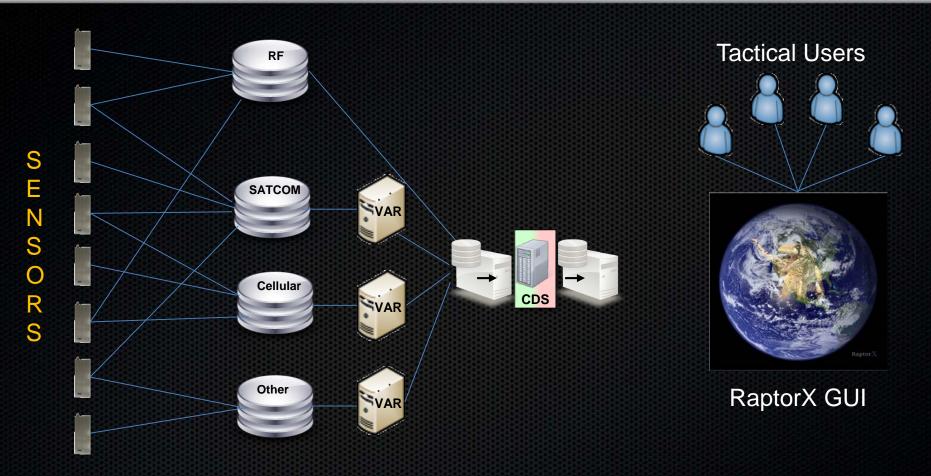
Capability Insertion Opportunities

- Size, Weight and Power Reductions
- Balancing Tailoring with Configuration Management
- Interoperability with Legacy Systems
- Modular / Multi-Use Components
- Technology Refresh in Fluid Environment
- Data Transfer Capabilities
- Image and Video Compression Techniques

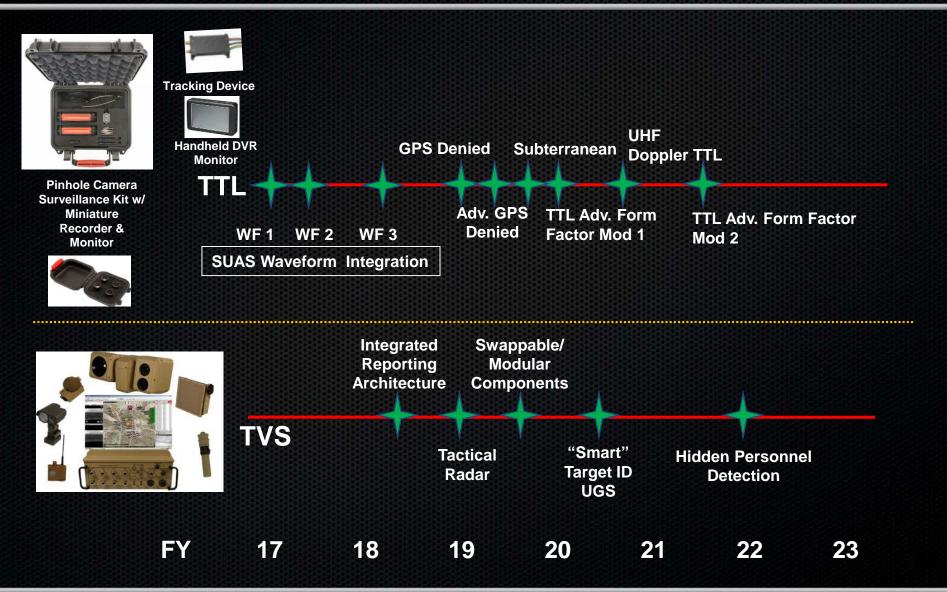
Capability Insertion Opportunities (cont.)

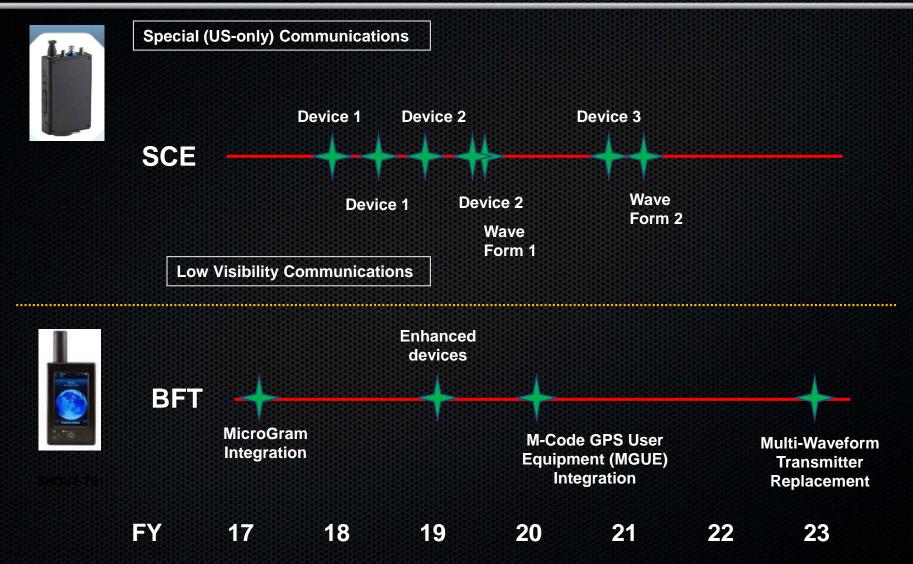
- Tagging, Tracking, and Locating (TTL) Technologies that can be used on Persons and Objects
- Items Critical to Mission Success but often not Part of the Initial Design
- Affordable TVS/RSTA Capabilities for UGS / Surveillance Systems
- BFT Technology that is M-Code Compliant
- Miniaturized Data Transport Segments for Long Distance Transfers

KeyMaker TTL and UGS Data Dissemination



- Provides a system for standardized, consolidated, command and control of technical collection tools
- Allows data to be shared for wide distribution in support of operational requirements while ensuring control of the distribution always remains with the sensor/tags owner





SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

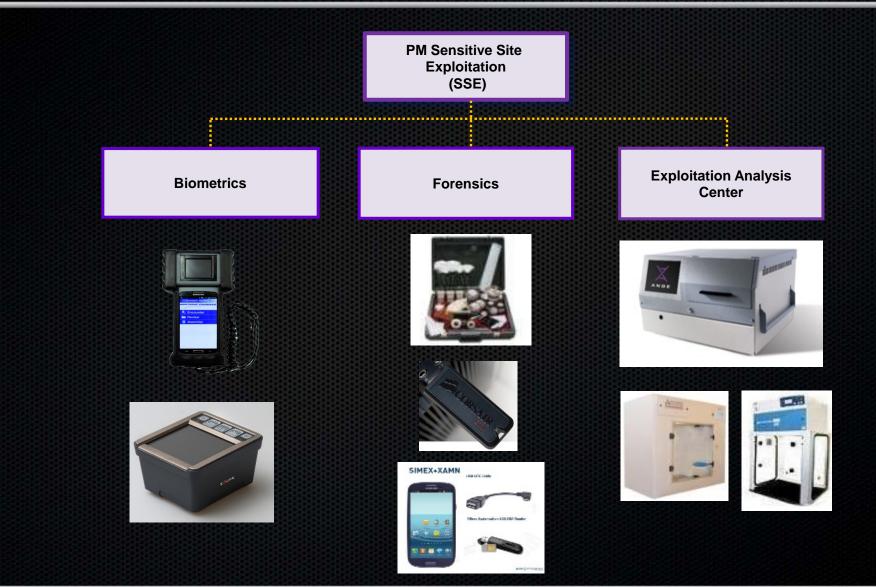
Program Manager SENSITIVE SITE EXPLOITATION

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Program Manager Sensitive Site Exploitation



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Program Manager Sensitive Site Exploitation

Biometrics, Forensics, & Exploitation Analysis Centers

Fielding to Components

- Continuously Tailored
- SOFSA
- NFSTC

SSE Priorities

- On Site Collection of Biometrics
- Verify/Enroll Subjects
- Provide Actionable Intelligence
- Rapid Detection, Collection, & Identification

SSE Portfolio

- ID Kits
- Enrollment Kits
- Operator Advanced Kits
- Enabler Kits
- Exploitation Analysis Centers (EAC) Shelter

ACQUISITION STRATEGY

- Commodity Procurement Project (CPP)
- COTS (and modified versions)

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

PERIOD OF PERFORMANCE

 Deliver Capability Within 90-Days to 1 Year of Award (Norm)

MILESTONES

- Kit Selection semi-annually
- NET Continuously
- Technical Insertion to Maintain Relevancy

CURRENT CONTRACT/OEM

• TREX - Contact TILO

	FU	NDING		
<u>APPROP</u>	<u>FY17</u>		FY18	
• O&M	\$	15.5M	\$	14.1M
• PROC	\$	2.6M	\$	2.4M
• RDT&E	\$	0.2M	\$	0.2M

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EAC Shelter



Latent Print Extraction





Latent Print Fuming Chambers



Latent Print Collection Kit



BattleLite Forensic Lights



Latent Print Copy Station

TracER Laser Lite



AFIX Tracker Latent Print Examiner

Rapid DNA



ANDE 200

Trace Element Analysis



Griffin 460



RapidHIT





AHURA First Defender

AHURA TruDefender



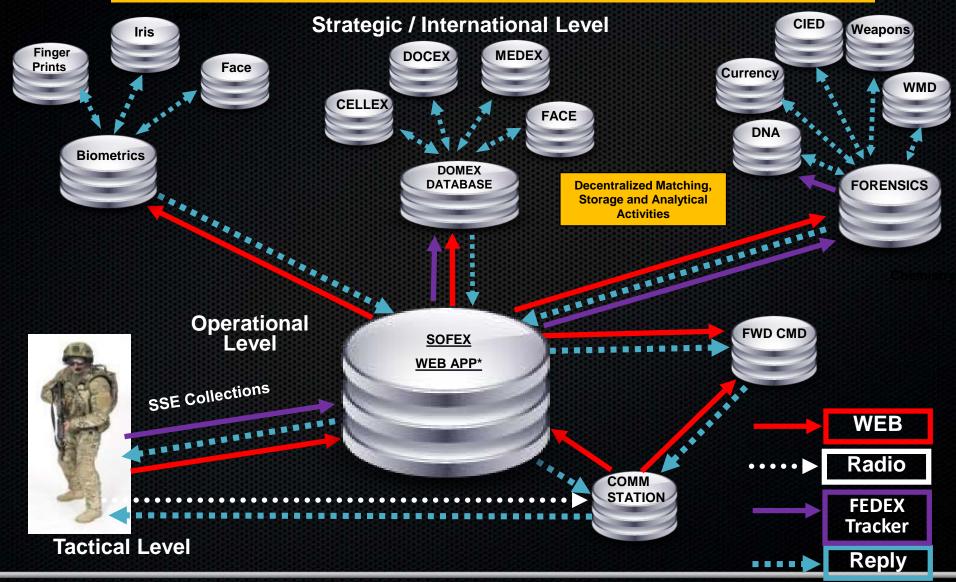
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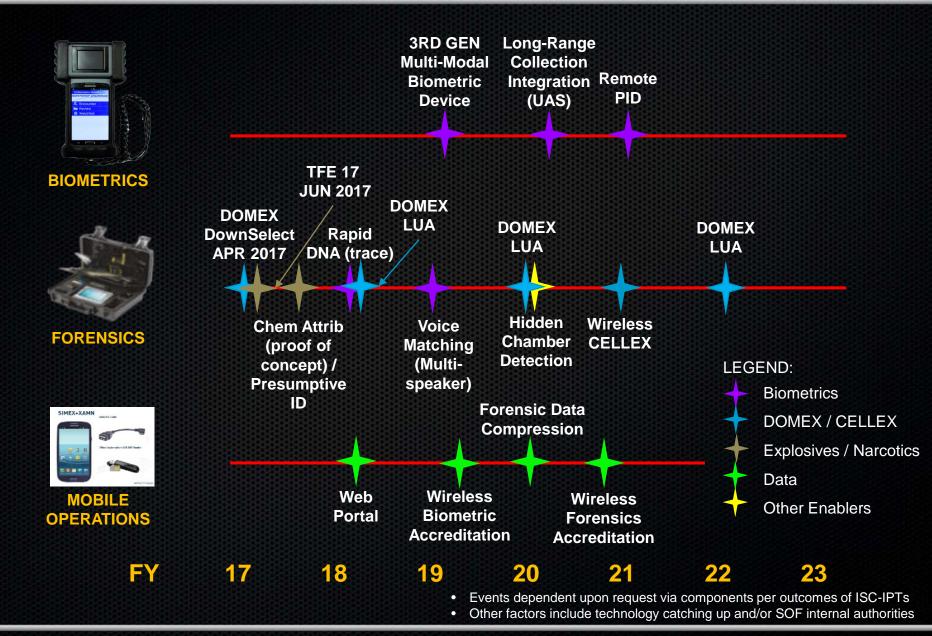


SOF Exploitation Portal

SOFEX Portal Enables Tx/Rx of Intelligence Data



Sensitive Site Exploitation



Sensitive Site Exploitation

Capability Insertion Opportunities

- Wireless Mobile CELLEX/DOMEX Collection Devices
- Rapid Detection, Location and ID Of Forensic Evidence
- Stand-off/Remote Facial Recognition And Iris Capture
- Dustless Latent Print Collection
- Triage

Sensitive Site Exploitation

General Considerations

- Average User Proficient in Mobile Electronics (24 to 35 years old)
- SWAP-C
- Software
 - Non-Proprietary
 - Windows 10 Preferred
 - Compliant w/ Intelligence Community Databases
- Ruggedized (MIL STD 810-G)
- Reduce User Workload
- Training Accomplished in One Eight Hour Session
- Limited Time on Objective
- Logistics
 - Shipping and Storage
 - DOT Compliant (Lithium Ion Batteries, etc...)
 - Shelf Life



• Business Process:



Upcoming Events:

- Capability Collaboration Engagement September 26, 2017
- Tactical Biometric Event (TBE) March 2018
 - RFI TBE 18 June 2017
 - TILO for TBE 18 September 2017
- Technical Experiment Tentative March 2018
 - RFI TFE 18 November 2017

All RFIs posted on FedBizOpps

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Program Manager Mission Support Systems



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Program Manager Mission Support Systems

Multi-INT Capabilities for Operational Intelligence:

- Integration & Interoperability to the Tactical Edge
- Agile Acquisition of Emerging Technologies

Priorities:

- Integration & Fielding of Advanced Analytics
- Solutions Framework for Big Data Challenges

MSS Portfolio:

- Integrated Survey Program
- SOF Planning Rehearsal & Execution Preparation
- DCGS-SOF Enterprise & ASIF
- Full Motion Video PED
- SIGINT PED
- Big Data

ACQUISITION STRATEGY

- Partner with National Mission Forces, IC community, Services, SOF C4 and industry partners
- Agile development

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

PERIOD OF PERFORMANCE

- Multi year support contracts
- HW QRC Deliveries in 14 to 90 Days

FUNDING <u>APPROP</u> <u>FY17</u> <u>FY18</u> • O&M \$41.62M \$43.57M

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• PROC	\$14.22M	\$11.49M
• RDT&E	\$5.98M	\$6.07M

MILESTONES

- Periodic program reviews
- Technology insertions to maintain relevancy

CURRENT CONTRACT/OEM

- Multiple: HW, SW, IT, Technical Management Support
- Foreign Comparative Test (FCT)
- SBIR, Rapid Innovation Fund

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Integrated Survey Program (ISP)

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Description:

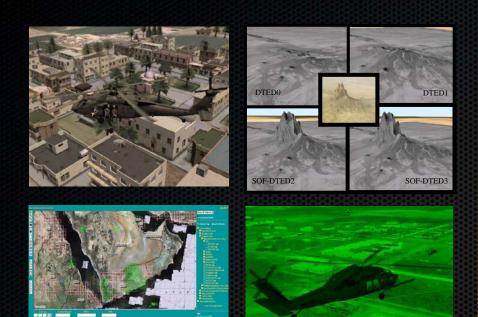
- CJCS CONPLAN support to Tier Units and Theater Special Operations Commands
- Conducts technical surveys to provide detailed tactical planning data for contingency planning and crisis response
- Surveys US Facilities abroad, Ports & Harbors, and Commercial Vessels

Operational Mission:

- Disconnected Survey Collection
- Dissemination to Garrison and Deployed SOF Users as well as DoD / IC and Interagency
- Data Sharing with Coalition Partners

- GO ISP mobile application for disconnected operations and distributed data management
- Ongoing test and evaluation of mobile devices to speed collection: objective +/- 1% accuracy
- Enterprise GIS data services

SOF Planning, Rehearsal & Execution Preparation (SOFPREP)



Description:

- **Produces Enhanced GEOINT (maps,** imagery, and terrain data) and 3D Scene **Visualization Databases**
- Manages SOCOM's most comprehensive • repository of SOF-common Geospatial Data
- Databases support Component Simulators, JTAC Rehearsal Systems, Mission Planning, Virtual Battlespace, and 3D Globes

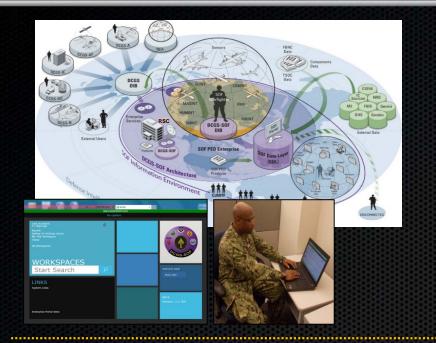
Operational Mission:

- Garrison system for Geospatial-Intelligence Data **Processing, Exploitation and Dissemination**
- Operational Intelligence support for Mission **Rehearsal and Planning**

Milestones:

Evolutionary Technology Insertions

DCGS SOF Enterprise/All Source Information Fusion



Operational Mission:

- Part of a family of systems providing Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, and Dissemination (PED) and analytical capabilities at the Joint Task Force level and below
- Interconnect the warfighter and sensors to find and fix High Value Targets of interest
- Provide a network-enabled interoperable construct allowing continual unimpeded sharing of intelligence data, information and services

Description:

- The Enterprise provides infrastructure and processing capability to allow for worldwide SOF intelligence information sharing
- All Source Information Fusion will provide the intelligence analytical tools via a global and disconnected architecture

- User evaluation of All-Source Analytical Environment capability
- Completed User Guide & instructor led new equipment training
- Successful interoperability testing ant Unified Vision 16 & Enterprise Challenge 16

Full Motion Video Processing, Exploitation & Dissemination



Description:

 Provides PED capabilities in garrison and deployed tactical environments of manned and unmanned sensors

Operational Mission:

- Intelligence processing of collected data from various manned and unmanned ISR platforms & sensors
- Near-real-time find-fix-finish-exploit-analyze (F3EA) intelligence operations on a 24/7/365 basis at all levels of warfare (Strategic, Operational, Tactical)

- Full Rate Production Decision, Sept 2012
- Completed CERP of Intelligence Formal Training Unit facility
- Delivered hardware to support 11th SOIS increase in mission capacity
- Completed site survey for communications & systems requirements CERP

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Silent Dagger Processing, Exploitation & Dissemination



Description:

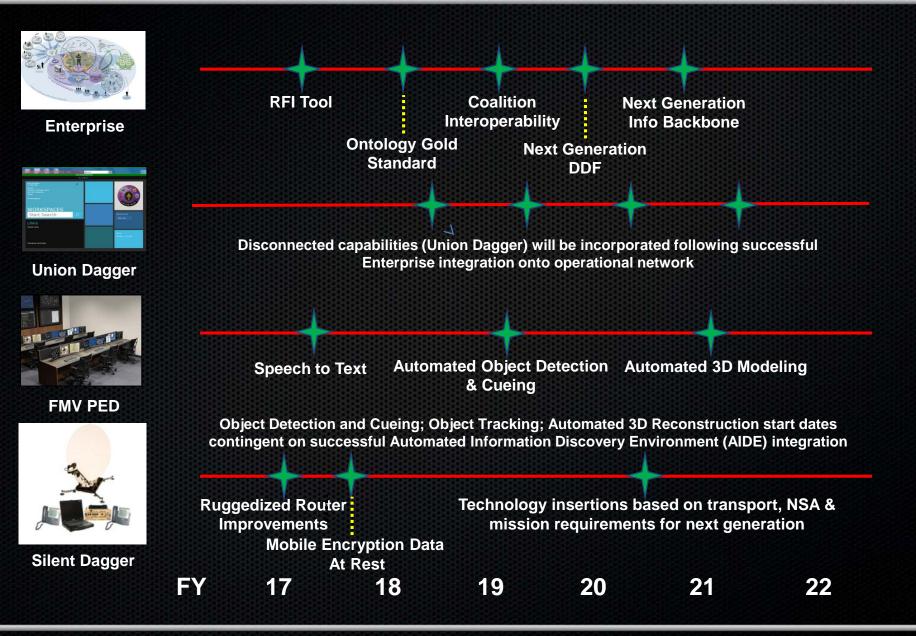
- **Provides Signals Intelligence (SIGINT)** exploitation capability in both garrison and deployable environments
- Silent Dagger has fielded 231 garrison workstations and 101 deployable nodes

Operational Mission:

- Provides SOF SIGINT elements a robust, organic, scalable capability for garrison and tactical SIGINT Processing, Exploitation and **Dissemination**
- Interconnect the warfighter and sensors to • find and fix High Value Targets of interest

- Milestone C, Feb 2011
- **Program Parameter Change Dec 2014**
- Fielded Garrison workstations for SOCKOR and 2 Deployable kits for AVSPECWARCOM
- Completed partial CERP of component hardware

Mission Support Systems DCGS Technology Insertion Roadmap



Program Manager Mission Support Systems

Capability Insertion Opportunities

- Integration & Fielding of Advanced Analytics
- Solutions Framework for Big Data Challenges
- FMV PED Automation and Analysis
- 3D Tactical Sensor PED
- Standards & Interoperability across Systems

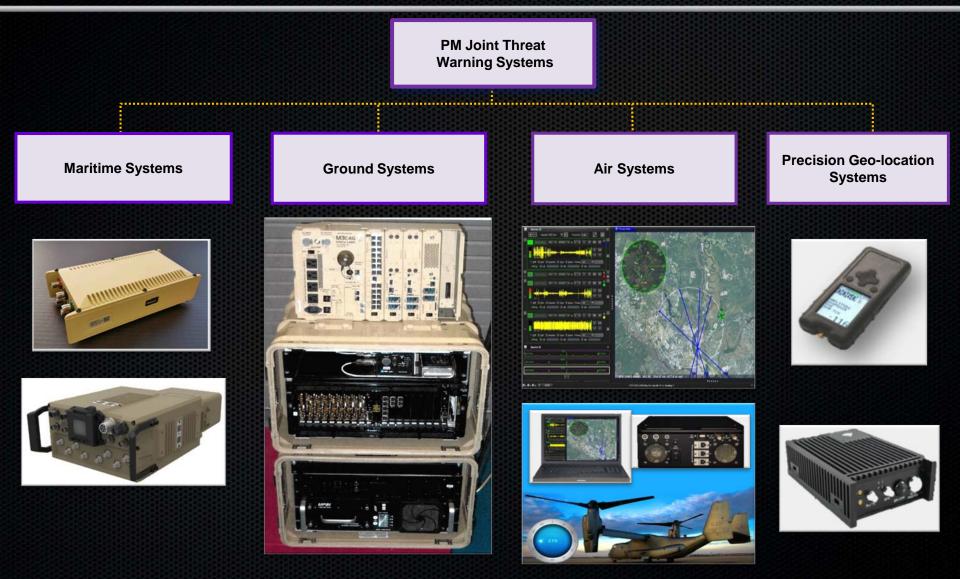
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Program Manager JOINT THREAT WARNING SYSTEM

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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Program Manager Joint Threat Warning System

Joint Threat Warning System (JTWS)

Mission:

Synchronize acquisition of signals intelligence across the ground, air and maritime domains. Develop and field interoperable, networked sensors based upon open hardware and software architectures to enable the common operating picture and feed data into all-source analysis tools.

Priorities:

- Be positioned to rapidly respond to dynamic mission requirements and threat picture
- Technical Insertion Of Emerging / Maturing Technologies
- Modular and Scalable Cross-Domain Solutions

ACQUISITION STRATEGY

 Incremental Procurement of COTS/GOTS/NDI with Technical Insertions and Planned Program Improvements

POINT OF CONTACT

- Technology & Industry Liaison Office
- TILO@SOCOM.mil
- 813-826-9482

PERIOD OF PERFORMANCE

 Annually Fields Initial Variants, Capital Equipment Replacement, and Technology Insertions in support of SOCOM Components

FUNDING			
<u>APPROP</u>	FY17	<u>FY18</u>	
• O&M	\$23.0M	\$21.7M	
PROC	\$42.7M	\$45.6M	
• RDT&E	\$ 5.2M	\$ 5.2M	

JTWS Sub-programs:

- Air
- Ground
- Maritime
- Precision Geo-Location (PGL)

MILESTONES

- Fielding: Annually
- User Testing: Prior to Fielding
- New Equipment Trng: Continuous
- Fielding/Deployment: Continuous

CURRENT CONTRACT/OEM

Multiple

JTWS Air 2 System





Operational Mission:

- Detect & Collect Simple and Complex Signals of Interest (SOI)
- Incorporates New Threat SOI, Tactical / Enterprise Net-centric Operations, Reach Back & Increased DF accuracy
- Provide Intelligence Broadcast Data & Collaborative Tactical Networking Tools
- Precision Geo-location

Description:

- JTWS-Air 2 is the Second Increment of Upgraded Capability for the Air Sub-program
- Enhanced Situational Awareness & Tactical SIGINT Collection Capability

- Flight Testing: AC-U / AC-W / MC-H (with ETI #1) – Complete MC-J Basic – Complete
- F&DR (MC-J Basic): Complete

JTWS Air Nite System



Operational Mission:

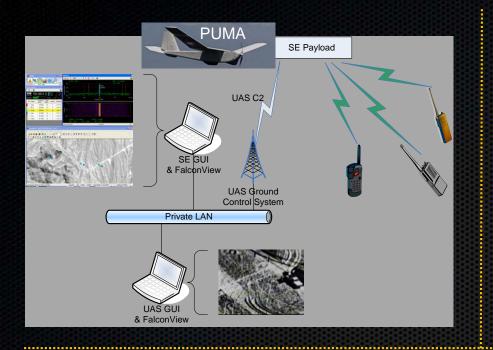
- Detect and Collect Narrow-band SOI
- Integrate Companion Sub-systems for Complex Signals of Interest and DF
- Map Display & Mature Software Interface
- Small Footprint / Low SWaP

Description:

- Scalable Situational Awareness & Threat Warning for Space Limited Aircraft
- Platform Agnostic
 - Carry-on/Carry-off
 - Power Flexible
 - Multi-Box Design
 - Expandable: Ethernet, RF, and Power for additional Components / Sub-systems

- Airborne Demonstration and Evaluation: MAR 2016
- MIL-STD 810 Tested: JUN 2016
- CV-22 Integration w/ Direction Finding: 4QFY17

JTWS Air UAS



Description:

- The Silent Echo payload is an ongoing developmental effort for JTWS AIR UAS
- Development began in 2009 leveraging advanced SIGINT technologies and capabilities
- Primarily onboard Puma UAS platform

Operational Mission:

- Perform SIGINT operations
- Maintain UAS core payloads

- Silent Echo 10.4 Completed Test July 2016
- Silent Echo 10.6 Final Testing April 2017

JTWS Ground SIGINT Kit Body Worn System





Description:

The current Body Worn solution is the Cutlass

- Characteristics:
 - VHF/UHF Direction Finding
 - Relatively Low Size, Weight, and Power

Operational Mission:

 The Body Worn system provides Threat Warning, Force Protection, and a Situational Awareness toolbox consisting of SIGINT capabilities which are man-packable

Milestones:

RFI to be sent out Q3FY17
 for replacement kit

JTWS Ground SIGINT Kit Static System



Description:

STATIC-2

- All the capability, half the size and cost
- Planned Fielding 4QFY17
- Satellite Communications Suite
- Silent Dagger Compatible
- 2 cases @ 150lbs each & DTECH

Operational Mission:

- Simple/Complex Signal Survey & Other Missions
- Tactical Storage / Wideband Record / Playback

- DT and OT planned for summer 2017
- Smaller 'Static-Lite' variant for future development/delivery

JTWS Ground SIGINT Kit Mobile System



Description:

Mobile

- HF/VHF/UHF DF Receiver
- Total sensor weight < 50 lb
- Total sensor power < 150 W

Operational Mission:

- Simple/Complex Signal Survey & Other Missions
- Provides Threat Warning, Force Protection, and Situational Awareness
- Mounts in vehicles

- RCI funded contract for Mobile system development
- Early development test FY16/17

JTWS Maritime System





Description:

- Maritime System will be Carry-on/Carry-Off SIGINT Capabilities for Standard and Non-standard Platforms While Maintaining Low SWaP
- Testing to validate newly developed solution

Operational Mission:

- Configurable, Ruggedized, Low-profile Capabilities Performing Simultaneous Survey, Detection, DF, Processing of Intelligence Information, and Other Missions
- Support Find, Fix, and Finish Operations

- Kraken and Corsair Selected for DT and OT
- Scheduled Fielding End of CY 2017

JTWS Precision Geo-location System



Operational Mission:

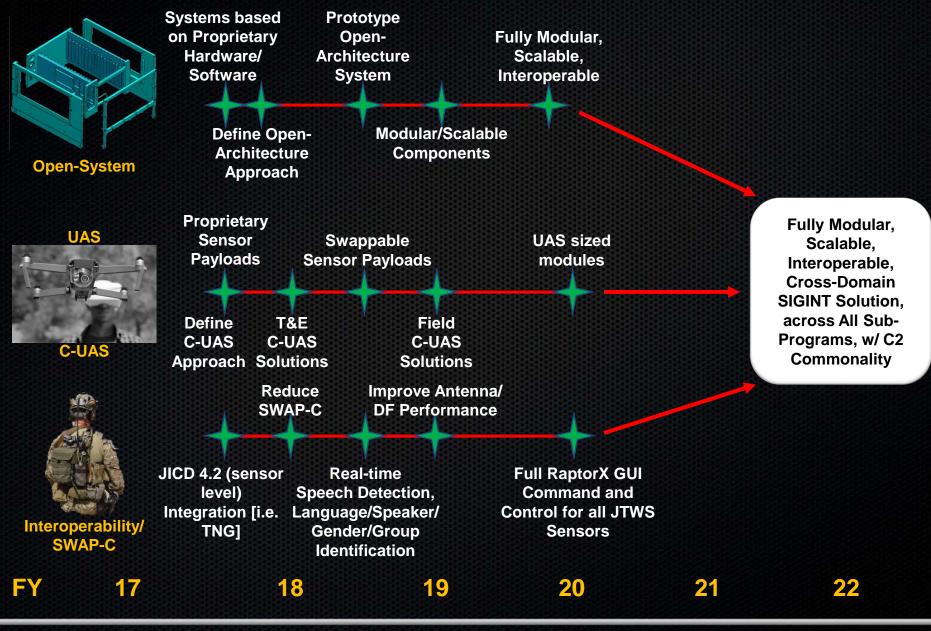
- Geo-locate Signals of Interest (SOI) for Vehicle, Man-packable and Aerial Components
- Survey, Location Identification, DF, and other missions

Description:

- Ruggedized and Handheld Devices Capable
 of Processing Frequency Measurements
- Self-configurable and Supports
 Numerous Protocols
- Stand-Alone Mode for Collecting Signal Measurements & Geographical Coordinates

- Executed \$42.6M in PROC for CERP investments in FY16-FY17
- Obtained two F&DRs for six sensors
- Trained 30 Cryptologic Operators in FY16
- DT/OT completed on 22 sensors

Joint Threat Warning System (JTWS)



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JTWS Technology Roadmap

Capability Insertion Opportunities

- Planned CERP cycle (complete every 4-8 years)
- Improved Direction Finding Capability (20% Minimum Improvement in Accuracy)
- Open Hardware and Software Architecture
- Maritime Environment Operations





SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Questions

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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