



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Mr. David Breede

Program Executive Officer (Acting)

**SPECIAL RECONNAISSANCE,
SURVEILLANCE, AND
EXPLOITATION**

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

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

ACQUISITION

Special Reconnaissance, Surveillance, and Exploitation

PEO SRSE MISSION

Manage The Development, Acquisition, Fielding, New Equipment Training, And Sustainment Of State Of The Art Technical Collection And Exploitation Tools For Advanced Surveillance, Reconnaissance, And Intelligence Systems For Components And Theater Special Operations Commands.

- ***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*

Program Executive Office

Special Reconnaissance, Surveillance, and Exploitation

TECHNICAL COLLECTION SYSTEMS

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



Operations Tactical Video System (TVS)



Blue Force Tracking (BFT)



Joint Threat Warning System



IDENTITY OPERATIONS

Biometrics and Forensics



INTELLIGENCE SUPPORT SYSTEMS

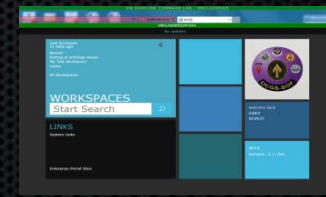
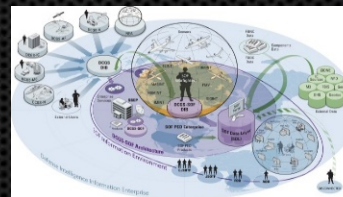
Integrated Survey Program



SOF Planning, Rehearsal



Distributed Common Ground/ Surface System SOF



FOCUSED RDT&E

Tagging, Tracking, and Locating



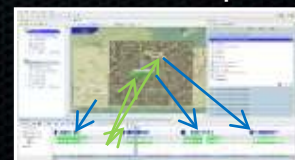
Special Reconnaissance



Specialized Communications



Tactical Exploitation of National Capabilities



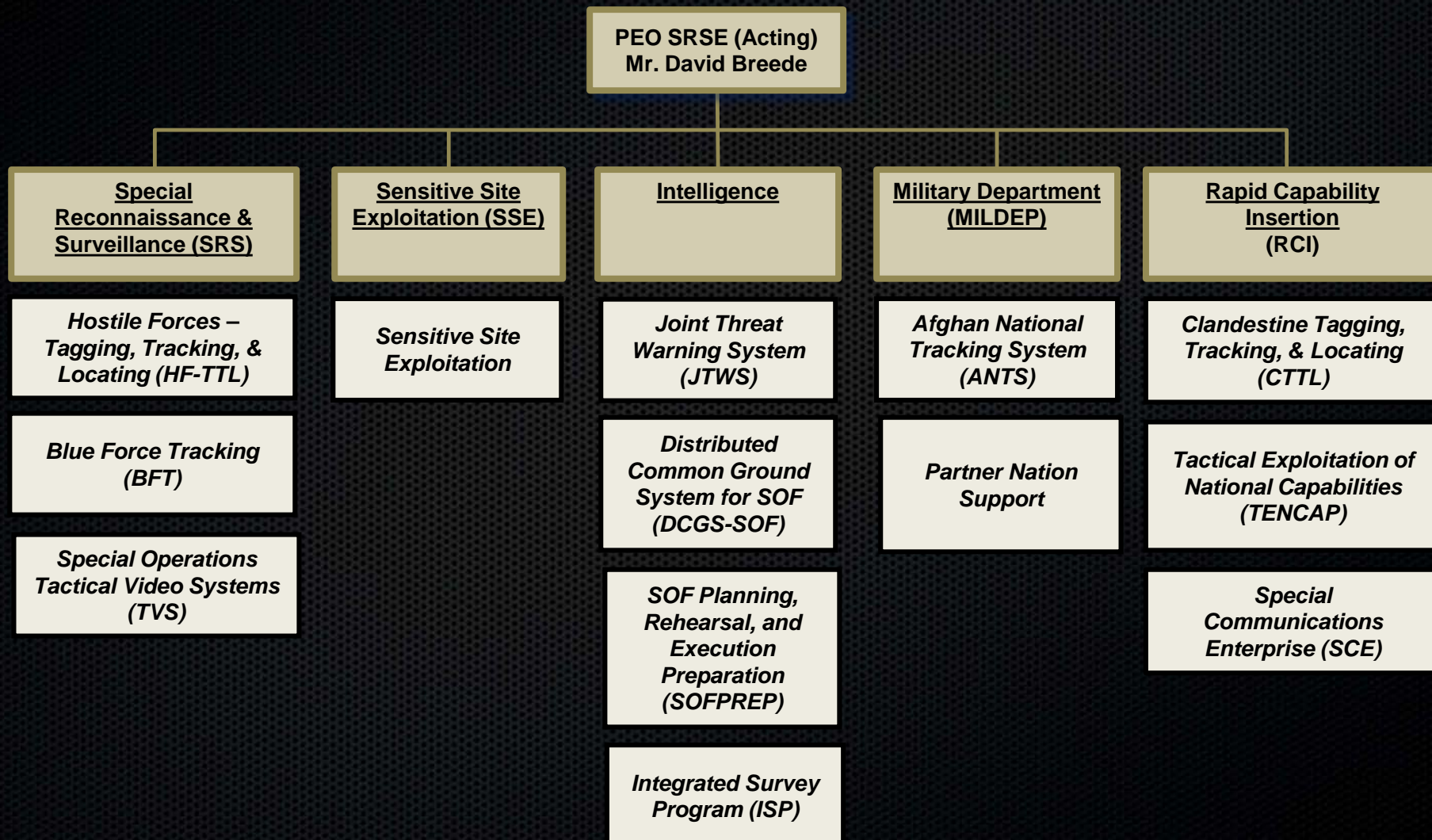
Quick Reaction Capabilities



Program Executive Office

ACQUISITION

Special Reconnaissance, Surveillance, and Exploitation



Program Executive Office

ACQUISITION

Special Reconnaissance, Surveillance, and Exploitation

PEO SRSE

Intelligence Preparation of the (Acquisition) Battlefield

Define The Environment

- *Closing a Decade of War*
- *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*



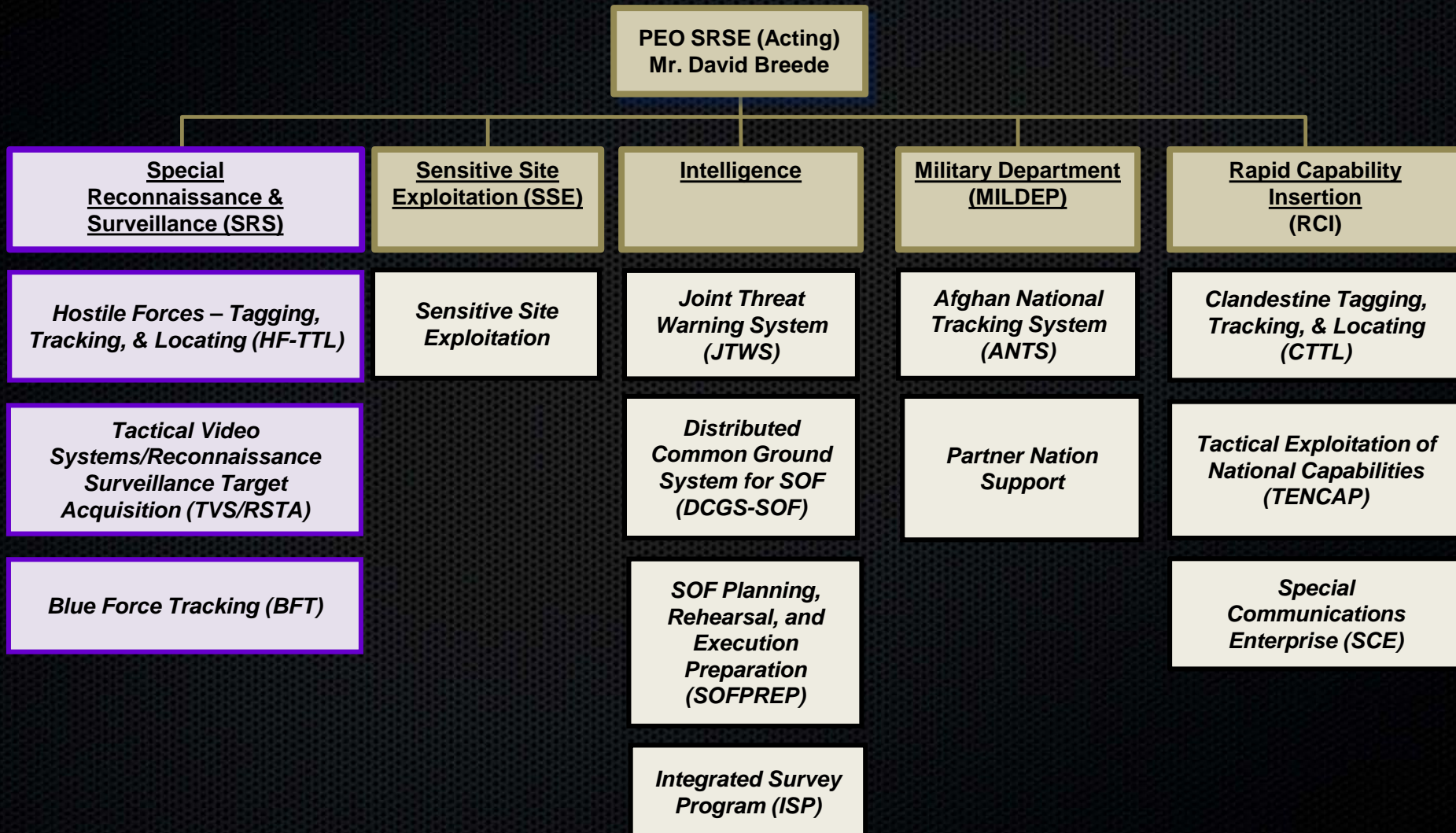
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Program Manager
Special Reconnaissance
and Surveillance

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

Program Manager

Special Reconnaissance, and Surveillance



Program Manager

Special Reconnaissance, and Surveillance

ACQUISITION

Priorities

- Size & Weight Reductions
- Modular / Multi-Use Components
- Technology Refresh

SRS Portfolio

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

FY16/17 Priority Efforts

- Balancing Tailoring with Configuration Management
- Interoperability / Modularity



Program Manager

Special Reconnaissance, and Surveillance

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

- **Development Effort:**
 - Continuously Tailored; Catalogue Ordering
 - One/Two Annual Increments
- **Priorities**
 - Quick Reaction Capability (QRC)
 - Integration of TTL Payloads on Remote Piloted Vehicles
- **HF/TTL Portfolio**
 - Tag/Track Kits
 - Audio Kits
 - Video Kits
 - Misc Tool Kits

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

MILESTONES

- Kit Selection Annually
- NET Continuously
- Technical Insertion to Maintain Relevancy

POINT OF CONTACT

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

FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$21.7M	\$20.3M
• PROC	\$23.1M	\$23.8M
• RDT&E	\$ 0.8M	\$ 0.8M

CURRENT CONTRACT/OEM

- Multiple - Contact TILO

Program Manager

Special Reconnaissance, and Surveillance

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

- **Kits are Operationally Tailored**
 - Support Six Capability Areas
 - 24+ Variants
- **Priorities**
 - Enhanced Night / Obscured Operations
 - Component Interoperability
- **TVS/RSTA Fielded Kits**
 - Tactical Video System
 - Remote Observation Post
 - Tactical Sensor
 - Unmanned/Unattended Sensors
 - Austere Location Force Protection

ACQUISITION STRATEGY

- Commodity Procurement Project (CPP)

PERIOD OF PERFORMANCE

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

MILESTONES

- Kit Selection Annually
- NET Continuously
- Capital Equipment Replacement

POINT OF CONTACT

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

FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$14.2M	\$10.1M
• PROC	\$ 3.1M	\$ 4.1M
• RDT&E	\$ 0.4M	\$ 0.4M

CURRENT CONTRACT/OEM

- Multiple - Contact TILO

Program Manager

Special Reconnaissance, and Surveillance

BLUE FORCE TRACKER (BFT)

- **Mission Set Fielding to Components**
 - Family of Devices that are Small; Lightweight; Employ Multiple Waveforms; & Self-Contained Transmitters
- **Priorities**
 - Multiple Waveform Support; Battery Life; Anti-Spoofing & 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

- Kit Selection Annually
- NET Continuously
- Technical Insertion to Maintain Relevancy

POINT OF CONTACT

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

FUNDING

APPROP	FY16	FY17
• O&M	\$2.0M	\$1.7M
• PROC	\$3.4M	\$2.1M
• RDT&E	\$ 0.5M	

CURRENT CONTRACT/OEM

- Multiple – Leveraging OGAs

Program Manager

Special Reconnaissance, and Surveillance

Capability Insertion Opportunities

- **Data Transfer Capabilities, SWAP-C, Increase Flexibility In Aerial, Ground, Underground, And Maritime/Riparian Communication Environments**
 - Image And Video Compression Techniques
- **Force Protection / Counter-measure**
 - Electronic Counter-measures
 - Emission Reduction Or Masking
 - Threat Warnings And Counter-measures
 - Man-portable Discrete Intrusion Detection System
- **Persistent Surveillance Systems (Unattended Ground Sensor Systems, Tactical Surveillance Systems)**
 - On Camera Video Motion Detection
 - High Altitude Long Endurance (HALE) Sensor
 - Improved Sensor Algorithms To Reduce False Alarms And Missed Detections

Program Manager

Special Reconnaissance, and Surveillance

Capability Insertion Opportunities (Con't)

- **Tagging, Tracking, and Locating (TTL) Technologies That can Be Used On Persons and Objects**
 - Non-GPS Trackers
 - Maritime TTL
 - Novel Non-Traditional TTL Capabilities
 - TTL Attachment Methodology; Self-Release, Non-Metallic, Timed Release
 - Micro-sized, Low Visibility, Emergency Personnel Locator Beacons (PLB)
 - Handheld TTL or PLB Geolocation
- **Items Critical to Mission Success But Often Not Part of the Initial Design**
 - Better Power Sources or Improved Efficiencies
 - Antennas



SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

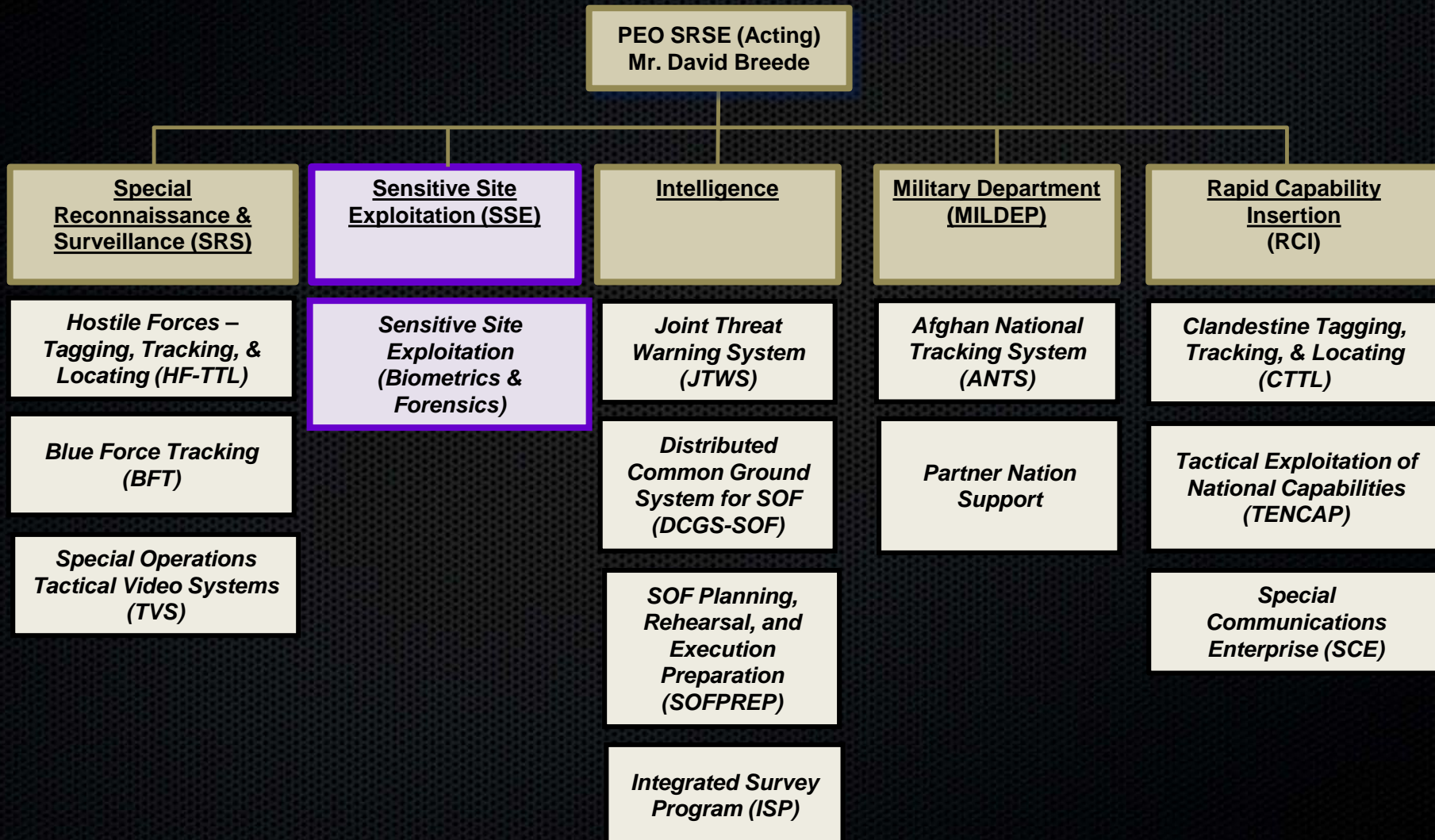
Program Manager
Sensitive Site
Exploitation



SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

Program Manager

Sensitive Site Exploitation



Program Manager

Sensitive Site Exploitation

ACQUISITION

Sensitive Site Exploitation

- Provide the Tools to Gain Actionable Intelligence from a Sensitive Site
- Exploit Materials, Substances, Objects, Documents, and Electronic Media
- Collect, Compare, and Transmit Unique, Measurable Biometric Signatures
- Enable Exploitation on-site, at the FOB and at theater level

ACQUISITION STRATEGY

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

PERIOD OF PERFORMANCE

- Level of Effort – Various Lengths
- Sustain With Capital Equipment Replacement Program (CERP)
- Technical Refresh

MILESTONES

- Kit Selection: Annual
- User Testing: Bi-Annual
- Commodity Procurements: Annual
- New Equipment Training: Ongoing
- Fielding And Deployment: Ongoing

POINT OF CONTACT

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- 813-826-9482

FUNDING

APPROP	FY16	FY17
• O&M	\$ 8.9M	\$ 12.8M
• PROC	\$ 9.9M	\$ 2.6M
• RDT&E	\$ 0.2M	\$ 0.2M

CURRENT CONTRACT/OEM

- Broad Agency Announcement USSOCOM-BAAST-2015
- SRSE / T-REX Prime Vendors
- SOFSA / Lockheed Martin

Program Manager

Sensitive Site Exploitation

SSE Priorities

- On Site Collection of Biometrics to Verify/Enroll Subjects into DOD Authoritative Biometrics Database
- Provide Actionable Intelligence Thru the Rapid Detection, Collection, & Identification of Physical and Digital Forensic Evidence while on a Sensitive Site to enable Identity Operations

SSE Focus Areas in Development and/or Field Test:

- Rapid DNA Field Testing
 - Rapid DNA Systems Fielding 2016
- Next Generation Tactical Forensic Document & Media Exploitation (DOMEX) – Ongoing
- Chemical Identification and Attribution Technologies Test & Evaluation

FY16/17 Priority Efforts

- Procure/Field Tactical Biometric Devices
- Provide Rapid DNA Data Collection Capability
- Evaluate and deploy innovative DOMEX and Forensic Technologies



*Northrop-Grumman BioSled
Fingerprint And Iris Imagers*



Program Manager

Sensitive Site Exploitation



ID Card Printer

N-G BioSled
Fingerprint, Facial and Iris Imagers

Identification (ID) Kits



Kojak Multi-Fingerprint Scanner



ID Badge Printer

Enrollment (EN) Kit

Biometrics



Metal Tec 1500
Metal Detector



IDEX Pens
Explosives And Trace Element Detection



Field Forensics EL-1000



DNA Swab



Latent Print Collection



Forensic Lights

DNA And Latent Print Collection



SIMEX

CELLEX



XRY/XACT



ADF-G-2

Basic MEDEX



Fabric MEDEX
E01 Ready



Advanced MEDEX

Data And Information Extraction

Tactical Site Exploitation (Forensics)

Exploitation Analysis Center



EAC Shelter (x2)

Trace Element Analysis



Griffin 460

Latent Print Extraction



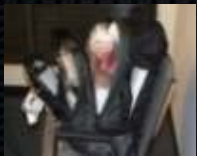
Latent Print Fuming Chambers



Latent Print Copy Station



AFIX Tracker Latent Print Examiner



Latent Print Collection Kit



BattleLite Forensic Lights



Tracer Laser Lite



AHURA First Defender



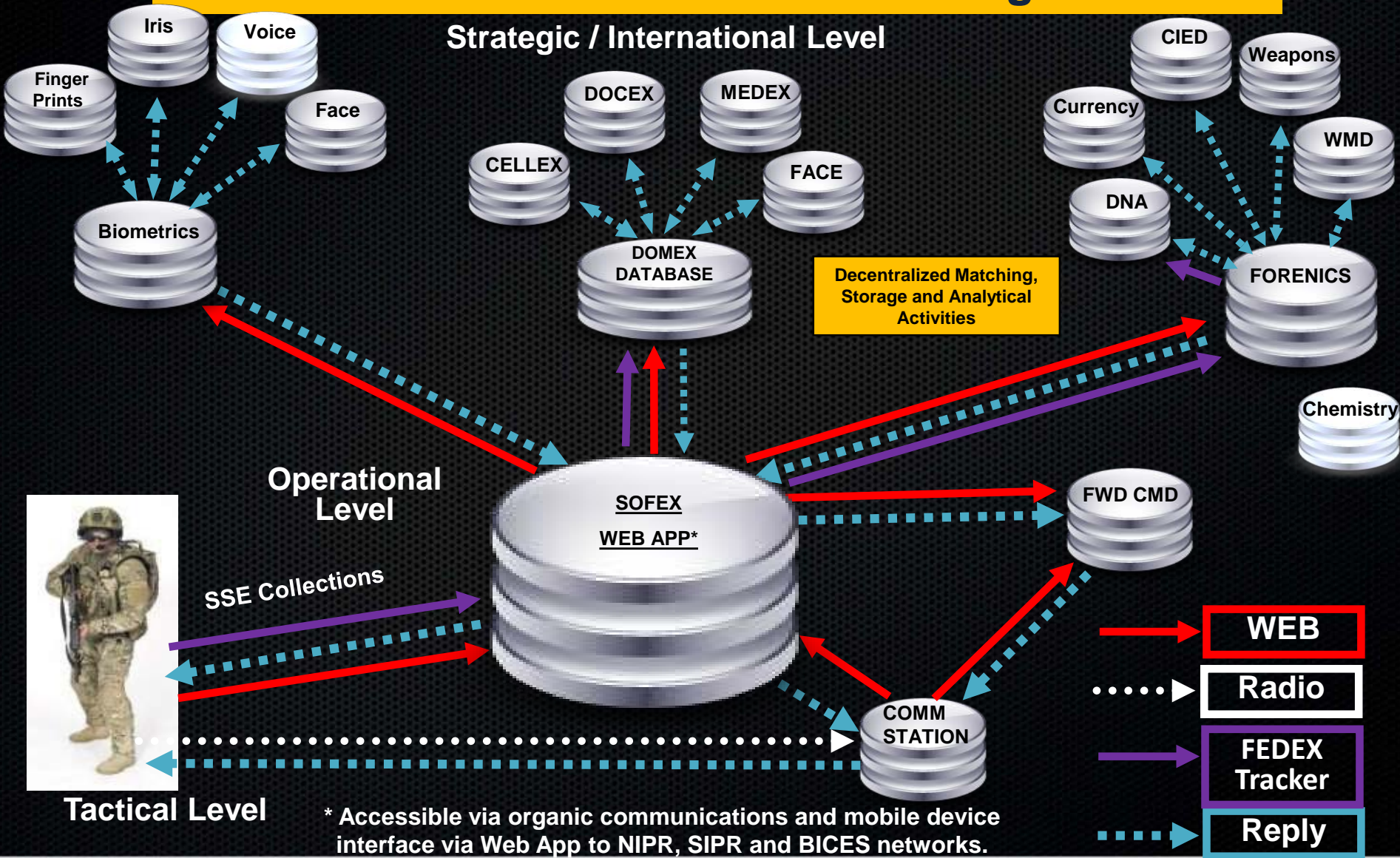
AHURA TruDefender



SABRE 5000

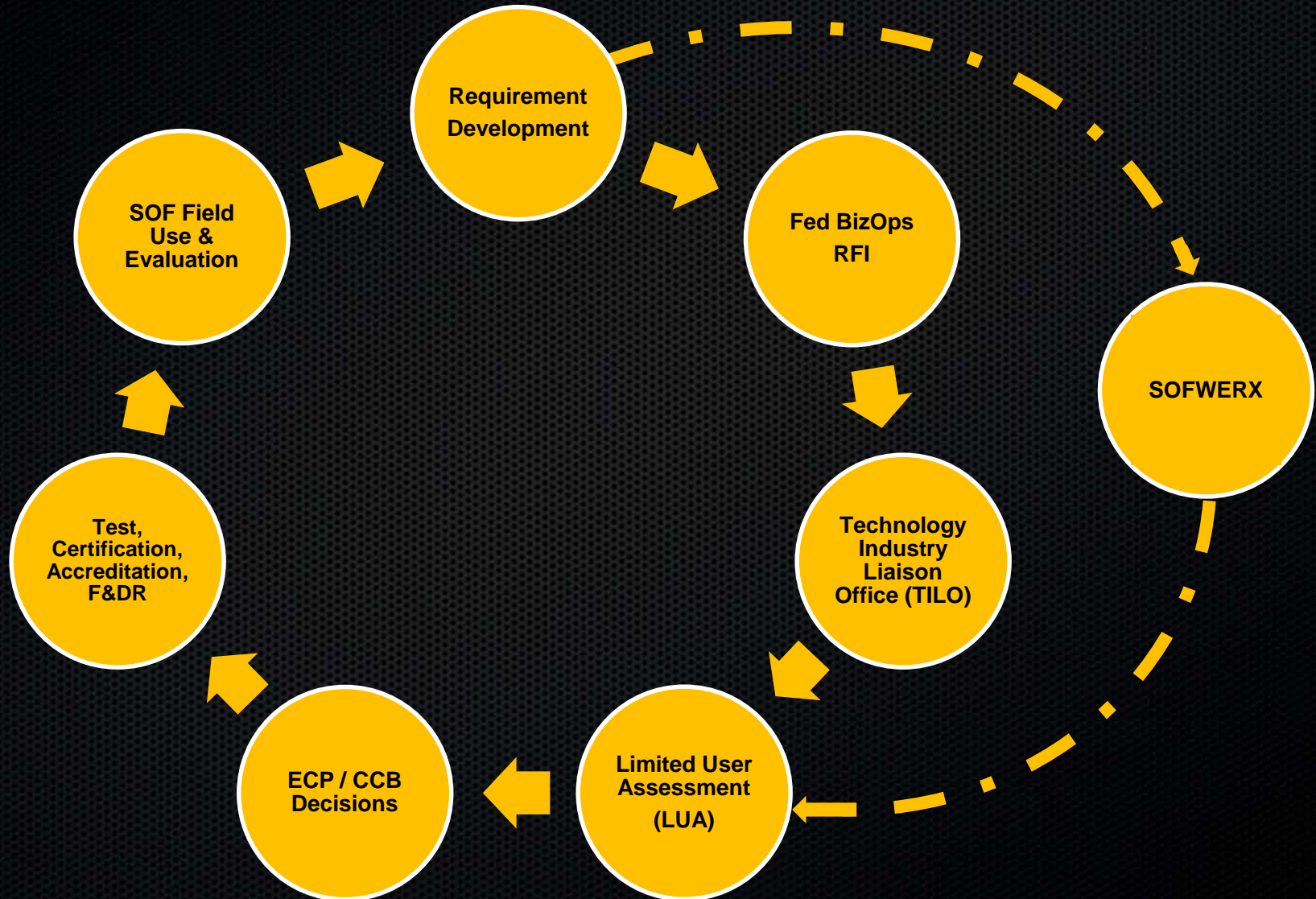
SOF Exploitation Portal

SOFEX Portal Enables Tx/Rx of Intelligence Data



Sensitive Site Exploitation

SSE Capability Insertion or Replacement Cycle



Sensitive Site Exploitation

Capability Insertion Opportunities

- **Wireless Mobile CELLEX/DOMEX Collection Devices**
 - Cell Phone-Based Tools For Exploiting Cell Phones, SIM Cards, Computers, Storage Devices
- **Rapid Detection, Location and ID Of Forensic Evidence**
 - Body-Worn System To Detect, Locate, And Identify Forensic Evidence (Fingerprints, Body Fluid, Explosives)
- **Stand-off/Remote Facial Recognition And Iris Capture**
 - Threshold 3 Meters, Objective 300 Meters
- **Dustless Latent Print Collection**
 - Porous And Non-Porous Surfaces
- **Maritime Environment Operations**
 - At Sea Processing/Exploiting Forensic, DOMEX, And Chemical Evidence From Exploited Sites



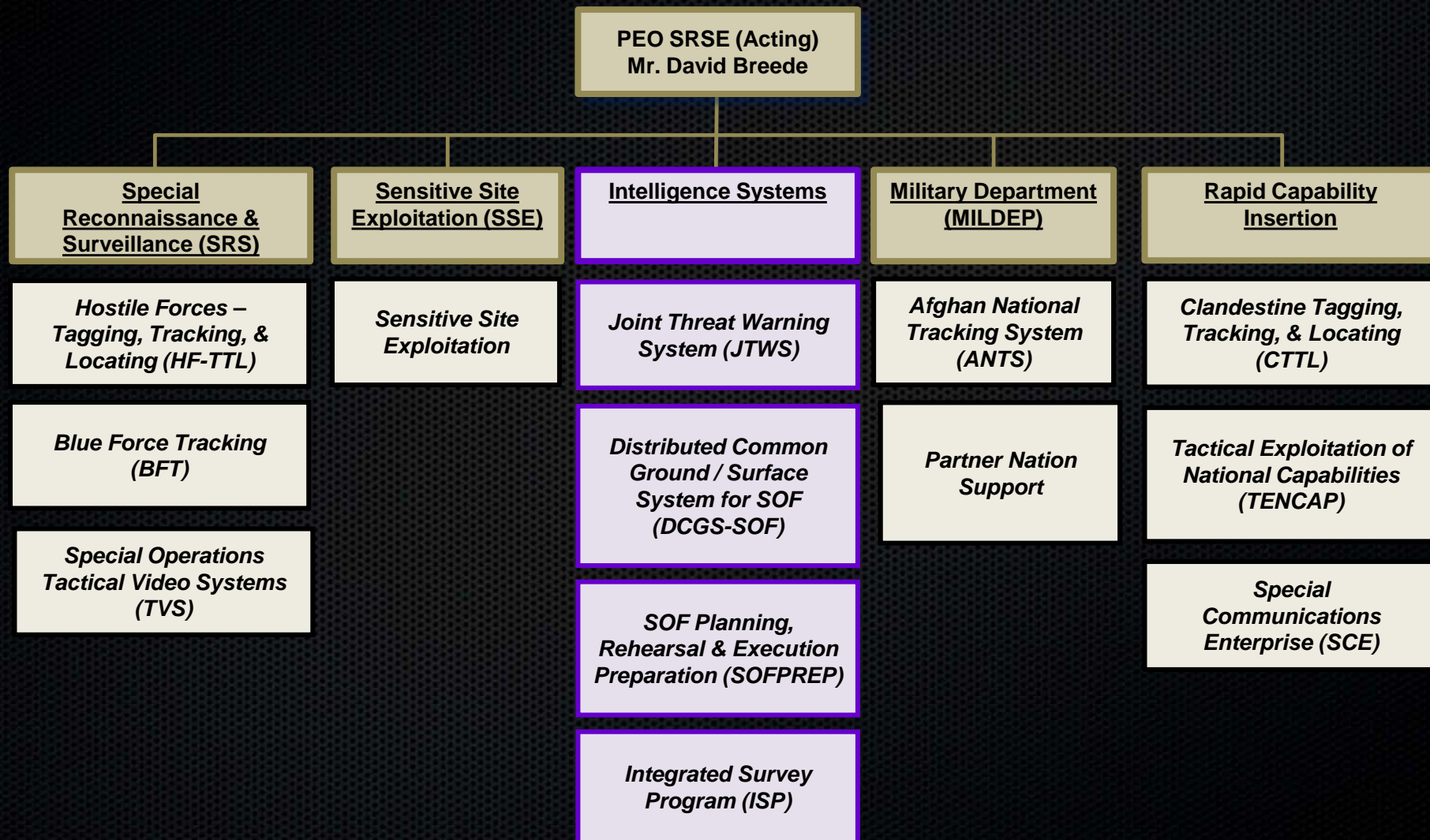
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Program Manager
Intelligence

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

Program Manager

Intelligence Systems



Program Manager

Intelligence Systems

Distributed Common Ground/Surface System (DCGS)-SOF

- **Mission Set Fielding to Components**

- A Family Of Systems Providing Intelligence, Surveillance, And Reconnaissance Processing, Exploitation, Dissemination and Analytical Capabilities At The Joint Task Force Level and Below
- Mission Tailored Infrastructure Interconnects The Warfighters And Sensors To Find and Fix High Value Targets
- Unimpeded Sharing of Intelligence Data, Information And Services With SOF, Services, Other National Intelligence Agencies, Combatant Commands, and Multi-National Partners

- **Priorities**

- Agile development process with capability insertions into the baseline, Retain technical agility, maximize leverage/re-use opportunities

- **DCGS-SOF Components**

- Enterprise
- Full Motion Video (FMV) Processing, Exploitation & Dissemination (PED)
- Signals Intelligence (SIGINT)
- All Source Information Fusion (ASIF)

ACQUISITION STRATEGY

- Evolution Strategy With Spiral Development to Insert Latest Technology into Components

PERIOD OF PERFORMANCE

- Annually Fields Initial Systems, Capital Equipment Replacement, and Technology Insertions To Support Components

MILESTONES

- Enterprise CDD, Milestone C
- FMV PED, CPP
- SIGINT PED, CPP
- ASIF, CDD

POINT OF CONTACT

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

FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$25.2M	\$34.0M
• PROC	\$17.3M	\$15.0M
• RDT&E	\$ 6.3M	\$ 5.3M

CURRENT CONTRACT/OEM

- Multiple

Program Manager Intelligence Systems

Joint Threat Warning System (JTWS)

• Mission Set Fielding to Components

- Program Of Record For Signals Intelligence (SIGINT) Systems Acquisition At USSOCOM
- Provides Threat Warning, Force Protection And Enhanced Situational Awareness

• Priorities

- Rapidly Develop, Field, And Sustain SIGINT Capabilities
- Technical Insertion Of Emerging Commercial Technologies
- Multi-function/Multi-personality Capabilities In Reduced Size, Weight, And Power Form Factor

• JTWS Portfolio

- Ground SIGINT Kit (GSK)
- Air
- Precision Geo-location
- Unmanned Aerial Systems
- Unattended Ground Sensors
- Maritime

ACQUISITION STRATEGY

- Evolution Strategy With Spiral Development to Insert Latest Technology into Variants

PERIOD OF PERFORMANCE

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

MILESTONES

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

POINT OF CONTACT

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- TILO@SOCOM.mil
- 813-826-9482

FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$23.6M	\$22.9M
• PROC	\$45.4M	\$42.6M
• RDT&E	\$ 4.3M	\$ 5.2M

CURRENT CONTRACT/OEM

- Multiple

Program Manager Intelligence Systems

SRSE Priorities

- **Integration & Interoperability of Capabilities to the Tactical Edge**
- **Rapid Fielding of Signals and Imagery Intelligence Systems for Tasking, Processing, Exploitation and Dissemination**

- **Joint Threat Warning System (JTWS)**
- **Distributed Common Ground/Surface System (DCGS)-SOF**
- **SOF Planning, Rehearsal & Execution Preparation (SOFPREP)**
- **Integrated Survey Program (ISP)**

FY16/17 Planned Efforts

- **Body-Worn Ground SIGINT Kit (GSK) for SOF Specific Missions**
- **JTWS Maritime Antennas**

Program Manager Intelligence Systems

ACQUISITION

SOF Planning, Rehearsal & Execution Preparation (SOPREP)

- Produces Enhanced Geospatial Intelligence (GEOINT) Data And 3D Scene Visualization Databases To Support SOF Mission Rehearsal and Execution Preparation
- Disseminates and Manages the DoD's Comprehensive GEOINT Holdings



ACQUISITION STRATEGY

- Evolutionary Strategy to Identify & Insert Emerging Technologies Tailored to SOF User-Defined Mission Requirements

PERIOD OF PERFORMANCE

- Annually Field Software ETIs for 3D GEOINT PED
- Annually Field HW/SW Upgrades to Enhance Imagery Processing

MILESTONES

- Project Dependent

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- 813-826-9482

FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$ 6.2M	\$ 6.3M
• PROC	\$ 0.3M	\$ 0.5M
• RDT&E	\$ 0.3M	\$ 0.4M

CURRENT CONTRACT/OEM

- GEOINT Database Engineering & Production Re-Compete in FY17
- Several ETIs thru BAA, 8a, and Foreign Comparative Test

Program Manager Intelligence Systems

Integrated Survey Program (ISP)

- Performs Technical Surveys to Support National SOF Requirements for Operational Planning
- Produces Detailed Tactical Planning Data to Support SOF Operational Planners, Partner Nations, and the Intelligence Community



ACQUISITION STRATEGY

- Evolutionary Strategy to Identify & Insert Emerging Technologies Tailored to SOF User-Defined Mission Requirements

PERIOD OF PERFORMANCE

- Annually Field Software ETIs for GIS and CAD Interoperability
- Annually Field New Technologies for Mobile Collection

MILESTONES

- Project Dependent

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FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
• O&M	\$ 1.2M	\$ 1.2M
• PROC	\$ 1.3M	\$ 0.3M
• RDT&E	\$ 0.2M	\$ 0.2M

CURRENT CONTRACT/OEM

- Application Management Support Re-Compete in FY17 (SITEC)
- SBIR for Geospatial Technologies
- 8a to Accelerate CAD/GIS

Program Manager Intelligence Systems

Capability Insertion Opportunities

- **RF Communications Intercept & Location Identification**
 - Software Defined Radio Emissions, Digital HF, VHF, & UHF Signal
 - Direction Finding Signal Processing Algorithms & Hardware
 - Passive Geolocation
- **Close-Target Surveillance**
 - Wi-Fi, WiMax, Bluetooth, RFID, Near Field Communications
 - Low-power/Low Noise Amplifiers
 - Detection Of Electronic Devices In Room, Vehicle, With Handheld Device
- **3D Visualization**
 - Real-Time 3D Capture Of Interior or Exterior Spaces
 - Conversion Of 2D Images To 3D



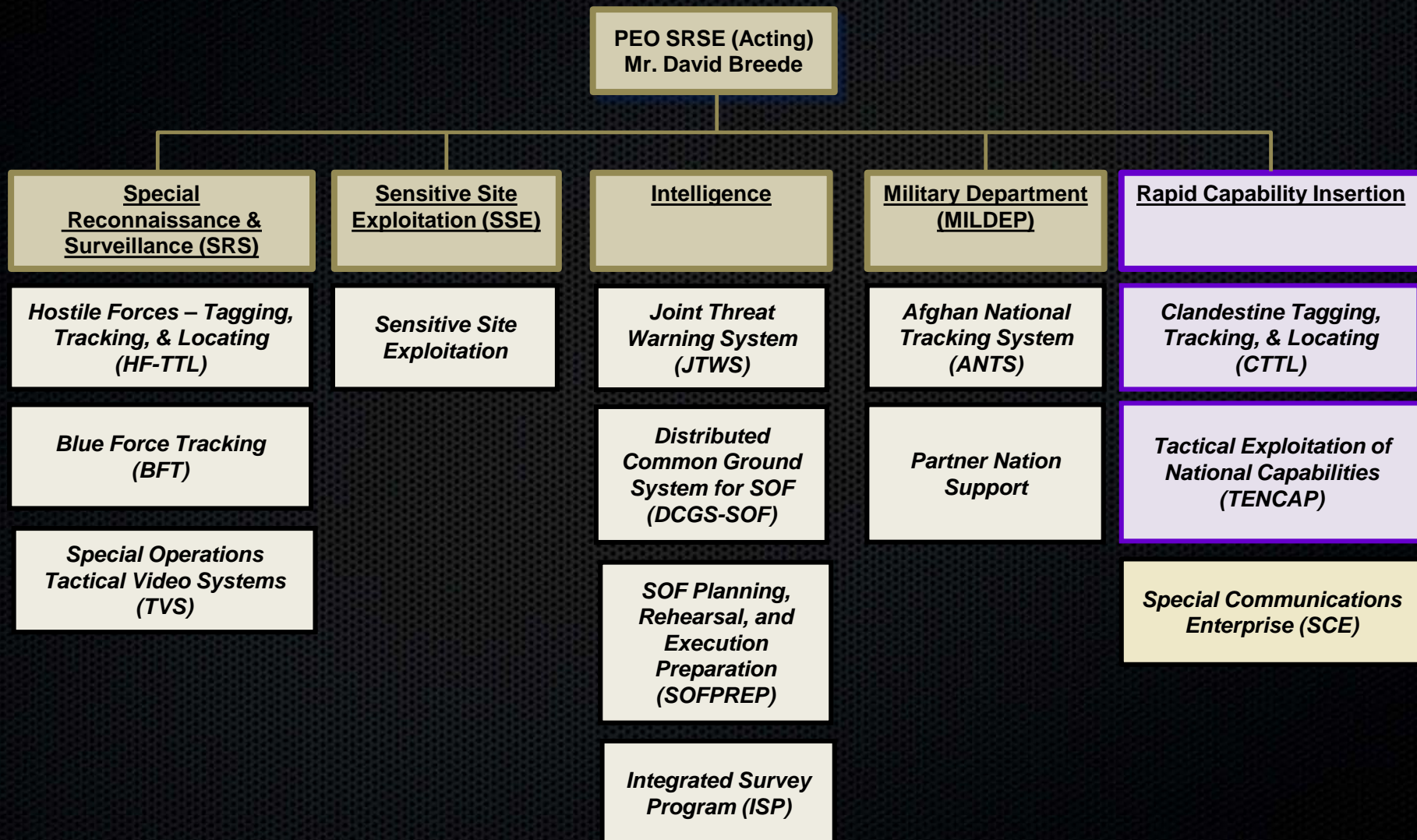
SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Program Manager
Rapid Capability
Insertion

SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION

Program Manager

Rapid Capability Insertion



Program Manager

Rapid Capability Insertion

- Develops And Prototypes Innovative TTL Capabilities and Novel Reconnaissance Devices Through Applied Research And Development (R&D)
- Improves Sensor SWAP-C For Use On Group 2 And 3 UAS
- Serves As The Command's TENCAP Office And Leverages Existing And Future Space-Related Technologies



ACQUISITION STRATEGY

- Rapid Prototyping, Technology Demonstrations, Combat Evaluations

PERIOD OF PERFORMANCE

- Project Dependent: Focus On 12-18 Month Project Development Cycle

MILESTONES

- Project Dependent

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FUNDING

<u>APPROP</u>	<u>FY16</u>	<u>FY17</u>
RDT&E	\$ 33.0M	\$ 33.6M

CURRENT CONTRACT/OEM

- Project Dependent

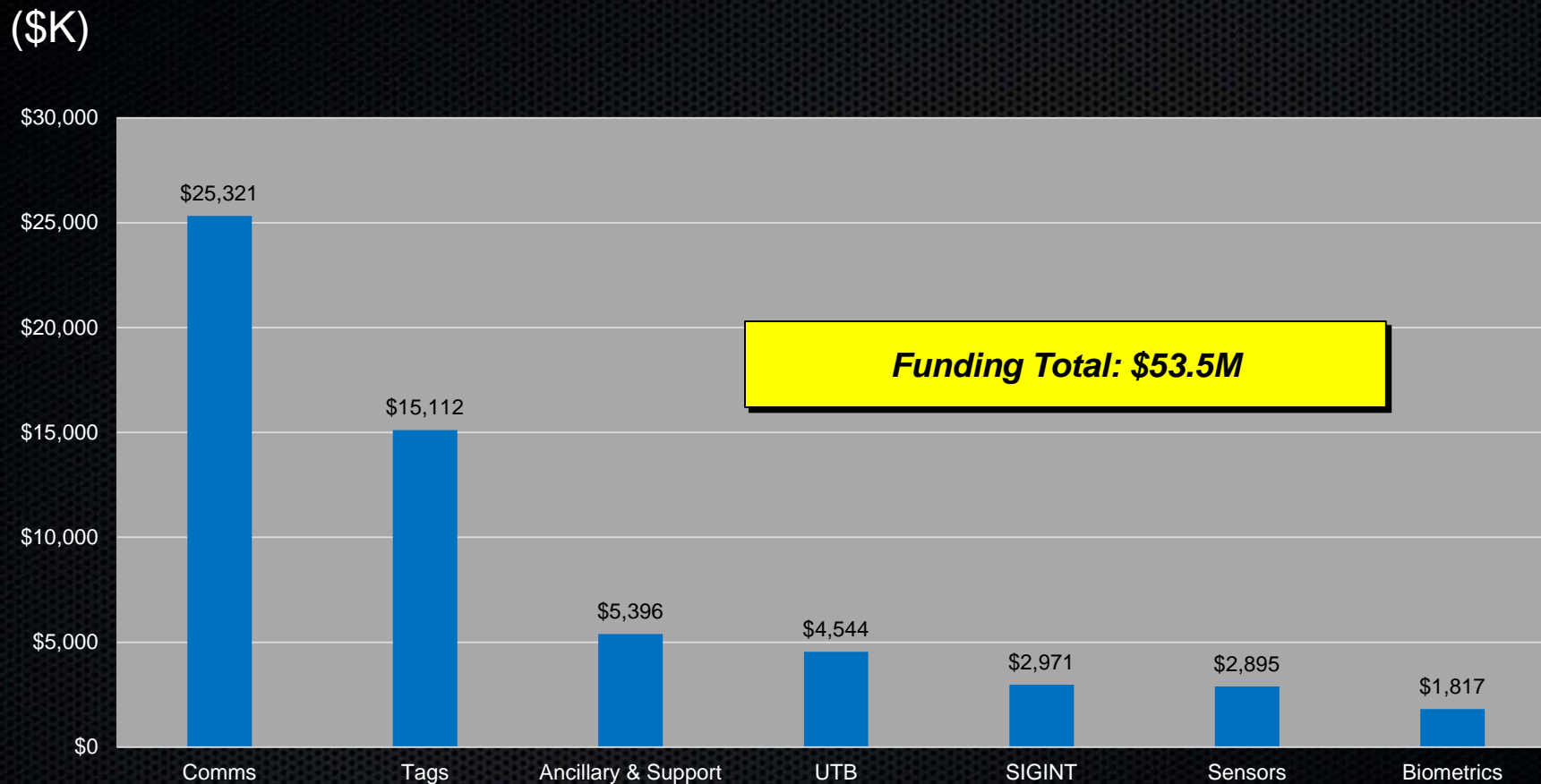
So, Why do you Care?

- RCI Enables Tech Entry Point Into Programs of Record
 - Annual Quick-Look Capabilities Based Assessment
 - Broad Agency Announcement
 - USSOCOM-BAAST-2015, Expires 31 Dec 2016
 - Goal Is To Provide Rapid Transition To SOCOM Programs of Record

- Typical RCI Year
 - 19 Industry Vendors On Contract
 - 9 Small Businesses
 - Average 9 Projects Delivered To Meet User Requirements Per Year



FY14-15 Distribution of Funds by Technology Area



**69% OF THE FY14-15 TOTAL SUPPORTS TWO FOCUS AREAS
*** NOT AN INDICATOR OF FUTURE INVESTMENT**

Tips for a Successful BAA Submission

- Target Specific Gap In BAA
- Propose A Product, Not A Corporate Overview
- Tell Us How You Think We'll Use It
- Know Your Customer (Note: It's Not SOF AT&L)

- RCI's Goal Is To Rapidly Prototype Capability To The User
 - Propose Phased Development
 - ~12-18 Month Start to Finish
 - ~ \$1M Effort

Program Executive Office

Special Reconnaissance, Surveillance, and Exploitation

Final Thoughts:

- **Our Focus Is On Delivering Capability**
 - Many Requirements Rely on Rapid Execution
 - Integration of COTS, NDI – Focus IR&D
- **Leverage All of Your Entry Points**
 - PM RCI/S&T Broad Area Announcement
 - Team With Other Industry Partners
 - Work Directly With Our DoD/OGA Partners
- **Be Responsive to Small Efforts – *Transition Opportunities***
- **Take Advantage of Access This Week**





SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE



SPECIAL RECONNAISSANCE, SURVEILLANCE, AND EXPLOITATION