Mr. Tony Davis
Director

SCIENCE AND TECHNOLOGY

“Somewhere something incredible is waiting to be known.”
- Carl Sagan
Discover, Enable, and Transition technologies to provide an asymmetric advantage for Special Operations Forces
**S&T Strategy Overview**

- **Discover**
  - Scouting
  - Roadmaps
  - Red Team
- **Enable**
  - Internal Projects
  - External Projects
  - Studies
- **Transition**
  - PEOs
  - Military Services
  - Enablers, COI, OGA, DoD

- **Technology Gaps**
- **Component & TSOC Gaps**
- **PEO Gaps**
- **Threat-Related Gaps**

- **Involves Warfighters**
- **Increase Speed**
- **Manage Risk**

- **Deliver “Game Changing” Technology**
- **Maximize Leverage (DoD, Industry, Academia, Partner Nations)**
- **Execute Planned Transitions**
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)

**PERIOD OF PERFORMANCE**
- Project Dependent
- Emphasizing Tech Discovery, PEO TIRs needs, and game-changing technology development

**FUNDING**
- FY16 BA2/3: $21.79M/$31.21M
- FY17 BA2/3: $22.68M/$38.96M
  *Note: Does not include TTL and MISO*

**MILESTONES**
- Project Dependent

**CURRENT CONTRACT/OEM**
- Various

**POINT OF CONTACT**
- 813-826-9482 (TILO)
1. Build the Network
2. Provide the Venues
3. Develop Tools and Processes

**Innovation Ecosystem**

- **Technology & Industry Liaison Office (TILO)**
  - tilo@socom.mil

- **International Cooperation**

- **Small Business Innovation Research (SBIR)**

- **Customers and Culture**

- **Tools and Processes**

- **Leverage Others:**
  - Services
  - Government Labs
  - Industry
  - Academia
  - Non-profits

- **Experimentation Venues & Combustion Chambers**

**CAPABILITY NEEDS**

**SOLUTIONS**
Technical Experimentation (TE)

- **TE 16-3, 11-15 July 2016, Muscatatuck/ Camp Atterbury, Indiana**
  - Experimentation Focus: Urban/Unconventional Warfare

- **TE 16-4, 19-23 September 2016, Little Creek, VA**
  - Experimentation Focus: Maritime Surface Systems

- **TE USSOCOM Public Link:**
  [http://www.socom.mil/sordac/Pages/ExpWithUS.aspx](http://www.socom.mil/sordac/Pages/ExpWithUS.aspx)

- **LinkedIn Group:**
  SOCOM Technical Experimentation
Innovation Thrives in a Marketplace

“So by accelerating the collisions, community, and co-learning… innovation and productivity increases.”  Tony Hsieh, Zappos.com

Marketing Monday
Warfighter Wednesday
MIL- OSS Mini-Hacks
Thunderdome Thursday
FFRDC Friday
Tech Talks
Project Vulcan

- Pilot deployment of a Technology Domain Awareness innovation platform jointly developed with the DoD Information Analysis Centers (IACs)

- Links technology options in DoD, defense industry, and the broader commercial and academic R&D communities to the needs of SOF for better, cheaper, faster capability development

- Incorporate Lessons Learned from 2016 SOFIC
  - Industry feedback is valued and appreciated
  - Improve the ‘Scout Card’ Creation process

Technology Discovery and Knowledge Management Tool
USSOCOM advertised vacancies for three - five energetic technical experts from industry to be Exchange Fellows in the SOFWERX innovation environment. Ability to work in a dynamic environment is a must. Desired Industry Exchange Fellowship positions:

1. Electro-Optics Engineer
2. Mechatronics Engineer
3. Biomedical Engineer
4. Software Engineer
5. Industrial Designer
6. Aeronautical Engineer

USSOCOM is currently making first round selections, this is an ongoing process

Details will be provided on FedBizOps: SOCOM Industry Exchange Fellowship, Solicitation Number: SOCOMFELLOW
PEO Technology Insertion Roadmaps

**C4**
- Stabilized Rapid Adaption of Network
- Security and Network Management/Monitoring of Mobile Ad-hoc Network
- Open Standard Airborne ISR Transport Modem

**Fixed Wing**
- High definition, 3D & multi-color EO/IR, multiple moving target tracking, FOPEN
- Crew workload reduction, machine intelligent processing/Tactical Flight Mgmt
- Situational awareness with full spectrum threat reduction and counter measures
- 105 mm cannon precision guided ammunition and fuses, loitering munitions
- High energy laser, power management, aiming and focus turret
- Multispectral sensor
- Combat ID, IFF to ID friendly and hostile in all environments

**Maritime**
- Common Operating Tactical Picture
- Low Probability of Intercept/ Detection Communications
- Wireless Intercom
- Surface System/Active Ride Control
- Maritime Personnel Signature Management Technologies
- Situational Awareness, High Visual/NIR Transmittance Window Films
**PEO Technology Insertion Roadmaps (2)**

**Rotary Wing**
- High Power Watts for Over the Horizon Communications
- Improved RW Counter Measures
- Advanced IR Countermeasures & Self-Protection for RW Aircraft

**SRSE**
- Maritime Forensics Exploitation Capability
- Hidden Chamber/Material Detection
- Portable, Automated 3D Room/Building Mapping Device
- Stand-off/Remote Facial Recognition & Iris Capture
- Dustless Latent Print Collection
- Rapid Identification of Materials for Site Exploitation

**SOF Warrior**
- Transferrable armor for commercial vehicles
- Helmet sensor system to monitor and record linear and rotational accelerations
- High Sulfur Diesel Engine Capability
- Camouflage Applique
- Reduced IR Signature
- Improved Gun Barrels
- Variable Transmission & Laser Protection Eyewear
- Tactical stand-alone ballistic plate
- Multiple colors or spectral bands within the same sensor and SWAP
- Thermal band Identify Friend or Foe (IFF) beacon, backwards compatible
QUESTIONS?

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