#### United States Special Operations Command



## Science and Technology Capabilities to the SOF Operator

Ms. Lisa Sanders
Director, Science and
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(SORDAC-ST)



#### **Guidance / S&T Vision**

 Develop a coherent capability-based research and development effort focused on placing new capabilities in the hands of SOF operators

ADM McRaven – 2 Dec 11

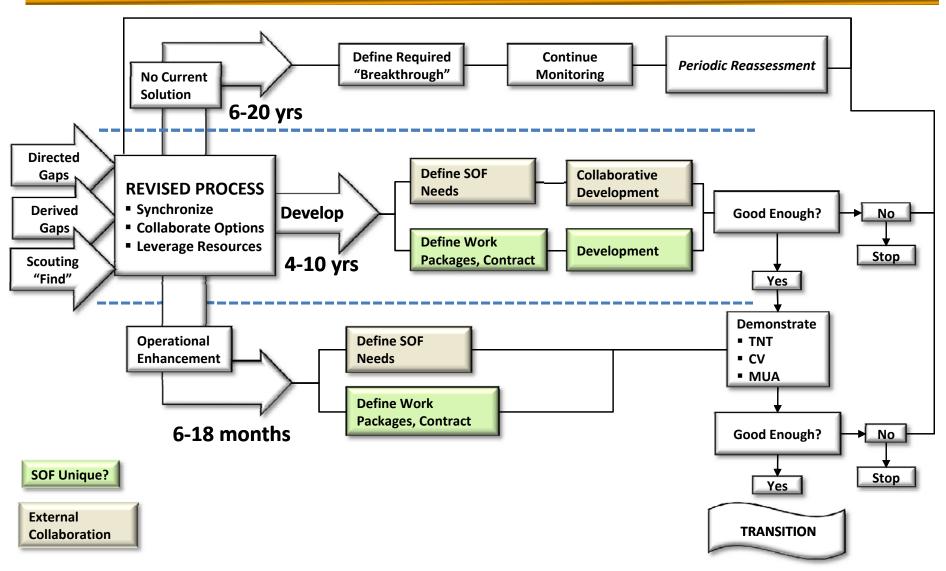
## "BE REVOLUTIONARY"

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



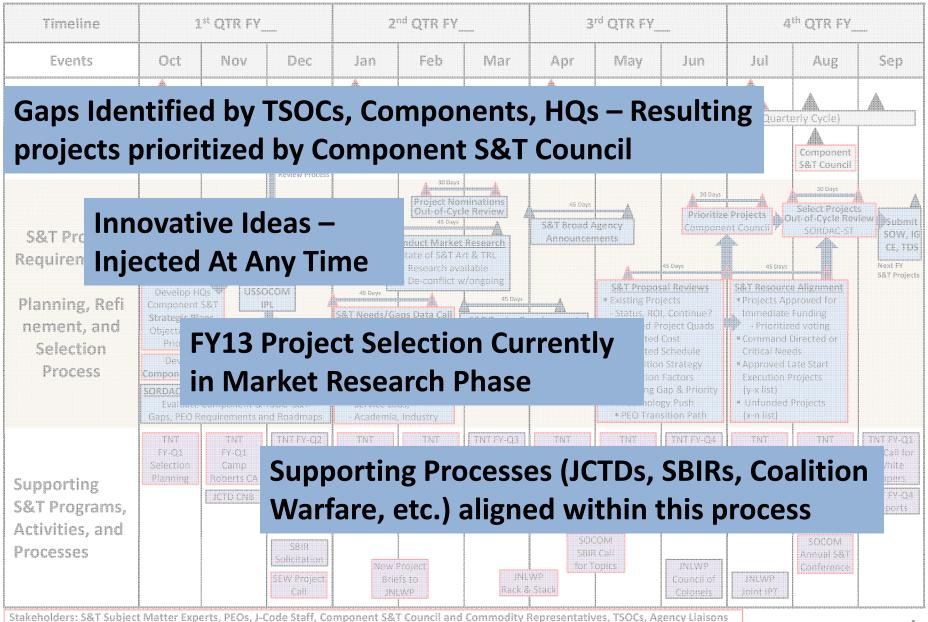
# USSOCOM S&T Collaborative Innovation Cell

DRAFT





#### **SOCOM S&T Process**



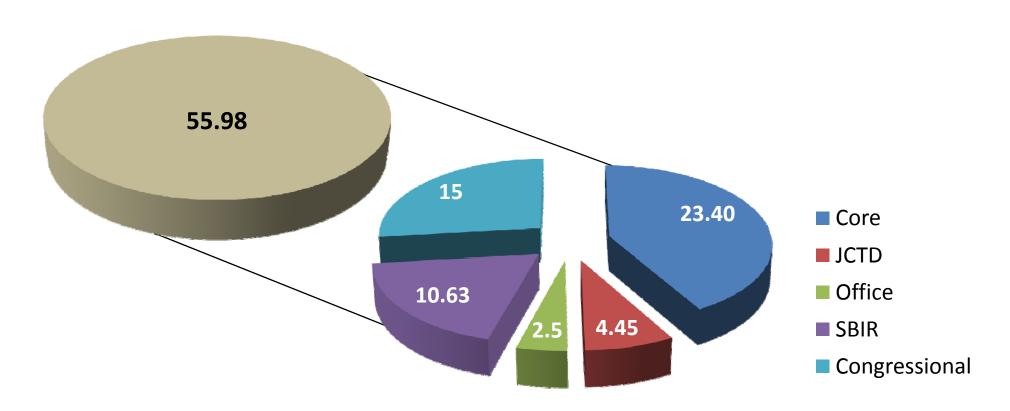


# USSOCOM S&T Integrated Priority List (STIPL)

- STIPLs focus on SOCOM S&T needs while complementing the SOCOM IPL
- FY14-18 S&T Priorities (Not in Order)
  - Comprehensive signature management
  - ➤ Battlespace awareness initiative
  - ➤ Electronic warfare
  - ➤ Precision engagement with near-zero collateral damage



## FY12 S&T Funding (\$M)



PB13 Position
CTTL not included



### **S&T Projects**



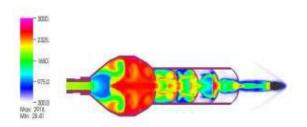
Safelock Defeat



Low Profile Vehicle Antennas



**Electronic Virtual ID Protect** 



Optimization of Small Arms Signature Suppression / Enhanced Signature Suppression (OSASSESS)



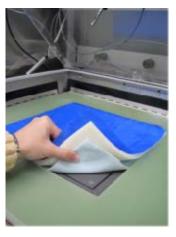
Mobile Distributed C4ISR Architecture (MDCA)



Short Wave Infrared (SWIR)
Initiative



### **S&T Projects (cont'd)**



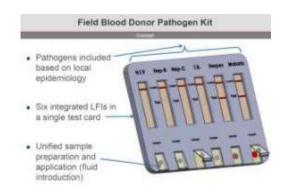
Novel Nanomaterials for Environmental Protection of SOF Divers



Remote Common Remotely Operated Weapon Station (CROWS) II



Improved Surveillance Detection for Low Visibility Operations



Field Blood Donor Pathogen Kit



Vehicle Attack



Tactical Network Testbed (TNT)
Experimentation Events



#### **Demonstration**

#### **TNT**

- 4 Events Annually
- Average Stats:
  - > 60 experiments
  - > 500 attendees
  - 20 gov't activities
  - > 40 companies
  - > 15 student projects



#### <u>JCTDs</u>

- Manage (7) JCTDs
  - > Technology Manager: Celestial Reach, JUPT
  - Operational Manager: PAWS, Sea Tracker, RSE, Maritime Predator
  - > Transition Manager: OP3D





- Accelerate technology discovery to further stimulate and energize the "think ahead, push forward" approach to supporting our deployed warriors.
- Encourage collaboration between Government, academia, and industry

