

GLOBAL SOF: *THE ASYMMETRIC STRATEGIC OPTION FOR A VOLATILE WORLD*

Ms. Lisa Sanders

DIRECTOR, SCIENCE & TECHNOLOGY

OVERVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



SOF AT&L-ST VISION**Innovate for Future Threats**

**Relentlessly Discover, Develop, Adapt
Special Operations-Peculiar Advances in
Technologies that Create Asymmetric
Advantages for SOF Integrated Deterrence
Across the Full Spectrum of Conflict**

Modernization of SOF – Prepare Today to Win Tomorrow



Science & Technology

SOF AT&L-ST FY25 Budget (\$147M)*



* Does not include HSVTOL/RDER/J7/Taxes

VISION – “Relentlessly Discover, Develop, and Adapt Special Operations-Peculiar Advances in Technologies that Create Asymmetric Advantages for SOF Across the Full Spectrum of Conflict”

IMPACT – “Executing 1% of USSOCOM’s Overall Budget, Rapidly Advancing Technologies for Transition to Programs, Enhanced by Service, Commercial, and Government Agency Partnerships”

Priority Investments

APPLIED RESEARCH (~\$48M)

- Warfighter Performance (\$21M)
- Tech Discovery (\$14M)
- Scalable Precision Effects (\$5M)
- Emplacement and Access (\$5M)

TECHNOLOGY DEVELOPMENT (~\$99M)

- Battlespace Awareness (\$30M)
- Emplacement and Access (\$20M)
- Multi-Domain Comms & Compute (\$17M)
- Integration/Transition (\$16M)
- Scalable Precision Effects (\$6M)

Engagement

TECHNICAL EXPERIMENTATION (Test & Demonstration)

- 3 Events per year
- FOUNDRY/RAPID PROTOTYPING (Exploring Hard Problems)
- 1-2 Cycles per year

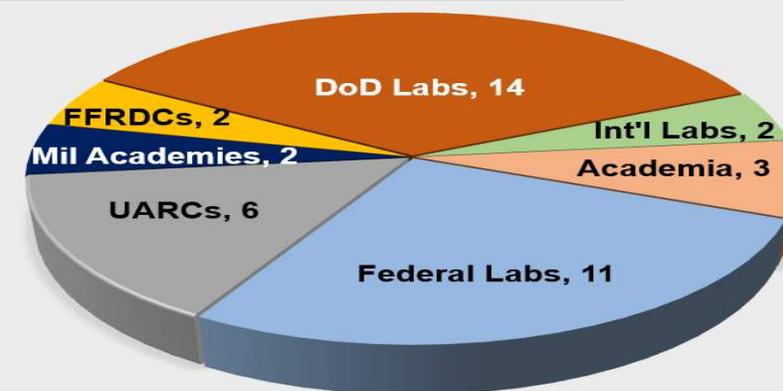
S&T ENTERPRISE PORTFOLIO REVIEW (STEPR)

- 2 Briefings per year

Transition Partners

- USSOCOM Program Executive Offices
- USSOCOM Surgeon / Preservation of the Force and Family (POTFF)
- Defense Health Agency (DHA)
- Service Programs of Record
- Other Government Agencies
- Commercial Entities

Tech Development Partnerships



Project Sources

GUIDANCE

- Strategic Programming Guidance (SPG)
- Key Operational Problems (KOPs)
- Enterprise Gaps

INPUTS

- S&T Council (Component/Directorate needs)
- Tech Insertion Roadmaps
- Discovery Events
- Solicitation (Vulcan/eSOF, Broad Agency Announcement)

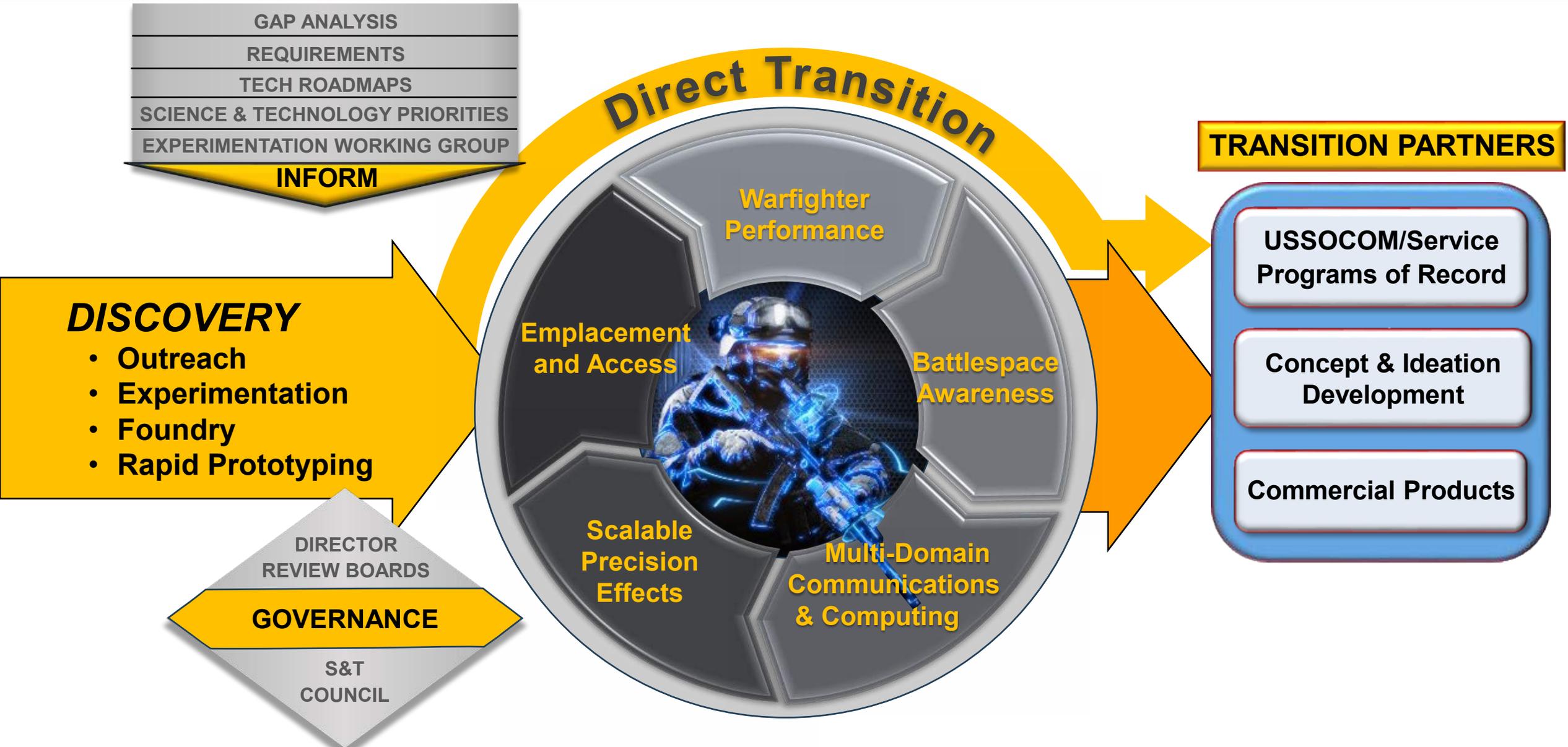
HSV TOL: High Speed Vertical Take Off and Landing

RDER: Rapid Defense Experimentation Reserve

FFRDC: Federally Funded Research and Development Center

UARC: University Affiliated Research Center

SOF S&T CAPABILITY PATHWAYS





Science & Technology

Scalable Precision Effects
FY25 Budget ~ \$11M

- Offensive Cyber
- Kinetic Attack
- Electromagnetic Warfare
- Non-Kinetic Attack

Multi-Domain Comms & Computing
FY25 Budget ~ \$16M (+\$1.2M of OPM)

- Contested Comms
- Edge Computing
- Defensive Cyber

Warfighter Performance
FY25 Budget ~ \$20M (+\$7.5M of OPM)

- Human Performance
- Brain Health
- Biomedical

VISION – “Relentlessly Discover, Develop, and Adapt Special Operations-Peculiar Advances in Technologies that Create Asymmetric Advantages for SOF Across the Full Spectrum of Conflict”

IMPACT – “S&T Focus Areas Aligned to Programming Guidance and Enterprise Gaps; Cross-Cutting Technology Efforts within All Capability Areas; Flexible Focus Areas Enable Speed and Agility within the S&T Portfolio”

Cross-Cutting Technologies
FY25 Budget ~ \$58M
(within Capability Areas)

- Artificial Intelligence
- Collaborative Autonomy
- Contested Communications
- Contested Logistics

Enablers
FY25 Budget ~ \$40M

- Technology Discovery
- Transition to PEO Programs
- Rapid Prototyping

Small Business Innovation
Research/Small Business
Technology Transfer

- Estimate (\$45M, Additional \$9.7M OPM)

Emplacement and Access
FY25 Budget ~ \$24M (+\$6.7M of OPM)

- Platform Signature Management
- Advanced Materials
- Personnel Signature Management
- Active Electronically Scanned Array Radar

Battlespace Awareness
FY25 Budget ~ \$30M

- UxS & Placed Sensors
- Theater Analysis & Mission Planning
- Tactical Sensor Fusion & Analysis
- Deep Look Sensors
- Collaborative Autonomy

UxS: Uncrewed Systems
PEO: Program Executive Office
OPM: Other People’s Money

OPPORTUNITIES FOR COLLABORATION

- **Share Technology and Concepts**
 - Operator Inputs
 - Vulcan / engage SOF (eSOF)
 - Foundry Cycle
 - Cooperative Research and Development Agreement (CRADA)
 - SOFWERX
- **Demonstrate Technology**
 - Technical Experimentation (TE) events
 - Rapid Prototyping events
 - Exercises
- **Funding**
 - Small Business Innovative Research (SBIR)/Small Business Technology Transfer (STTR)
 - Broad Agency Announcements (BAA)
 - Other

Industry, Academia, Labs, International

SCIENCE & TECHNOLOGY ENGAGEMENT TOOLS

S&T ACTIVITY	OPPORTUNITY	ENGAGEMENT
Vulcan / Engage SOF (eSOF) POC: Ms. Kimberly Carberry eSOF@socom.mil	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 submitting your idea into Vulcan https://vulcan-sof.com/
Small Business Innovation Research (SBIR)/ Small Business Technology Transfer (STTR) POC: Ms. Robin Burke SBIR@socom.mil	<ul style="list-style-type: none"> S&T manages USSOCOM's SBIR/STTR programs Stimulates innovation for small businesses 3 Phases, Phase I is a Study (\$175K), Phase II Prototype (\$1.3M), Phase III Commercialization 	<ul style="list-style-type: none"> https://www.socom.mil/SOF-ATL/Pages/sbir.aspx USSOCOM participates in 12 SBIR/STTR on-ramps per year (one per month)
Technical Experimentation (TE) Events POC: Mr. Dave Saren tech_exp@socom.mil	<ul style="list-style-type: none"> Conducts three 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 	<ul style="list-style-type: none"> Normally 3 events per year, TE Request for Information (RFI) posted on SAM.gov for each TE Event Go to https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx
Cooperative Research & Development Agreements (CRADA) POC: Mr. Vince Seiferd discovery@socom.mil	<ul style="list-style-type: none"> USSOCOM employs Overarching and Specific (Traditional) CRADAs Legal agreement to provide general and specific access to USSOCOM needs 	<ul style="list-style-type: none"> 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. Brad Penn BAAST20@socom.mil	<ul style="list-style-type: none"> USSOCOM S&T Directorate/PEOs develop and post BAAs to SAM.gov that provide Areas of Interest (AOI) to Industry and other external organizations 	<ul style="list-style-type: none"> S&T has posted a 5-year BAA that is periodically updated with Areas of Interest (AOI) posted on SAM.gov Biomedical and Human Performance BAA currently posted through Defense Health Agency
Foundry and Rapid Prototyping Cycles POC: Ms. Cleao Martin discovery@socom.mil	<ul style="list-style-type: none"> S&T has developed a Foundry and Rapid Prototyping Cycle S&T conducts Foundry and Rapid Prototyping Cycle events to enable SOF's ability to accomplish missions 10-15 years in the future 	<ul style="list-style-type: none"> S&T plans to conduct 1-2 Foundry and Rapid Prototyping Cycles per year Events provide opportunities to attend and inject disruptive technology solutions for SOF

QUESTIONS



PEOPLE | WIN | TRANSFORM
DOING BUSINESS WITH SOCOM

SMALL BUSINESS HELP

POC: Ashley Farrier
ashley.farrier@socom.mil
osbp@socom.mil
813.826.9475

SUBMITTING IDEAS AND CAPABILITIES**Engage SOF (eSOF) on Vulcan**

Pathway to present SOF relevant capabilities to USSOCOM
POC: Kimberly Carberry
kimberly.r.carberry.civ@socom.mil
eSOF@socom.mil
<https://www.Vulcan-SOF.com>

SOFWERX (Unclass, open forum partnering with industry to solve Warfighter problems)
<https://www.sofwerx.org>

TECHNICAL EXPERIMENTATION

<https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx>

