SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Ms. Lisa Sanders

Director

SCIENCE AND TECHNOLOGY

AGENDA

- S&T Strategic Vision
- TDWG Process
- S&T RDT&E / TRLs
- BAAs / RFIs
- CRADAs
- S&T Needs
- S&T Programs / Funding





Provide Revolutionary Game Changing Technology to Reduce/Remove SOF Capability Gaps



UNCLASSIFIED

ACHIEVING THE VISION

Paths/Processes



Understand the Gap

- Priority
- User/Customer
- Mission Area



We can't do X that is:

- Mission Critical
- Mission Enhancing
- Game Changing

We're Doing Y as a Work Around (Not Value Added)

- Substantial Mission Impact
- Substantial Resource Management

2 Tech Exploration

- ID Existing Research
- Determine Applicability
- Evaluate Constraint

- \$\$

X

- Technology
- Time
- Authority

Products

OUTPACE THE ENEMY

OODA Loop'

Art of the Possible



Strategy DevelopmentID Potential Partners

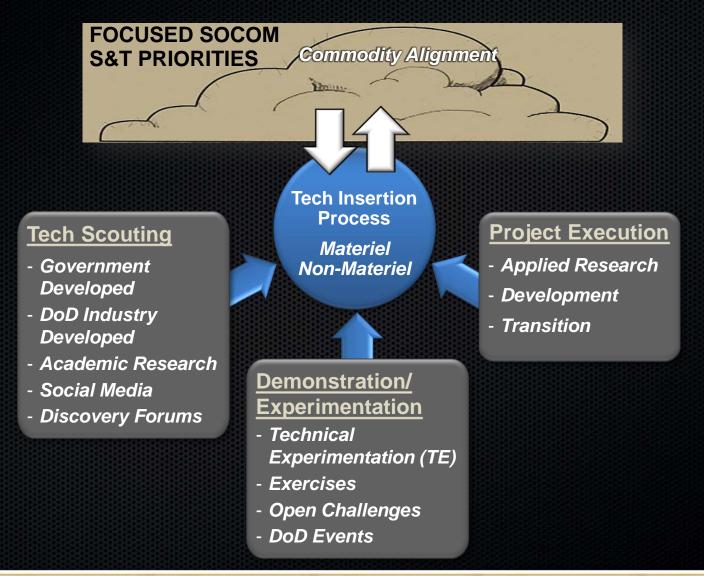
- Tech Providers
- Co-Users
- Resources (\$\$/People)
- Transition Path
- Balance
 - Risk (Tech, \$\$, Time)
 - Reward (Value to SOF)
 - Impact (Breadth)

Products

Categorized Solution Set Aligned to Component & TSOC Gaps

- High Priority/SOF Unique
- Co-Develop/Planned
 Improvement
- High Priority/Externally
 Funded
- Co-Develop Revolutionary

S&T – MOVING FORWARD



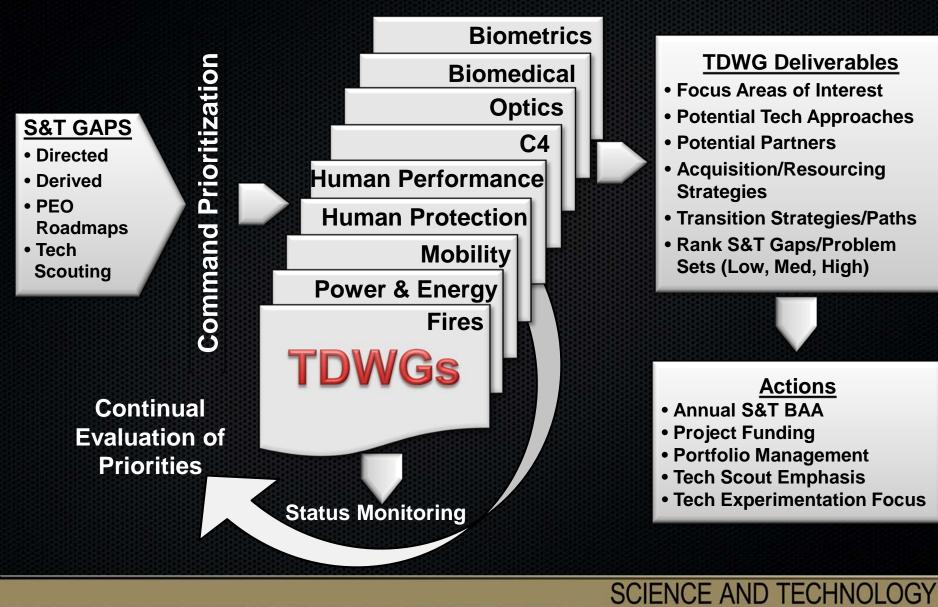
A Balanced Approach to Address SOF Needs Now and in the Future

UNCLASSIFIED

TECHNOLOGY DEVELOPMENT WORKING GROUPS (TDWGs) TASK/PURPOSE

 Provide collaborative venue for stakeholders to express Science & Technology (S&T) priorities, monitor S&T project progress, and to distribute knowledge and outcomes

BEHAVIOR & EXECUTION



ST Budget Activity 2 (BA 2) Applied Research	ST Budget Activity 3 (BA 3) Advanced Technology Development	
Studies, investigations, and non-system specific technology efforts Systematic study to understand the means to meet a recognized and specific need short of system development Breadboard laboratory prototypes	Development of subsystems and components and efforts to integrate them into system prototypes Proof of technological feasibility and assessment of subsystem and component operability and producibility Field experimentation and/or tests in a simulated environment	POST MILESTONE B: ACQUISITION PROGRAMS OF RECORD
Metric/measure used to as	CHNOLOGY READINESS LEVEL (sess the relative maturity of evolvi ior to incorporating that technolog	ing technologies (materials,
TRL 3-5	TRL 5-7	TRL 7+

BROAD AGENCY ANNOUNCEMENTS/RFIs

- S&T, TALOS BAAs are focused on targeted capability gaps
- TE, TALOS, and Collaborative Planning Sessions RFIs
- Participate in OSD Rapid Innovation Fund (RIF) BAA
- USSOCOM/USAMRAA Biomedical Research and Development BAA



COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS (CRADAs)

• What...

- Provide a mechanism for technology transfer
- A legal document. No money can be exchanged.

• Why we use them...

- Provide resources in support of non-federal entity RDT&E efforts
- Allow non-federal entity to expend IR&D to support cooperative development
- Save time and money
- Increase communications and focus technology development

SOCOM S&T CRADAs...

- SORDAC-ST-14-01-XX Collaborator (Blanket document multiple agreements) "Development of Special Operations Peculiar Technologies to Bridge USSOCOM Capability Gaps"
- SORDAC-ST-13-02 Northrop Grumman Systems Corporation "Development of Special Operations Peculiar Technologies to Bridge United States Special Operations Command (USSOCOM) Capability Gaps"
- SORDAC-ST-13-01 W. L. Gore & Associates, Inc. "Development of Multispectral Camouflage for Special Operations Forces Applications"
- SORDAC-ST-12-01 Battelle Memorial Institute "S&T Cooperative R&D"

SOF S&T NEEDS



Comprehensive Signature Management (CSM)* Human Performance* First Pass Accuracy and Lethality Small Unit Dominance (SOFSUD)* Intelligence, Surveillance, & Reconnaissance (ISR) Tagging, Tracking, & Locating (TTL) **C4** Revolutionary Capabilities **Electro-optics, IR & Lasers Military Information Support Operations (MISO)** Scalable Effects Weapons (SEW) Anti-Access/Area Denial (A2/AD)* **Battlespace Awareness*** Leap Ahead Energy & Power Systems Sensitive Site Exploitation (SSE) * FY15-19 Science and Technology Integrated **Priority List (STIPL)**

APPLIED RESEARCH (BA2) & ADVANCED TECHNOLOGY DEVELOPMENT (BA3)

- BA2 Studies, Early Laboratory Hardware, Software Development Models, Concept Exploration: Technology Readiness Level (TRL) 3-5
- BA3 Prototypes, Demonstrations, Operational Leap Ahead Capability: TRL 5-7

ACQUISITION STRATEGY	PERIOD OF PERFORMANCE	MILESTONES
 Various (Competition, IDIQ, CRADA, etc.) Leverage External Acquisition (Services, Laboratories, OGAs) 	 Project Dependent S&T is emphasizing Technology Discovery and longer term technology development efforts 	Project Dependent
POINT OF CONTACT	FUNDING	CURRENT CONTRACT/OEM
• 813.826.9482 (TILO)	 FY14 BA2/3: \$14.142M / \$14.414M FY15 BA2/3: \$24.854M / \$25.663M Note: 15PB, TTL not included 	• Various

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

QUESTIONS?

S&T CAPABILITIES TO THE SOF OPERATOR

