

EXPANDING THE COMPETITIVE SPACE

SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

Ms. Lisa Sanders, Director, Science & Technology

SCIENCE & TECHNOLOGY ENGAGEMENTS & OPPORTUNITIES



SOF AT&L-ST Vision

Innovate for Future Threats

Relentlessly Discover, Develop, Adapt and Employ Next Generation Technologies that Provide SOF an Overwhelming Competitive Advantage

Modernization of SOF – Prepare Today to Win Tomorrow

Science & Technology Budget

Applied Research (BA2) & Advanced Technology Development (BA3)

- BA2: Studies, Early Laboratory Hardware, Software Development Models, Concept Exploration. Technology Readiness Level (TRL) 3-5
- **BA3**: Operational Prototypes, Advanced Technology Demonstrations, Technical Experimentation, Technology Insertions. TRL 5-7

ACQUISITION STRATEGY

- Various (Competition, IDIQ, CRADA, Prize Challenges, etc.)
- External Leveraging (OGAs, Services, Laboratories)

POINT OF CONTACT

 USSOCOM SOF AT&L, Engage SOF (eSOF) (813) 826-9482

PERIOD OF PERFORMANCE

- Project Dependent
- Emphasizing Tech Discovery, PEO TIRs needs, and game-changing technology development

Project Dependent

FUNDING

- FY20 BA2/BA3: \$37.6M/\$94.8M = \$132.4M
- FY21 BA2/BA3: \$42.5M/\$89.1M = \$131.6M

CURRENT CONTRACT/OEM

MILESTONES

Various

Innovation in USSOCOM

INCREMENTAL

New, improved, refined products or services closely tied to current capabilities

What Matters: Speed

Center of Gravity:
Program Executive Offices

0 - 2 Years



TRANSFORMATIONAL

Creation of entirely new capabilities

What Matters: Vision

Center of Gravity: Science and Technology

2 - 7 Years



ADJACENT

Expansion to an "adjacent" non-traditional technology / processes area

What Matters: Discovery

Center of Gravity: SOFWERX

0 - 7 Years



S&T Major Drivers/Activities

- S&T Aligned with Strategy
- Connected to Users
- Integrated with Acquisition
- Cohesive Response for all SOCOM Efforts





SOF Priority Considerations

COMMANDER FOCUSED

NDS

CG VISION

CPG

DECISION CRITERIA

SOF-Peculiar?
Technical Maturity
Development Timeline/Cost
Niche vs. General Capability
Future Considerations

DECISION CRITERIA

TECH INSERTION

S&T COUNCIL

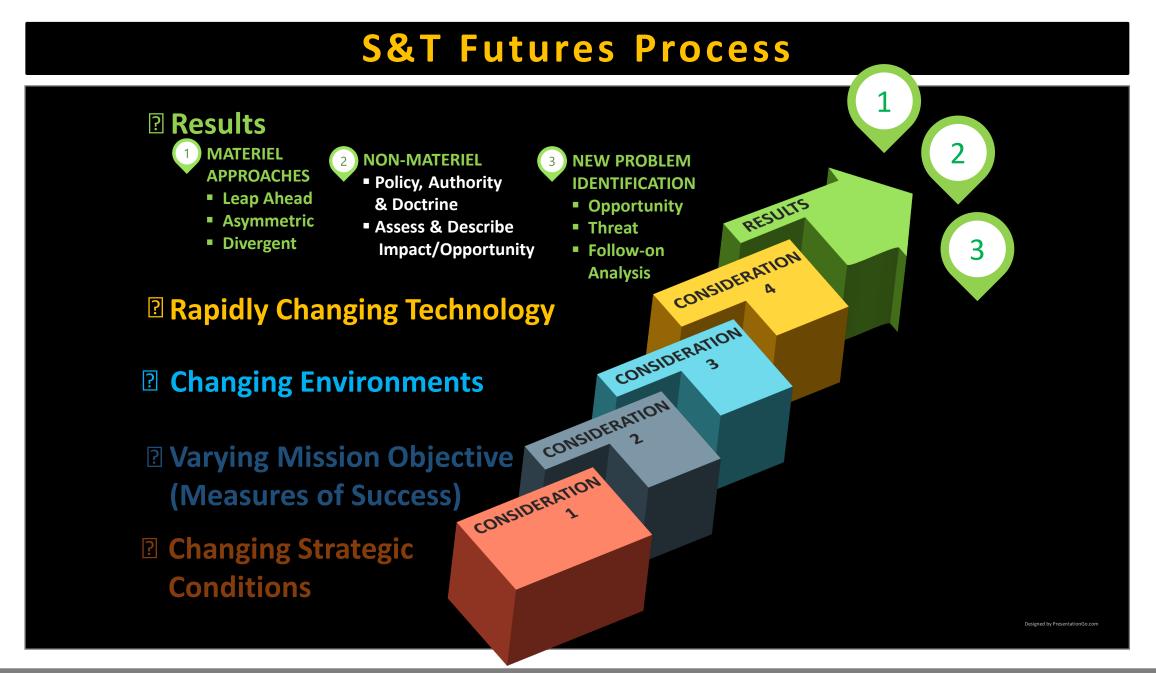
SOCOM IPL CALLS

OPERATOR DRIVEN

S&T FOCUS Areas

for MFP-11 6.2/6.3

- Biotechnologies/Human Interface
- Network & Data Management
- Next Gen Effects/Precision Strike
- Next Gen ISR/Tactically Relevant SA
- Hyper-Enabled Operator
- Next Gen Mobility



Innovation Foundry (IF) and other Futures Events

• IF5's Virtual Rapid Capability Assessment (vRCA), 27 APR – 01 MAY 2020

Exploration and decomposition of concepts brainstormed during IF5 and

associated topics as they relate to discerning future capability areas for tech exploration for SOF in their conduct of Unconventional Warfare (UW)

- **IF6:** 3Q 2020. Location TBD.
- Diverse Participants
 - Academia/Industry/Users/SMEs
- Linkage
 - Project Development, Experiment Themes,
 Future CONOPs development,
 S&T IPL (STIPL) Development



Design Thinking Activity Linked to SOCOM Enterprise Needs

S&T POCs

Capability Focus Areas (CFAs):

Next Generation Intelligence, Surveillance, and Reconnaissance (ISR)/Tactically Relevant Situational Awareness:

Focuses on ISR and Tactical Situational Awareness at the "Edge."

Contact: Lead-Dr. Conrad Lovell, conrad.lovell.civ@socom.mil

Network and Data Management:

Focuses on Cyber, Artificial Intelligence (AI)/Machine Learning (ML), and Big Data Analytics.

Contacts: Peter Depa, peter.depa@socom.mil; Barton Graham, barton.graham@socom.mil

Biotechnologies/Human Interface: Focuses on Combat Casualty Care, Real-Time Medical Monitoring, and Maintaining Optimal SOF Operator Performance.

Contact: Lead-Douglas Simpson, douglas.simpson@socom.mil

Next Generation Effects/Precision Strike: Focuses on Problems Related to Weapons for SOF Use, Ammunition, Precision Munitions, and Devices for Scalable Effects.

Contact: Lead-Jack Plessinger, jack.plessinger@socom.mil

Cross Cutting CFAs:

Joint Acquisition Task Force (JATF) Hyper-Enabled Operator (HEO): Focuses on HEO in the cognitive domain by increasing SA, reducing cognitive load, and accelerating decision making at the edge.

Contacts: Lead-COL Ryan Barns, ryan.barns@socom.mil; James McKinlay, james.mckinlay@socom.mil

Next Generation Mobility: Focuses on developing capabilities for SOF operators/mobility platforms to remain undetected in any way.

Contact: Lead-James Griffin, james.griffin@socom.mil

S&T Broad Agency Announcement (BAA)

- S&T's BAA posted in April and will close on 21 May
- S&T BAA Areas of Interest:
 - Biotechnologies/Human Interface
 - Hyper Enabled Operator
 - Network & Data Management
 - Next Generation Effects/Precision Strike
 - Next Generation ISR/Tactically Relevant
 Situational Awareness
 - Next Generation Mobility



USSOCOM Link: https://www.socom.mil/SOF-ATL/Pages/baa.aspx

FY20 S&T Virtual Symposium

- Overview
- Capability Focus Areas:
 - Biotechnologies/Human Interface
 - Hyper Enabled Operator
 - Network & Data Management
 - Next Generation Effects/Precision Strike
 - Next Generation ISR/Tactically Relevant
 Situational Awareness
 - Next Generation Mobility



SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS Win • Transform • People

SOF AT&L-ST Virtual Symposium

UNCLASSIFIED .

STRIBUTION A: APPROVED FOR PUBLIC RELEASE

Our most recent Virtual Symposium reflects our FY20 investment requirements and was posted in late April. Users must register in order to be able to view the audio/video.

Register at: https://www.socom.mil/SOF-ATL/Pages/Virt-Symp.aspx

Technical Experimentation (TE)

- TE 20-3, 13-17 July 2020 at RELLIS Campus of Texas A&M University, College Station, TX
 - Experimentation Focus: Network and Data Management,
 Unmanned Aerial Systems
- TE 21-1, 16-20 November 2020 at Key West, FL
 - Experimentation Focus: Combat Diver, Counter Diver, Biotechnologies/
 Human Interface
- TE 21-2, 22-26 March 2021 at Muskatatuck, IN
 - Experimentation Focus: Next Generation ISR/Tactically Relevant SA,
 Biotechnologies/Human Interface, SOF Lethality
- TE 21-3, 12-16 July 2021 at Little Creek, VA
 - Experimentation Focus: Combatant Craft
- Public Link: https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx
- Linked in Group: SOCOM Technical Experimentation







USSOCOM CRADAs

CRADA is between USSOCOM and US Parties

Overarching CRADA

- Formulated to provide general access to USSOCOM gaps/needs to foster
 collaboration must be consistent with missions of organization
- Allows for the formulation and execution of Individual Work Plans (IWP)
 between the Collaborator PEO/Directorate within SOF AT&L
- Collaborator may request meetings with appropriate personnel to discuss
 IWP development through the SOF AT&L Technical POC
- Revised April 2020, SOF AT&L Director of S&T signed company coordination and acceptance – generally 30 days

Specific (Traditional) CRADA

- Formulated to provide a collaboration on a specific technology
- Follows USSOCOM Directive 70-1
- Standard Template, unique terms and conditions
- Specifically between collaborator and single PEO/Directorate
- Writing and staffing is generally 90 to 120 days





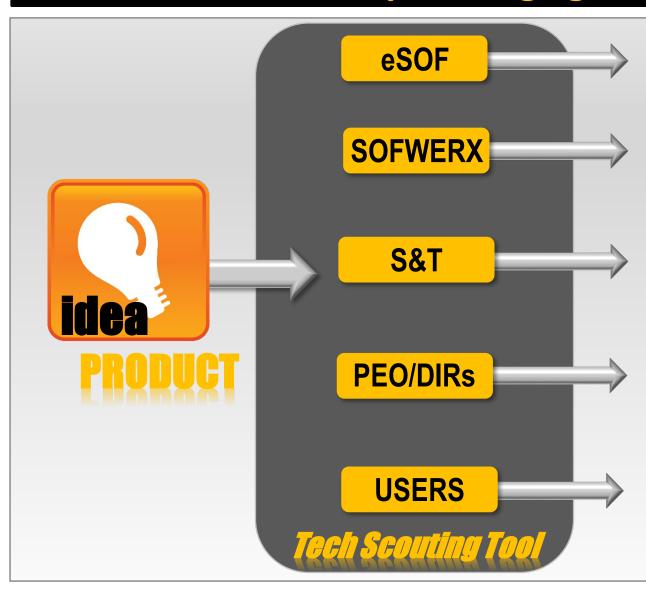
S&T Engagement Tools

S&T ACTIVITY	OPPORTUNITY	ENGAGEMENT
SOF Futures Innovation Foundry Events POC: Mr. Brian Sisco 813-826-2249, brian.sisco@socom.mil	 S&T has developed an S&T Futures Process S&T conducts "Innovation Foundry" events to enable SOF's ability to accomplish their missions 10-15 years in the future 	 S&T plans to conduct 2-3 SOF Futures Innovation Foundry Events per Fiscal Year Innovation Foundry events will provide opportunities for attending and injecting disruptive technology solutions for SOF
Small Business Innovation Research (SBIR)/ Small Business Technology Transfer (STTR) POC: Mr. Mina Khalil 813-826-7003, mina.khalil@socom.mil	 S&T manages SOCOM's SBIR/STTR programs Stimulates innovation for small businesses 3 Phases, Phase I is a Study (\$150K), Phase II Prototype (\$1.5M), Phase III Commercialization 	 https://www.socom.mil/SOF-ATL/Pages/sbir.aspx USSOCOM participates in three SBIR/STTR Topics Call per year (April, August, and December timeframes)
Technical Experimentation (TE) Events POC: Mr. Dan Bernard 813-826-9917, dan.bernard@socom.mil	 Conducts 3-4 US-based events every fiscal year each with different theme(s) Industry opportunity to engage and demonstrate technology/concepts and get direct feedback from SOF Operators/Acquisition Professionals 	 Normally 1 TE Event/QTR, TE Request for Information (RFI) posted on <u>Beta.SAM.gov</u> for each TE Event Go to <u>https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx</u>
Cooperative Research & Development Agreements (CRADA) POC: Mr. Benjamin Chitty 813-826-5162, discovery@socom.mil	 SOCOM employs Overarching and Specific (Traditional) CRADAs Legal agreement to provide general and specific access to USSOCOM needs 	 Allows for the formulation and execution of Individual Work Plans (IWP) between the Collaborator – PEO/Directorate within SOF AT&L
Broad Agency Announcements (BAA) POC: Mr. Peter Greany 813-826-7423, peter.greany@socom.mil	 SOCOM S&T Directorate/PEOs develop and post BAAs to SAM.gov that provide Areas of Interest (AOI) to Industry and other External Organizations. 	 S&T has posted a 5 year BAA that will be periodically updated with Areas of Interest (AOI) Biomedical BAA currently posted through US Army
Tech Scouting Tool POC: Mr. Barton Graham 813-826-6903, barton.graham@socom.mil	 Web-based platform that enables anyone to quickly describe technology and upload supporting documentation to a secure, shared, searchable, central database 	 Tech Scouting Tool supports evaluation/ assessment/scoring of submitted technologies, and sharing of results Contact POC for instructions to register
Engage SOF (eSOF) POC: Mrs. Shelvin Watts 813-826-1269, eSOF@socom.mil	 Conduit for the SOF AT&L Enterprise Matches your company's product/service/capability to the appropriate personnel within the command and schedules discussions or demos 	Go to https://www.socom.mil/SOF-ATL/Pages/submit-your-idea.aspx for information and link to USSOCOM Areas of Interest and for the eSOF Submitting Your Idea Form





Multiple Engagement Paths



- Exposure
- Interest level/feedback
- Path to follow-on engagement
- Capability Collaboration
- Rapid Prototyping
- Prize Challenges
- New markets for existing products
- Exposure/Feedback
- Cooperative R&D Agreements
- Experimentation Opportunities
- Other Transaction Authorities
- SBIR/Broad Agency Announcements
- Commercial Solutions Opening
- Cooperative R&D Agreements
- Mid-Tier Acquisition
- Upcoming Opportunities
- Contracts
- SOF to Service Transitions
- Use cases/needs
- Operator feedback
- Priorities

