Special Operations Forces Industry Conference
Director Science & Technology Directorate

SCIENCE & TECHNOLOGY
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
Special Operations Advanced Technology Collaborative (SOATC)

Lines of Operation

Director

Deputy Director

ADMIN

ST Collaborative Process (Components, TSOCs, PEOs, J2, J3, J8, J7/9, OGAs, Industry, and Academia)

Explore the Future
- Team Lead (Scout)
  - Synchronize
  - Collaborate
  - Leverage

Project Execution
- Develop
  - Team Lead (Enabler)
  - Team Lead (Transition)
  - Team Lead International
  - S&T Projects
  - S&T Funding
  - Transition Roadmaps

Demonstration
- Assess/Demonstrate
- Team Lead (Exp/JCTD)
  - TNT
  - JCTDs

DRAFT
Special Operations Advanced Technology Collaborative (SOATC)

- New, collaborative engagement technology development process
  - Aligns SOF capability gaps with technology enablers and developers
  - Focuses ongoing efforts across the S&T enterprise
  - Identifies required innovation

*Increased cross-cutting development to efficiently deliver responsive technology into the hands of SOF Warfighters*
SCIENCE & TECHNOLOGY

Collaborative Innovation Cell

Directed Gaps
- Define Required “Breakthrough”
- Continue Monitoring
- Periodic Reassessment

Operational Enhancement
- Define SOF Needs
- Collaborative Development
- Define Work Packages, Contract
- Development
- Good Enough?
  - Yes
  - No
    - Stop
    - Demonstrate
      - TNT
      - CV
      - MUA
      - Good Enough?
        - No
        - Stop
        - TRANSITION

External Collaboration
- Scouting “find”
- SOF Unique?
- No Current Solution
  - 6-20 yrs
  - REVISED PROCESS
    - Synchronize
    - Collaborate Options
    - Leverage Resources

Define SOF Needs
- Define Work Packages, Contract
- 4-10 yrs
- Good Enough?
  - Yes
  - Stop
  - No

- 6-18 months

No
Applied Research (BA2) and Advanced Technology Development (BA3)

- **BA2**
  - TRL 3-5
  - Studies, early lab hardware, software development models

- **BA3**
  - TRL 5-7
  - Prototypes, demonstrations

**Acquisition Strategy**
- Various (competition, IDIQ, CRADA, etc.)
- Leverage External Acquisition (Services, Labs, OGA)

**Period of Performance**
- Project dependent: SORDAC-ST is putting increased interest on ‘revolutionary’ technology development efforts

**Funding**
- FY12: $39.646M
- FY13: $30.163M

**Milestones**
- Project dependent

**Current Contract/OEM**
- Various

**Point of Contact**
- SORDAC-ST
  - 813-826-9489
S&T Integrated Priority List (STIPL)

- STIPLs focus on SOCOM S&T needs while complementing the Command IPL
- FY14-18 S&T priorities (not in order)
  - Comprehensive signature management
  - Battlespace awareness initiative
  - Electronic warfare
  - Precision engagement with near-zero collateral damage
S&T Projects

- Safelock Defeat
- Short Wave Infrared (SWIR) Initiative
- Electronic Virtual ID Protect
- Mobile Distributed C4ISR Architecture (MDCA)
- Optimization of Small Arms Signature Suppression / Enhanced Signature Suppression (OSASSESS)
- Low Profile Vehicle Antennas
S&T Projects

Vehicle Attack

Remote Common Remotely Operated Weapon Station (CROWS) II

Improved Surveillance Detection for Low Visibility Operations

Novel Nanomaterials for Environmental Protection of SOF Divers

Tactical Network Testbed (TNT) Experimentation Events

Field Blood Donor Pathogen Kit
Questions?