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2010 SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

"Accelerating the Force"

Tampa, FL

15 - 17 June 2010

Agenda

TUESDAY, JUNE 15, 2010

SMALL BUSINESS SESSION

USSOCOM Small Business Programs

- *Mr. Christopher Harrington, Director, Small Business Programs, OSBP, HQ USSOCOM*

USSOCOM Industry Interface and Outreach

- *Ms. Kelly Stratton-Feix, Technology & Industry Liaison Office (TILO), HQ USSOCOM*

WEDNESDAY, JUNE 16, 2010

COL Christopher Miller, USA, PEO Rotary Wing, HQ USSOCOM

COL Duke Richardson, USAF, PEO Fixed Wing, HQ USSOCOM

COL James Smith, USA, PEO SOF Warrior, HQ USSOCOM

Mr. Steve Armstrong, Deputy Program Executive Officer, Maritime

Dr. Robert G. Spulak, Manager, SOF Program Office, Sandia National Laboratories

THURSDAY, JUNE 17, 2010

Mr. Douglas Richardson, PEO SRSE, HQ USSOCOM

Mr. John Lyle, Deputy Director of Procurement, Competition Advocate General

Mr. Anthony Davis, PM, Command, Control, Communications & Computers, HQ USSOCOM

Ms. Val Shuey, PM, Intelligence, HQ USSOCOM

Mr. William Shepherd, S&T Advisor, HQ USSOCOM

PEO SESSIONS

COL Christopher Miller, USA, PEO Rotary Wing, HQ USSOCOM

Mr. Douglas Richardson, PEO SRSE, HQ USSOCOM

COL Duke Richardson, USAF, PEO Fixed Wing, HQ USSOCOM

COL James Smith, USA, PEO SOF Warrior, HQ USSOCOM

Mr. Steve Armstrong, Deputy Program Executive Officer, Maritime

Mr. Anthony Davis, PM, Command, Control, Communications & Computers, HQ USSOCOM

Ms. Val Shuey, PM, Intelligence, HQ USSOCOM
Mr. William Shepherd, S&T Advisor, HQ USSOCOM

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LOCATION**Tampa Convention Center**

333 S. Franklin Street
Tampa, Florida 33602
(813) 274-8511

Marriott Waterside Hotel

700 South Florida Avenue
Tampa, Florida 33602
(813) 221-4900

TAMPA CONVENTION CENTER**Registration, Exhibition & Networking Breaks**

Exhibit Hall - Mezzanine Level

General Session

Ballrooms B-C

Small Business Session & PEO Sessions

Ballroom A

Senior Industry Executive Forum

Rooms 15-16

Continental Breakfasts

Ballroom D

MARRIOTT WATERSIDE HOTEL**SOFball Reception**

Grand Ballroom

SOFIC 2010 Gala

Grand Ballroom

Wednesday Luncheon

Grand Ballroom

Thursday Luncheon

Florida Ballroom

NDIA POC

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Pat Sutherland
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MONDAY, JUNE 14, 2010

8:00am – 5:00pm	Exhibitor Setup
8:00am – 5:00pm	Conference Registration
12:00pm – 5:00pm	Golf Tournament

TUESDAY, JUNE 15, 2010**SMALL BUSINESS SESSION**

7:00am – 4:30pm	Registration
7:00am – 8:00am	Continental Breakfast
8:00am – 8:15am	SOFIC Small Business Program Introduction/NDIA Introduction • <i>Mr. Anthony Gray, President, NDIA Tampa Bay Chapter</i> • <i>MG Barry D. Bates, USA (Ret), VP Operations, NDIA</i>
8:15am – 8:45am	USSOCOM Small Business Programs • <i>Mr. Christopher Harrington, Director, Small Business Programs, OSBP, HQ USSOCOM</i>
8:45am – 9:15am	USSOCOM Industry Interface and Outreach • <i>Ms. Kelly Stratton-Feix, Technology & Industry Liaison Office (TILO), HQ USSOCOM</i>
9:15am – 10:00am	USSOCOM Government Assistance Panel • <i>Chair: Mr. John Bowen, NDIA Tampa Bay Chapter</i> • <i>Ms. Kelly Stratton-Feix, Technology & Industry Liaison Office (TILO), HQ USSOCOM</i> • <i>Mr. Christopher Harrington, OSBP, HQ USSOCOM</i> • <i>Mr. Shawn Patterson, SBIR, HQ USSOCOM</i> • <i>Mr. Walter Wallace, SBA, Orlando</i> • <i>Mr. John Lyle, Deputy Director, Procurement, HQ USSOCOM</i>
10:00am – 4:30pm	Exhibit Hall Open
10:00am – 10:45am	Networking Break in Exhibit Hall
10:45am – 11:30am	Small Business Success Story • <i>Mr. Greg Celestan, CEO, Celestar Corporation</i>
11:30am – 12:30pm	Large Business Partnering • <i>Mr. Wayne Pizer, Vice-President, Small Business Programs, L-3 Communications</i> • <i>Mr. Rich Mazer, Director, Business Development, SRA International, Inc.</i>
12:30pm – 1:30pm	Lunch on Own

SENIOR INDUSTRY EXECUTIVE FORUM

The Forum will occur on June 16, 9:00am - 11:30am in rooms 15-16. The Forum will be an opportunity for industry and USSOCOM to share their insights, perspectives and priorities relating to USSOCOM acquisition objectives and challenges. The venue is designed to be an informative discussion, with audience participation, among leading industry and government leaders and experts. Participation is limited to two Executive members from each company who carry the authority/responsibility of Chief Executive Officer (CEO), Chief Operating Officer (COO) or President. Advance registration is required.

PEO SESSIONS

Representatives from HQ USSOCOM Program Executive Offices, Program Management Offices and the Science and Technology Directorate will be available on June 16 and 17 for Breakout Sessions to discuss current technology challenges, initiatives, desired capabilities and priorities. This venue will allow for a more casual and personal discussion with the acquisition and science and technology personnel managing SOCOM's portfolio of capabilities.

June 16 Breakout Sessions

BALLROOM A BREAKOUTS

8:15am – 9:00am	PM C4
9:00am – 9:45am	PEO Maritime
9:45am – 10:30am	PEO SRSE
10:30am – 11:15am	S&T
1:15pm – 2:00pm	PEO FW
2:00pm – 2:45pm	PM Intel
2:45pm – 3:30pm	PEO SW
3:30pm – 4:15pm	PEO RW

June 17 Breakout Sessions

BALLROOM A BREAKOUTS

8:15am – 9:00am	PEO SRSE
9:00am – 9:45am	PM Intel
9:45am – 10:30am	PM C4
10:30am – 11:15am	S&T
1:00pm – 1:45pm	PEO Maritime
1:45pm – 2:30pm	PEO RW
2:30pm – 3:15pm	PEO SW
3:15pm – 4:00pm	PEO FW

SOFIC 2010 CONFERENCE

1:30pm – 1:45pm

Welcome Remarks

- *MG Barry D. Bates, USA (Ret), VP Operations, NDIA*

1:45pm – 2:00pm

Welcome Remarks

- *ADM Eric T. Olson, USN, Commander, USSOCOM*

2:00pm – 3:00pm

Keynote Address

- *Mr. James Cluck, Acquisition Executive, USSOCOM*

3:00pm – 3:45pm

Networking Break in Exhibit Hall

3:45pm – 4:30pm

Joint Acquisition Task Force

- *Mr. James Geurts, Deputy Director-Acquisition, USSOCOM*

4:30pm

Exhibit Hall Closed

6:30pm – 8:00pm

SOFball Reception – Marriott Waterside

WEDNESDAY, JUNE 16, 2010

7:00am – 3:30pm

Registration

7:00am – 8:00am

Continental Breakfast

8:00am – 8:15am

Welcome & Administrative Remarks

- *MG Barry D. Bates, USA (Ret), VP Operations, NDIA*

8:15am – 9:00am

PEO Fixed Wing Panel

- *Col Duke Richardson, USAF, PEO Fixed Wing, HQ USSOCOM*
- *Lt Col Eric Forsyth, USAF, PM SOF C-130s, HQ USSOCOM*
- *Maj William Blauser, USAF, PM Precision Strike Systems, HQ USSOCOM*
- *Ms. Margaret McCaskey, PM UAS, HQ USSOCOM*
- *Mr. Daniel Carroll, PM Mission Systems, HQ USSOCOM*

9:00am – 3:30pm

Exhibit Hall Open

9:00am – 10:00am

PEO Rotary Wing Panel

- *COL Christopher Miller, USA, PEO Rotary Wing, HQ USSOCOM*
- *Mr. Scott Thorpe, PM MH-6, HQ USSOCOM*
- *LTC Marcus Varnadore, USA, PM-MH60, PM MH-47, & APM Weapons, HQ USSOCOM*
- *Mr. Brett Kennedy, PM ASE, HQ USSOCOM*
- *LTC Kent Guffy, USA, PM A-160, HQ USSOCOM*
- *Maj Rick Harris, USA, Systems Acquisition Manager Simulation, HQ USSOCOM*

10:00am – 10:30am

Networking Break in Exhibit Hall

10:30am – 11:30am

PEO SOF Warrior Panel

- *COL James Smith, USA, PEO SOF Warrior, HQ USSOCOM*
- *LtCol Renee Holmes, USMC, Program Manager - Family of SOF Vehicles (PM-FSOV), HQ USSOCOM*
- *Mr. Robert (Nyle) Wilcocks, Chief System Engineering and Integration, HQ USSOCOM*

- *Mr. Patrick J. Carley, System Acquisition Manager - Target Engagement Systems (SAM-TES), HQ USSOCOM*
- *Mr. Richard M. Dunnigan, System Acquisition Manager - Survival Support Equipment Systems (SAM-SSES), HQ USSOCOM*

11:30am – 1:00pm

Lunch with Guest Speaker – Marriott Waterside

- *Dr. Robert G. Spulak, Manager, SOF Program Office, Sandia National Laboratories*

1:00pm – 2:00pm

PEO Maritime Systems Panel

- *CAPT Rich Blank, USN, PEO Maritime, HQ USSOCOM*
- *CDR Steve Rutherford, USN, PM Combatant Craft, HQ USSOCOM*
- *CAPT Rich Loth, USN, PM Combatant Craft Med, MK-1, HQ USSOCOM*

2:00pm – 2:30pm

Networking Break in Exhibit Hall

2:30pm – 3:30pm

JSOC/TSOC Panel

3:30pm

Exhibit Hall Closed

6:00pm – 6:45pm

Reception – Marriott Waterside

7:00pm – 10:00pm

SOFIC Gala Dinner – Marriott Waterside

- *The Honorable Dr. Ashton B. Carter, Under Secretary of Defense for Acquisition, Technology & Logistics*

CONFERENCE ATTIRE

Appropriate dress for this conference is business casual for civilians and uniform of the day for military personnel.

GALA DINNER ATTIRE

Civilian: Black Tie/Formal

Army: Mess Dress or Dress Blues

Marine Corps: Mess Dress

Navy: Dinner Dress White Jacket

Air Force: Mess Dress

ID BADGES & TICKETS

Please be sure to bring your ID badge to the conference as it must be worn at all conference functions. "A la carte" tickets for the Tuesday Reception, Wednesday Gala Dinner, and Wednesday & Thursday Lunches must be presented in order to gain access to the function. Additional tickets may be purchased at the registration desk.



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Bridging Capability Gaps for Special Operations, Irregular Warfare, Maritime and Littoral Operations

Get classified insights from experts and leaders in government, industry and academia:

- ▶ Special Missions material and process capability gaps
- ▶ The latest technologies and applications
- ▶ New business and partnering opportunities
- ▶ Presentations from USSO-COM, JFCOM, Service SOC Component Commands, the Intelligence Community, the Navy Expeditionary Component Command

Register Early. Limited Seating Available.
Go to WWW.NDIA.ORG/MEETINGS/0280

AUGUST 10–12, 2010

SPEAKER DONATION

In lieu of Speaker gifts, a donation will be made to Special Operations Warrior Foundation. For additional information, please visit the Foundation website: www.specialops.org.

SURVEY

A survey will be e-mailed to you after the event. NDIA would greatly appreciate your time in completing the survey to help make our event even more successful in the future.

NDIA EVENTS

Thank you for joining us for SOFIC! We hope to see you at a future NDIA event. Please visit www.ndia.org/meetings for a complete listing of the events we offer.

ADVERTISING

Advertise next year in *National Defense* magazine and/or the SOFIC Conference Program & Exhibitor Guide and increase your organization's exposure at SOFIC 2011. *National Defense* and the SOFIC Conference Program & Exhibitor Guide will be distributed to attendees of this event. For more information, please contact Dino Pignotti, NDIA, at (703) 247-2541 or dpignotti@ndia.org.

THURSDAY, JUNE 17, 2010

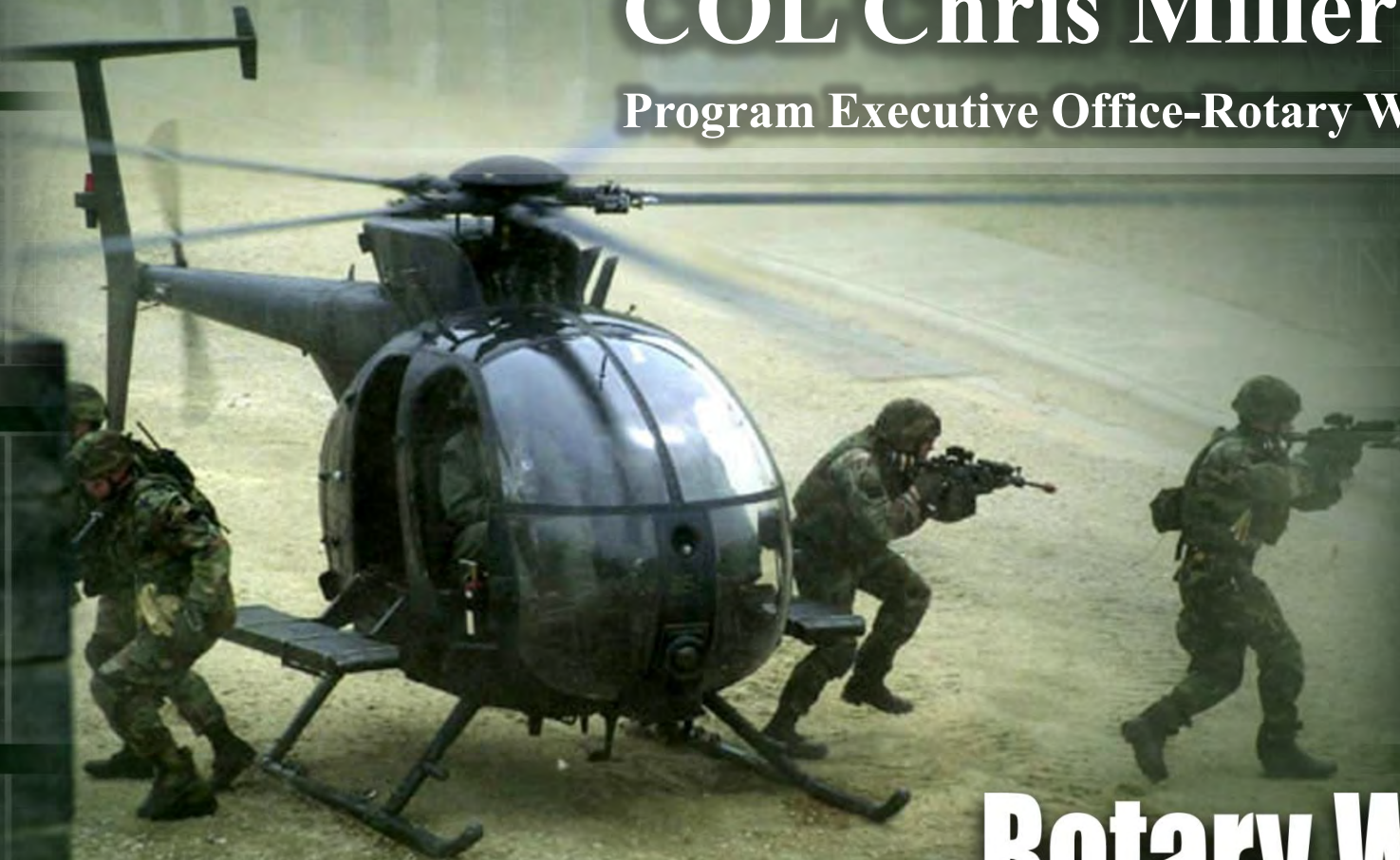
7:00am – 4:00pm	Registration
7:00am – 8:00am	Continental Breakfast
8:00am – 8:15am	Administrative Remarks <ul style="list-style-type: none"> • <i>MG Barry D. Bates, USA (Ret), VP Operations, NDIA</i>
8:15am – 9:00am	USSOCOM Science & Technology Panel <ul style="list-style-type: none"> • <i>Mr. William Shepherd, S&T Advisor, HQ USSOCOM</i> • <i>Mr. Howard Strahan, Chief, Applied Research, HQ USSOCOM</i> • <i>Mr. Shawn Martin, Chief, Technology Development, HQ USSOCOM</i> • <i>Mr. Bill Hellemn, Chief, Technology Demonstrations & Experimentation, HQ USSOCOM</i> • <i>LtCol John Coglianesi, USMC, Chief, Technology Exploitation, HQ USSOCOM</i>
9:00am – 10:00am	SOF Operator Vignettes <ul style="list-style-type: none"> • <i>U.S. Air Force Special Operations Command</i> • <i>U.S. Marine Corps Forces Special Operations Command</i> <p>Component Command Representatives will share operational vignettes drawn from recent in-the-field experiences with the intent of providing attendees unclassified feedback regarding existing operational equipment/systems capabilities/performance, desired enhancements and capability gaps.</p>
9:00am – 2:30pm	Exhibit Hall Open
10:00am – 10:30am	Networking Break in Exhibit Hall
10:30am – 11:30am	SOF Operator Vignettes (Cont.) <ul style="list-style-type: none"> • <i>U.S. Navy Special Warfare Command</i> • <i>U.S. Army Special Operations Command</i>
11:30am – 1:00pm	Lunch with Guest Speaker – Marriott Waterside <ul style="list-style-type: none"> • <i>Mr. Shay Assad, Director, Defense Procurement & Acquisition Policy, OUSD(AT&L)</i>
1:00pm – 2:00pm	Contracting Panel <ul style="list-style-type: none"> • <i>Mr. John Lyle, Deputy Director, Procurement, HQ USSOCOM</i> • <i>Mr. Greg Sharp, Attorney, HQ USSOCOM</i> • <i>Col Brett McMullen, USAF, Chief, Mission Support, HQ USSOCOM</i> • <i>Mr. Craig Bowers, Contracting Officer, HQ USSOCOM</i> • <i>Mr. Kevin Jans, Contracting Officer, HQ USSOCOM</i> • <i>Ms. Karen Fredrickson, Contracting Officer, HQ USSOCOM</i>
2:00pm – 2:30pm	Networking Break in Exhibit Hall (Last Chance to View Exhibits)
2:30pm	Exhibit Hall Closed
2:30pm – 4:00pm	PEO Surveillance Reconnaissance/Surveillance Exploitation and Direct Reporting Program Managers Panel <ul style="list-style-type: none"> • <i>Mr. Douglas Richardson, PEO SRSE, HQ USSOCOM</i> • <i>Ms. Val Shuey, PM, Intelligence, HQ USSOCOM</i> • <i>Mr. Anthony Davis, PM, Command, Control, Communications & Computers, HQ USSOCOM</i>
4:00pm	Closing Remarks

Special Operations Forces Industry Conference



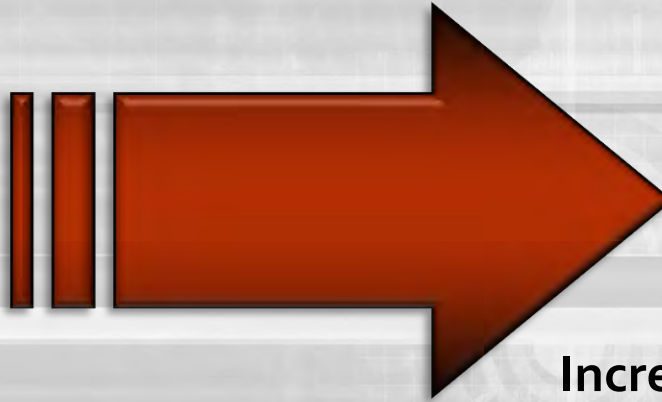
COL Chris Miller

Program Executive Office-Rotary Wing



Rotary Wing

Rotary Wing Lift Transformation



Lighter & Faster

Increase Payloads

Increase Lethality

Increase Survivability

Increase Situational Awareness

Reduce Crewmember Workload

Seamless & Quick Aircraft Integration



Rotary Wing

UH-60G (61)



Technology Areas of Interest

- Aircraft Occupant Ballistic Protection System (AOBPS)
- Hostile Fire Indicating System (HFIS)
- Reduced Optical Signature Emissions Solution (ROSES)



Aircraft Occupant Ballistic Protection System (AOBPS)

- **Current state of the technology**
 - Ballistic protection against small arms fire
 - Transparent: $>10 \text{ lbs/ft}^2$
- **Ongoing efforts**
 - USSOCOM Phase II Small Business Innovation Research (SBIR) – Abrasion Protection
 - Army Research Laboratory (ARL) Research & Development of lightweight transparent armor



Aircraft Occupant Ballistic Protection System (AOBPS) (Con't)

- Where we want to be
 - Weight is critical
 - Transparent: $\leq 3.5 \text{ lbs/ft}^2$
 - Large flat & curved surfaces
- Potential game changers
 - New lightweight materials for strike plate component of a layered transparency solution
 - New manufacturing techniques for large & complex shapes



Hostile Fire Indicating System (HFIS)

- **Current state of the technology**
 - Numerous potential systems but no single system has demonstrated the ability to discern hostile intent against the full spectrum of small arms threats
- **Ongoing efforts**
 - CERDEC and United Kingdom Ministry of Defense Common Missile Warning System HFI
 - Multi-Function Threat Detector JCTD



Hostile Fire Indicating System (HFIS) (Con't)

- Where we want to be
 - HFIS solution that provides hostile intent discrimination, azimuth, elevation, and range to hostile fire sources, geolocates and displays the threat on a digital map, and cues targeting systems or weapons
 - Multi-Spectral Solution is probably required to meet User requirements
 - Combination of Ultra-Violet (UV), Infrared (IR), and Acoustics
- Potential game changers
 - Lightweight, integrated, and multi-spectral warning sensors with minimal A-Kit impacts



Reduced Optical Signature Emissions Solution (ROSES)

- **Current state of the technology**
 - Advanced Infrared Countermeasures (AIRCM), Midas
 - XM-216
- **Ongoing efforts**
 - USSOCOM Phase II SBIR: Low Visibility Flare
- **Where we want to be**
 - Covert & effective protection against current & advanced IR Surface to Air Missiles (SAM)
 - Use current flare dispensers



Reduced Optical Signature Emissions Solution (ROSES) (Con't)

- **Potential game changers**
 - Lightweight, integrated, multi-functional IR countermeasures
 - Alternative Reduced Optical Solution



Future Unfunded Technology Interest

- **Low visibility landing solution**
 - Brown Out / White Out counter measures
 - Cable Warning /Obstacles Avoidance
- **Lightweight Fire and Forget Weapon**
- **Synthetic Vision / Advanced Distributed Aperture System**
- **Aircraft with rapid ingress/egress capability with true helicopter capabilities on the objective**



Special Operations Forces Industry Conference



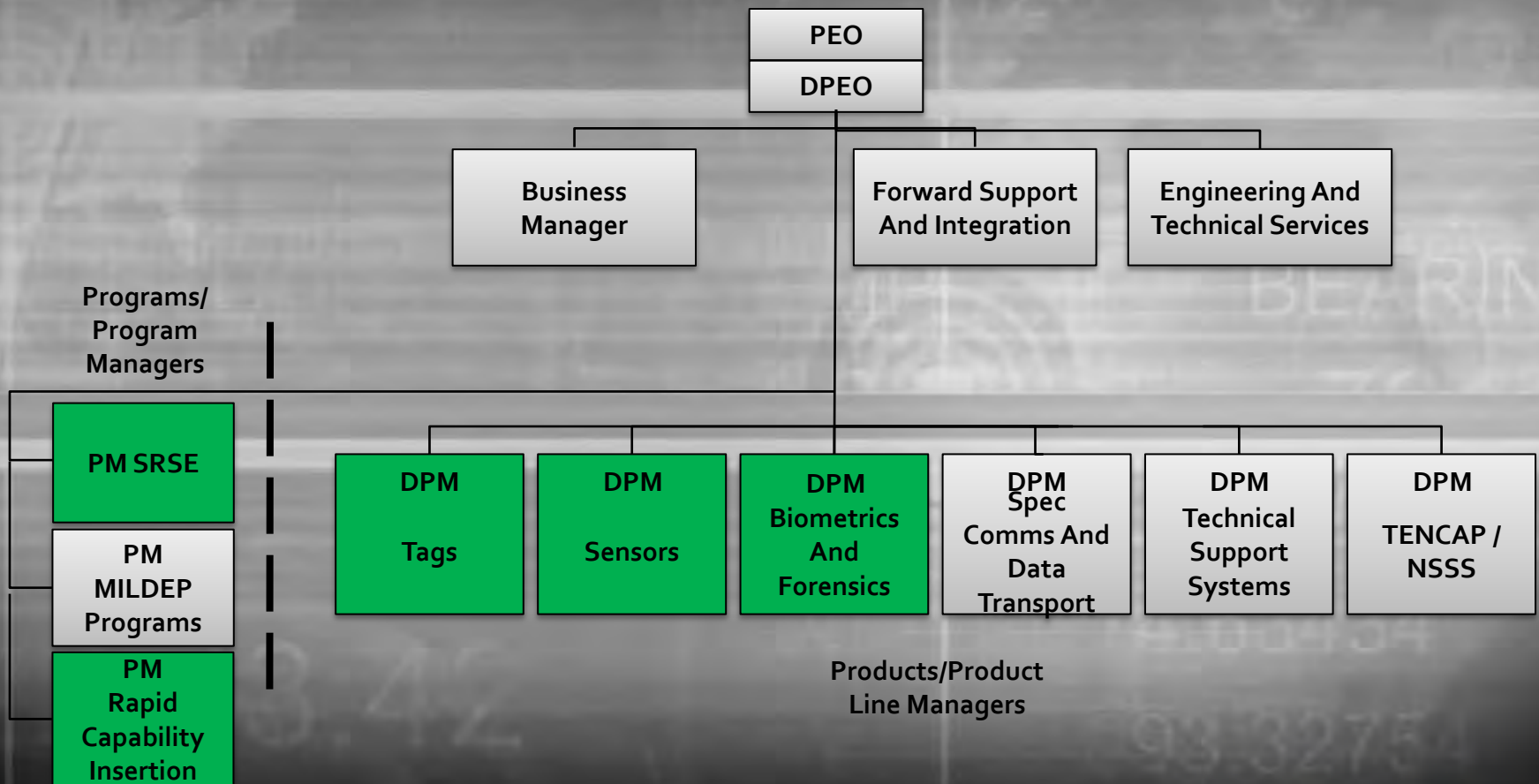
Mr. Douglas Richardson

Program Executive Officer-SRSE

The background of the slide is a collage of images related to special operations. On the left, there is a vertical stack of equipment, including a night vision device and a sensor. In the center, there is a mounted sensor or camera. On the right, there is a soldier in camouflage gear, kneeling and operating a laptop. A large, multi-lobed antenna is also visible in the background.

**Special Reconnaissance
Surveillance and Exploitation**

Operating Structure



Special Reconnaissance

Surveillance and Exploitation



PM-SRSE

- Rapid And Responsive Capabilities Support To Forward-Deployed Special Operations Forces
- Capabilities Transition And Enhancement
 - Budgetary Constraints
 - Conventional Footprint Reductions
- Aggressive Pursuit Of Program Execution And Acquisition Business Model Innovations
- PEO Intent: Enable Acceleration Of The Force Through Operator Engagement And Decentralized Action
- Desired End-State: Acquisition At The Speed Of War

Special Reconnaissance
Surveillance and Exploitation



PM Tags

- Tagging And Tracking
- Size, Weight, Power Sources, Low Probability Of Detection (LPD), Low Probability Of Intercept (LPI)
- ISR Asset Interoperability With Tags And Beacons
- Global, Precise, Near-Real-Time Tag, Track, And Locate (TTL) Items of Interest
- Low-Cost Over-The-Horizon TTL Devices

Special Reconnaissance
Surveillance and Exploitation



PM Sensors

- Improved Alternate Power Sources/Management
- Improved Optical Solutions
- Reprogrammable, Remote-Controlled Miniature Sensors
- Triple Canopy Emplacement Solutions
- Ruggedized, Portable Digital Video Recorder (> 128 GB)

Special Reconnaissance
Surveillance and Exploitation



PM Biometrics & Forensics

Biometrics

- Stand-Off / Remote Recognition And Matching
 - Iris / Facial / Other
- Non-Optical Imaging Sensors For Fingerprint Capture And Matching
 - Ultrasound / IR / RF
- Rapid DNA Matching

Special Reconnaissance
Surveillance and Exploitation



PM Biometrics & Forensics (con't)

Forensics

- Hidden Chamber And Hidden Material Detection
- Integrated Device For NBC Detection
- Explosives Composition And Purity Measurement
 - Peroxide / Fertilizer-Based HME
- Cell Phone PIN Code Bypass / Cracking

Special Reconnaissance
Surveillance and Exploitation



PM-RCI

- Device Size And Weight Reductions, Operating Life Extensions
- Unique Observable Detection, Identification, And Tracking Items Of Interest
- Over-The-Horizon Data Transmission
- Initiatives
 - Nanotechnology
 - Biotechnology
 - Chemistry

Special Reconnaissance
Surveillance and Exploitation



Special Operations Forces Industry Conference



Col Duke Richardson

Program Executive Officer-Fixed Wing

Fixed Wing

Find - Infiltrate - Finish

MOBILITY

- CV-22
- MC-130E Talon
- MC-130H Talon II
- MC-130P Shadow
- MC-130 Recap
- MC-130W Combat Spear
- EC-130J
- Non-Standard Aviation Systems



ISR

- MQ-1
- MQ-9
- EUAS
- MEUAS
- SUAS
- Global Observer



MISSION SYSTEMS

- Silent Knight Radar
- Directional Infrared Countermeasures
- Mission Planning
- Training Systems



STRIKE

- AC-130H Spectre
- AC-130U Spooky
- MC-130W Dragon Spear
- SOPGM
- AC-130 Recap

Fixed Wing



- Cost of Ownership
- Landing in Brownout Conditions
- Enhanced Situational Awareness
- Aircraft Self Protection
- AC-130U/MC-130H Mission Computers
- Light-Weight Large-Caliber Gun
- Low-Cost Loads for Common Launch Tubes (CLTs)
- High-Resolution NVG-Compatible Airworthy Displays
- Improved TF/TA Capabilities and Techniques
- Time-Sensitive, Interoperable Mission Planning
- Training System Enhancements
- Lethal Miniature Aerial Munitions
- Mid-Endurance UAS
- UAS Endurance
- Austere UAS Launch and Recovery
- Plug-and-Play UAS Payloads
- UAS Data Links
- BLOS C2 for Small and Mid-Sized UAS
- Reduced UAS Signatures

Fixed Wing

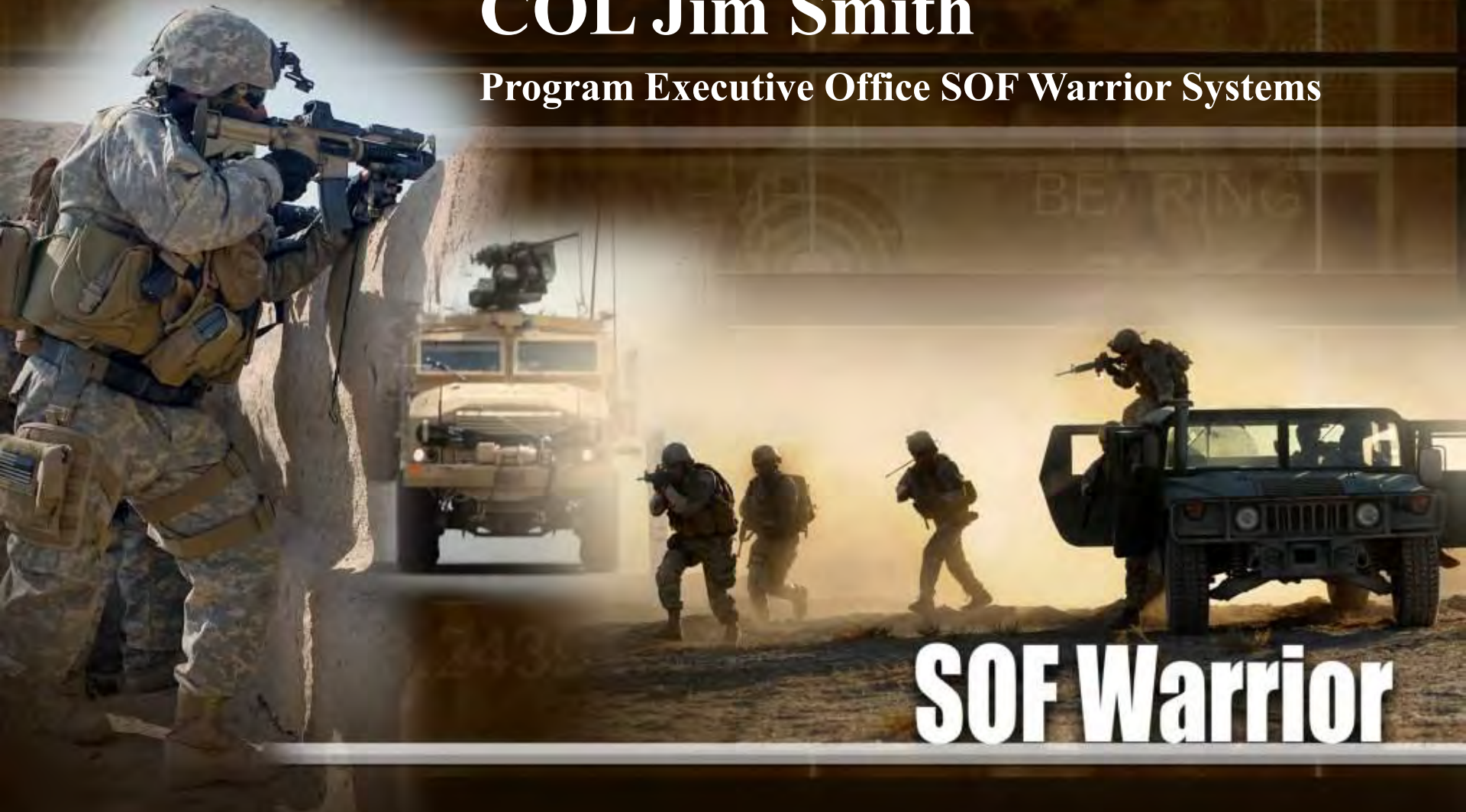


Special Operations Forces Industry Conference



COL Jim Smith

Program Executive Office SOF Warrior Systems



SOF Warrior

Agenda

- Mission
- Organization
- Who We Are
- What We Do
- PEO Challenges
- Competitive Opportunities
- Technology Challenges
- TILO Points of Contact
- Questions



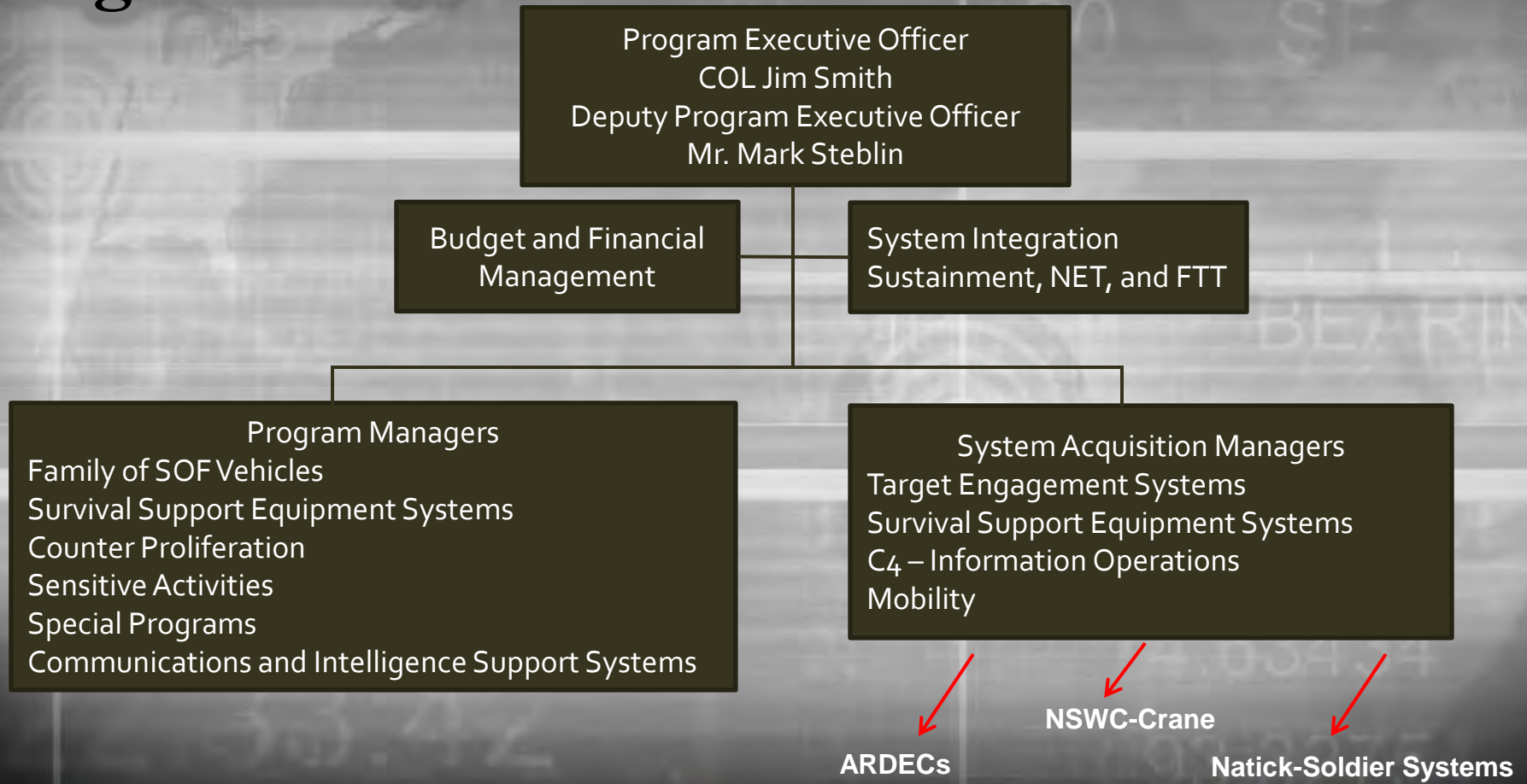
SOF Warrior

Mission

**Equip Special Operations Forces for Decisive
Engagement While Conducting Ground
SOF Activities
and
Counter Terrorism and Counter WMD
Proliferation Missions**



Organization



Who We Are



**Advanced Lightweight
Grenade Launcher**



MK13 Sniper Rifle w/ INOD



**AN/PVS-15 Night Vision
Goggle**



MK48 Lightweight SOF Machinegun

**Modular Integrated
Communications
Helmet**



EGON Jammer



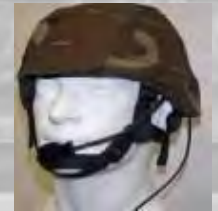
**RG-31 Medium Mine
Protected Vehicle**



SOF Demolition Kit



**Multi-Purpose Anti-Armor
Anti-Personnel Weapon
System**



**Handheld
Laser Marker**



Ground Mobility Vehicle



**SOF Laser
Acquisition Marker**



Combat Casualty Care Kit



**Body Armor/
Load Carriage System**



SOF Combat Assault Rifle



Mobility



- **SOF Unique**
 - Single seat 4x4 All Terrain Vehicles procurement and fielding
 - Side-by-Side 4x4 All Terrain Vehicles procurement and fielding
 - Non-Standard Commercial Vehicle procurement and fielding
 - Specialized Reconnaissance Assault Transport System fielding
 - Internally Transported Vehicle development
- **SOF Modifications to Service Common**
 - Ground Mobility Vehicle
 - MRAP Family (RG-31, RG-33, AUV, and MATV)



Target Engagement



- **Visual Augmentation Systems**
 - Head Borne: PVS-15A, Clip-On Thermal Imager, Digital Fusion Goggles, Panoramic Night Vision Goggle
 - Weapon Mounted: Clip-On Night Vision Devices, Direct Optic Magnified Sights, Red Dot Aiming Sights, Sniper Sights
 - Handheld: Thermal Imagers, Laser Acquisition Markers
 - Vehicle Mounted: Driver, Short-Range, and Long-Range Mobility Systems
- **Weapons and Accessories**
 - Combat Assault Rifles
 - Machine Guns
 - Sniper Rifles
 - Laser Pointers, Illuminators, and Suppressors



Survival



- Medical: Operator and Medic Kits, Causality Evacuation Kits
- Body Armor, Soft Armor, and Load Carriers
- Combat Uniforms
- Helmets and Mounts
- Eye protection and Headsets



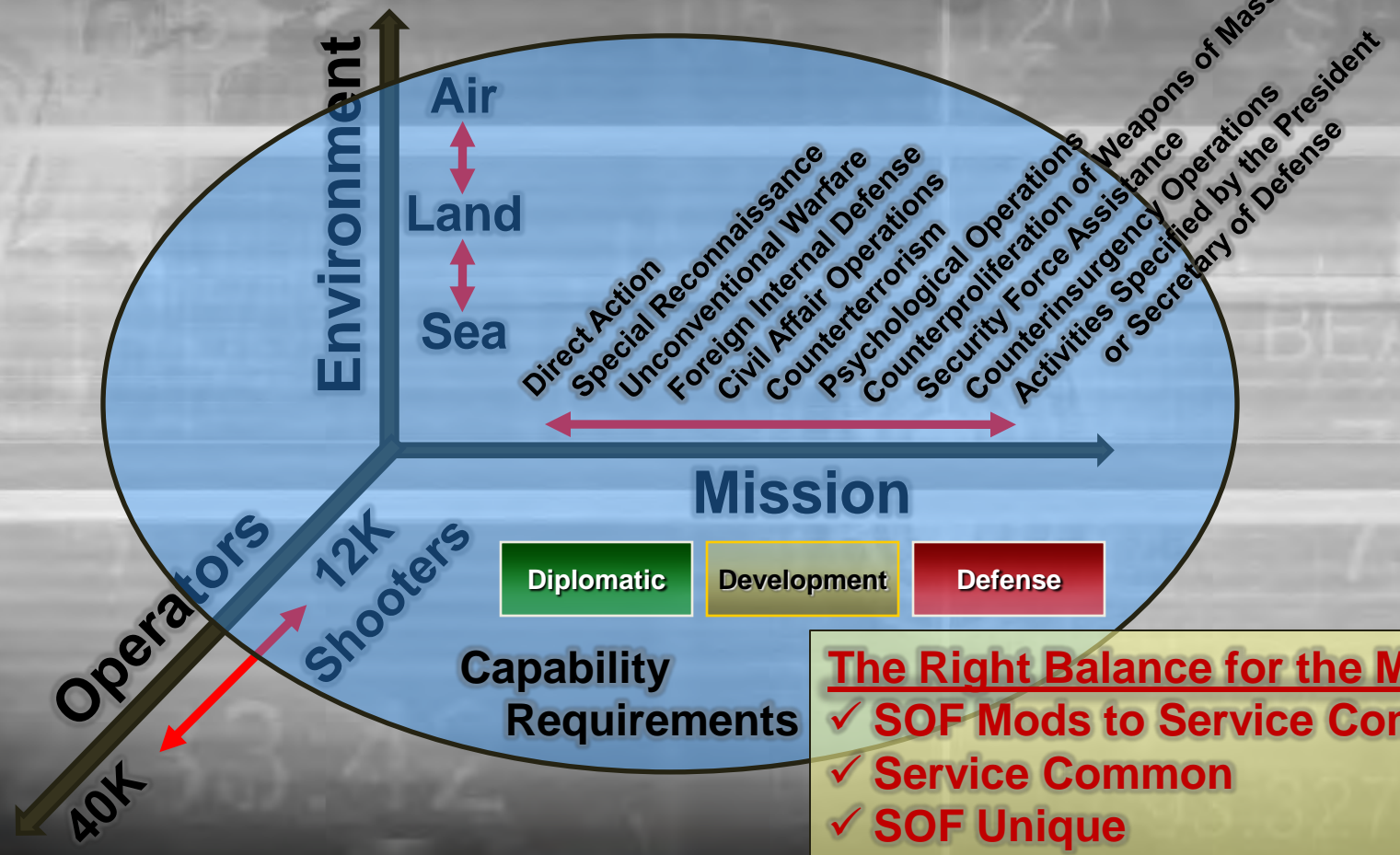
What We Do (June 2009 – May 2010)

- Number of Contracts/Orders 509; Percent Competitive 44%
 - Clip-On Thermal Imager (COTI) (\$32M, IDIQ, 5 Years)
 - Mine Resistant Ambush Protected – All Terrain Vehicle (MATV) (\$136M, Production, 2 Years)
 - I² Tubes (\$30M, IDIQ, 3 Years)
- Funds Executed:
 - RDT&E \$99M
 - PROC \$561M
 - O&M \$358M
- Equipment Fielded
 - SOF Combat Weapons 3,704
 - SOF Weapons Accessories 28,880
 - Visual Augmentation Devices 8,309
 - SOF Vehicles 451
 - Survival Support Equipment Systems 83,108



SOF Warrior

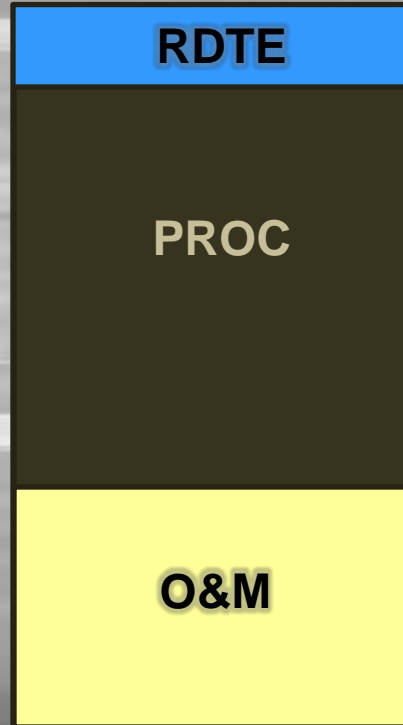
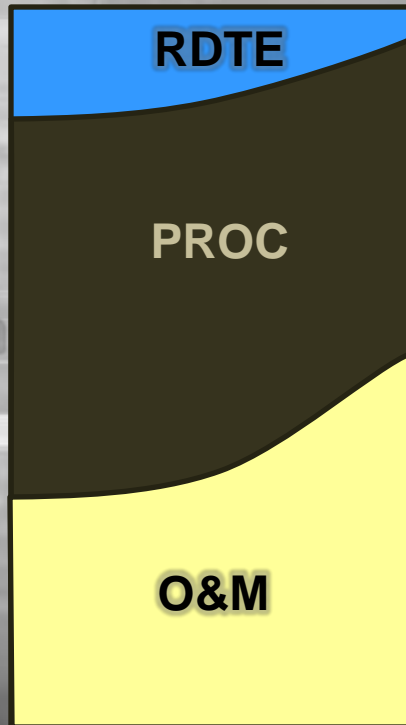
Convergence of SOF Unique



PEO Challenges

Current Profile

Desired Profile



MFP-11
Obligation
Authority
\$

Risk Mitigation Focus Areas

← National-to-Theater
Transitions

← SOF-unique to Service-
Common

← Control Sustainment Costs



Opportunities Next 12-18 Months



NON-STANDARD MATERIAL: SOF operators must be proficient with a wide variety of weapons. To support this requirement USSOCOM purchases small quantities (10-100) of weapons and ammunition which is not within the U.S. inventory. Weapons may include AK-47, RPG-7, 28mm Mortars, MP-5, and associated ammunitions. In some cases the Government may accept delivery overseas.

Acquisition Strategy

Blanket Purchase Agreement
Vendor bids due normally within 30 days

Period of Performance

Five Years

Milestones

RFP Release August 2010
Awards per Task Orders

Point of Contact

PEO SW

Funding

Current average: 1.5M annually

Current Contract/OEM

22 separate vendors



Opportunities Next 12-18 Months



IMPROVED FLASH-BANG GRENADE: USSOCOM is looking for a MK13 replacement. Characteristics sought include Loudness, Flash (as measured in intensity, duration, and size of the fire ball), Reduced Smoke, Hand-Safe (even if device was to explode in the users hand), and Non-Lethal.

Acquisition Strategy

Full and Open Competition to acquire replacement item for the current MK13

Period of Performance

TBD

Milestones

RFP Release August 2010
Contract Award March 2011

Point of Contact

PEO SW

Funding

TBD, annual inventory use and objective is estimate at 15,000

Current Contract/OEM

NSWC-Crane



Opportunities Next 12-18 Months

ENHANCED CARBINE OPTICAL SYSTEM: USSOCOM is seeking a replacement for the SU-230 and SU-230A articulated telescopes. A variable powered sight compatible with existing clip-on MDNS systems is required.

Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 2nd Qtr FY11
Award 1st Qtr FY12

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

ELCAN



SOF Warrior

Opportunities Next 12-18 Months

ENHANCED CARBINE OPTICAL SYSTEM FOR CLOSE QUARTER COMBAT: USSOCOM is seeking a replacement for the SU-231 reflex sight. An open field of view, quick target acquisition sight compatible with existing night vision capabilities is required.

Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 2nd Qtr FY11
Award 1st Qtr FY12

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

EOTECH



SOF Warrior

Opportunities Next 12-18 Months

BACKPACK: Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 4thQtrFY11
Award May/June 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

Mystery Ranch
S.O. Tech



Opportunities Next 12-18 Months

EYE PROTECTION (SPECTACLES AND GOGGLES):

Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2010
Award May 2011

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

Oakley



Opportunities Next 12-18 Months

SOFT ARMOR: Follow-on 5 year IDIQ contract with estimated \$350M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2010
Award Jun 2011

Point of Contact

PEO SW

Funding

Estimated \$350M ceiling
Annual procurements based on Component requirements

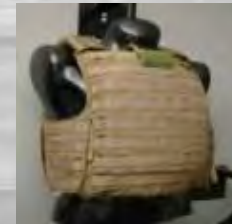
Current Contract/OEM

BAE
Safari-Land



Opportunities Next 12-18 Months

**MODULAR SUPPLEMENTAL ARMOR PROTECTION
(EXTREMITY PROTECTION):** Follow-on 5 year IDIQ
contract with estimated \$50M ceiling. Annual
procurements vary and are based on
USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2011
Award Sep 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component
requirements

Current Contract/OEM

Ceradyne



Opportunities Next 12-18 Months

LOAD CARRIAGE SYSTEMS (VARIOUS): Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2011
Award Jun 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

ADS Corp
Eagle



Opportunities Next 12-18 Months

VISUAL AUGMENTATION SYSTEM (VAS) MOUNTS:

Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2012
Award May 2013

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

Norotos
Wilcox



Opportunities Next 12-18 Months

BALLISTIC PLATE: Follow-on 5 year IDIQ contract with estimated \$350M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2011
Award Sep 2012

Point of Contact

PEO SW

Funding

Estimated \$350M ceiling
Annual procurements based on Component requirements

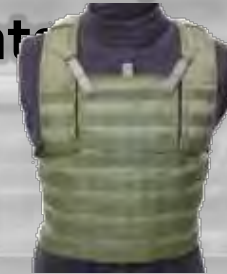
Current Contract/OEM

Ceradyne



Opportunities Next 12-18 Months

ARMOR VEST: Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2011
Award Jun 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

BAE
Safari-Land
Eagle



Opportunities Next 12-18 Months

MARITIME COMMUNICATIONS: Follow-on 5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Jul 2012
Award Feb 2013

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

Television Equipment Associates



Technology Challenges

Integrated Systems

- Reduced Size Weight and Power (SWaP)
- Integrated NVG & Weapon Sights, Communications, Power Supply
- Load: Body Armor, Radio Antennae
- Power: Rechargeable, Renewable, Lightweight, Long Endurance, System Level Power Management
- Vehicle: C4ISR, CROWS, NAV, FBCB2

Signature Reduction

- Soldier: Low Visibility (I2, IR) in Battlespace, Concealable Armor
- Weapons: Flash and Bang, Alternative to Near-IR Laser Pointers for Night Aiming
- Vehicles: Low Visibility kits for Discrete Operations

Improved Situational Awareness

- Beyond I2 Tubes
- Regain "the Night" and Covert Operations



Technology Challenges (cont)

Wireless Technology

- Secure and Hardened
- Helmet and Weapon Sight Integration
- Tactical Video & Comms

Virtual Training and Rehearsal

- System Training and Force on Force Rehearsal
- Desktop, Laptop, and Handheld Interface

Survivability

- Soldier: Light, Flexible, Increased Coverage, Laser Protection for Combat Eyewear
- Vehicle: Transparent, Lightweight, Increased Visibility/SA, Survivable Tires



SOF Warrior

Questions



SOF Warrior



Special Operations Forces Industry Conference



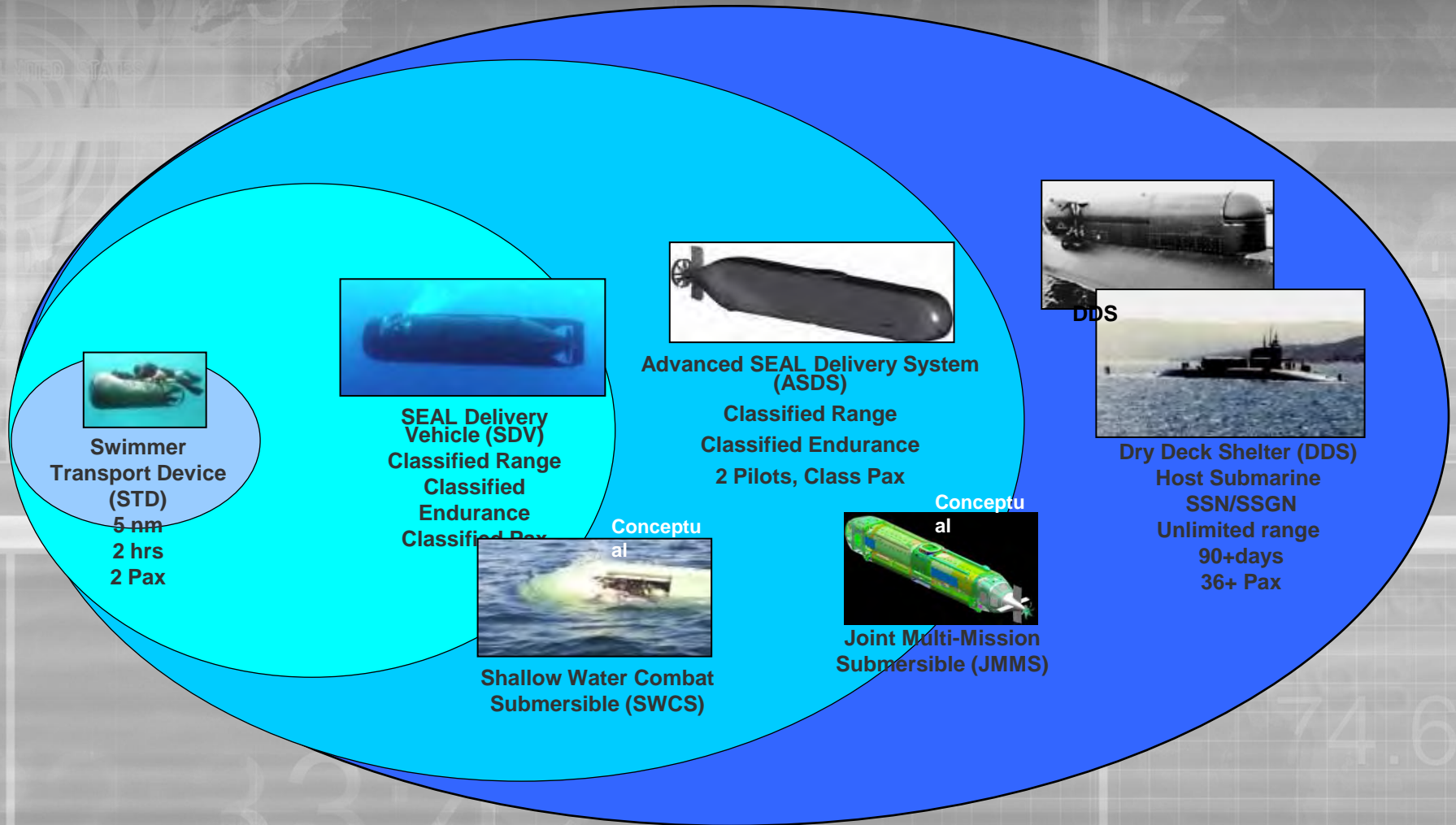
Stephen Armstrong

Deputy Program Executive Officer-Maritime

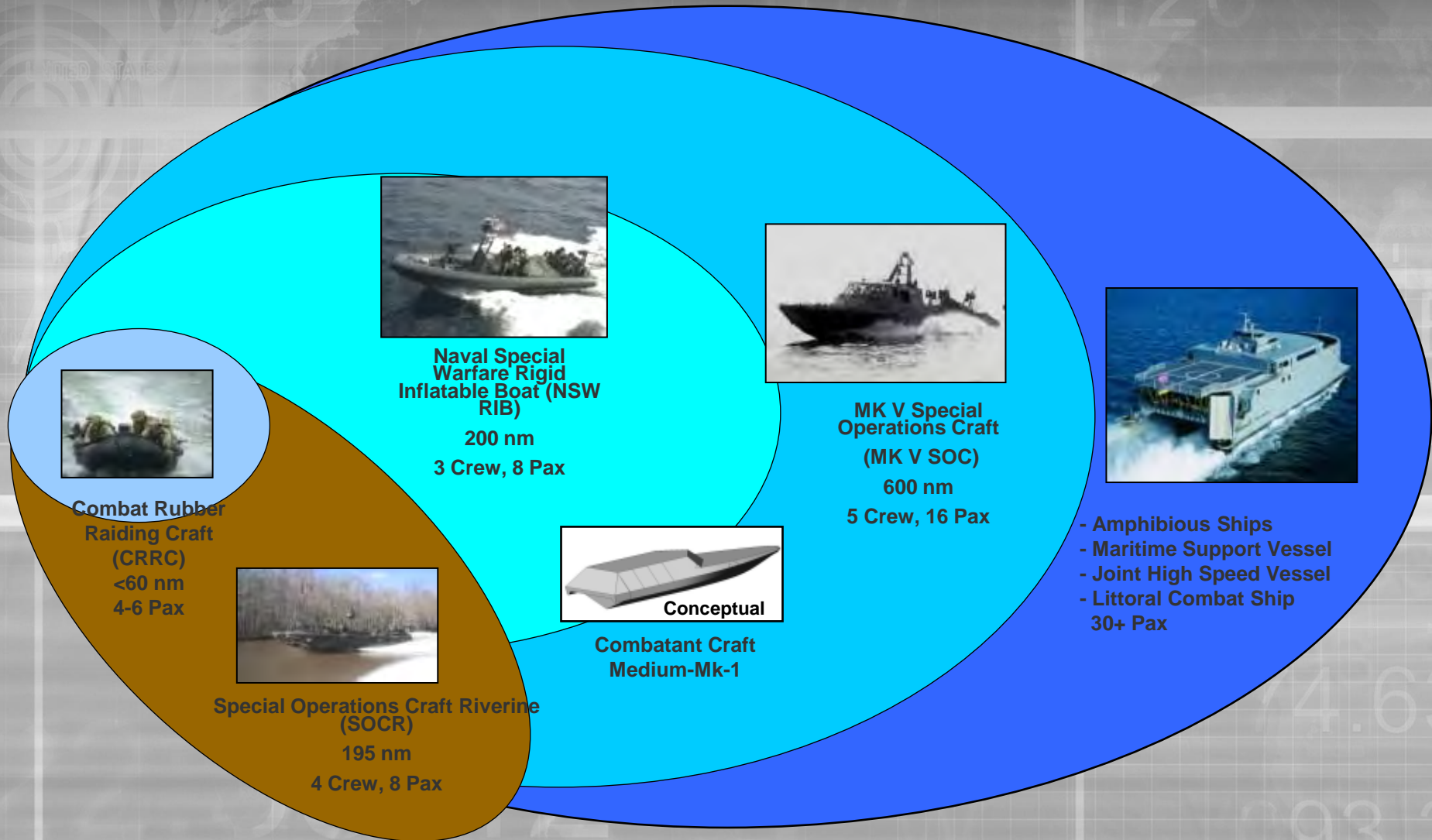
The background of the slide is a composite image. On the left, a diver in a dark wetsuit and mask is working on a large, dark, cylindrical object underwater. On the right, a black rigid inflatable boat (RHIB) is moving across the water, with several crew members visible on board. The text "Maritime Systems" is overlaid in large white letters at the bottom right.

Maritime Systems

Undersea Mobility Systems



Surface Mobility Systems



Technology Areas of Interest

- Undersea Vehicle Energy Storage Systems
- Advanced Surface Craft Power Systems
- Combat Swimmer Thermal Protection Systems
- Lightweight, Small Volume, CO₂ Removal Technology for Underwater Breathing Apparatus and Undersea Platforms
- Lightweight, Submersible, Multi-Fuel Outboard Engine
- Secure Wireless Intercom System
- High Speed Communications
- Low-Cost Dry Submersible Hull, Mechanical & Electrical Technology
- Dynamic Ride Impact Mitigation



Maritime Systems



Undersea Vehicle Energy Storage Systems

- **Current Status:**
 - Undersea vehicles require energy storage systems which are significantly higher density (e.g., energy/volume and energy/weight) than those currently available.
 - Silver-Zinc and Lithium-Ion batteries provide 90 to 1,300 Kilo-Watt Hours (kWh) of electrical energy (approximately 0.30 kWh/liter and 0.12 kWh/kilogram displacement (including the pressure proof housing)).



Maritime Systems



Undersea Vehicle Energy Storage Systems

- Where We Want to Be:
 - Store and deliver 1.5 kWh/liter and/or 0.6 kWh/kilogram of electrical energy.



Maritime Systems



Advanced Surface Craft Power Systems

- **Current Status:**
 - SOF combatant craft require advanced power systems that provide significantly better power/weight ratios (e.g., maximum hp/lb) at top speed and significantly better fuel efficiency (e.g., (lb/hp-h)) at the most efficient speed (cruise speed).
 - Current craft engines have a power/weight ratio of approximately 0.38 hp/lb at maximum speed and a specific fuel consumption of 0.35 lb/hp-h at cruise speed.



Maritime Systems



Advanced Surface Craft Power Systems

- **Where We Want to Be:**
 - **Power/weight ratio of 1.0 hp/lb and/or a fuel efficiency of 0.1 lb/hp-h at cruise speed.**



Maritime Systems



Combat Swimmer Thermal Protection

- **Current Status:**
 - Combat swimmers require thermal protection from cold and warm ambient water temperatures.
 - Current diving suits utilize materials such as Thinsulate or Polartec as an insulation material to provide protection for short periods of immersion, or electrical resistive systems.



Maritime Systems



Combat Swimmer Thermal Protection

- **Where We Want to Be:**
 - Thermal protection in ambient water temperatures anywhere between 2°C and 35°C for a minimum duration of 12 hours. Maintain diver's dexterity and core temperature at 37°C.
 - Provide protection for diver's extremities and core, such that the diver will not have a reduced off-gassing in the extremities due to decreased blood flow.



Maritime Systems



Lightweight, Small Volume CO₂ Removal Technology

- **Current Status:**
 - Existing underwater breathing apparatus (UBA) systems (Mk 25 and Mk 16) have an absorbent volume between 2.9 and 4.0 liters.
 - The ratio of CO₂ volume absorbed to absorbent volume (VRCO₂) at 21°C for each of these systems is VRCO₂=120.
 - As the temperature decreases, present systems remove less CO₂.



Maritime Systems



Lightweight, Small Volume CO₂ Removal Technology

- Where We Want to Be:
 - CO₂ removal technologies that can meet or approach a performance objective of 240 VRCO₂ over a temperature range of 2°C to 35°C and demonstrates equivalent or decreased breathing resistance as current systems.



Maritime Systems



Lightweight, Submersible Multi-Fuel Outboard Engine

- **Current Status:**
 - Combat swimmers currently use lightweight, submersible 30 hp Improved Military Amphibious Reconnaissance System (IMARS) gasoline outboard engines.
 - The IMARS is projected to become obsolete due to parts unavailability
 - DoD has directed the phase out of gasoline fueled engines from all shipboard operations to improve shipboard safety and simplify logistics
 - Currently fielded 55 hp multi-fuel engine weighs 250 lbs, which is too heavy for some missions.



Maritime Systems



Lightweight, Submersible Multi-Fuel Outboard Engine

- **Where We Want to Be:**
 - SOF has a requirement for a 30 hp multi-fuel engine that will:
 - Operate on JP5, JP8, kerosene, and as an emergency fuel, marine diesel.
 - Weigh no more than 150 lbs.
 - Fit through a 30-inch diameter circular hatch.
 - Be capable of being submerged to a minimum depth of 66 feet seawater for a period of 18 hours, then brought to the surface and started within 10 minutes.



Maritime Systems



Secure Wireless Intercom System

- **Current status:**
 - **AN/VIC-3 wired intercom**
 - Constrains Crew mobility by restrictive length of intercom cables
 - Trip hazards and cable damage caused by SWCC and embarked SOF operator movement, an inherent wired intercom weakness
 - Temporary loss of communications caused by crew members disconnecting from one station to move to another station, creating situations when the craft Officer in Charge was unable to provide timely direction to crew during tactical operations
 - **Each crew member currently carries AN/PRC-148 MBITR hand held radio**
 - Type-1 encrypted, half duplex, no access to boat radios
 - **Numerous manufacturers of Wireless Intercom systems, but none at the present time is capable of meeting the performance parameters**



Maritime Systems



Secure Wireless Intercom System

- Where we want to be:
 - NSA approved Type-1 encrypted full duplex Wireless Intercom
 - Provide crew access to existing boat radios with no EMI/EMC issues
 - User worn transceiver as small as possible, battery life ≥ 12 hours
 - Water immersion at one meter for 12 hours and IP67 rated



Maritime Systems



High Speed Communication

- **Current status:**
 - Mobility craft have low to medium HF/VHF/UHF speed communications that provide data rates on the order of 64 Kbps.
 - These systems restrict ability to receive and distribute timely, robust, situational awareness information to and from other theater participants.
 - Existing high data rate satcom antennas are too big or too expensive to be used on combatant craft.



Maritime Systems



High Speed Communication

- Where we want to be:
 - Equip craft with IP-67 rated, low-mass (<100 Lbs), low-profile (<10" in height), low-cost (<\$100K), high data-rate Ku-band SATCOM communications capability that provides zenith to near-horizon coverage achieving data rates up to 1.5 Mbps downlink and 512 Kbps uplink while the craft is on-the-move.



Maritime Systems



Low-Cost Dry Submersible Hull, Mechanical & Electrical (HM&E) Technology

- **Current status:**
 - SOF Combatant Submersibles (CS) consist of low-cost wet swimmer delivery vehicles and a large dry submersible. Dry submersible design and construction must meet stringent underwater vehicle and hyperbaric system safety standards overseen by independent certification/classification agencies (e.g. NAVSEA, ABS).
 - Wet vehicle performance is inherently limited by the human factors limits associated with diving.
 - Current dry submersible is the ASDS, with a design and construction cost of \$200-400M, approaching that of a warship. A significant portion of that cost is in construction of the HM&E sub-systems.



Maritime Systems



Low-Cost Dry Submersible Hull, Mechanical & Electrical (HM&E) Technology

- Where we want to be:
 - SOF is interested in dry submersible HM&E technologies that can be certified/classified and can meet or approach a unit construction cost of \$20M.
 - Transportable in ISO Container
 - ABS Classed Diver Lock-Out Submersible
 - 100 NMI Range @ >5 knots
 - 5 Fully Equipped Personnel



Maritime Systems



Dynamic Ride Impact Mitigation

- **Current status:**
 - Current craft have rigid hull form with passive, shock-absorptive seats with damping characteristics that are platform specific, location and occupant agnostic, and generally fail to ameliorate injurious shock accumulations over time.
 - Current systems provide a daily equivalent static compression dose, normalized to an 8-hour day (S_{ed8}) rating of no better than 4.7 MPa per ISO 2631-5:2004.



Maritime Systems



Dynamic Ride Impact Mitigation

- Where we want to be:
 - Hull forms and / or seating systems / combinations that significantly mitigates both short and long-term shock effects on all occupants in all sea-state conditions and speeds, achieving a S_{ed} value of less than 3.8MPa.



Maritime Systems



Special Operations Forces Industry Conference



Mr. Tony Davis
Program Manager-C4P

The background of the slide is a photograph of a C-4P (Command, Control, Communications, and Computers) mission management center. Two operators are visible, wearing headsets and working at consoles with multiple computer monitors. The room is filled with electronic equipment and cables. A large satellite dish is visible on the left side of the frame.

**C-4 Command, Control
Communications, and Computers**

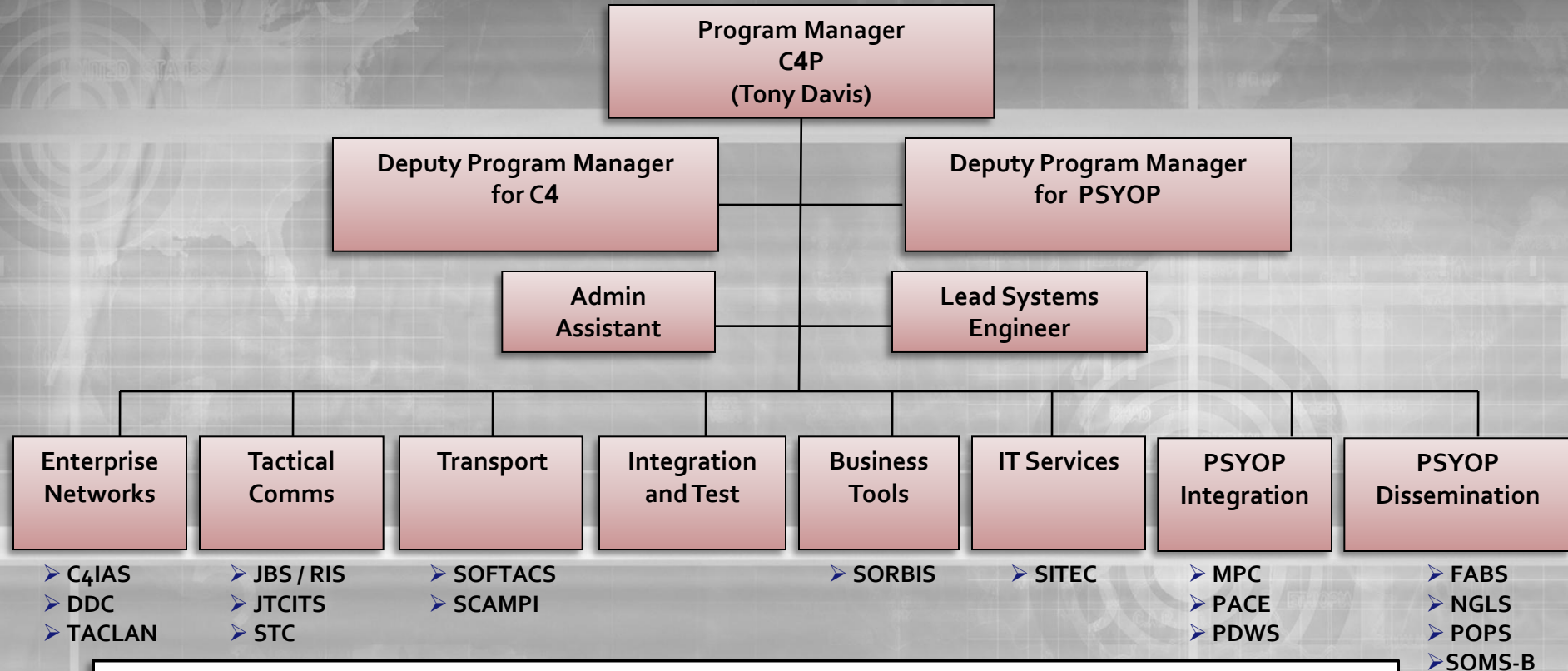
Overview

- Organization
- Program Families
- Focus Areas
- CRADAs

C-4 Command, Control
Communications, and Computers



Program Manager - Command, Control, Communications, Computers, and Psychological Operations (C4P)



C4IAS - Command, Control, Communications, Computers, and Intelligence Automation System
DDC - Distributed Data Center
FABS - Fly Away Broadcast System
JBS / RIS - Joint Base Station/Radio Integrity System
JTCITS - Joint Tactical C4I Transceiver System
MPC - Media Production Center
NGLS - Next Generation Loudspeaker System
PACE - Planning and Analysis Collaborative Environment
PDWS - Product Development Work Stations

POPS - Psychological Operations Print System
SCAMPI - Not an Acronym
SITEC - Special Operations Forces Information Technology Enterprise Contract
SOFTACS - Special Operations Forces Tactical Assured Connectivity Systems
SOMS-B - Special Operations Media System – Broadcast
STC - Special Operations Forces Tactical Communications
TACLAN - Tactical Local Area Network

C4 Program Families



STC



RIS

Tactical Comms



BFT



JTCITS



TACLAN



C4IAS
DDC

Enterprise Networks



SCAMPI



PDS



SDN

Transport



SORBIS
BusinessTools



SOF Integration Facility



SITEC

Enterprise Services

Tactical Comms

- Friendly Force Tracking coverage and form factors
- Joint Tactical C4I Information Transceiver System (JTCITS)
- Next Generation Tactical C3I (NGT C3I)
- Network extension and flexibility



C-4 Command, Control
Communications, and Computers



Enterprise Networks

- Cloud Computing and Thin Client
- Virtualization of storage and servers
- Distributed Data Center optimization
- Video distribution , storage, and mgmt
- Hand-held device size and capability
- Enterprise management tools
- Caching and acceleration
- Green IT

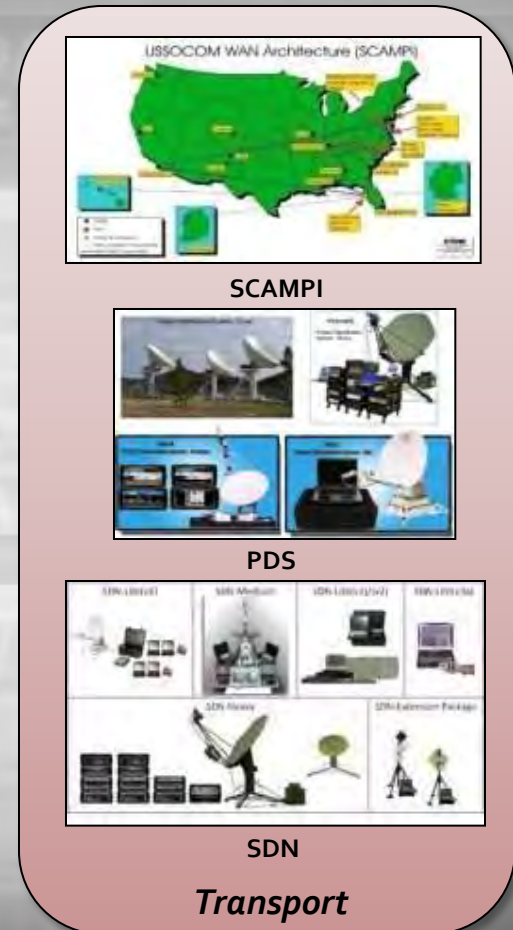


C-4 Command, Control
Communications, and Computers



Transport

- Wide Band SATCOM COTM
- Deployable/mobile cell systems
- Next generation crypto products
- MSSEP requirements



C-4 Command, Control
Communications, and Computers



PSYOP System Families



FABS V1 Radio Section



FABS V1 TV Section



FABS V1 TV Section

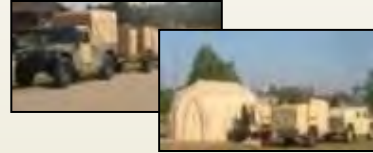


FABS V2 TV Section

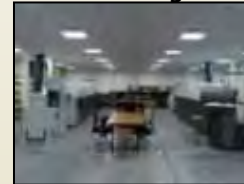


SOMS-B V2

Broadcast



POPS Light



POPS Medium



POPS Heavy
Print



Manpack –
Ground Vehicle



Ground Vehicle –
Watercraft Variant



Unmanned Ground Vehicle

*Next Generation
Loudspeakers*



Media Production Center

Planning and Analysis Collaborative Environment (PACE)

Planning
I

Target
Audience
Analysis
II

Series
Develop-
ment
III

Product
Develop
ment &
Design
IV

Approval
V
Product
Distribution &
Dissemination
VI

Evaluation
VII



PDWS Light-Medium



Deployable Production Kits

PSYOP System Families (Continued)

Current Systems



FABS V1 AM Section



FABS V1 FM Section



FABS V1 Shortwave Section



FABS V1 Audio Production
Section



FABS V1 TV VHF
Section



FABS V1 TV UHF
Section



FABS V1 Video Production
Section



SOMS-B V2
(Mobile System)

Broadcast

Future Needs

- Smaller, Lighter, Software Defined Radio (SDR)
 - Transportable By Commercial Air
 - Checked Baggage
 - Open Source Software
 - Interoperable With Legacy Equipment
 - Man Transportable Antenna To Support Broadcast Ranges
 - AM 30 Miles
 - FM 20 Miles
 - Shortwave 800 Miles
 - VHF TV 10 Miles
 - UHF TV 10 Miles
 - All In One Transmitter
 - Analog and Digital
 - Radio and Television
- C130 Transportable, Smaller Mobile Broadcast SDR
 - Self Contained Power Generation
 - Equipment
 - Motorized Vehicle Antenna To Support SDR Ranges With AM Broadcast Of 60 Miles

C-4 Command, Control

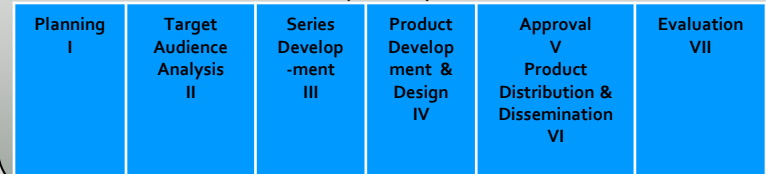
Media Production Center

Communications, and Computers



PSYOP System Families

Planning and Analysis Collaborative Environment (PACE)



- **PACE: System of Systems**
 - Encapsulates The Seven-Step PSYOP Process
 - Provides Automation Tools For PSYOP Planning, Target Audience Analysis, Product Development , Distribution And Dissemination
- **Future Capability: Forecasting PSYOP Effectiveness**
 - Combine Select Mathematical Methods From Operations Research, Market Research, Psychology, Sociology And Economics To Produce Useful Tools For The Quantitative Assessment Of Influence Operations

C-4 Command, Control
Communications, and Computers



CRADA Opportunities

- Tactical Communications—consolidation of capabilities, vehicle/boat/dismounted operational flexibility
- Transport—mobile communications size and coverage, fixed site acceleration and optimization
- Video distribution and storage—introduction of industry best practices and technology into operational environment

C-4 Command, Control
Communications, and Computers



Special Operations Forces Industry Conference



Ms. Valerie Shuey

Program Manager - Intelligence

Intelligence

Program Management Office, Intelligence

System Acquisition In Direct Support Of The Director Of Intelligence And The Intelligence Elements Of USSOCOM Components And Theater Commands

Program Manager Intelligence
(PM-IN)
Ms Valerie Shuey

Distributed Common
Ground System –
SOF

(DCGS-SOF)

SOC Research,
Analysis, and Threat
Evaluation System

(SOCRATES)

SOFPREP/Distributed
Mission Training &
Rehearsal System

(DMTRS)

Systems Integration
Management Office

(SIMO)

SIGINT SYSTEMS/
Joint Threat
Warning System

(JTWS)

Counter-Proliferation
Analysis And Planning
System

(CAPS)

Integrated Survey
Program

(ISP)

Program Capabilities For:

- Situational Awareness
- Intelligence, Surveillance, And Reconnaissance
- Tasking, Collection, Processing, Exploitation, And Dissemination
- Integrated Broadcast Systems (IBS)

JTWS Ground SIGINT
Kit (GSK)

JTWS Precision Geo-
Location (PGL)

JTWS Air/IBS

JTWS Maritime

Intelligence



Technology Areas of Interest

- Networked Tactical SIGINT Systems
- Lightweight, Adaptable Tactical SIGINT Systems
- Improved Direction Finding (DF) And Geo-location (GEO) Antenna Arrays
- Exploit Modern Communication Systems
- Data Discovery And Enrichment In Support Of Intel Analysis
- Advanced Data Management Systems
- Network Multi-Level Security/Cross Domain Security Services
- Full Motion Video / Motion Imagery (FMV/MI) Exploitation
- Multi-Intelligence Fusion And Correlation



Intelligence



Networked Tactical SIGINT Systems

- **Current State of The Technology**
 - Techniques for Collaborative DF And Geo-Location Operations
- **Ongoing Efforts**
 - Networking Concepts And Devices To Communicate Between Tactical SIGINT Operators
- **Where We Want to Be**
 - DF and Geo-Location of Signal Sources Using All Available Overhead, Air, Maritime And Ground SIGINT Assets
- **Potential Game Changers**
 - Lightweight VHF-UHF Mesh Networking Radios; Miniature Communications Devices; JICD 4.0 Collaborative Geo-Location Messaging; Time/Frequency Direction Of Arrival (T/FDOA) Sensors; Geo-Location Algorithms



Intelligence



Lightweight, Adaptable Tactical SIGINT Systems

- **Current State of The Technology**
 - Heavy, Power-Hungry, Inflexible Products; Focused Use
- **Ongoing Efforts**
 - Reduce Equipment Size, Weight and Power (SWAP); Expand Platform Integration; Versatile HW/SW
- **Where We Want to Be**
 - Common Low-SWAP Adaptable SIGINT Equipment
- **Potential Game Changers**
 - Miniature T/FDOA-capable Receivers; Versatile Antenna “Toolkits”; Low-Profile and Body-Wearable DF Antennas; Flexible Industry-Standard Equipment Interfaces and Software Applications



Intelligence



Improved DF and GEO Antenna Arrays

- **Current State of The Technology**
 - Bulky, Narrowband, Limited-Accuracy DF Antennas
- **Ongoing Efforts**
 - Phased Array and Beam-Steering Antennas; Body-Wearable DF Antennas; T/FDOA Techniques
- **Where We Want to Be**
 - Wideband High-Gain Antenna Systems; Flexible Multi-Platform High-Accuracy DF and GEO Antenna Systems; Body-Wearable, Concealable DF Antennas; All-Azimuth/ Elevation
- **Potential Game Changers**
 - Phase-Coherent DF Systems; Beam-Steering Antenna Design; T/FDOA Signal Measurements



Intelligence



Exploit Modern Communications Systems

- **Current State of The Technology**
 - Collection, Exploitation of Current Communications Signals
- **Ongoing Efforts**
 - Develop Collection and Exploitation Techniques for New Emerging Systems
- **Where We Want to Be**
 - Worldwide Collection and Exploitation of Advanced Communications Systems
- **Potential Game Changers**
 - Advanced Signal Processing Algorithms; Demodulation and Decryption Techniques; Versatile, Wideband Tactical SIGINT Systems



Intelligence



Data Discovery and Enrichment in Support of Intel Analysis

- **Current State of The Technology**
 - Rule And Statistical Based Entity Extraction And Analysis Tools
- **Ongoing Efforts**
 - Actionable Intelligence Visualization Proof-of-Concept
 - SIKLOPS, SIDMS
- **Where We Want to Be**
 - Reduce Time To Analyze Data
 - Automate Appropriate Data Tagging
 - Increase Effectiveness Of Finding The “Answer”
- **Potential Game Changers**
 - Effective And Easy To Use Application Interfaces
 - Advanced Algorithms In Support The Intel Analysis Process



Intelligence



Advanced Data Management Systems

- **Current State Of The Technology**
 - Relational Data Base Management Systems (RDBMS)
 - XML Databases
 - Object-oriented Databases
- **Ongoing Efforts**
 - SIDMS
- **Where We Want To Be**
 - Enable The Effective/Efficient Management Of Unstructured Data
 - A Distributed Data Management System That Reduces The Overhead And Complexity Of Current RDBMS.
- **Potential Game Changers**
 - Advanced XML Databases At A Maturity Level Of RDBMS



Intelligence



Network Multi-Level Security/Cross Domain Security Services

- **Current State Of The Technology**
 - Cross Domain Solutions Are Complex, High In Cost, And Lack Operational Flexibility In Addressing User Needs
- **Ongoing Efforts**
 - Evaluating Solutions – E.G., Trusted Virtual Environment (TVE)
- **Where We Want To Be**
 - Enable SOF Users To Exchange Information, Collaborate On-Demand, And Utilize SOF Required Applications Between Security Domains
- **Potential Game Changers**
 - Certified/Accredited Classification Labels To Unstructured Data Types
 - Flexible And Robust Algorithms That Enable Current Cross Domain Guards To Support Complex Data Types



Intelligence



Full Motion Video (FMV) Exploitation

- **Current State of The Technology**
 - Human Analysis, Few Automated Tools
- **Ongoing Efforts (Research)**
 - Content/Semantic Based Search Capabilities
 - Change /Activity/Object Detection Within FMV Files To Support Video Processing, Exploitation, Dissemination (PED) Processes
- **Where We Want to Be**
 - Enable Detection of Objects and Activities Of Interest Within Real-Time and Archival Video
- **Potential Game Changers**
 - Object/Activity Auto-Tagging In High Definition Video



Intelligence



Multi-Intelligence Fusion And Correlation

- **Current State of The Technology**
 - Multi-INT Data Collections Using Single-INT Stove-Piped Systems And Processes—Limited Post-collection Fusion
- **Ongoing Efforts**
 - MASINT Tactical Information Fusion (MASTIF) ACTD
- **Where We Want To Be**
 - Improve Target Geo-Location/Identification Accuracy, Confidence And Speed
 - Enable Cross Cueing Of Intelligence, Surveillance, And Reconnaissance (ISR) Collection Assets
- **Potential Game Changers**
 - Automated, Real-Time Detection, Identification, And Geo-location Of Target Of Interest, Auto-Project/Predict Movements



Intelligence



Questions?



Intelligence



The seal of the United States Special Operations Command (USSOCOM) is an oval emblem. It features a central torch with a flame, set against a dark background. The words "UNITED STATES" are arched above the torch, and "SPECIAL OPERATIONS COMMAND" is arched below it. The entire seal is encircled by a rope-like border.



Director of Science & Technology

Science & Technology



Science & Technology (S&T) Broad Area Announcement (BAA)

- Solicitation Number: F2VUGo-BAA-USSOCOM-200900817
- BAA Updates: FedBizOps (www.fbo.gov)
- USSOCOM Biomedical R&D BAA is being revised and will be posted in near term
- White Paper Submittal & Evaluation Process
- Response Date 16 August 2010
- BAA submissions & questions shall be emailed to USSOCOM-STBAA@SOCOM.mil

Science & Technology



S&T BAA Research Areas of Interest

- **Research Area 1 - Mobility Platforms
(Ground/Air/Maritime)**
 - Advanced situational awareness in all environments
 - Increased operational capacity and capabilities
 - Low Observable (LO) and counter LO technologies
 - Advanced mobility platforms to access sensitive or denied areas
 - Multi-domain mobility platforms
 - Shock-mitigating technologies
 - Enhanced guidance/geo-location systems
 - Advanced unmanned systems

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 2 - Power and Energy**
 - Lightweight, alternative power sources/technologies
 - Advanced surface craft power systems
 - Advanced energy storage for underwater vehicles
 - Submersible, multi-fuel engines

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 3 - Weapons**
 - Precision guided munitions
 - Tunable weapons
 - Advanced ammunition
 - Advanced breaching technologies
 - Advanced integrated day/night fire control
 - Advanced materials/coatings
 - Remotely operated weapons/technologies
 - Increased electronic attack capabilities and capacity; portable systems

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 4 - Materials**
 - Advanced lightweight armor/materials
 - Transparent ballistic armor for mobility platforms
 - Personnel identification technologies
 - Signature reduction technologies
 - Personnel monitoring technologies
 - Individual protection
 - Advanced adhesives

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 5 - Reconnaissance, Surveillance, and Exploitation**
 - Tagging, Tracking, and Locating devices/technologies
 - Advanced micro-/nano-scale sensors
 - Advanced visual augmentation systems
 - Persistent surveillance including unattended sensors
 - Advanced unmanned systems
 - Foliage penetrating technologies
 - Automated threat detection and cueing

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 6 - Command, Control, Communications, and Computers (C4)**
 - High bandwidth technologies
 - Secure mesh, self-forming mobile ad-hoc networks
 - Multi-level security systems
 - Advanced multi-function software defined radios
 - Advanced data management
 - Information assurance
 - Advanced antennas
 - Cyberspace operations-exploitation and counter-threat technologies

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 7 - Intelligence**
 - Advanced information processing techniques
- **Research Area 8 - Modeling and Simulation**
 - Tailored virtual training for language and regional expertise capability
 - Advanced visualization, training, and mission planning/rehearsal systems
 - Integrated signature modeling for Infrared (Near, Short Wave, Long Wave), thermal, acoustic, and radar cross sections

Science & Technology



S&T BAA Research Areas of Interest (cont)

- **Research Area 9- Influence Technologies**
 - Psychological Operations; advanced multi-media techniques
- **Research Area 10 - Environmental Forecasting**
 - Lightweight, highly localized weather forecasting systems/technologies

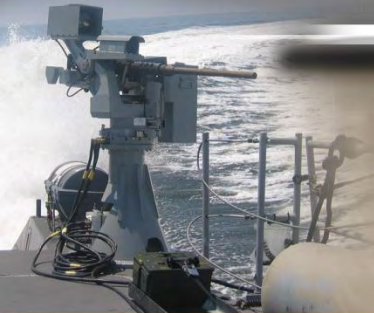
Science & Technology



Science & Technology (S&T) Request For Information (RFI)

- Solicitation Number: RFI_ESS-SOF_20100405
- RFI Updates: FedBizOps (www.fbo.gov)
- Purpose: Technology Demonstration Paper Submittal to gain information leading to Government and industry collaboration for development of technologies and capabilities in support of SOF
 - NOT a solicitation for proposals, abstracts, or quotations
- Response Date: Through 30 July 2010
- Email RFI submissions to Tech_Exp@socom.mil

Science & Technology



S&T RFI Areas of Interest

- Interested parties invited to submit papers addressing innovative technologies and capabilities for use in austere environments. Focus Areas:
 - Power generation in support of team houses, small Forward Operating Bases, and remote tactical applications
 - Short (unimproved) field capable airborne casualty evacuation platforms requiring minimal maintenance and ground support equipment
 - Manned or unmanned delivery systems for rapid land and air resupply to remote locations
- Candidates may be invited to demonstrate their technologies and/or capabilities at a future experimentation event



Science & Technology



Questions?



Science & Technology



Special Operations Forces Industry Conference



Mr. Douglas Richardson

Program Executive Officer - SRSE

**Special Reconnaissance
Surveillance and Exploitation**

Mission

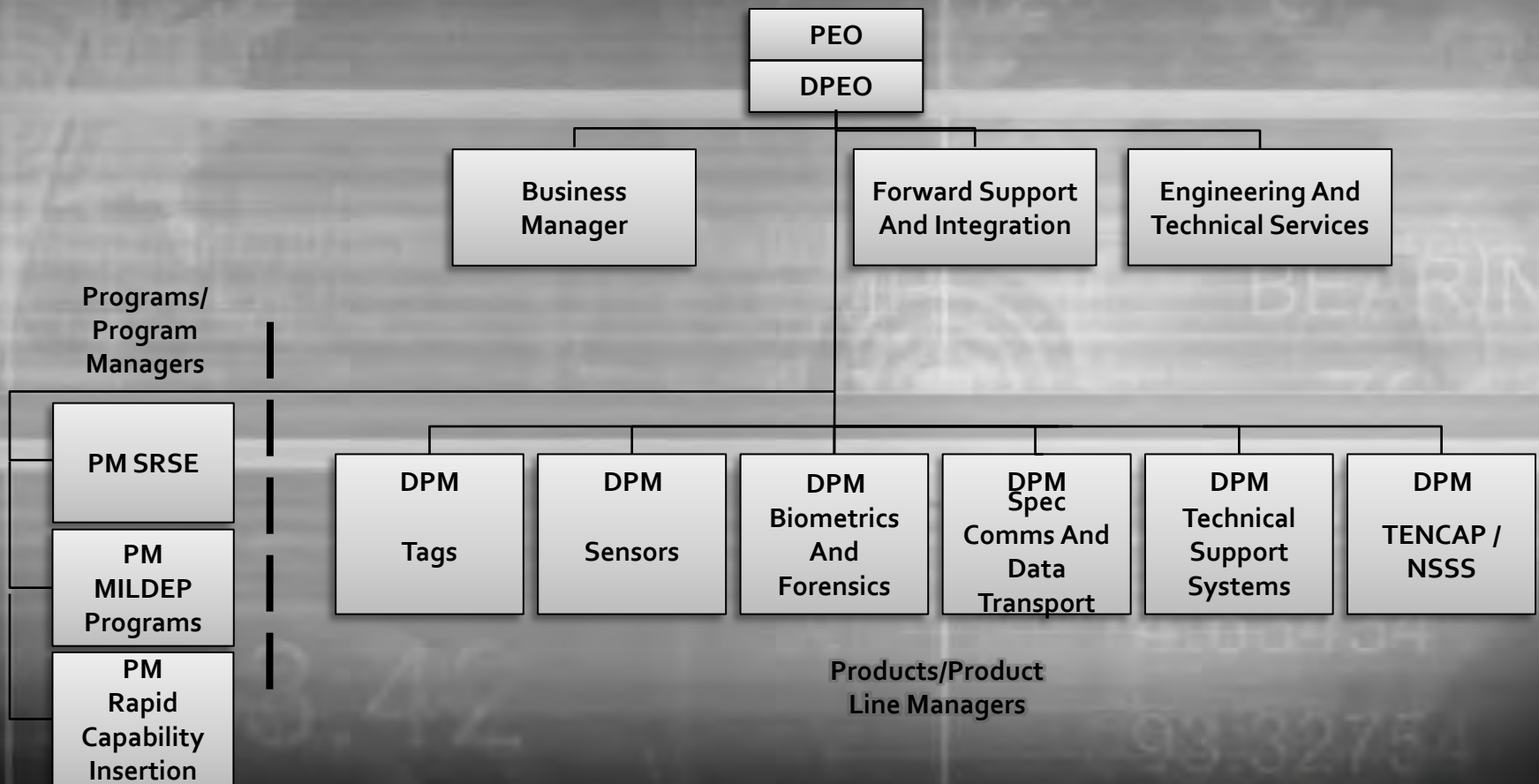
Manage The Development, Acquisition, Fielding, New Equipment Training, And Sustainment Of State Of The Art Technical Collection And Exploitation Tools For Advanced Surveillance And Reconnaissance Systems For Theater Forces And Special Operations Commands



Special Reconnaissance
Surveillance and Exploitation



Operating Structure



Special Reconnaissance

Surveillance and Exploitation



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

- Provides Capability To Tag, Track And Locate High-Value Items Of Interest
- Portfolio Of Tagging / Tracking And Close-Target Audio / Video And Reconnaissance Systems

Acquisition Strategy

- Commodity Procurement Program

Period of Performance

- Annually Fields Tailored Mission Sets To Component And Theater Special Operations Commands

Milestones

Kit Selection: Annually
User Testing: Quarterly
Commodity Procurements: Annually
New Equipment Training: Continuously
Fielding And Deployment: Continuously

Point of Contact

PEO-SRSE

Funding

- FY10 Procurement: \$23.4M
- FY 11 Procurement: \$25.3M

Current Contract/OEM

- Multiple - Contact TILO

HF-TTL Examples



Special Reconnaissance
Surveillance and Exploitation



Special Operations – Tactical Video System (SOTVS)

- Family Of Attended And Unattended Sensor Systems To Capture And Transfer Near-Real-Time Day/Night Tactical Ground Digital Imaging

Acquisition Strategy

- Evolutionary Migration Strategy Continuously Upgrades Kits / Components

Period of Performance

- In Sustainment, Continuous Capital Equipment Replacement

Milestones

- Post-Milestone C, Sustainment And Capital Equipment Replacement

Point of Contact

PEO – SRSE

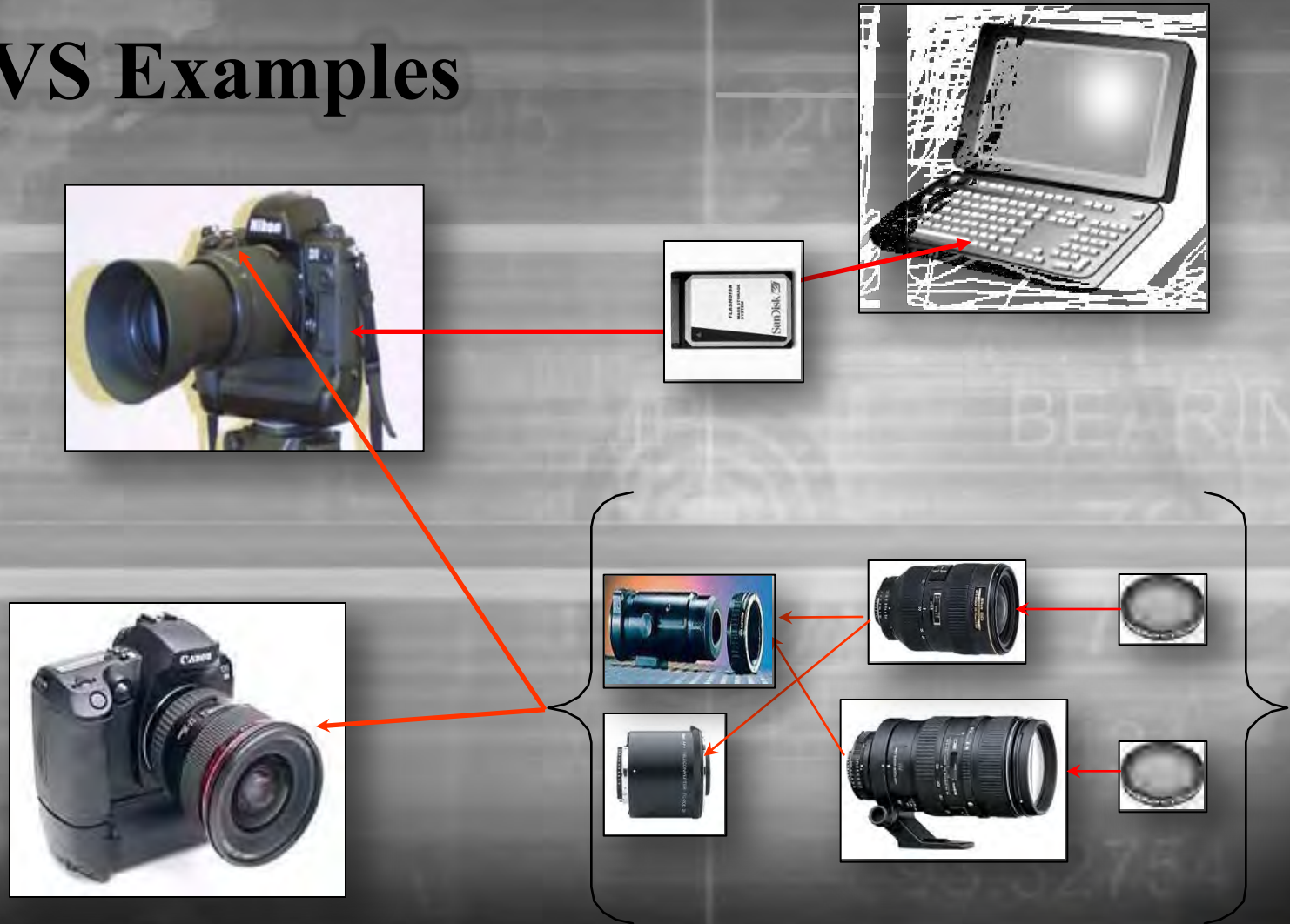
Funding

- FY 10 O&M: \$4.6M
- FY 11 O&M: \$5.9M

Current Contract/OEM

- Multiple

SOTVS Examples



Special Reconnaissance
Surveillance and Exploitation



Sensitive Site Exploitation (SSE) Program

- Capability To Exploit Personnel, Documents, Electronic Data, And Material On A Sensitive Site/Objective
- Collects And Transmits Unique, Measurable Biometric Signatures

Acquisition Strategy

- Commodity Procurement Program

Period of Performance

- Variable, Fields Multiple Configurations Of Biometric And Forensic Kits To Components

Milestones

- Kit Selection: Annually
- User Testing: As Required
- Commodity Procurements: Annually
- New Equipment Training: Continuously
- Fielding And Deployment: As Required

Point of Contact

- PEO-SRSE

Funding

- FY 10 Procurement: \$20.4M
- FY 11 Procurement: \$9.2M

Current Contract/OEM

- Multiple

SSE Examples



Special Reconnaissance
Surveillance and Exploitation



Rapid Capability Insertion Programs

- Clandestine Tagging Tracking And Locating (CTTL) : Develops And Prototypes Innovative TTL Capabilities Through Applied Research And Development (R&D)
- Special Reconnaissance Capabilities (SRC): Provides R&D Of Novel Reconnaissance Devices, Special Communications Equipment And Unattended Ground Sensors
- National System Support To SOF (NSSS): Serves As The Command's Tactical Exploitation Of National Capabilities (TENCAP) Office And Leverages Existing And Future Space-Related Technologies

Acquisition Strategy

- Rapid Prototyping, Technology Demonstration, Combat Evaluations

Period of Performance

- Project Dependent

Milestones

- Project Dependent

Point of Contact

- PEO – SRSE

Funding

	FY10	FY11
• CTTL	\$22.8M	\$22.5M
• SRC	\$19.9M	\$20.7M
• NSSS	\$1.0M	\$1.0M

Current Contract/OEM

- Project Dependent

Accelerating The Force

- Streamlined Processes
- Integrated Technology Development
- Linkage To The Warfighter
- Scenario-Based Experimentation And Evaluation

Special Reconnaissance
Surveillance and Exploitation



PEO SRSE Breakout Sessions

Wednesday, June 16 , 0945-1030

Thursday, June 17, 0815-0900

Technology/Capability Areas Of Interest:

- Size, Weight, Power And Signature Reduction
- Persistence And Precision Enhancements
- Increased Standoff
- New Sensing Modalities

Special Reconnaissance
Surveillance and Exploitation



Special Operations Forces Industry Conference



Mr. John Lyle

**Deputy Director of Procurement
Competition Advocate General**



Procurement



Overview

- USSOCOM's Procurement Authority
- Statistics
- Future Competitions
- Policy Initiatives
- Acquisition Panel



Procurement



USSOCOM Directorate of Procurement

Mission Statement

- Contracting Professionals Teaming With Acquisition And Industry Professionals To Rapidly Transform Acquisition Strategies Into Superior Technologies, Equipment, And Services For USSOCOM And Its Special Operations Forces

Vision Statement

- To be USSOCOM's Contracting Provider of Choice by Delivering Competent, Rapid, Dedicated and Innovative Contracts Management



Procurement



Flow Of Contract Authority

Title 10 U.S.C. 167

Commander USSOCOM

Acquisition Executive (SPE)

Director of Procurement (HCA)

Contracting Officers

Accelerating the force through streamlined Acquisition Authority

Procurement



Definition: Special Operations Peculiar

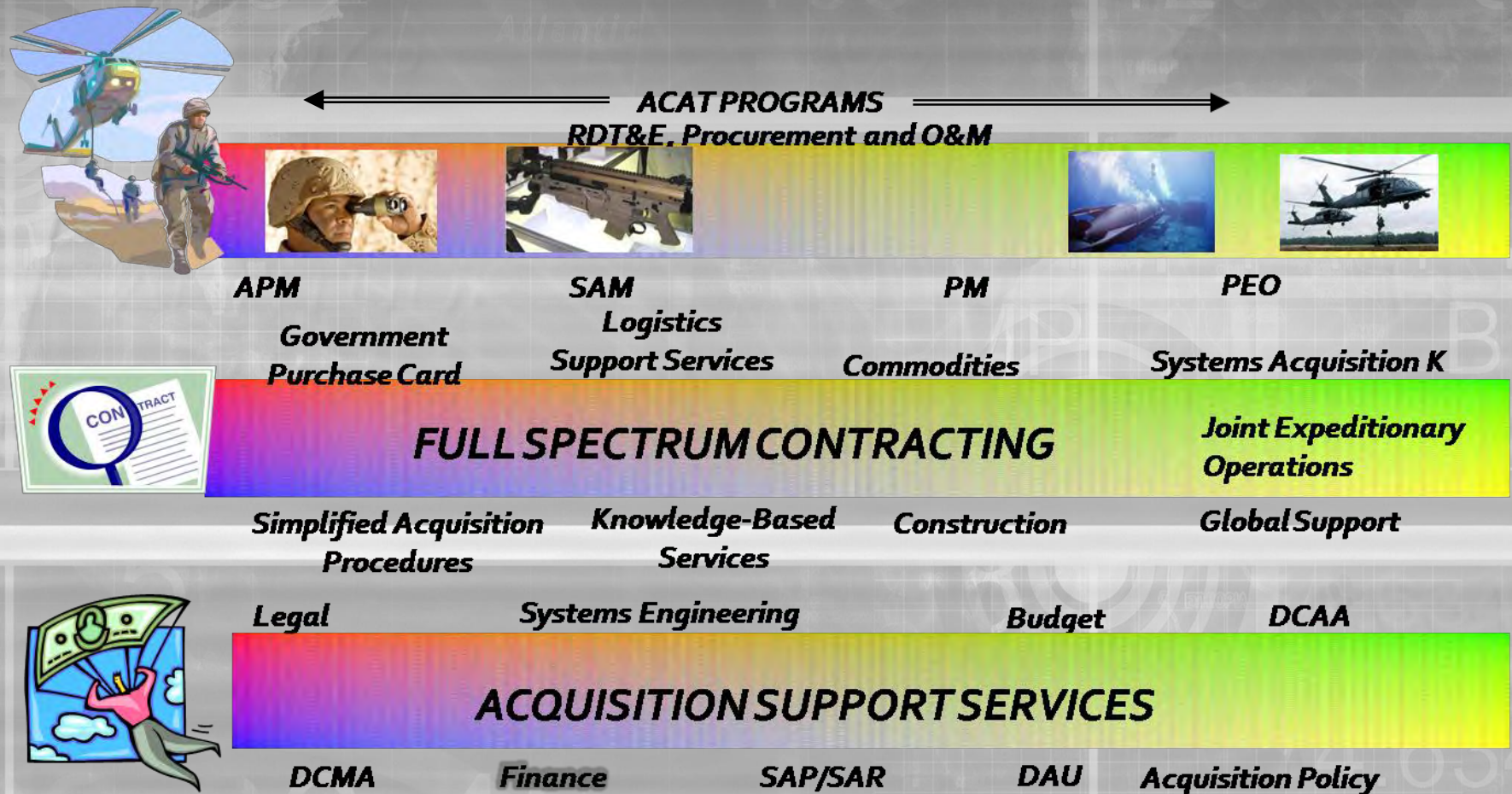
- Equipment, Materiel, Supplies, and Services with No Service-common Requirement
- Items Initially Used by SOF Until Adopted by a Service
- Modifications Approved by CDR USSOCOM for Application to Items Used by Other DoD Forces
- Critically Urgent Items/Services Supporting SOF Activities as determined by the CDR USSOCOM
- Source: DoDD 5100.3, "Support of the Headquarters of Combatant and Subordinate Joint Commands", Certified Current as of March 24, 2004



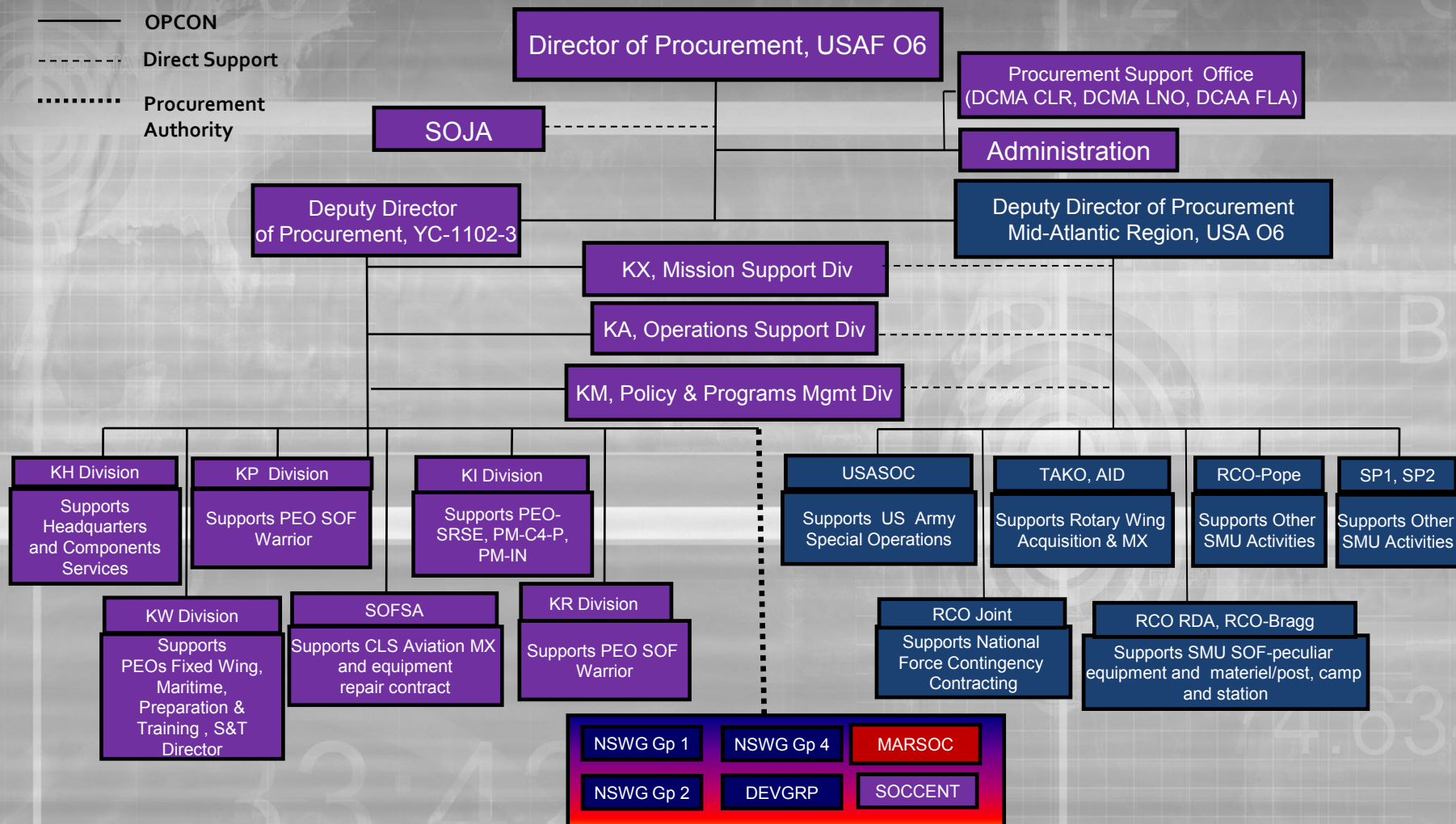
Procurement



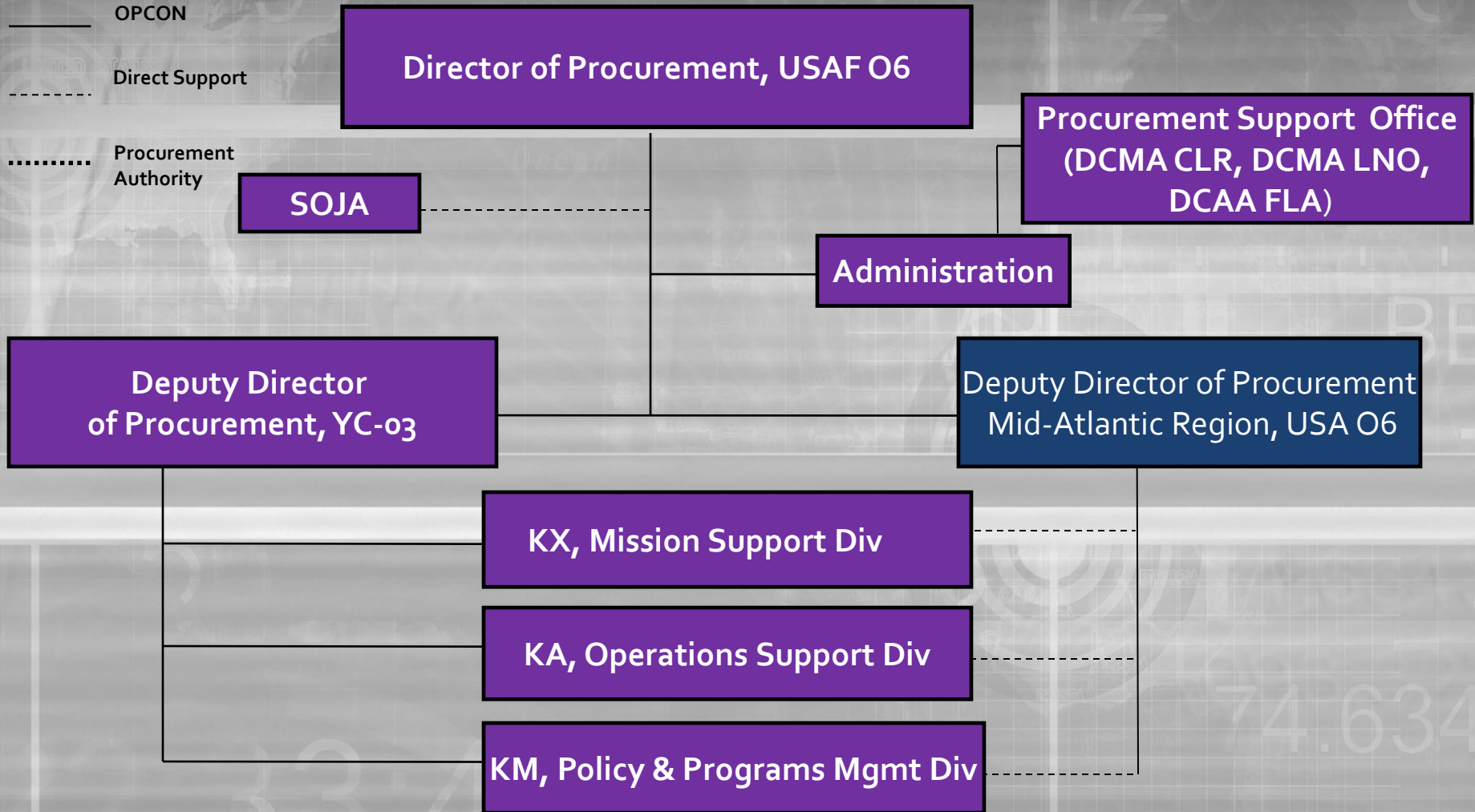
USSOCOM is a Joint “Acquisition Center”



USSOCOM DOP Organizational Structure



DoP Staff Organization



DoP Headquarters Buying Divisions

OPCON

Direct Support

Procurement Authority

**Deputy Director
of Procurement, YC-1102-3**

KH Division

**Supports
Headquarters and
Components
Services**

SOFSA

**Supports CLS Aviation MX
and equipment
repair contract**

KI Division

**Supports PEO-SRSE,
PM-C4-P, PM-IN**

KW Division

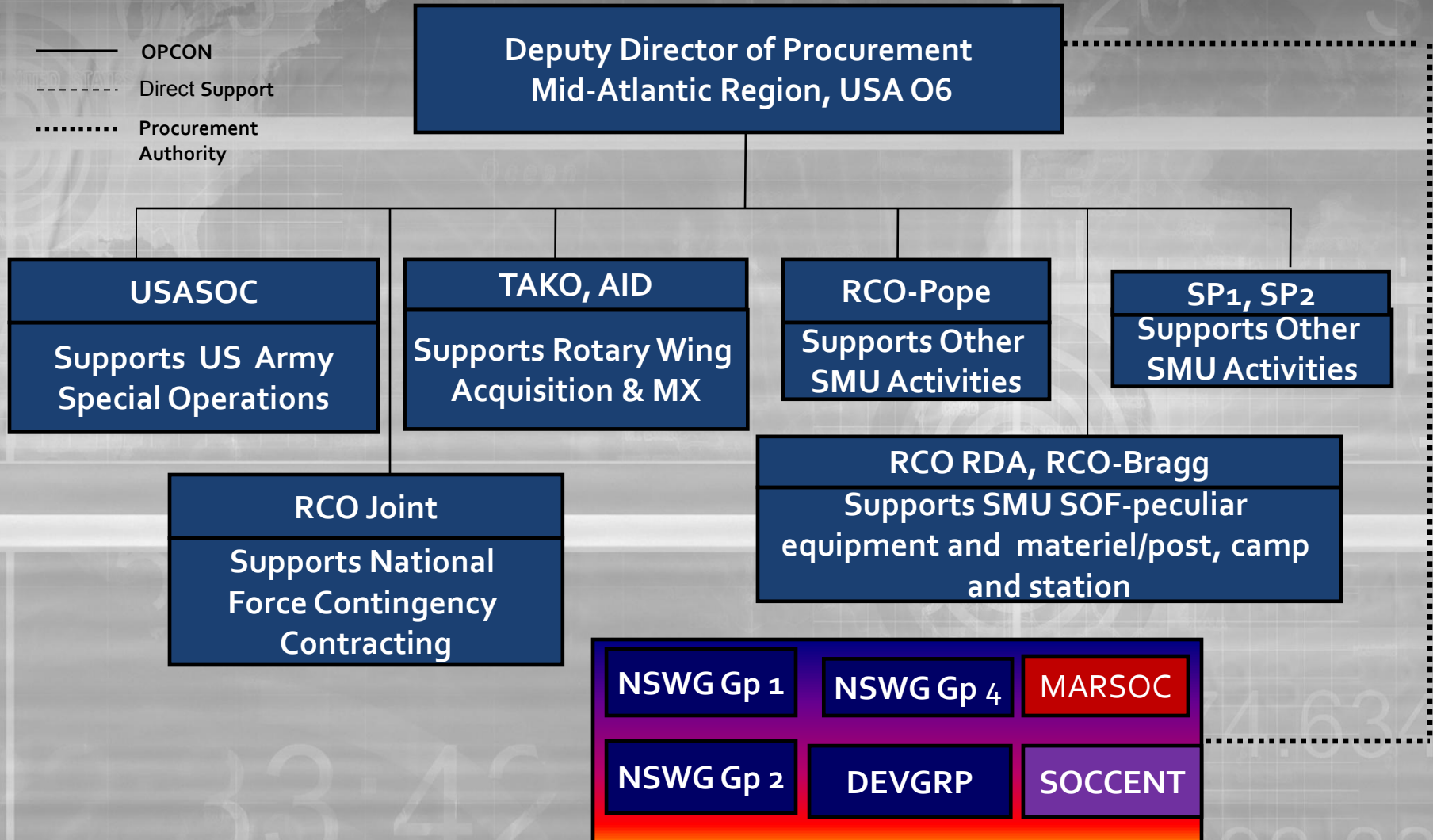
**Supports
PEOs Fixed Wing,
Maritime, Preparation &
Training, S&T Director**

KP Division

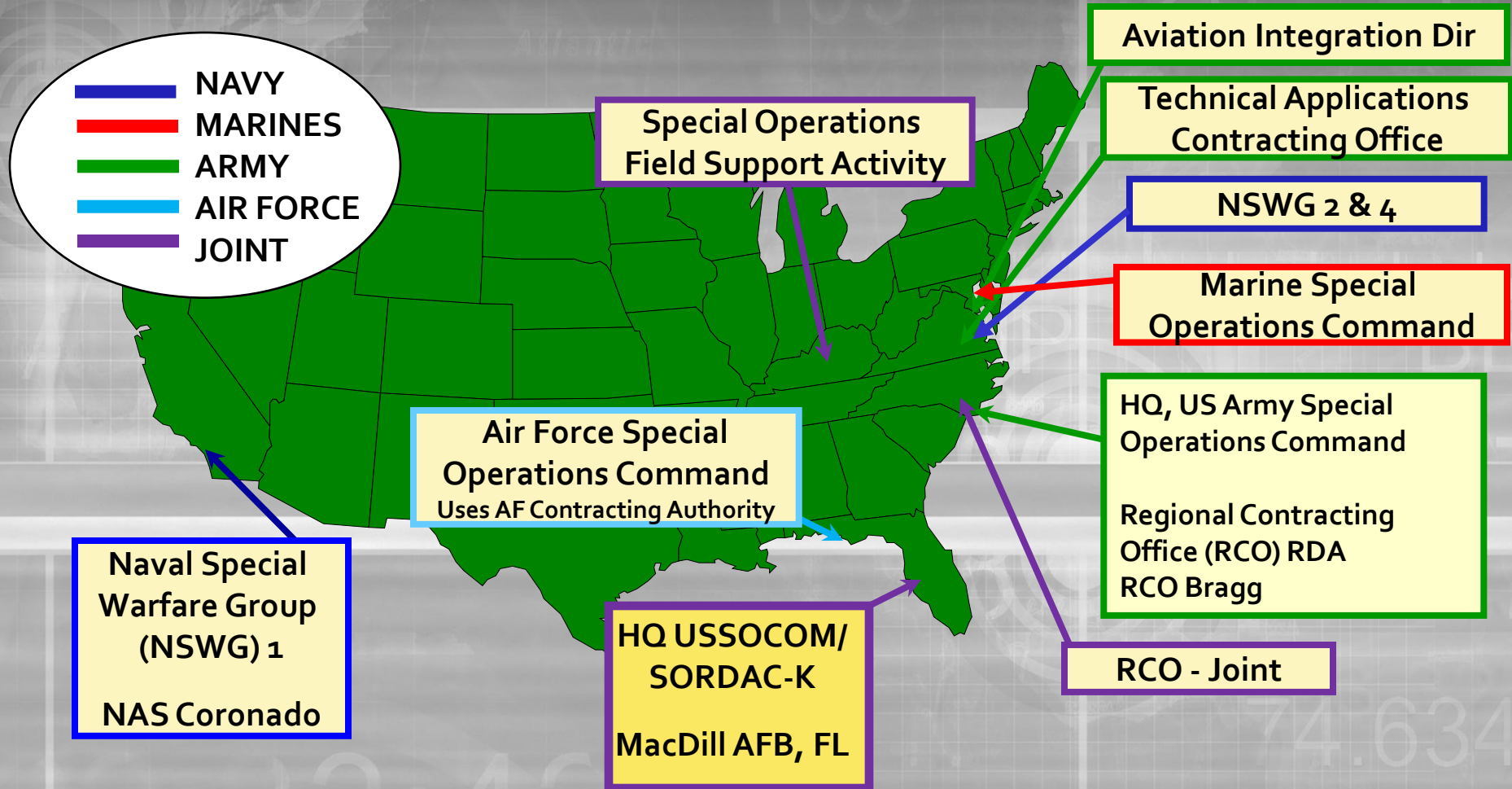
KR Division

**Supports PEO SOF
Warrior**

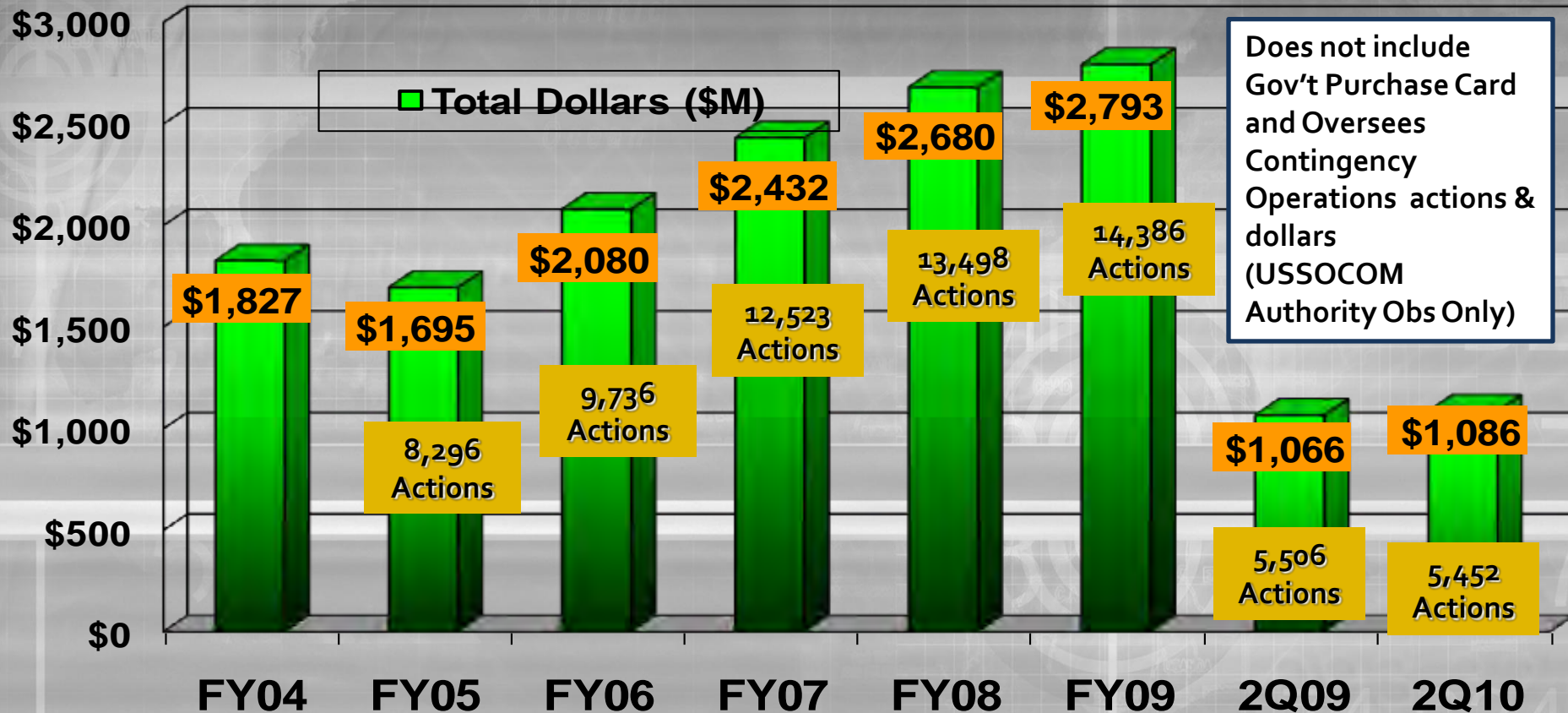
Field Contracting Offices



USSOCOM Contracting Offices

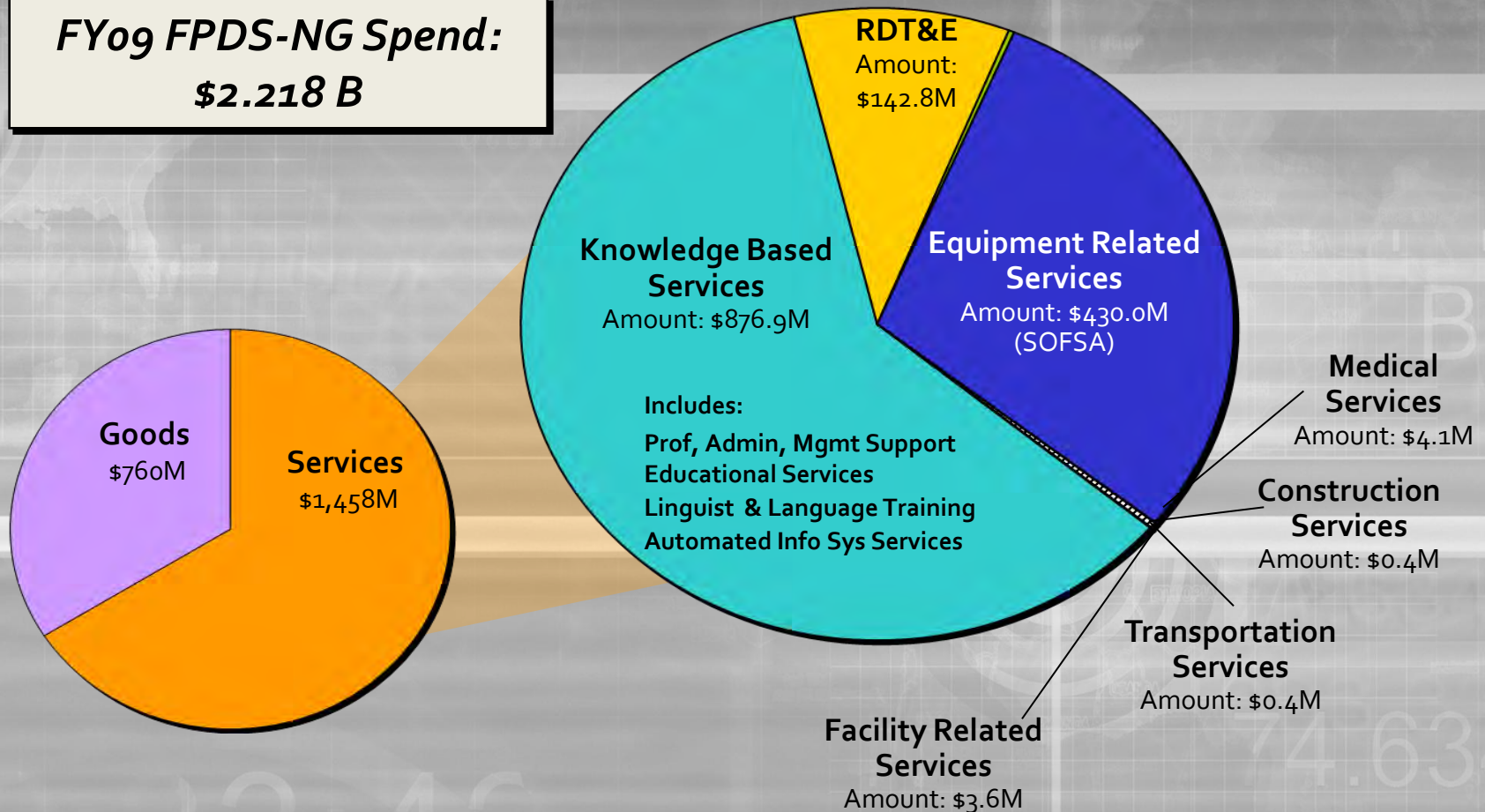


FY04-FY10 Procurement Activity Levels



Fiscal Year 2009 USSOCOM Spend

FY09 FPDS-NG Spend:
\$2.218 B



Operational Contracting Support (OCS)

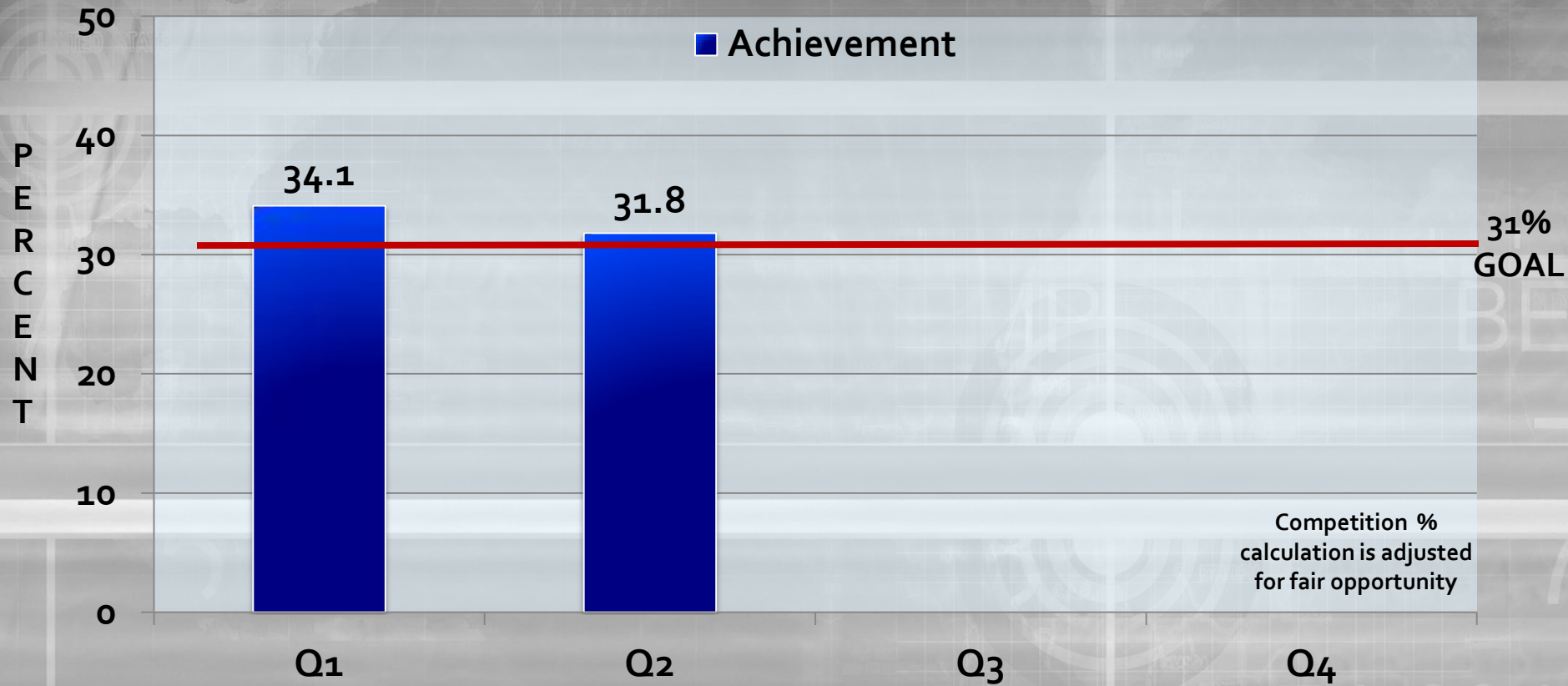
- USSOCOM has a world-wide OCS mission
- On Average 20 Contingency Contracting Officers deployed—force multipliers
- Increased Oversight
- Industry Awareness:
 - Synchronized Pre-deployment Operational Tracker (SPOT)
 - Theater Business Clearance (TBC)



Procurement



FY10 Competition by Quarter



OBLIGATED:	\$277M	\$964M
COMPETED:	\$ 94M	\$307M

Upcoming Major Source Selections

TITLE	EST AWARD VALUE	EST/ACT RFP RELEASE	EST AWARD DATE
Special Operations Forces Support Activity (SOFSA)	\$5B	30 Jun 10 (Amd 11)	1-Jan-11
Intelligence Quick Reaction Capability (QRC)	\$500M	25-Jun-10	1-Oct-10
USSOCOM Linguist Contract	\$500M	11-May-10	3-Sep-10
Shallow Water Combat Submersible (SWCS)	\$140M	24-Mar-10	30-Aug-10
SOF Information Technology Enterprise Contracts (SITEC) (EITC Recompete)	\$3B	27-May-10	3-Jan-11
Precision Sniper Rifle (PSR)	\$100M	26-Mar-10	30-Aug-10
Language Training	\$250M	1-Oct-10	1-Feb-11

Policy Initiatives

- OSD Standard Source Selection Guide
- Operational Contracting Support
- Organizational Conflict of Interest
- Business Systems Rule
 - Withhold of Financing Payments for Deficiencies
 - Corrective Action Timeline
- OSD Peer Review Process
- Management of Multiple Award Contracts



Procurement



Indefinite Delivery Indefinite Quantity (IDIQ) Multiple Award Contracts (MACs)

- What is a MAC?
 - A basic IDIQ contract awarded to more than one contractor
- What is Fair Opportunity?
 - Awardees under a MAC are given the opportunity to bid on multiple requirements for all task/delivery order requirements over \$3,000



Procurement



Fair Opportunity Orders Over \$5M

- **Contractors will be given:**
 - Notice of the task or delivery order that includes a clear statement of the agency's requirements;
 - A reasonable response period;
 - The significant factors and sub factors in which they will be evaluated on
 - An opportunity for a post award debriefing.



Procurement



Fair Opportunity Exceptions

- The agency need for the supplies or services is so urgent that providing a fair opportunity would result in unacceptable delays;
- Only one awardee is capable of providing the supplies or services required because the supplies or services ordered are unique or highly specialized;
- The order must be issued on a sole-source basis in the interest of economy and efficiency as a logical follow-on; or
- It is necessary to place an order to satisfy a minimum guarantee



Procurement



Protests for Fair Opportunity Actions

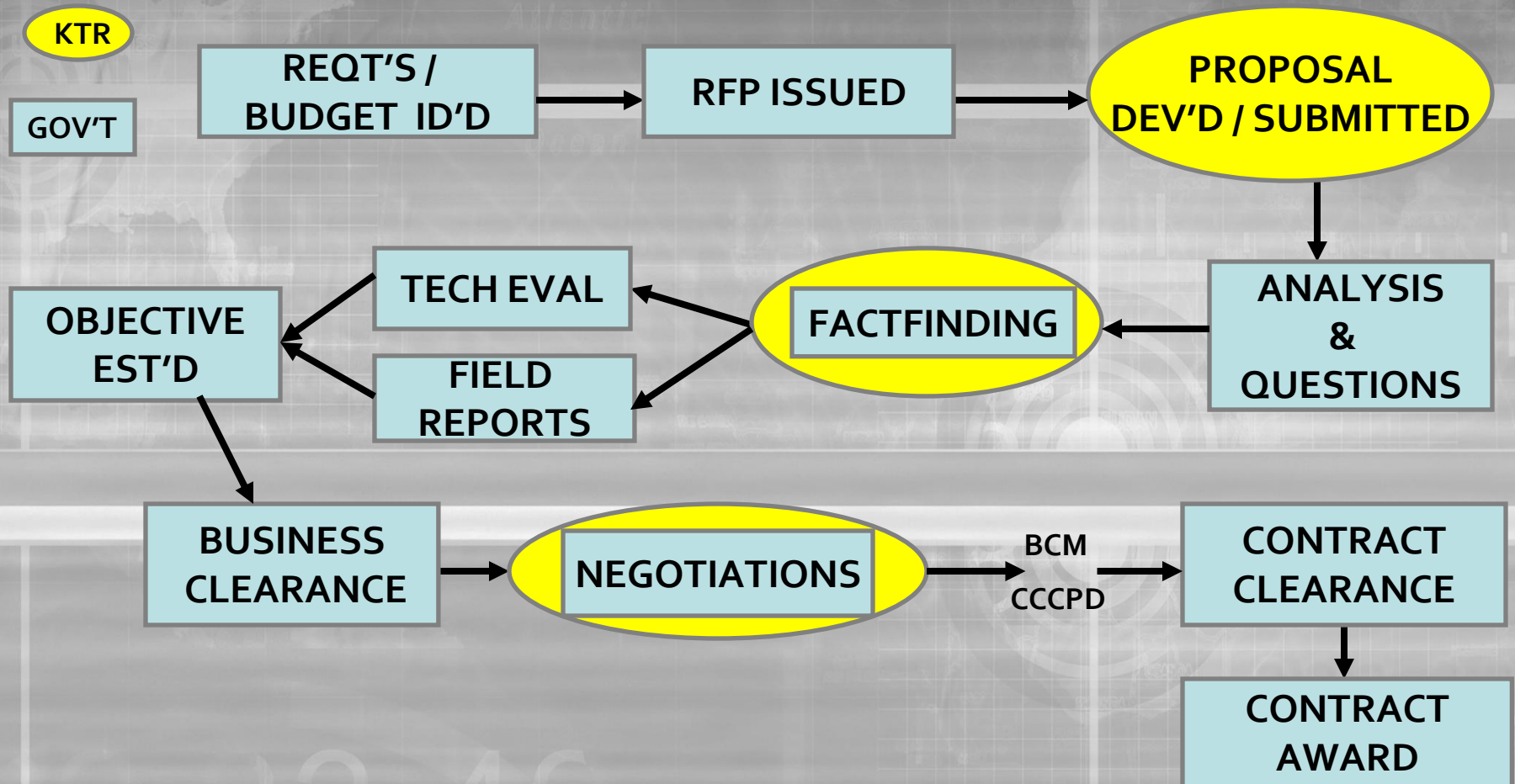
- Protests under FAR 33.1 are generally not authorized
 - Exceptions:
 - A protest on the grounds that the order increases the scope, period, or maximum value of the contract; or
 - A protest may only be filed with the Government Accountability Office when the order value is in excess of \$10 million
- USSOCOM OMBUDSMAN is available to address contractor's concerns relative to MAC



Procurement



The Pricing Process



Proposal Adequacy

- What constitutes an adequate proposal?
 - FAR 15.408 Table 15-2 provides instructions for submitting cost/price proposals when cost or pricing data are required (See USSOCOM TILO homepage for proposal adequacy checklist)
- Recommendations:
 - Industry conduct Independent Internal Reviews
 - Address how your company will provide the best value as stated in Sections L & M of the solicitation...don't repeat boiler-plate facts about your company



Procurement



Questions?



Procurement



Special Operations Forces Industry Conference



Mr. Tony Davis
Program Manager-C4P



**C-4 Command, Control
Communications, and Computers**

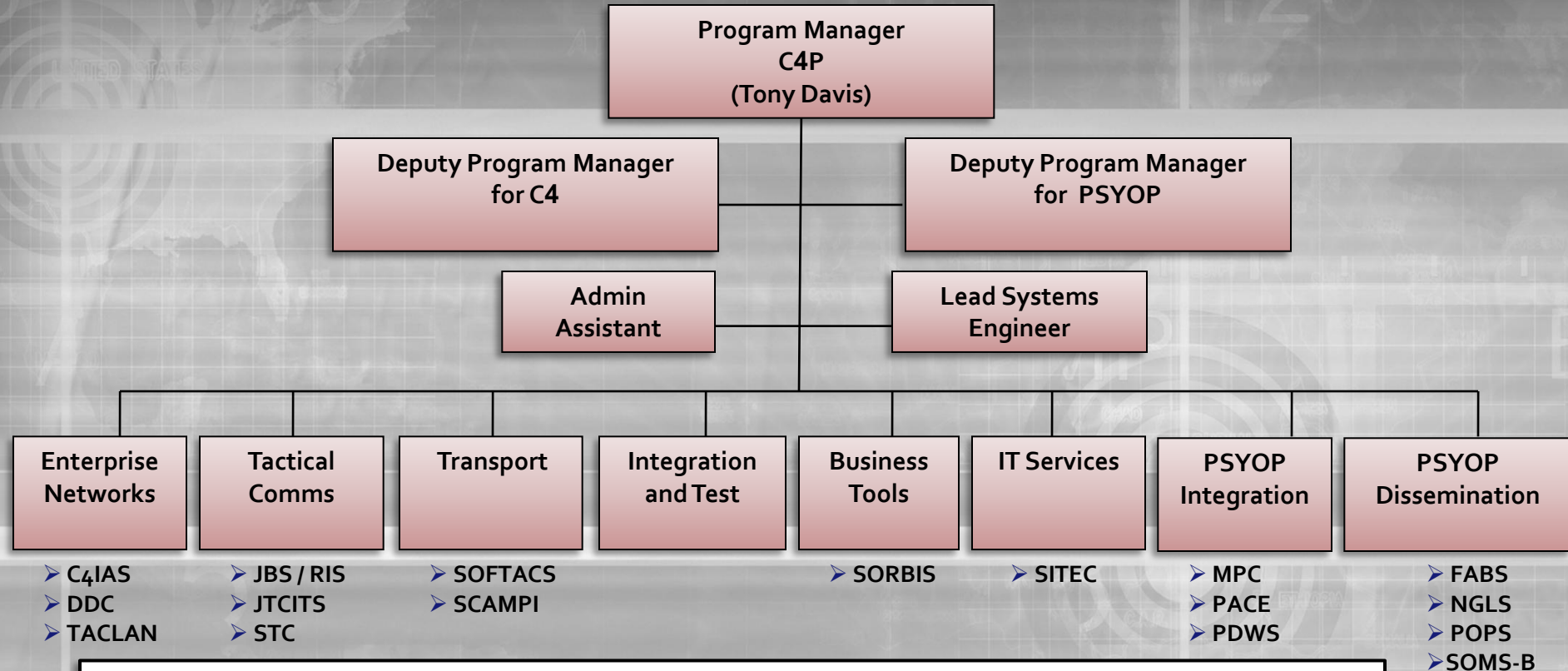
Overview

- C4P Organization
- Program Families
- Upcoming Acquisitions

C-4 Command, Control
Communications, and Computers



Program Manager - Command, Control, Communications, Computers, and Psychological Operations (C4P)



C4IAS - Command, Control, Communications, Computers, and Intelligence Automation System
DDC - Distributed Data Center
FABS - Fly Away Broadcast System
JBS / RIS - Joint Base Station/Radio Integrity System
JTCITS - Joint Tactical C4I Transceiver System
MPC - Media Production Center
NGLS - Next Generation Loudspeaker System
PACE - Planning and Analysis Collaborative Environment
PDWS - Product Development Work Stations

POPS - Psychological Operations Print System
SCAMPI - Not an Acronym
SITEC - Special Operations Forces Information Technology Enterprise Contract
SOFTACS - Special Operations Forces Tactical Assured Connectivity Systems
SOMS-B - Special Operations Media System – Broadcast
STC - Special Operations Forces Tactical Communications
TACLAN - Tactical Local Area Network

C4 Program Families



STC



BFT



JTCITS



RIS

Tactical Comms



SORBIS

Business Tools



SOF Integration Facility



TACLAN



C4IAS
DDC

Enterprise Networks



SCAMPI



PDS



SDN

Transport



SITEC

Enterprise Services

PSYOP System Families



FABS V1 Radio Section



FABS V1 TV Section



FABS V1 TV Section



FABS V2 TV Section

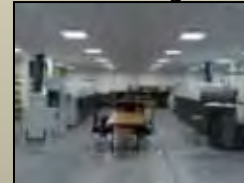


SOMS-B V2

Broadcast



POPS Light



POPS Medium



POPS Heavy
Print



Manpack –
Ground Vehicle



Ground Vehicle –
Watercraft Variant



Unmanned Ground Vehicle

**Next Generation
Loudspeakers**



Media Production Center

Planning and Analysis Collaborative Environment (PACE)

Planning I	Target Audience Analysis II	Series Develop- ment III	Product Develop- ment & Design IV	Approval V Product Distribution & Dissemination VI	Evaluation VII
---------------	--------------------------------------	-----------------------------------	---	---	-------------------



PDWS Light-Medium



Deployable Production Kits

Upcoming Acquisitions

- SOF IT Enterprise Contract (SITEC)
- SOF Deployable Node (SDN)/PSYOP Distribution System (PDS) VSAT Antenna Follow-on

C-4 Command, Control
Communications, and Computers



SOF IT Enterprise Contract (SITEC)

- Through the SITEC acquisition framework, USSOCOM will secure best-of-breed IT service providers for the integrated delivery of the Command's mission supporting IT infrastructure and operations USSOCOM's. The SITEC acquisition will provide for continuing IT services and support for a transition period as well as for the successive years following the expiration of the Enterprise IT Contract (EITC) on 31 Mar 2011. SITEC is a post-Milestone C, Full Operations & Support / Sustainment / Full Operational Capability (FOC).

Acquisition Strategy

- Framework of seven contracts under common governance and execution

Period of Performance

- Various, depending on individual contract

Milestones

- 28 May 10: Release ITSM RFP
- 28 Jun 10: ITSM proposals due/release of Unit Service Tower RFPs

Point of Contact

Funding

- Various, depending on contract. Total obligations estimated to be approximately \$350M annually.

Current Contract/OEM

- Enterprise IT Contract (EITC)/L3 Comm
- TACLAN Production/iGov

VSAT Antenna Follow-On

- Supports SOF Deployable Node and Product Distribution System Family of Systems

Acquisition Strategy

- Full and Open Competition
- IDIQ/ Firm Fixed Price

Period of Performance

- 5 Years/ 5 Additional

Milestones

- RFI: March 2011
- RFP: June 2011

Point of Contact

- PMC4P

Funding

- FY12 Procurement

Current Contract/OEM

- L-3 GCS

PM C4 Breakout Sessions

Wednesday, June 16 , 0815-0900

Thursday, June 17, 0945-1030

- Technology/Capability Areas of Interest:
 - Tactical Comms
 - Enterprise Networks
 - Transport
 - PSYOP

C-4 Command, Control
Communications, and Computers



Special Operations Forces Industry Conference



Ms. Valerie Shuey

Program Manager - Intelligence

Intelligence

Portfolio Functional Capabilities

- **Intelligence Data Handling**
 - Counter-proliferation Analysis and Planning System (CAPS)
 - Integrated Survey Program (ISP)
 - SOC Research, Analysis, and Threat Evaluation System (SOCRATES)
 - SOFPREP/Distributed Mission Training and Rehearsal System (DMTRS)
- **Processing, Execution, and Dissemination (PED)**
 - Distributed Common Ground System for SOF (DCGS-SOF)
- **Signals Intelligence (SIGINT)/Electronic Warfare (EW)**
 - Joint Threat Warning System (JTWS)- Family of Systems



Intelligence



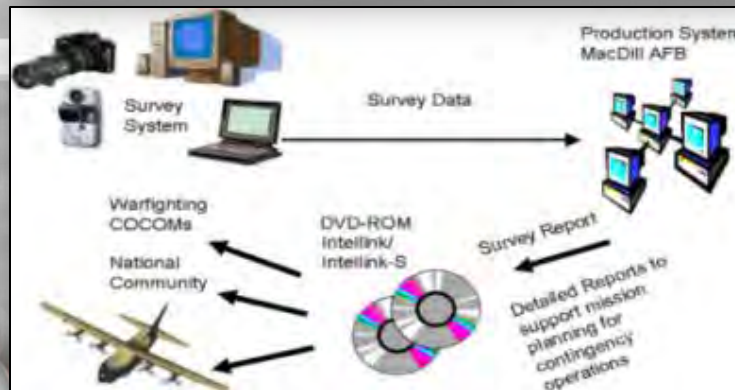
Intelligence Data Handling

- CAPS



Standard CP Toolset for DOD. Provides Tools And Assessments To DOD Mission Analysis

- ISP



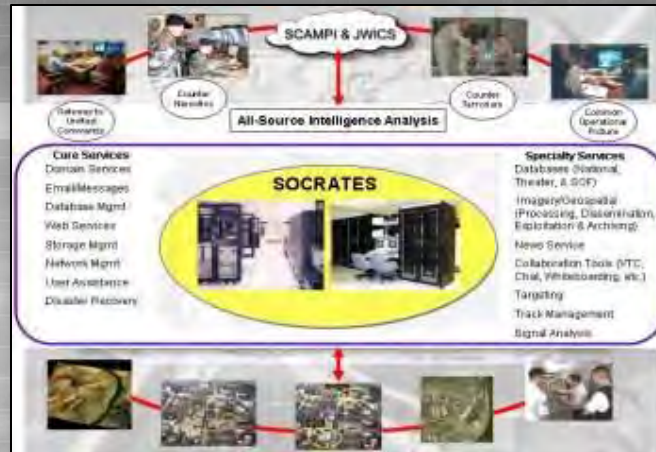
Technical Surveys And Multi-Media Production

Intelligence



Intelligence Data Handling

- **SOCRATES**



SOF Extension Of JWICS Network And Used To Acquire And Support Garrison AIS Requirements For SOF Worldwide

- **SOFPREP/DMTRS**



Provides Generation Of Legacy And Common Databases In Support Of SOFPREP (Data Management) Systems



Intelligence

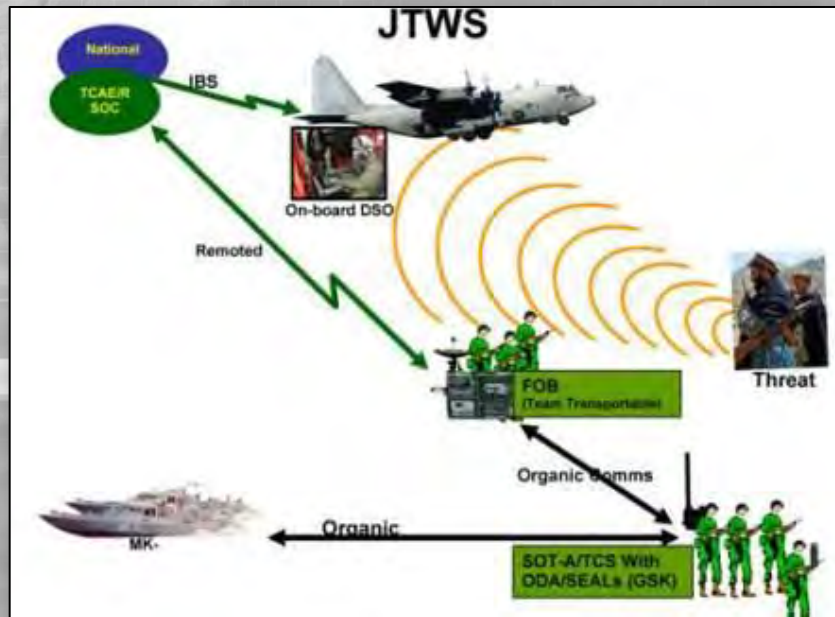


- **DCGS-SOF**



Signals Intelligence (SIGINT)/Electronic Warfare (EW)

- **Joint Threat Warning System (Family of Systems)**



- Mobile/Body Worn Ground SIGINT Kit (GSK)
- Static GSK
- Air
- Precision Geo-Location (PGL)
- Maritime



Intelligence



Accelerate the Force

- **“Modernize For Agility”**
 - Partnering/Teaming Arrangements With MILDEPS, DoD/National Agencies, Laboratories, University Academia, SYSCOMS, Industry
 - Fostering And Maintaining Collaborative Relationships With Science And Technology (S&T) Centers Of Excellence
 - Synergistic Collaboration With/Between SORDAC Program Offices To Develop, Test, And Field Platform Complete ISR Capabilities
 - Establishment Of Innovative Contracting Strategies (e.g., Intel Quick Reaction Capability Program - Multi-Award Contract)



Intelligence



Competitive Acquisitions

- Establish In-House Multi-Award Contract (MAC) To Support Signals Intelligence (SIGINT)

Acquisition Strategy

- Deliver A Solution To SOCOM For A QRC MAC Task Order Within 180 Days From Date Of Award:
 - Meets TRL 7 Requirements
 - Acceptable To SOF User (Solution Is Productive)
- Non-QRC For Production, Development, Procurement, And Sustainment

Period of Performance

- Base Year + 4 Option Years

Milestones

- RFP: July 2010
- Contract Award: 1QFY11

Point of Contact

Funding

- Potential \$250M - \$300M Over FYDP
- Est. Annual: \$20M QRC
- Est. Annual: \$30M Non-QRC

Current Contract/OEM

- None

In-House Broad Area Announcement (BAA)

**Maximum Use Of FY2010-2011 SORDAC Consolidated
BAA (HG92222-10-BAA-SORDAC-KI)**

- » **Efficient Contract For Relevant RDTE Efforts**
- » **Updated Annually With Intel; PSYOP; And Special
Reconnaissance, Surveillance, and Exploitation (SRSE)
Areas Of Technological And Scientific Importance**



Intelligence



PM Intel Breakout Sessions

Wednesday, June 16 , 1400-1445

Thursday, June 17, 0900-0945

Technology Areas of Interest:

- Networked Tactical SIGINT Systems
- Lightweight, Adaptable Tactical SIGINT Systems
- Improved Direction Finding (DF) And Geo-location (GEO) Antenna Arrays
- Exploit Modern Communication Systems
- Data Discovery And Enrichment In Support Of Intel Analysis
- Advanced Data Management Systems
- Network Multi-Level Security/Cross Domain Security Services
- Full Motion Video / Motion Imagery (FMV/MI) Exploitation
- Multi-Intelligence Fusion And Correlation



Intelligence



Questions?



Intelligence



Special Operations Forces Industry Conference



William Shepherd

Science Advisor

Director of Science & Technology



Science & Technology



Commander's Guidance for USSOCOM S&T

- Develop a coherent capability-based research and development effort focused on placing new capabilities in the hands of SOF operators
- Conduct technology discovery, coordinate research and development activities, rapidly integrate technology developments, and rapidly insert new capabilities for equipment and techniques across the force

A Special Operations force, empowered with the newest technologies and capabilities, able to operate in any environment, work effectively with partners, and defeat all adversaries

Science & Technology



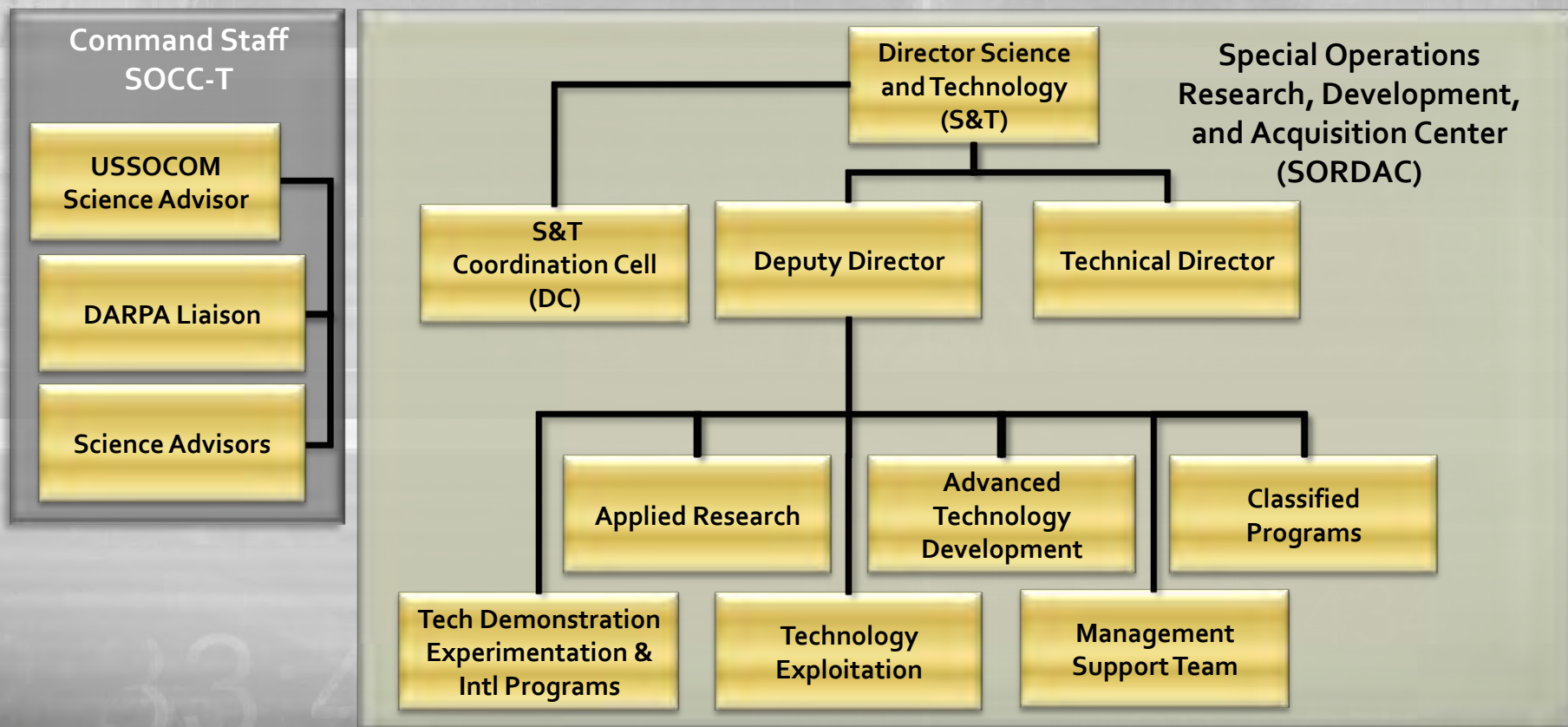
S&T Priorities

- **Exploitation**
 - Execute “Rapid Exploitation of Innovative Technologies for SOF” (REITS)
- **Capture “Best Value” for Technology Developments**
 - Pursue a comprehensive technology development strategy, integrate with USSOCOM Components and Theater Special Operations Commands (TSOCs)
- **“Whole of Government Approach”**
 - Bring broad government synergy to solving USSOCOM technical challenges

Science & Technology



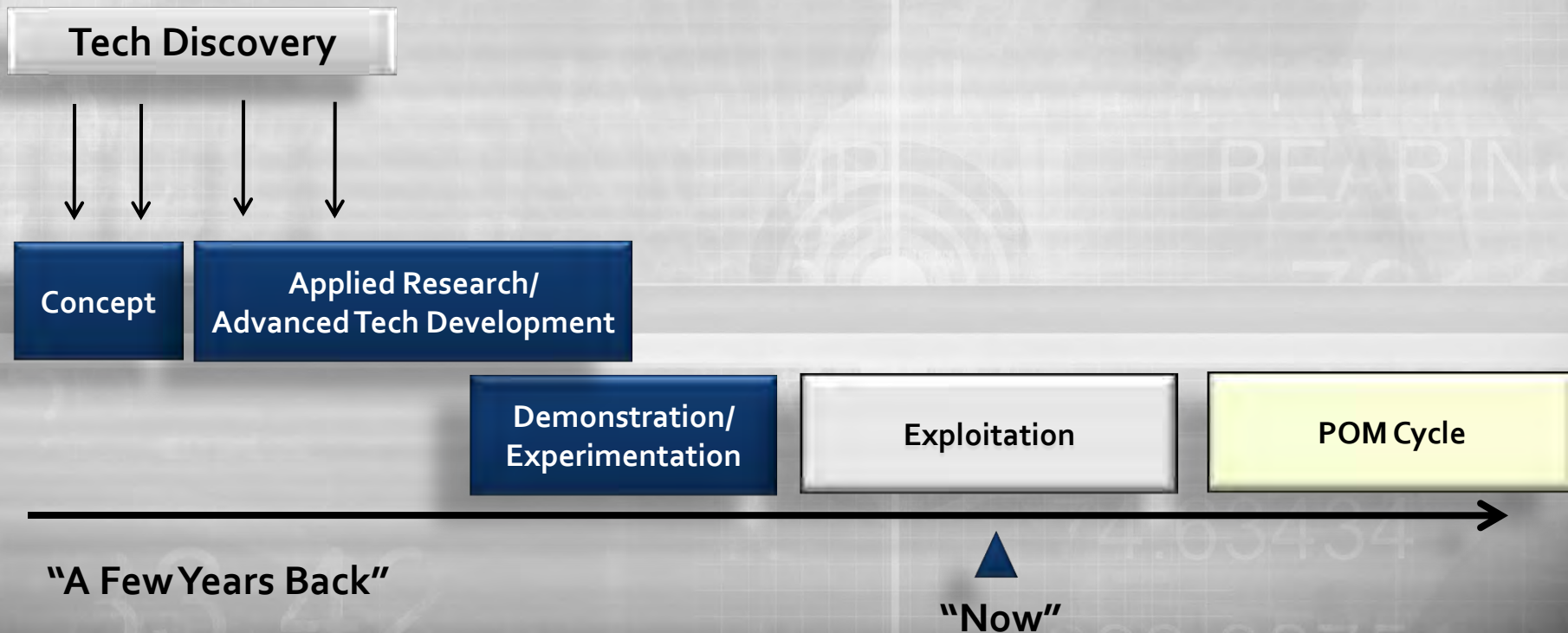
S&T Enterprise



Science & Technology



A View of the S&T “World”



Science & Technology



Rapid Exploitation of Innovative Technologies for SOF (REITS)

- REITS activities include tech demos, experimentation, rapid prototyping, and a consolidated approach to “Technical Support to Operations” (TSO)



TSO: The rapid, collaborative introduction of technical solutions to field operators, which address specific operational problems through the creation of unique equipment and capabilities.

- Anticipates needs in advance of formal requirements.
- Uses streamlined authorities for development and insertion; are for limited operational use and are not intended as sustained capabilities.
- Activities will transition to Programs Of Record where appropriate.

Science & Technology



REITS

- **FY11 and FY12 Planning**

- Command, Control, Communications, and Computers (C4); Intelligence, Surveillance, and Reconnaissance (ISR) Efforts
- Mobility Efforts
- SOF Warrior survivability and medical technologies capabilities
- Mobile Tech Complex (MTC) --SOF unique vehicles and weapons; SOF unique Electronic Warfare Improvements; and Psychological Operations

Acquisition Strategy

- Attract innovative solutions from industry through Broad Agency Announcement (BAA) process and/or existing contract vehicles

Period of Performance

- Emphasis on projects which can be completed within 12 months

Milestones

- Project dependent—solution identified, prototype tested, operational insertion and use

Point of Contact

Funding

- FY10: \$5M
- FY11: \$10M
- FY12: \$10M

Current Contract/OEM

- Various contracts with multiple vendors

Mobile Technology Complex (MTC)

A complex of various modules which can be tailored to field needs in order to repair, modify, innovate, and enhance current capabilities of SOF systems. MTC Capabilities include design; fabrication in wood, metal, plastics, and electronics; modifications for vehicles.

- Reconfigurable, expandable.
Broadband connectivity, workstations,
Video Tele-Conferencing
- Self-contained generator and
Environmental Control Unit
- Mobile—helicopter and truck
transportable



Science & Technology



Applied Research and Advanced Technology Development

- Funds studies and laboratory prototypes and links non-system basic and exploratory research to SOF-specific testable / fieldable items
- Rapid fabrication and evaluation of prototypes in relevant environments and funds Advanced Technology Demonstrations (ATDs)
- Driven by Technology Thrust Areas, technology insertions for Programs of Record, emerging requirements, and SOF supported Joint Capability Technology Demonstrations (JCTDs)

Acquisition Strategy

- Full and open competition (ST and Biomedical R&D BAAs)
- "Evolutionary" Technologies and Capabilities with Manageable Risk and Clear Near-term Value

Period of Performance

- Project Dependent: Typically 1-2 years

Milestones

- Project Dependent

Point of Contact

Funding

- FY10: \$19.2M \$20.2M (TTL)
- FY11: \$22.7M \$22.4 M (TTL)
- FY12: \$18.3M \$22.6M (TTL)

Current Contract/OEM

- Various Projects

Current Focus

- Persistent surveillance to locate and track items of interest
- Reduce operator load, human performance, conditioning, and reconditioning
- Armor –Body and transparent
- Individual thermal protection
- Exploit emerging advanced Visual Augmentation Systems
- Small arms technology
- Multi-fuel engines
- Combatant craft technologies—mobility, signatures, situational awareness
- Wireless technologies
- Common C2 architectures
- Imaging technologies
- Far-forward Tactical Combat Casualty Care and MEDIVAC; Rapid assays/diagnostics
- Power system technologies – Size Weight and Power (SWaP)
- Manned and unmanned logistics support in austere locations

Science & Technology



Opportunity

- **Applied Research will pursue a multispectral Digital Night Vision Goggle (mDNVG) demonstrator in FY11**
 - Short Wave Infrared (SWIR) is to be included
 - SWaP a major concern
 - Need advancement in micro digital displays

Acquisition Strategy

- Full and Open Competition
- RFP release early FY11

Period of Performance

- 12-18 Months

Milestones

- RFP – 1QTR11
- Contract Award 2QTR11

Point of Contact

Funding

- Up to \$3M

Current Contract/OEM

- TBD

Small Business Innovation Research (SBIR)

- The Directorate of S&T is the Command's SBIR coordination office
- DoD web-based proposal submission
 - USSOCOM SBIR topics are posted on DoD SBIR website (<http://www.dodsbir.com>)
- Next Submission Cycle
 - SBIR Solicitation 2011.1
 - Posted on SBIR Website (10Nov10)
 - Accept Proposals (13Dec10)
 - Close to Proposals (12Jan11)

Acquisition Strategy

- Competitive Phase I awards through DoD solicitation; high percentage of follow-on awards

Period of Performance

- Phase I: Not to exceed 6mos and \$100K
- Phase II: Not to exceed 24mos and typically \$1M
- Phase III: Outside funds (other than SBIR)

Milestones

- Phase I: Feasibility study and/or proof of principle
- Phase II: Prototype development up to a Technology Readiness Level (TRL) 5-6 at completion
- Phase III: Additional development and acquisition; TRL 9 at completion

Point of Contact

Funding

- FY10: \$10.097M
- FY11: TBD

Current Contract/OEM

- Various Projects

Questions?



Science & Technology



Special Operations Forces Industry Conference



Chris Harrington
Office of Small Business Programs



OFFICE OF SMALL BUSINESS PROGRAMS



Overview

- Great Opportunities
- What Does the Office of Small Business Programs (OSBP) Look For in a Small Business?
- How Does OSBP Support Small Business
- How You Can Help OSBP
- USSOCOM Small Business Performance
- Useful Websites
- OSBP POCs



OFFICE OF SMALL BUSINESS PROGRAMS



Great Opportunities

- Take Full Advantage This Week
 - TILO
 - Q & A Panel
 - Celestar CEO (Small Business)
 - SRA/L-3 Comm
 - Networking



OFFICE OF SMALL BUSINESS PROGRAMS



What Does OSBP Look For?

- **Capability is #1**
 - What Do You Bring to the Table?
 - Teaming to Strengthen
- **Past Performance**
- **“Tickets” are Secondary at Best**



OFFICE OF SMALL BUSINESS PROGRAMS



How Does OSBP Support Small Business

- Your Advocate within the Command
- Works Closely with the Small Business Administration
- Part of Acquisition Strategy Development Teams
- Member on the Larger Source Selection Teams
- Matchmaker
- Available via Telecon or In-Person for 1 on 1 Time



OFFICE OF SMALL BUSINESS PROGRAMS



How Can You Help OSBP

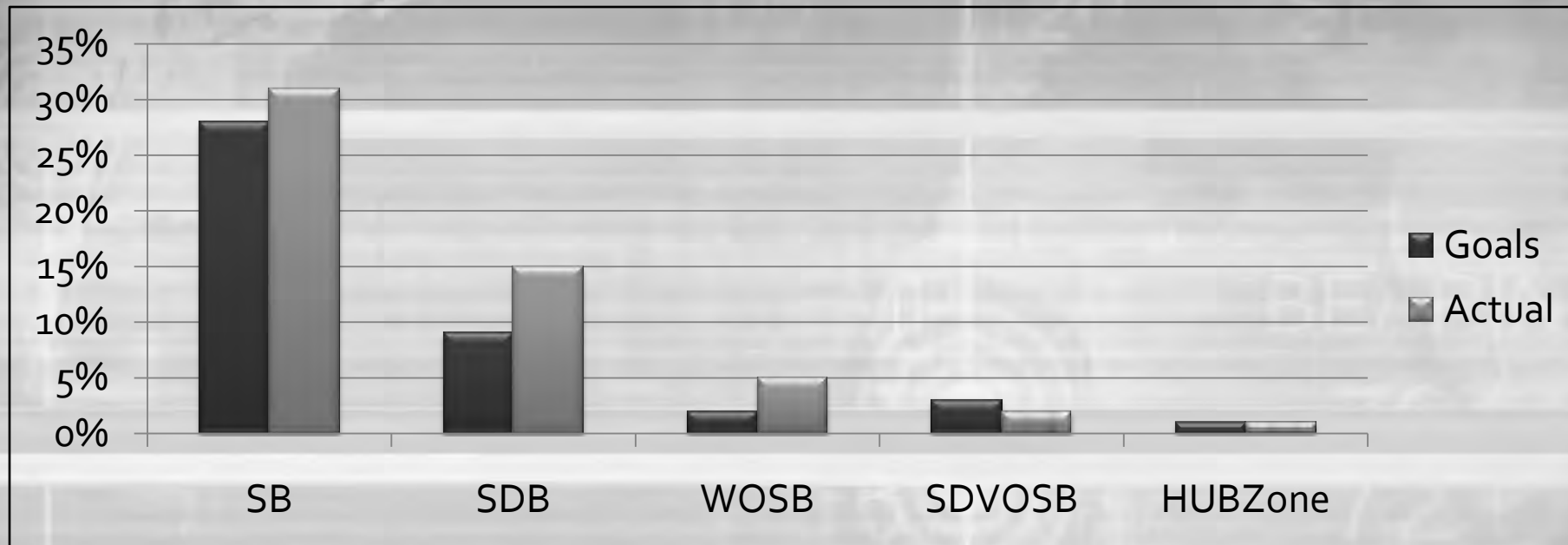
- **Read, Read, Read**
- **Answer Sources Sought/Requests For Information**
 - Respond Timely, Usually to the Contracting Officer
- **Know Your Capabilities**
 - Can't be Everything to Everyone
- **Perform**



OFFICE OF SMALL BUSINESS PROGRAMS



Small Business Performance



FY09 (\$M)	780.5	297.2	93.3	50.5	23.9
FY10 (\$M)	332.9	159.4	52.5 (2Q)	19.7	13.9



OFFICE OF SMALL BUSINESS PROGRAMS



Useful Websites

- USSOCOM FedBizOpps
 - <https://www.fbo.gov/index?tab=offices&s=agency&mode=form&id=aa97990bc42c820fc485d51b23f2bc49&cck=1&au=&ck>
- Corp of Engineers
 - <https://www.fbo.gov/index?s=agency&mode=form&tab=notices&id=63dd2680762c21c611c41c2499b507c5>



OFFICE OF SMALL BUSINESS PROGRAMS



Special Operations Forces Industry Conference

A large background image showing the silhouettes of two men standing on a bridge or walkway overlooking a park. The man on the right is wearing a military-style cap and gesturing with his hands. The man on the left is holding a folder. In the background, there is a body of water, a fountain, trees, and an American flag under a blue sky with clouds.

Kelly Stratton-Feix
Technology & Industry Liaison Officer

**Technology & Industry
Liaison Office**

A small image in the bottom right corner showing the silhouettes of three soldiers in full combat gear, including helmets and night vision devices. They are standing in front of a helicopter at night, with its lights visible against a dark sky.

Mission

- Communicate, Collaborate and Connect industry capabilities, ideas and solutions to command capability areas of interest
- Receive and coordinate Unsolicited Proposals
- Receive and coordinate Cooperative Research And Development Agreements
- Plan, coordinate and conduct Special Operations Forces Industry Conference

**Technology & Industry
Liaison Office**



Communicate



BUSINESS OPPORTUNITIES
WITH USSOCOM



Technology & Industry Liaison Office



Collaborate

- Industry
- Academia
- Labs
- Individuals

Submission
via TILO
portal

SO-peculiar,
addresses
technology
interest
areas

TILO review of
information
and
initial contact

TILO overview of
collaboration and
archiving of
capabilities

Events
conducted,
feedback
provided

Collaborate
and broker
information
within
command

Subject matter expert
review, feedback to
industry and brokering
of capabilities

Submit Your Ideas @ www.socom.mil/sordac

Technology & Industry Liaison Office



Connect



• Events Held: **159**

• Personnel Attending
Events: **591**

• Industry Visits to
AE/DDAE: **76**

• Total Ideas Submitted:
454

* 1-3 Qtr FY10



Technology & Industry Liaison Office



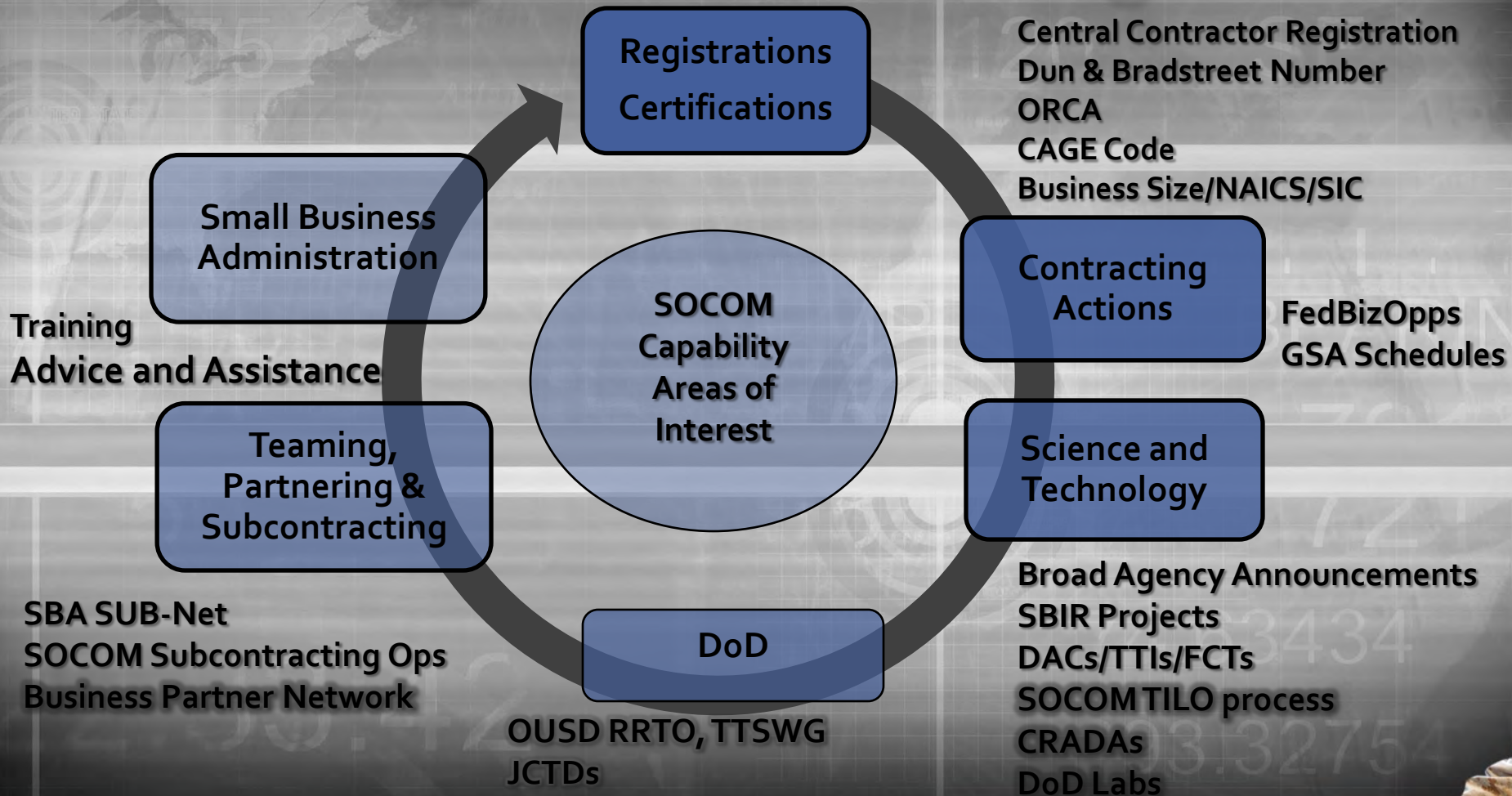
Process Benefits

- SOCOM receives targeted information to technology areas of interest
- Industry capabilities are brokered by subject matter experts within the command
- Briefed capabilities will get TILO feedback
- All contractors go through same process
- Briefing material and all contact information retained by TILO for future use/collaboration

**Technology & Industry
Liaison Office**



Business Opportunities Roadmap



**Technology & Industry
Liaison Office**



www.socom.mil/sordac

The screenshot shows the USSOCOM TILO website. At the top is the USSOCOM logo and the text "UNITED STATES SPECIAL OPERATIONS COMMAND USSOCOM". Below this is a navigation bar with links: "SOCOM", "Acquisition Executive", "TILO", "Program Executive Offices", "Direct Programs", "Directorates", and "Other Office". A secondary bar contains links: "Capability Areas of Interest", "Business Partner Network", "TILO Review Process", "CRADA", "TILO News", and "Privacy Policy". The main header features the "Technical Industrial Liaison Office" title with the tagline "Communicating, collaborating, and connecting with industry to get the right capabilities to our SOF Warfighters." and a large image of hands exchanging a business card. To the right of the image is the "USSOCOM TILO" logo. Below the header is a grid of five buttons: "Capability Areas of Interest" (with a photo of people at a display), "Business Partner Network" (with a photo of two men talking), "Submit Your Idea" (with a lightbulb icon), "TILO Review Process" (with text about submitting ideas via the TILO portal and reading more about the review process), and "CRADA" (with a red sphere icon and text about learning more about CRADA).

UNITED STATES SPECIAL OPERATIONS COMMAND
USSOCOM

[SOCOM](#) | [Acquisition Executive](#) | [TILO](#) | [Program Executive Offices](#) | [Direct Programs](#) | [Directorates](#) | [Other Office](#)

[Capability Areas of Interest](#) | [Business Partner Network](#) | [TILO Review Process](#) | [CRADA](#) | [TILO News](#) | [Privacy Policy](#)

Technical Industrial Liaison Office

Communicating, collaborating, and connecting with industry to get the right capabilities to our SOF Warfighters.

USSOCOM TILO

Capability Areas of Interest What Is A Capability of Interest?	Business Partner Network Click Here to Learn More About the Business Partner Network...	Submit Your Idea 	TILO Review Process Capability submission via TILO portal SO-peculiar, innovative, addresses technology interest areas Click Here to Read More About the TILO Review Process...	CRADA To Learn More About CRADA Click Here...
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**Technology & Industry
Liaison Office**



TILO Staff

Contact TILO@socom.mil, 813-826-9482

**Technology & Industry
Liaison Office**



Special Operations Forces Industry Conference



COL Chris Miller

Program Executive Officer - Rotary Wing



Rotary Wing

The Year In Review

SOF Acquisition Team deliveries and major events:

- 7 MH-47G aircraft delivered to the 160th SOAR
- 11 A/MH-6 Block 2.0 Upgrade completed and returned to the 160th SOAR
- 8 MH-60 aircraft inducted in the SOFSA production line
- 5 MH-60M completed and awaiting fielding
- 7 SIRFC shipsets delivered to the 160th SOAR
- Incorporated Rotary Wing Training Systems (Simulators) into PEO RW
- Incorporated Non-Standard Rotary Wing aircraft (Mi-17) into PEO RW



SOF RW Capabilities

* Configuration
Dependant



MH-6M MELB

Mission Equipped Little Bird (MELB)
Light Attack/Assault
* 6 Combat Equipped Troops (Assault)
* Max Cruise Speed: 120 knots
* Max Gross Weight: 4,700 lbs
Rapidly Deployable
Shipboard Operations
Surgical Point Insertion
Aerial Reconnaissance
Close Air Support
Reconfigurable Armament (Attack)



MH-60M Blackhawk

Medium Assault
* 9 Combat Equipped Troops
* Max Cruise Speed: 140 knots
* Max Gross Weight: 24,500 lbs
* External Loads 9,000 lbs
Aerial Refuel Capable
Suppressive Fire Capability
Resupply
Advanced Aircraft Survivability Equipment
Defensive Armed Penetrator (DAP)
Reconfigurable Armament
Armed Escort & Close Air Support



MH-47G Chinook

Heavy Assault
* 44 Combat Equipped Troops
* Max Cruise Speed: 130 knots
* Max Gross Weight: 54,000 lbs
* Ext Loads: 25K lbs tandem, 26K lbs center hook
Aerial Refuel Capable
Suppressive Fire Capability
Resupply
Advanced Aircraft Survivability Equipment



YMQ-18A Hummingbird

Unmanned Aerial System
Multi-role Missions (ISR/Re-Supply)
* Gross Weight : 5500 lbs
* Payload: 2500 lbs
* Range: 2250 NM
* Endurance: 18.7 hrs w/300 lbs
12.1 hrs w/532 lbs
8.1 hrs w/1000 lbs
* Speed: 142 kts
* Ceiling : 20000 ft

A/MH 6M MELB



With a maximum gross weight of 4,700 pounds and the ability to travel at over 100 knots, the A/MH-6M Mission Enhanced Little Bird (MELB) provides the SOF community in attack or assault roles.



Technology Upgrades/Current Efforts:

- Crashworthy seats
- Lightweight Hellfire
- Block 2.0 Upgrade
- LRF/D into the Q3



MH-60M Blackhawk



The Medium lifter for SOF is the MH-60M. With a maximum gross weight of 24,500 pounds and the ability to travel at over 150 knots, the MH-60M The SOF Blackhawk comes in two configurations:

- Troop transport configuration
- Defensive Armed Penetrator (DAP) armed configuration.

Technology Upgrades/Current Efforts:

- 2500 shp YT706-GE-700 Engines
- Integrated, Warning, Cautions, Audio (Voice)
- Silent Knight Radar (SKR)
- Quick Lift to DAP Reconfiguration Capability
- Suite of Integrated Radio Frequency Countermeasures (SIRFC)



MH 47 G Chinook



The heavy lifter of the SOF rotary wing is the MH-47G Chinook. With a maximum gross weight of 54,000 pounds and the ability to travel at over 150 knots, the MG-47G provides the SOF community with a proven, durable workhorse that is able to fulfill a variety of missions around the world

Technology Upgrades/Current Efforts:

- Integrated, Warning, Cautions, Audio (Voice)
- Dual Mode Searchlight
- Left Gunner Windows Modifications
- Suite of Integrated Radio Frequency Countermeasures (SIRFC)



YMQ-18A Hummingbird



Currently undergoing extended User evaluation, The YMQ-18A was designed as a long-endurance vertical takeoff and landing (VTOL) UAS, has flown a world record 18.7 hours with a 300 pound payload. The aircraft's current maximum gross weight is 5,500 pounds with a design objective of 6,500 pounds and speeds in excess of 140 knots.

Technology Upgrades/Current Efforts:

- SATCOM Beyond Line of Site Comms
- Environmental Hardening
 - Weatherization
 - Blade Leading Edge
 - Air intake redesign
- Redundant Flight Controls
- Unmanned Resupply Modifications



Combat Mission Simulators

A/MH-6M Little Bird



MH-60L/M CMS



MH-47G CMS



To provide the 16th Special Operations Aviation Regiment (Airborne) (SOAR(A)) with high-fidelity training systems for the MH-47E, MH-60K, MH-47G, MH-60L, and A/MH-6M aircraft that support USSOCOM requirements; Combat Mission Simulators also provide air crews a real-world capability to practice, validate and verify tactics, techniques and procedures to support training and mission rehearsal.

Technology Upgrades/Current Efforts:

- Upgrade CAAS
- Common Missile Warning System (CMWS)
- Back UP Rotor RPM (BURRPM)
- Suite of Integration RF Countermeasures (SIRFC)

Rotary Wing



Competitive Acquisitions

- Hostile Fire Indicating System (HFIS)
- Reduce Optical Signature Emission Solution (ROSES)
- Light Weight Transparent Armor



Hostile Fire Indicating System (HFIS)

- Detects, classifies, and alerts the aircrew to the presence of small caliber, crew-served, AAA, and RPG fires
- By providing detection and angle of arrival, HFIS will enhance aircraft survivability

Acquisition Strategy

- Full and Open Competition

Period of Performance

- FY10-TBD

Milestones

- 3rd QtrFY-11 Established interim HFI software solution
- FY12 Milestone C Decision

Point of Contact

- USSOCOM PEO-Rotary Wing

Funding

- \$2.5M RDT&E FY10
- \$4M RDTE FY11
- \$19M PROC FY12-15

Current Contract/OEM

- TBD

Reduce Optical Signature Emission Solution (ROSES)

- This program will develop a replacement flare that will operate outside of the visible spectrum
- Improve effectiveness and survivability of current and emerging IR threats

Acquisition Strategy

- Full and Open Competition

Period of Performance

- FY10-TBD

Milestones

- FY11-12 Flare development
- FY13 New Flare Solution
- FY 13 Milestone C Decision

Point of Contact

- USSOCOM PEO-Rotary Wing

Funding

- \$3.8M RDT&E FY10
- \$4M RDT&E FY11
- \$2.9M RDT&E FY12
- \$3.5M PROC FY13

Current Contract/OEM

- TBD

Light Weight Transparent Armor

- Light Weight Transparent Armor
- This program will be applied to flat and large curved surfaces and will not degrade optical clarity

Acquisition Strategy

- Full and Open Competition

Period of Performance

- FY14-TBD

Milestones

- FY14&15 Research and Development
- FY15 Milestone C Decision

Point of Contact

- USSOCOM PEO-Rotary Wing

Funding

- \$11M RDT&E FY14
- \$1.9M RDT&E FY15
- \$10.9M PROC FY15

Current Contract/OEM

- TBD

PEO RW Breakout Sessions

Wednesday, June 16 , 1530-1615

Thursday, June 17, 1345-1430

Technology/Capability Areas of Interest:

- **Aircraft Occupant Ballistic Protection System (AOBPS)**
- **Hostile Fire Indicating System (HFIS)**
- **Reduced Optical Signature Emissions Solution (ROSES)**



Special Operations Forces Industry Conference



Col Duke Richardson

Program Executive Officer - Fixed Wing

Fixed Wing

Find - Infiltrate - Finish

MOBILITY

- CV-22
- MC-130E Talon
- MC-130H Talon II
- MC-130P Shadow
- MC-130 Recap
- MC-130W Combat Spear
- EC-130J
- Non-Standard Aviation Systems



MISSION SYSTEMS

- Silent Knight Radar
- Directional Infrared Countermeasures



ISR

- MQ-1
- MQ-9
- EUAS
- MEUAS
- SUAS
- Global Observer



STRIKE

- AC-130H Spectre
- AC-130U Spooky
- MC-130W Dragon Spear
- SOPGM
- AC-130 Recap

Fixed Wing



CV-22 SOF Osprey



Provides Long-Range, High Speed, All Weather, Infiltration, Exfiltration, and Resupply of Special Operations Forces Teams in Hostile, Denied, and Politically Sensitive Areas in a Single Period of Darkness



Technology Upgrades/Current Efforts

- Block 10 Retrofit (DIRCM, Silent Shield, Improved FE Seat/Display, Troop CDR Station)
- Block 20 Development (Avionics Upgrades and Correction of Deficiencies, TF Improvements, Improved Crew Interfaces, HMD)
- Joint Performance Based Logistics (JPBL) for Long Term Sustainment

Fixed Wing



MC-130 Recapitalization

In Line Modifications on the HC/MC-130J Production Line to Meet SOF Specific Operational Requirements



Current Efforts

- Inc 1 (LPI Beacon Group A, 60 Hz Power Outlets, Aux Flight Deck Station)
- Inc 2 (Loadmaster/Scanner Restraint System, HSLADS Rollers & Power, LAIRCM Group A Provisions)
- Inc 3 (Special Mission Processor, Secure Global Digital Map, Horizontal Situational Awareness)

Fixed Wing



Variable Speed Drogue (VSD)

Refuel CV-22 or Two Helicopters
Simultaneously Without Landing to
Reconfigure



Current Efforts

- Continue Competitive Drogue Development
- Qualify Drogues on Receiver Aircraft

Fixed Wing



AC-130 Recapitalization



Medium-Caliber Gun



Dual EO/IR Sensors



SOF Comms Suite



*Crew Workstations
Fire Control System
Mission Management*



SOPGMs



**Replace 8 AC-130H Aircraft
With 16 AC-130Js by
Leveraging HC/MC-130J
and Dragon Spear
Production Lines**



Current Efforts

- Program Initiation & Risk Reduction

Fixed Wing



Silent Knight Radar

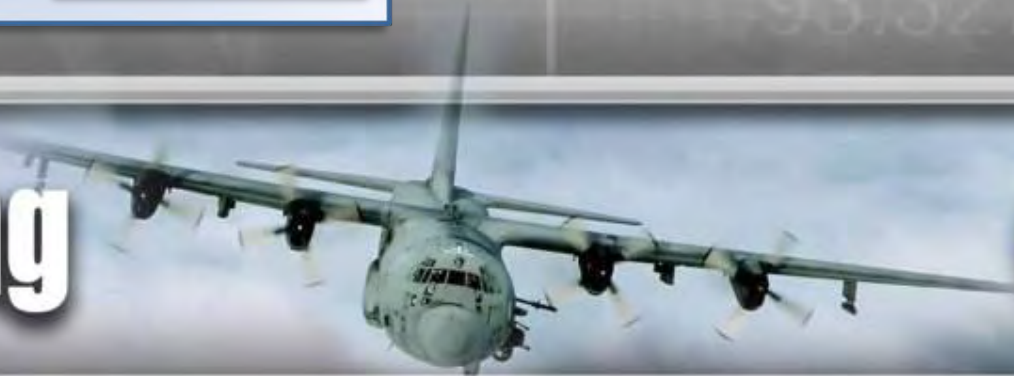
Develop, Test, and Field a SOF Common Terrain Following/Terrain Avoidance (TF/TA) Multi-Mode Radar (MMR) For SOF Aircraft



Current Efforts:

- Continue Engineering and Manufacturing Development
- Conduct Prototype Radar Integration and Testing
- Begin Contractor Flight Testing
- Build MH-47G Integration Kit
- Refine Developmental Test Plans

Fixed Wing



Expeditionary UAS

Dedicated UAS Providing On-Demand ISR Capabilities to SOF Groups and Squadrons



Current Efforts

- 5 Year IDIQ Contract Awarded 11 Sept 09
- Producing Low Rate Production Systems
 - Buying 9 Aircraft & 3 Ground Control Stations
 - Scheduled Deliveries Start Summer 2010
- Three Operator Training Classes
- Operational Assessment

Fixed Wing



Mid-Endurance UAS

World-Wide Deployable
Contractor Owned Contractor
Operated (COCO) Airborne ISR



Technology Interest Areas

- Next Generation IR Camera
- Encrypted Digital Data Link

Fixed Wing



Competitive Acquisitions

- **Mission Computer Replacement Program (MCRP)**
 - Replace AP-102 Mission Computer on AC-130U and MC-130H
- **Lethal Miniature Aerial Munitions System (LMAMS)**
 - Introduces New Capability for Man-Portable Precision Guided Flying Munitions
- **Mid-Endurance Unmanned Aircraft System (MEUAS)**
 - Provides Intelligence Gathering, Target Surveillance, and Reconnaissance (ISR) Services

Fixed Wing



MCRP

- Address Obsolescence/DMS Issues
- Future Growth Capability (Memory/Processing Speed/Growth Ports/Slots) Will Only be a Function of Currently Available Technology
- Solution is Not Tied to AMP Future and Will Not Provide CNS/ATM Compliance

Acquisition Strategy

- Full & Open Competition
- Competitive Prototyping
- Up to 130 systems

Period of Performance

- FY10-14

Milestones

- Market Research: Mar 10
- RFI: May 10
- Industry Day: 29 Jun – 1 Jul
- Finalize Acquisition Docs: Sep 10
- Initiate Solicitation (RFP): Oct 10
- Award Development Contract(s): 2QFY11

Point of Contact

- **USSOCOM
SORDAC-FW**

Funding

- FY10: \$4.6M
- FY11: \$24.6M
- FY12-14: TBD

Current Contract/OEM

- N/A

LMAMS

- **Planning Limited Procurement of Commercially Available Systems for Evaluation**
- **Anticipate RFP Release in 4th Qtr FY10**

Acquisition Strategy

- Limited Procurement of NDI systems for Evaluation

Period of Performance

- One-Time Procurement

Milestones

- RFP Release: 4th Qtr FY10
- Contract Award: 1st Qtr FY11
- Combat Evaluation: 1st Qtr FY11

Point of Contact

- **USSOCOM**
SORDAC-FW

Funding

- RDT&E

Current Contract/OEM

- None / None

MEUAS

- **World-Wide Mid-Endurance Unmanned Aircraft System Providing Intelligence Gathering, Target Surveillance, and Reconnaissance (ISR) Services**
- **Turn-Key Operation - 24/7 ISR Product Availability Up To 900 Flight Hours Per System Per Month**
- **Currently Five Detachments Providing 3,000 Flight Hours Per Month – Driven by Operational Needs**

Acquisition Strategy

- Full and Open Competition for Contractor Owned Contractor Operated Turn-Key ISR Services

Period of Performance

- Firm Fixed Price, 5 Year Indefinite Delivery Indefinite Quantity (IDIQ)

Milestones

- RFP Release 1st Qtr 2011
- Contract Award 3rd Qtr 2011

Point of Contact

- USSOCOM SORDAC-FW

Funding

- Supplemental / OCO O&M
- Varies Annually

Current Contract/OEM

- MEUAS / Boeing-Insitu

PEO-FW Break-Out Sessions

Wed, 16 Jun @ 1300-1345 - Ballroom A

Thu, 17 Jun @ 1515-1600 - Ballroom A

Discussions

- **Cost of Ownership**
- **Situational Awareness - Brownout Landings**
- **Situational Awareness - Battlespace Awareness**
- **Aircraft Self Protection**

Fixed Wing

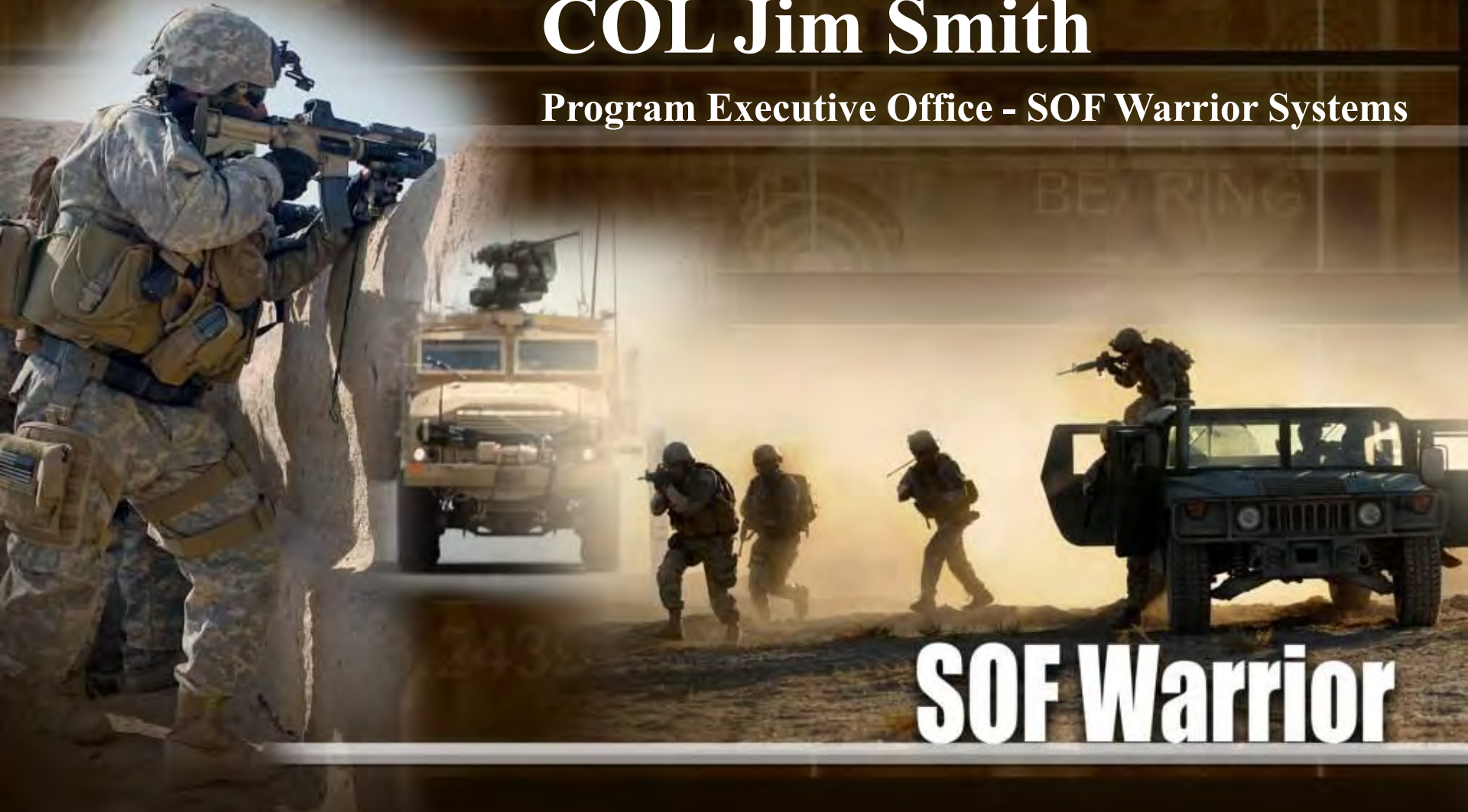


Special Operations Forces Industry Conference



COL Jim Smith

Program Executive Office - SOF Warrior Systems



Agenda

- Mission
- Organization
- Who We Are
- What We Do
- PEO Challenges
- Competitive Opportunities
- Technology Challenges



SOF Warrior

Mission

**Equip Special Operations Forces for Decisive
Engagement While Conducting Ground
SOF Activities
and**

**Counter Terrorism and Counter WMD
Proliferation Missions**



Organization

Program Executive Officer
COL Jim Smith
Deputy Program Executive Officer
Mr. Mark Steblin

Budget and Financial
Management

System Integration
Sustainment, NET, and FTT

Program Managers
Family of SOF Vehicles
Survival Support Equipment Systems
Counter Proliferation
Sensitive Activities
Special Programs
Communications and Intelligence Support Systems

System Acquisition Managers
Target Engagement Systems
Survival Support Equipment Systems
C4 – Information Operations
Mobility

ARDECs

NSWC-Crane

Natick-Soldier Systems



Who We Are



**Advanced Lightweight
Grenade Launcher**



MK13 Sniper Rifle w/ INOD



**AN/PVS-15 Night Vision
Goggle**



MK48 Lightweight SOF Machinegun



EGON Jammer



**RG-31 Medium Mine
Protected Vehicle**

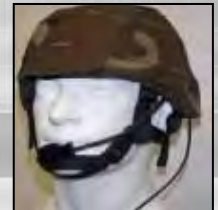


SOF Demolition Kit



**Multi-Purpose Anti-Armor
Anti-Personnel Weapon
System**

**Modular Integrated
Communications
Helmet**



**Handheld
Laser Marker**



Ground Mobility Vehicle



**SOF Laser
Acquisition Marker**



Combat Casualty Care Kit



SOF Combat Assault Rifle



**Body Armor/
Load Carriage System**

Mobility



- **SOF Unique**
 - Single seat 4x4 All Terrain Vehicles procurement and fielding
 - Side-by-Side 4x4 All Terrain Vehicles procurement and fielding
 - Non-Standard Commercial Vehicle procurement and fielding
 - Specialized Reconnaissance Assault Transport System fielding
 - Internally Transported Vehicle development
- **SOF Modifications to Service Common**
 - Ground Mobility Vehicle
 - MRAP Family (RG-31, RG-33, AUV, and MATV)



Target Engagement



- Visual Augmentation Systems
 - Head Borne: PVS-15A, Clip-On Thermal Imager, Digital Fusion Goggles, Panoramic Night Vision Goggle
 - Weapon Mounted: Clip-On Night Vision Devices, Direct Optic Magnified Sights, Red Dot Aiming Sights, Sniper Sights
 - Handheld: Thermal Imagers, Laser Acquisition Markers
 - Vehicle Mounted: Driver, Short-Range, and Long-Range Mobility Systems
- Weapons and Accessories
 - Combat Assault Rifles
 - Machine Guns
 - Sniper Rifles
 - Laser Pointers, Illuminators, and Suppressors



Survival



- Medical: Operator and Medic Kits, Causality Evacuation Kits
- Body Armor, Soft Armor, and Load Carriers
- Combat Uniforms
- Helmets and Mounts
- Eye protection and Headsets

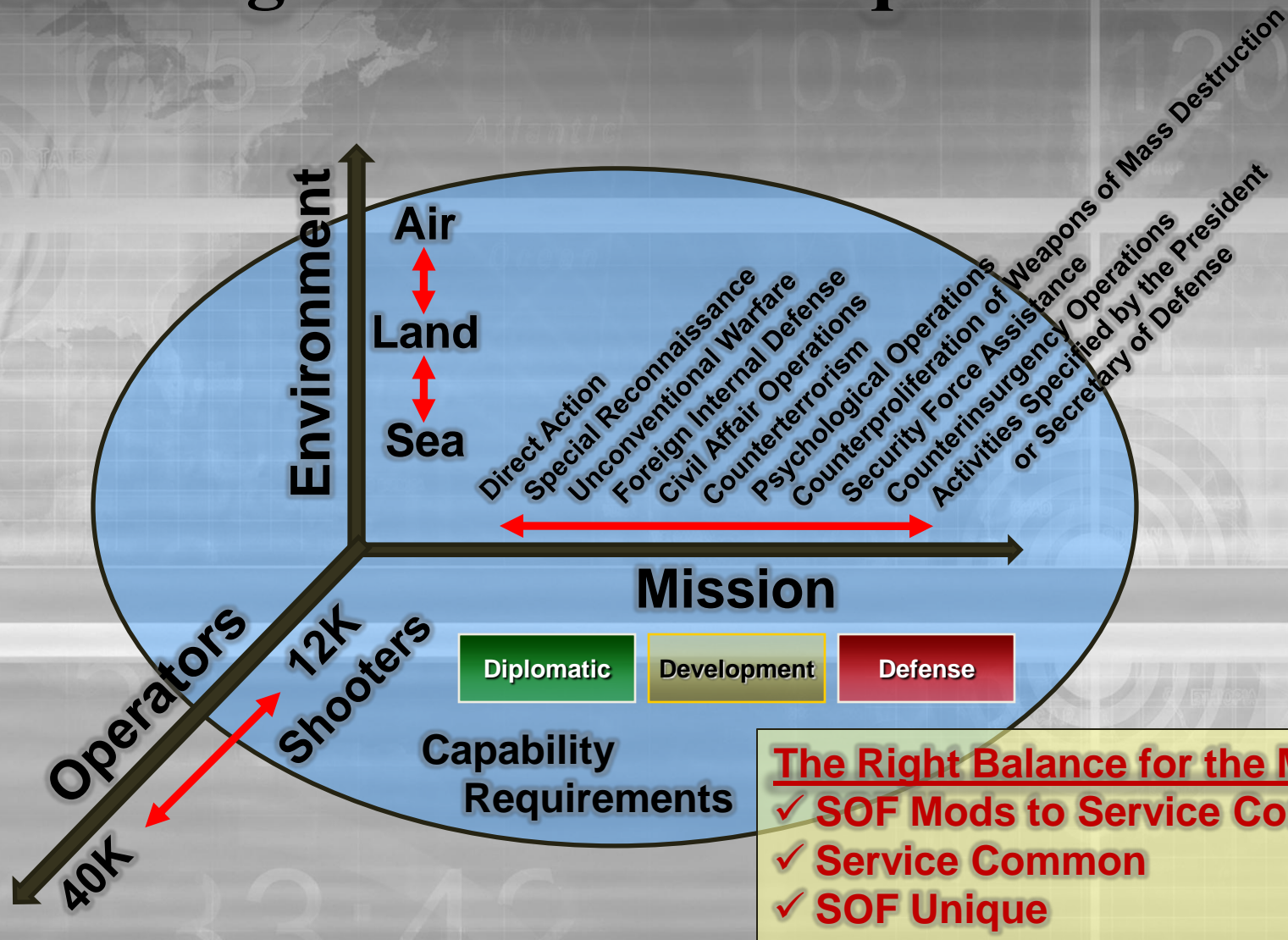


What We Do (June 2009 – May 2010)

- Number of Contracts/Orders 509; Percent Competitive 44%
 - Clip-On Thermal Imager (COTI) (\$32M, IDIQ, 5 Years)
 - Mine Resistant Ambush Protected – All Terrain Vehicle (MATV) (\$136M, Production, 2 Years)
 - I² Tubes (\$30M, IDIQ, 3 Years)
- Funds Executed:
 - RDT&E \$99M
 - PROC \$561M
 - O&M \$358M
- Equipment Fielded
 - SOF Combat Weapons 3,704
 - SOF Weapons Accessories 28,880
 - Visual Augmentation Devices 8,309
 - SOF Vehicles 451
 - Survival Support Equipment Systems 83,108



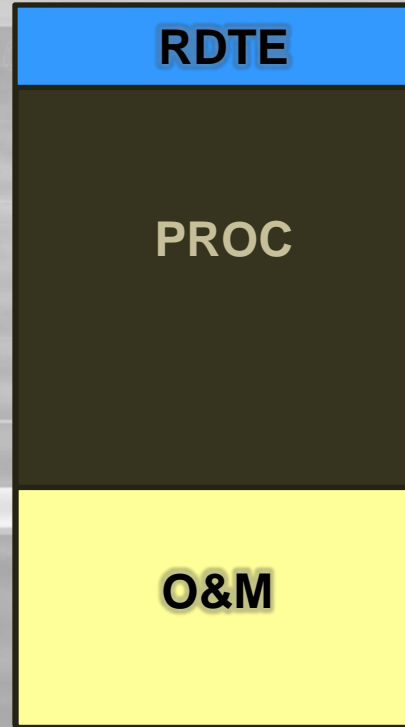
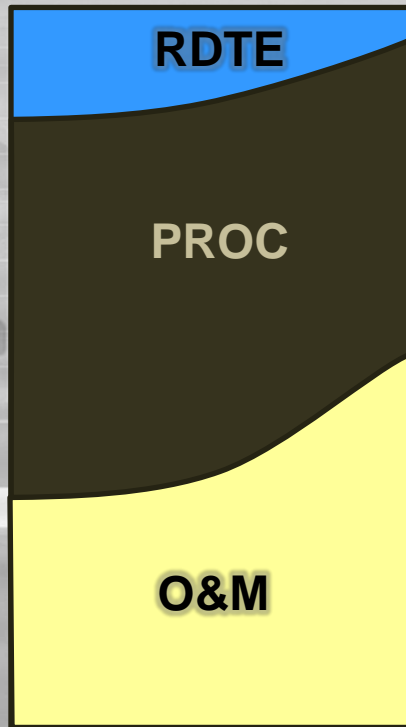
Convergence of SOF Unique



PEO Challenges

Current Profile

Desired Profile



Risk Mitigation Focus Areas

← National-to-Theater Transitions

← SOF-unique to Service-Common

← Control Sustainment Costs

MFP-11
Obligation
Authority
\$

FY

FY

Opportunities Next 12-18 Months

- Non Standard Material
- Improved Flash-Bang Grenade
- Enhanced Carbine Optical System
- Enhanced Carbine Optical System for close quarter combat
- Backpack
- Eye Protection (Spectacles and Goggles)
- Soft Armor
- Modular Supplemental Armor Protection (Extremity Protection)
- Load Carriage Systems (various)
- Visual Augmentation System (VAS) Mounts
- Ballistic Plate
- Armor Vest
- Maritime Communications



Non-Standard Material



SOF operators must be proficient with a wide variety of weapons. To support this requirement USSOCOM purchases small quantities (10-100) of weapons and ammunition which is not within the U.S. inventory. Weapons may include AK-47, RPG-7, 28mm Mortars, MP-5, and associated ammunitions. In some cases the Government may accept delivery overseas.

Acquisition Strategy

Blanket Purchase Agreement
Vendor bids due normally within 30 days

Period of Performance

Five Years

Milestones

RFP Release August 2010
Awards per Task Orders

Point of Contact

PEO SW

Funding

Current average: 1.5M annually

Current Contract/OEM

22 separate vendors

Improved Flash-Bang Grenade

USSOCOM is looking for a MK13 replacement. Characteristics sought include Loudness, Flash (as measured in intensity, duration, and size of the fire ball), Reduced Smoke, Hand-Safe (even if device was to explode in the users hand), and Non-Lethal.



Acquisition Strategy

Full and Open Competition to acquire replacement item for the current MK13

Period of Performance

TBD

Milestones

RFP Release August 2010
Contract Award March 2011

Point of Contact

PEO SW

Funding

TBD, annual inventory use and objective is estimate at 15,000

Current Contract/OEM

NSWC-Crane

Enhanced Carbine Optical System

USSOCOM is seeking a replacement for the SU-230 and SU-230A articulated telescopes. A variable powered sight compatible with existing clip-on MDNS systems is required.

Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 2nd Qtr FY11
Award 1st Qtr FY12

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

ELCAN

Enhanced Carbine Optical System for Close Quarter Combat

USSOCOM is seeking a replacement for the SU-231 reflex sight. An open field of view, quick target acquisition sight compatible with existing night vision capabilities is required.

Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 2nd Qtr FY11
Award 1st Qtr FY12

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on Component requirements

Current Contract/OEM

EOTECH

Backpack

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release 4thQtrFY11
Award May/June 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Mystery Ranch
S.O. Tech

Eye Protection (Spectacles and Goggles)

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements.



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2010
Award May 2011

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Oakley

Soft Armor

5 year IDIQ contract with estimated \$350M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2010
Award Jun 2011

Point of Contact

PEO SW

Funding

Estimated \$350M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

BAE
Safari-Land

Modular Supplemental Armor Protection (Extremity Protection)

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2011
Award Sep 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Ceradyne

Load Carriage Systems (various)

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2011
Award Jun 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

ADS Corp
Eagle

Visual Augmentation System (VAS) Mounts

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2012
Award May 2013

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Norotos
Wilcox

Ballistic Plate

5 year IDIQ contract with estimated \$350M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Nov 2011
Award Sep 2012

Point of Contact

PEO SW

Funding

Estimated \$350M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Ceradyne

Armor Vest

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Oct 2011
Award Jun 2012

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

BAE
Safari-Land
Eagle

Maritime Communications

5 year IDIQ contract with estimated \$50M ceiling. Annual procurements vary and are based on USSOCOM Component requirements



Acquisition Strategy

Full and Open Competition
IDIQ

Period of Performance

5 Years

Milestones

RFP Release Jul 2012
Award Feb 2013

Point of Contact

PEO SW

Funding

Estimated \$50M ceiling
Annual procurements based on
Component requirements

Current Contract/OEM

Television Equipment Associates

PEO SW Breakout Sessions

Wednesday, June 16, 1430-1515

Thursday, June 17, 1430-1515

Technology/Capability Areas of Interest

- Integrated Systems
- Signature Reduction
- Improved Situational Awareness
- Wireless Technology
- Virtual Training and Rehearsal
- Survivability



Questions?



SOF Warrior



~~Innovation and Technology for Special Operations~~ *Innovate or Die*

SOFIC 2010

Robert G. Spulak, Jr., Ph.D.
Manager, SOF Program Office

Associate Fellow
Joint Special Operations University, USSOCOM



Operational Innovation

Change

New:

- Technology
- Organization
- Op Concepts

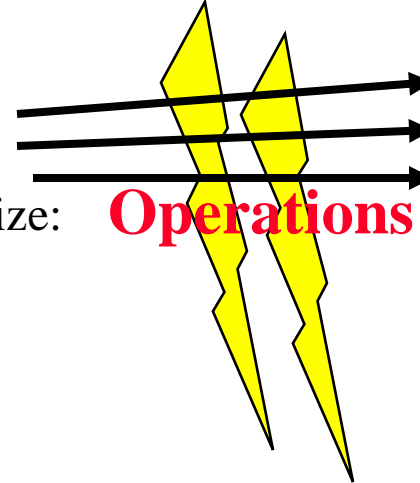


GPF

Institutionalize:

- TTPs
- Training
- Doctrine
- Discipline

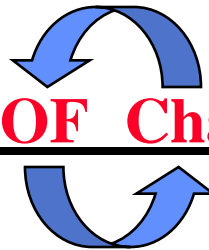
Friction/Risk



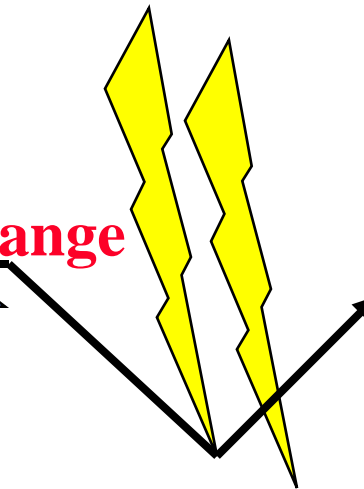
Objective

Operations

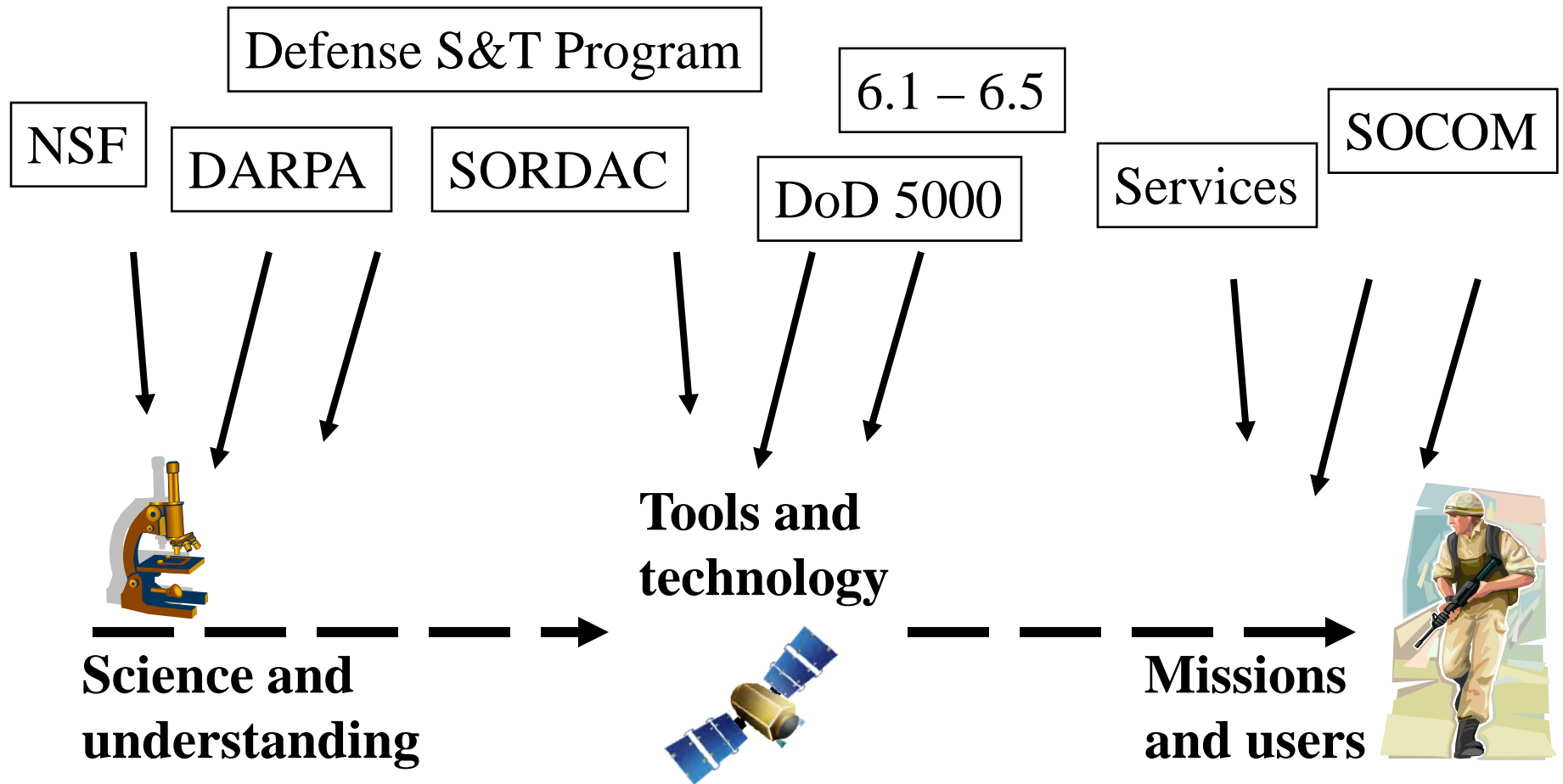
SOF Change



Objective



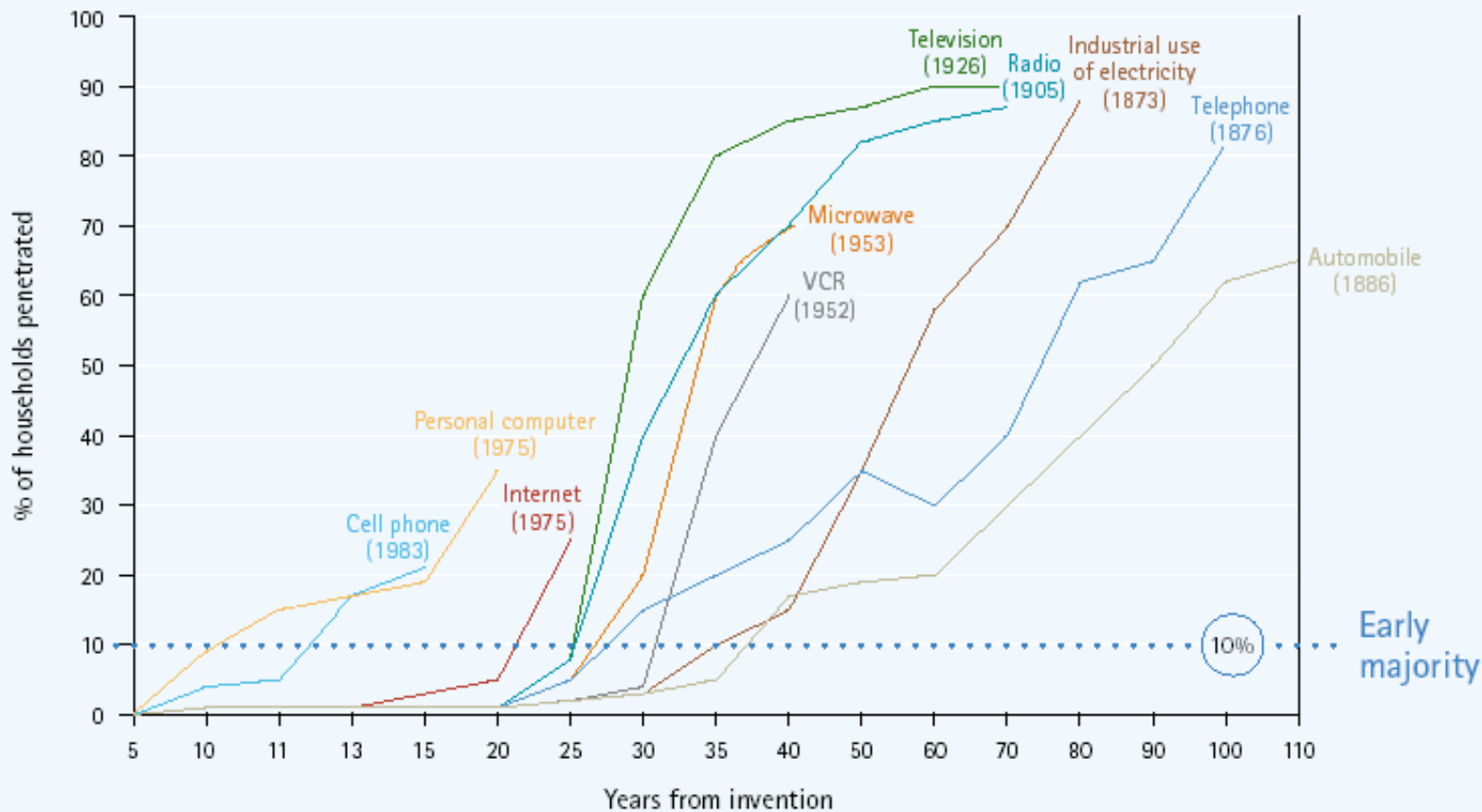
The Existing Paradigm: Top-Down Linear Innovation



Need for Early Adoption

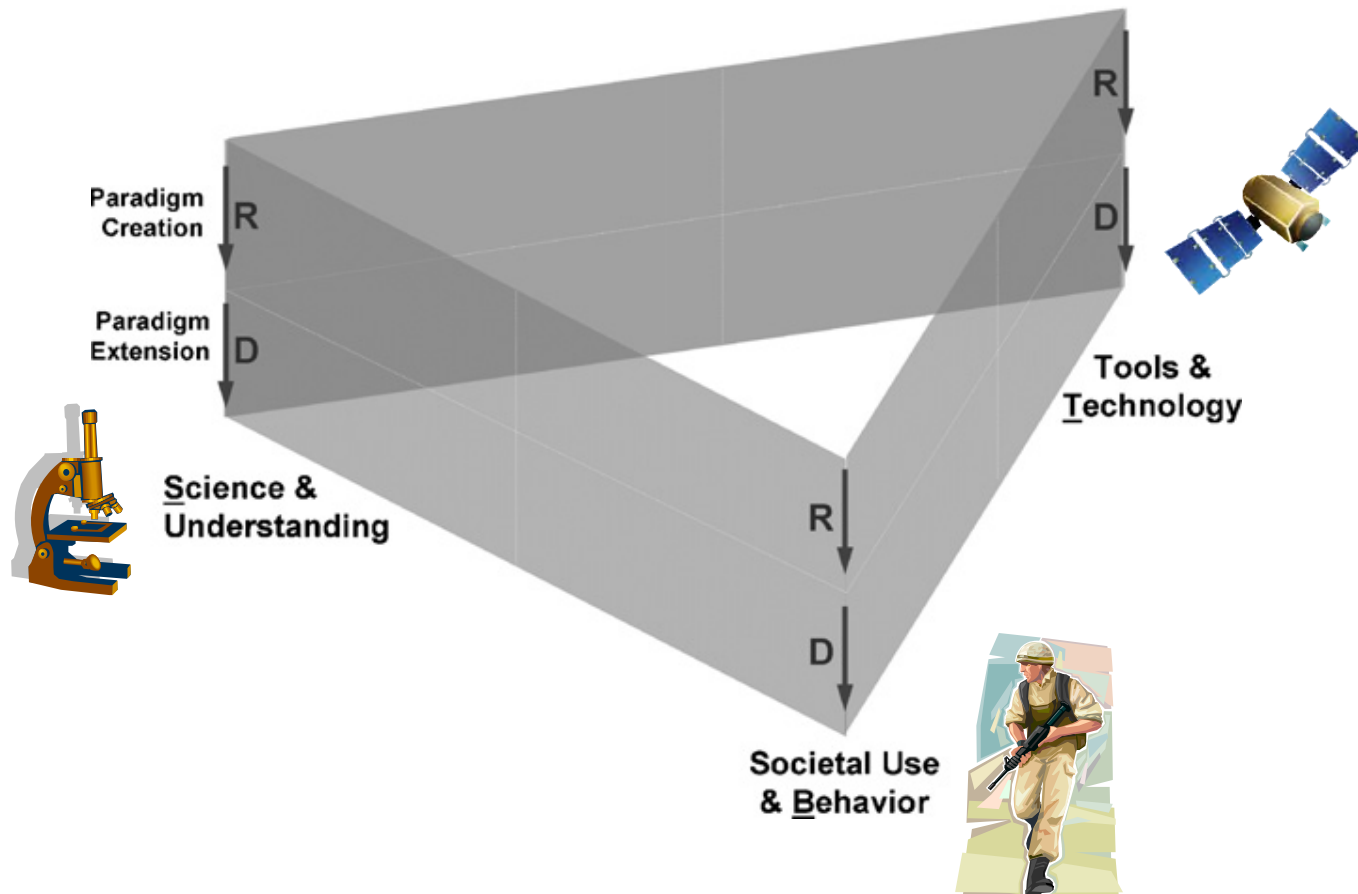
The S-curve of innovation

Most successful historic innovations show similar adoption curves. At about 10 percent, they seem to take off.




SOURCE: Frances Cairncross, *The Death of Distance*, Harvard Business School Press, Boston, 1997, 2001, p. 37.

A Realistic View of Innovation




J.Y. Tsao, K.W. Boyack, M.E. Coltrin, J.G. Turnley, and W.B. Gauster, "Galileo's stream: A framework for understanding knowledge production," *Research Policy*, 2008

Interactive Innovation

Enables 	<u>Science and Understanding</u>	<u>Tools and Technology</u>	<u>Missions and Users</u>
<u>Science and Understanding</u>	<i>Isolated science</i>	<i>Invention of the transistor due to solid state physics</i>	<i>Changes in counterinsurgency operations from cultural knowledge</i>
<u>Tools and Technology</u>	<i>Neuroscience because of the ability to measure electrical potentials (EEGs)</i>	<i>Isolated technology</i>	<i>Changes in operations because of digital technology</i>
<u>Missions and Users</u>	<i>Creation of the scientific method</i>	<i>Creation of SEMATECH by industry for semiconductor research</i>	<i>Isolated operations</i>



Interactive Innovation

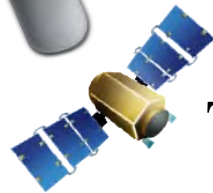
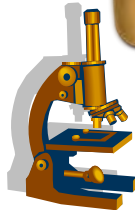
Inspires 	<u>Science and Understanding</u>	<u>Tools and Technology</u>	<u>Missions and Users</u>
<u>Science and Understanding</u>	<i>Isolated science</i>	<i>Advances in supercomputers to study complex scientific problems</i>	<i>Behavior guided by understanding: SOF Values, SOF selection</i>
<u>Tools and Technology</u>	<i>Combustion research to understand internal combustion engines</i>	<i>Isolated technology</i>	<i>New missions to address technology-related national security issues: counterproliferation</i>
<u>Missions and Users</u>	<i>JSOU Strategic Studies to understand SOF roles and missions</i>	<i>Advances in night vision to enhance operator effectiveness</i>	<i>Isolated operations</i>

Rapid Innovation Braid

Missions
and Users



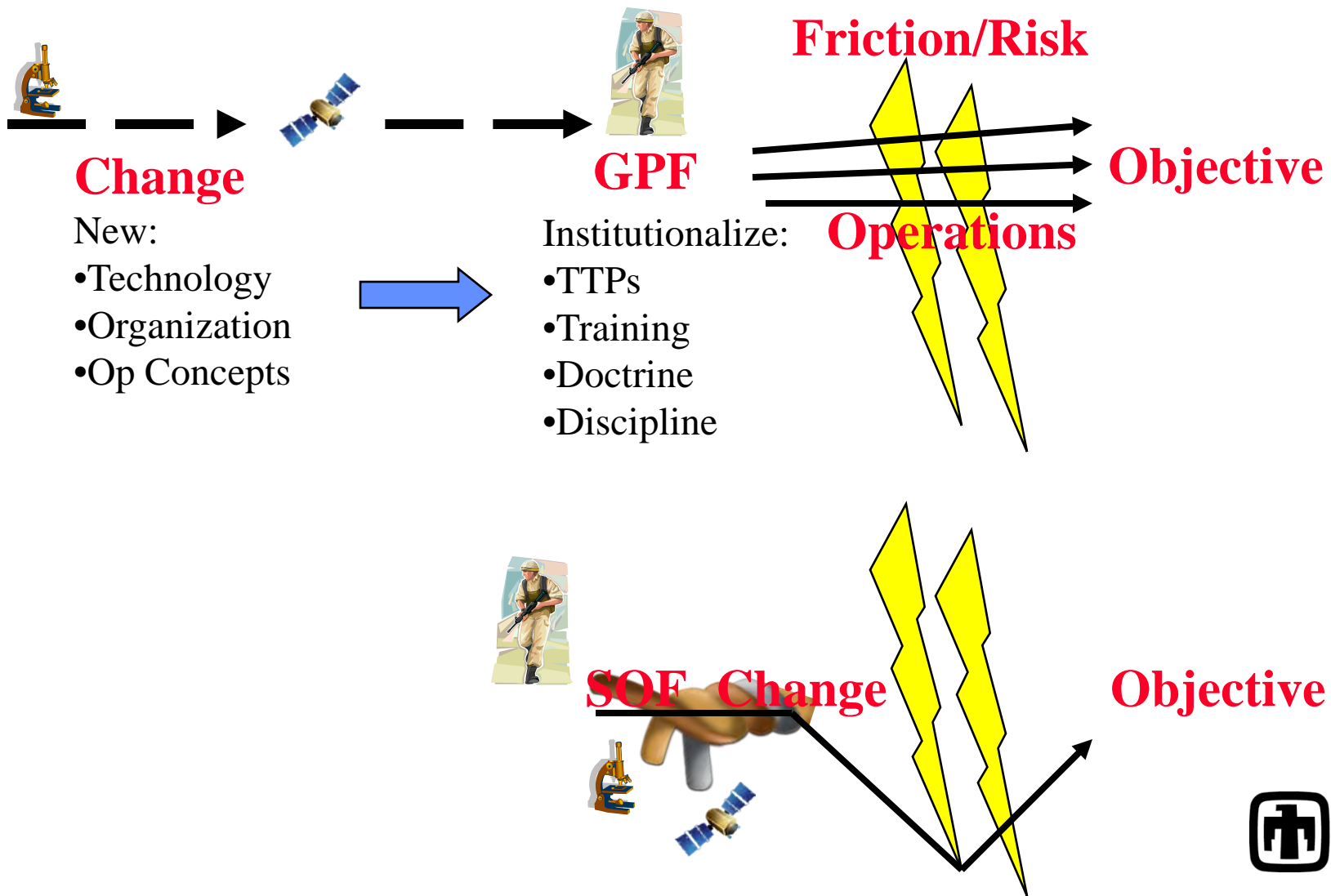
Science and
Understanding



Tools and
Technology



Innovation as Part of Operations



Special Operations Forces Industry Conference



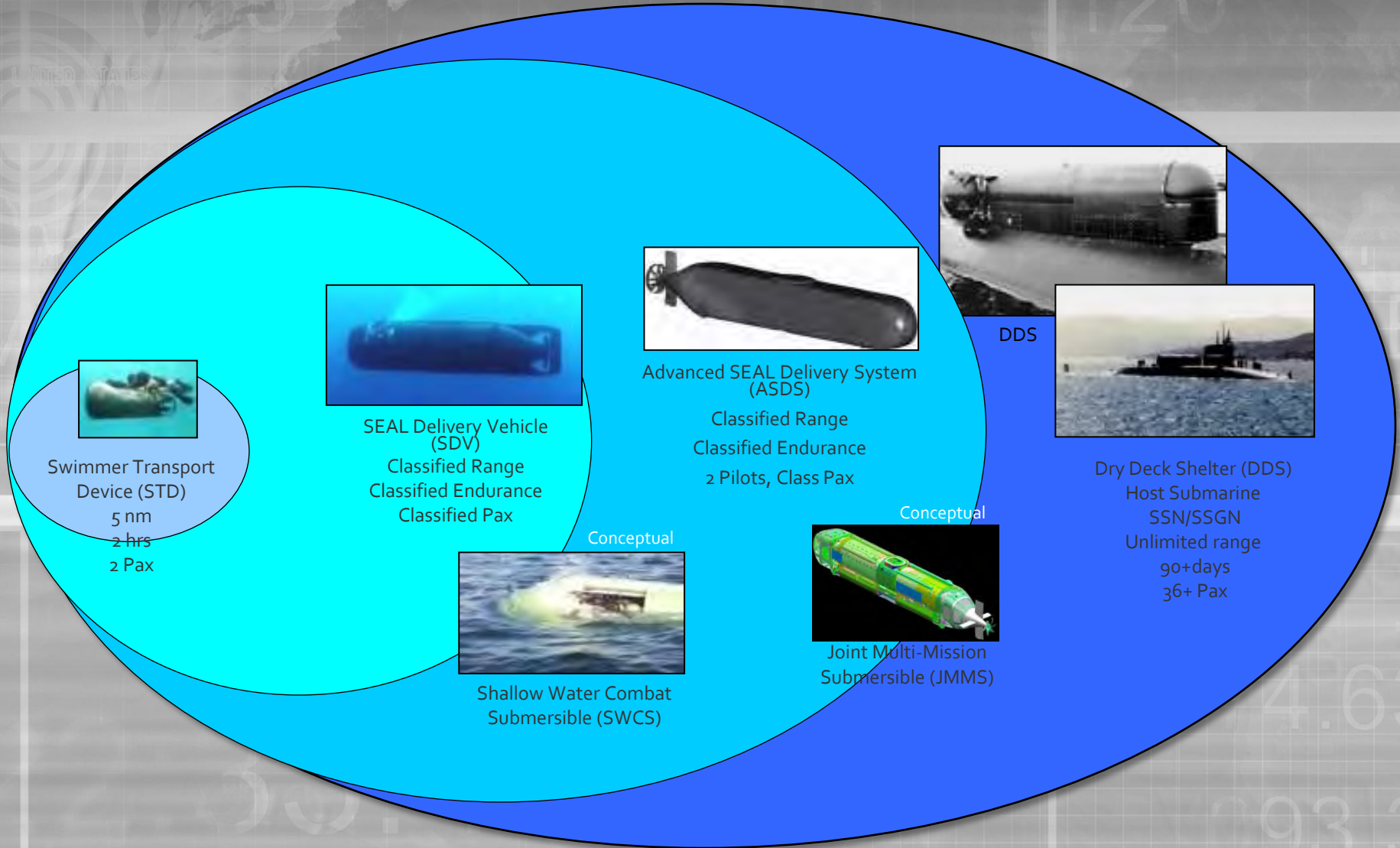
Steve Armstrong

Deputy Program Executive Officer-Maritime



Maritime Systems

Undersea Mobility Systems



SEAL Delivery Vehicle (SDV MK8)

Wet Submersible Capable of Clandestine Operations and Insertion/Extraction of 6 SEALs and Mission Equipment in a Hostile and/or Denied Environment



Technology Upgrades/Current Efforts:

- Improved Onboard Computer Systems
- Increase Sonar Capability
- Increased Battery Endurance
- Diver Thermal Protection

Maritime Systems



Dry Deck Shelter (DDS)

Certified Diving System That Attaches to Modified Host Submarines and Supports SDV, Combat Rubber Raiding Craft and Mass Diver Lock In/Out Operations While Submerged



Technology Upgrades/Current Efforts:

- 15 Year Service Life Extension Study
- Next-Generation DDS Study
- Improved Track and Cradle System
- Modifications to Support Shallow Water Combat Submersible (SWCS)
- SSGN Vertical Launch Joint Prototyping

Maritime Systems



Non-Gasoline Burning Outboard Engine (NBOE)

Non-Gasoline Burning Outboard Engine for SOF Combat Rubber Raiding Craft (CRRC) Operations. Capable of Being Launched from Submerged Submarines and Able to Burn a Variety of Diesel and Aviation Fuels



Technology Upgrades/Current Efforts:

- Block 1 – 55 HP Multi-Fuel Engine
- Block 2 – 30 HP Multi-Fuel Engine
- Block 3 – 30 HP, Light Weight, Submersible, Multi-Fuel Engine

Maritime Systems



Surface Mobility Systems



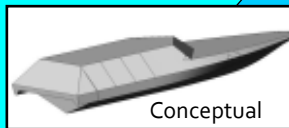
Combat Rubber Raiding
Craft (CRRC)
<60 nm
4-6 Pax



Special Operations Craft Riverine (SOCR)
195 nm
4 Crew, 8 Pax



Naval Special Warfare
Rigid Inflatable Boat
(NSW RIB)
200 nm
3 Crew, 8 Pax



Conceptual
Combatant Craft
Medium-Mk-1



MK V Special
Operations Craft (MK
V SOC)
600 nm
5 Crew, 16 Pax



- Amphibious Ships
- Maritime Support Vessel
- Joint High Speed Vessel
- Littoral Combat Ship
- 30+ Pax

MK V Special Operations Craft (MK V SOC)



Medium Range Insertion and Extraction of
SOF in Low to Medium Threat Environment.
Also Supports Limited Coastal Patrol and
Interdiction Missions

Technology Upgrades/Current Efforts:

- Shock Mitigation Technology
- Navigation Computer Upgrades
- Rover IV – Remote Operated Video
Enhanced Receiver Integration
- Integration of CCFLIR with ROSAM to
Enhance Fire Control

Maritime Systems



Naval Special Warfare Rigid Inflatable Boat (NSW RIB)



Short Range, Ship-to-Shore Insertion/
Extraction of SOF
Personnel in a Low to
Medium Threat
Environment

Technology Upgrades/Current Efforts:

- Integrations of Shock Mitigation Technology
- Integration of Improvements to Combatant Craft Forward Looking Infrared



Maritime Systems



Special Operations Craft Riverine



Short Range Insertion and
Extraction of SOF and Waterborne
Special Reconnaissance in a
Riverine and/or Littoral
Environment

Technology Upgrades/Current Efforts:

- Advanced Lightweight Armor Protection
- Integration of Improvements to Combatant Craft Forward Looking Infrared



Maritime Systems



Combatant Craft Forward Looking Infrared



Ruggedized, Marinized, Light Weight, Gyro Stabilized, Cryogenically Cooled, Color & Infrared Camera, Laser Range Finder & Pointer



Technology Upgrades/Current Efforts:

- Software Upgrades to Reduce Display Clutter/ Enable all Output Protocols/Improve Tracker Function
- Implementation of Joy Stick Control Unit (All NSW Craft)
- R&D Efforts: 360 Degree Situational Awareness/Larger Focal Plan Arrays/Multispectral Arrays
- Integration with ROSAM to Improve User Interface

Maritime Systems



Competitive Acquisitions

- **Joint Multi-Mission Submersible (JMMS)**
 - Replacement for Advanced SEAL Delivery System
- **Shallow Water Combat Submersible (SWCS)**
 - Replacement for SEAL Delivery Vehicle
- **Combatant Craft Medium (CCM MK 1)**
 - Replacement for Naval Special Warfare Rigid Inflatable Boat
- **Security Forces Assistance Craft (SFA)**



Maritime Systems



Joint Multi-Mission Submersible (JMMS)

- **Manned, Dry Combatant Submersible that Provides a Clandestine Mobility Platform for SOF**
- **Will Leverage Proven Design and Technologies from ASDS with New Technologies to Reduce Risk**
- **Competitive Acquisition Strategy for Pre-Design with Down Select to One Contractor**

Acquisition Strategy

- Full and Open Competition
- Requirement for up to 3 systems

Period of Performance

- FY-11-FY16
- Contract Award FY11

Milestones

- Milestone A in 4Qtr FY10
- Milestone B in 4Qtr FY11
- RFP Release Planned for 3rdQtr FY10

Point of Contact

- NAVSEA PMS-399, Washington Navy Yard, DC
- USSOCOM PEO-Maritime

Funding

TBD

Current Contract/OEM

In Competition

Shallow Water Combat Submersible (SWCS)

- Family of Manned Submersibles with an Evolutionary Acquisition Approach with Enhanced Capabilities to Conduct SOF Insertion and Extraction in Hostile and/or Denied Environments
- SWCS Block 1 is a Wet Combat Submersible that Will Replace the SEAL Delivery Vehicle Mk VIII Mod 1
- SWCS Block 2 is Planned to be a Dry Submersible

Acquisition Strategy

- Full and Open Competition

Period of Performance

- FY10 through FY16
- Contract Award in 4th Qtr FY10

Milestones

- Milestone B in 4th Qtr FY10
- Milestone C in 1st Qtr FY14
- RFP Released March 2010

Point of Contact

- NAVSEA PMS-NSW, Washington Navy Yard, DC
- USSOCOM PEO-Maritime

Funding

TBD

Current Contract/OEM

In Competition

Combatant Craft Medium (CCM MK 1)

- Multi-Role Surface Combatant Craft with the Primary Mission to Insert and Extract SOF in Medium Threat Environment
- Combatant Craft Medium (CCM) is a Family of Craft that Includes CCM MK1 and Security Force Assistance Craft of Various Types

Acquisition Strategy

- Full and Open Competition
- Requirement for 36 craft

Period of Performance

- FY10 through FY16

Milestones

TBD

Point of Contact

- USSOCOM SORDAC, Combatant Craft Medium Program Management Office

Funding

TBD

Current Contract/OEM

TBD

Security Forces Assistance Craft (CCS)

- SFA Craft will be Used in a Low and Permissive Threat Environment
- Used for Joint Training with Partner Nations
- Commercial-Off-The-Shelf Procurement

Acquisition Strategy

- Commercial-Off-the-Shelf (Non-Development Item)

Period of Performance

- FY10 through FY14

Milestones

Not Applicable – Commodity Procurement

Point of Contact

- USSOCOM, SORDAC, Program Manager Combatant Craft Program Management Office

Funding

- TBD

Current Contract/OEM

TBD

PEO M Breakout Sessions:

Wednesday, June 16, 0900-0945 • Thursday, June 17, 1300-1345

Technology/Capability Areas of Interest:

- Undersea Vehicle Energy Storage Systems
- High Speed Communications
- Advanced Surface Craft Power Systems
- Dynamic Ride Impact Mitigation
- Combat Swimmer Thermal Protection Systems
- Lightweight, Small Volume, CO₂ Removal Technology for Underwater Breathing Apparatus and Undersea Platforms
- Lightweight, Submersible, Multi-Fuel Outboard Engine
- Secure Wireless Intercom System
- Low-Cost Dry Submersible Hull, Mechanical & Electrical Technology



Maritime Systems

