



"In the middle of difficulty lies opportunity"

Albert Einstein

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

Win • Transform • People

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SCIENCE & TECHNOLOGY Overview



SOF Hard Problems

USSOCOM

SCIENCE AND TECHNOLOGY - PREPARING FOR THE FUTURE 2020-2030



SPECIAL OPERATIONS COMMAND WANTS YOUR HELP SOLVING THEIR HARD PROBLEMS



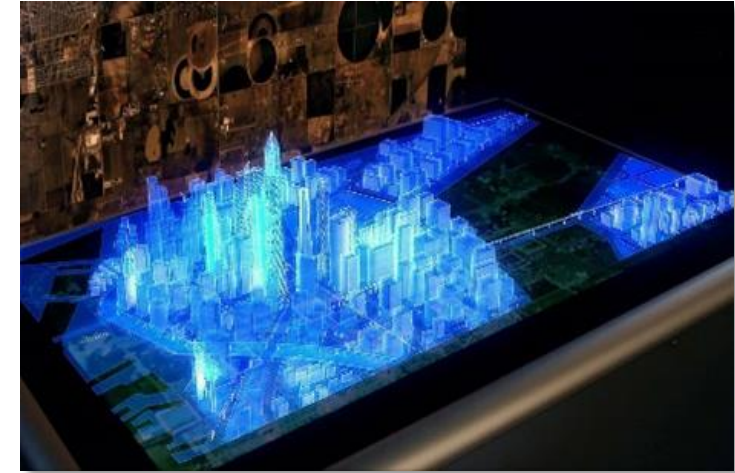
United States Special Operations Command's Science and Technology (S&T) Directorate has developed three Special Operations Forces (SOF) Hard Problems that are of critical importance to SOF missions. They are: **Small Unit Dominance, Mission Assured Communications, and Signature Management**. The three SOF Hard Problems are available for download at: <https://www.socom.mil/SOF-ATL/Pages/SOF-Hard-Problems.aspx>.

If you think you've got a solution that can help USSOCOM's S&T Directorate solve some or all of the SOF Hard Problems please reply via their **Hard Problems mailbox** also located on that same website. Please feel free to distribute this information to interested parties that could provide potential solutions to these S&T SOF "Hard Problems."

S&T Main Focus Areas

Tactically Relevant Situational Awareness

- Next Generation Identification and Characterization - comprehensive and verifiable location of targets across various sensor systems
- Applicable in all environments – not just airborne assets in uncontested environments
- Includes means to turn information into decision quality data – Artificial Intelligence (AI)/Machine Learning (ML)
- Includes human-machine interface to make the data accessible and usable to all SOF echelons – operator through Tactical Operations Center (TOC) Commander



Communication and Navigation in all Environments

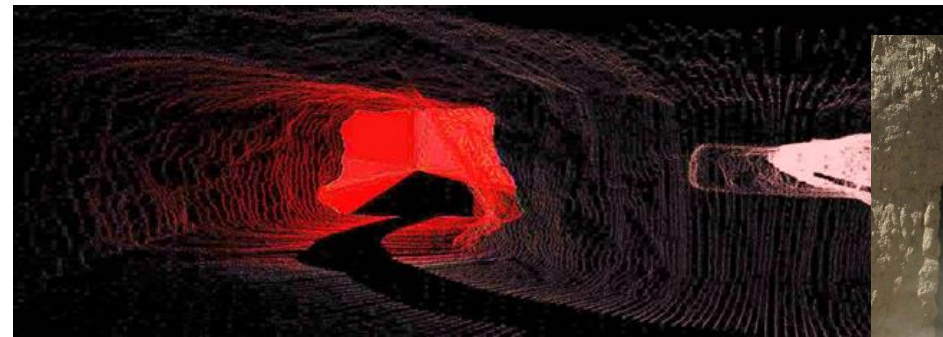
- Global Positioning System (GPS) Denied – regardless of cause
- Hostile, contested, and Crowded Electromagnetic Spectrum
- Low Signature

Tailored Lethality

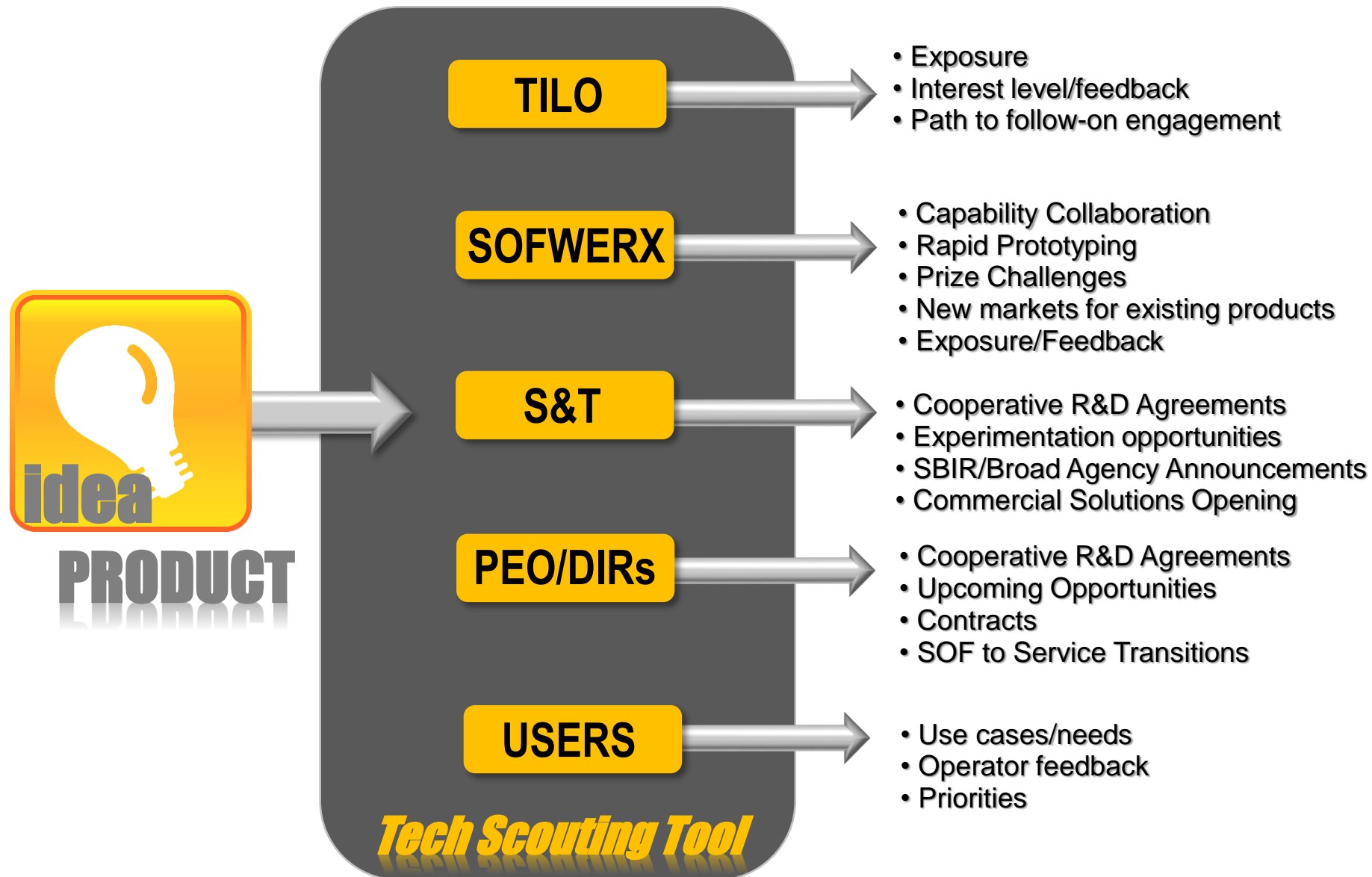
- Counter-materiel & Counter-personnel
- Incorporates scalability and reversibility

Biotechnologies

- Understand and counter adversary Weapons of Mass Destruction (WMD)/terror/effect
- Explore means to optimize SOF warfighter capability/performance throughout their career



Multiple Engagement Paths



S&T Engagement Tools

| S&T ACTIVITY | OPPORTUNITY | ENGAGEMENT |
|---|--|--|
| SOF Futures Innovation Foundry Events POC: William Andrews 813-825-6938, william.andrews@socom.mil | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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. Anthony Aldrich 813-826-9150, anthony.aldrich@socom.mil | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Normally 1 TE Event/QTR, TE Request for Information (RFI) posted on FBO.gov for each TE Event Go to https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx |
| Cooperative Research & Development Agreements (CRADA) POC: Mr. Benjamin Chitty 813-826-5162, benjamin.chitty@socom.mil | <ul style="list-style-type: none"> SOCOM 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. Peter Greany 813-826-7423, peter.greany@socom.mil | <ul style="list-style-type: none"> SOCOM S&T Directorate/PEOs develop and post BAAs to FBO.gov that provide Areas of Interest (AOI) to Industry and other External Organizations | <ul style="list-style-type: none"> S&T BAA posts in April with Quarterly Updates Biomedical BAA currently posted through US Army |
| Foundry Tech Scouting Tool POC: Mr. Barton Graham 813-826-6903, barton.graham@socom.mil | <ul style="list-style-type: none"> Web-based platform that enables anyone to quickly describe technology and upload supporting documentation to a secure, shared, searchable, central database | <ul style="list-style-type: none"> Foundry supports evaluation/ assessment/scoring of submitted technologies, and sharing of results Contact POC for instructions to register |
| Technology & Industry Liaison Office (TILO) POC: Mrs. Shelvin Watts 813-826-1269, shelvin.watts@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 TILO Submitting Your Idea Form |



QUESTIONS?

