

#### SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

### Mr. Tony Davis Director

### SCIENCE AND TECHNOLOGY

"Somewhere something incredible is waiting to be known."

-Carl Sagan

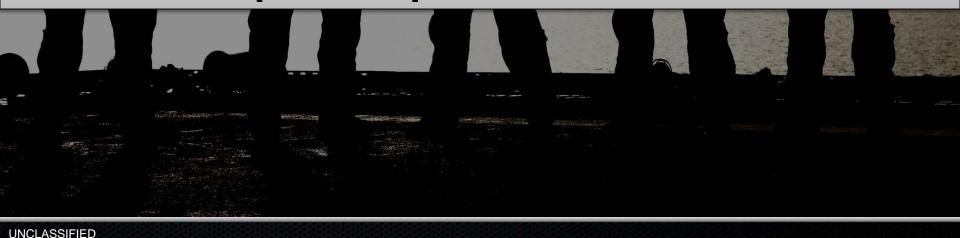
### SCIENCE AND TECHNOLOGY

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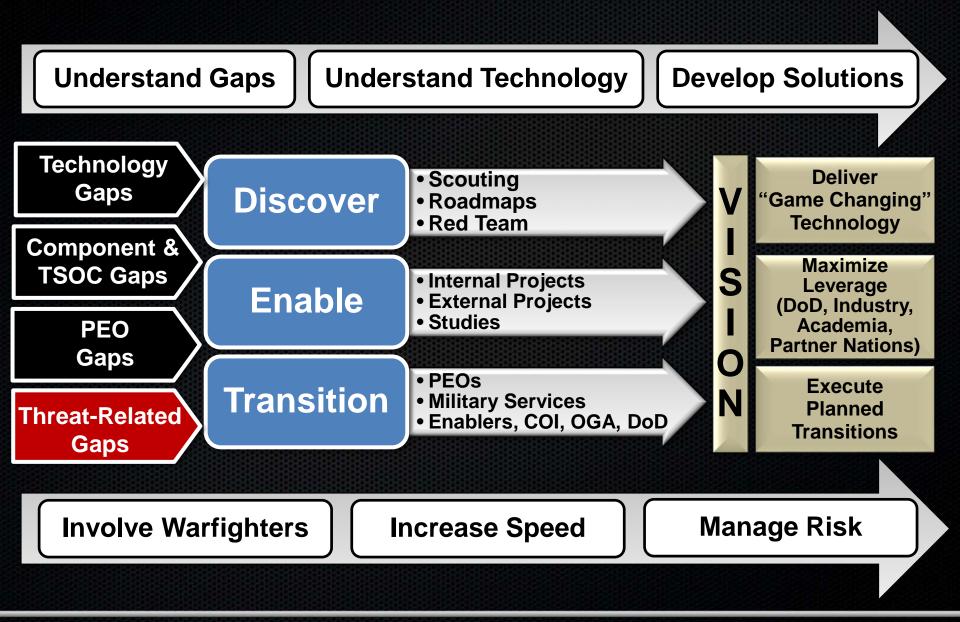




### Discover, Enable, and Transition technologies to provide an asymmetric advantage for Special Operations Forces

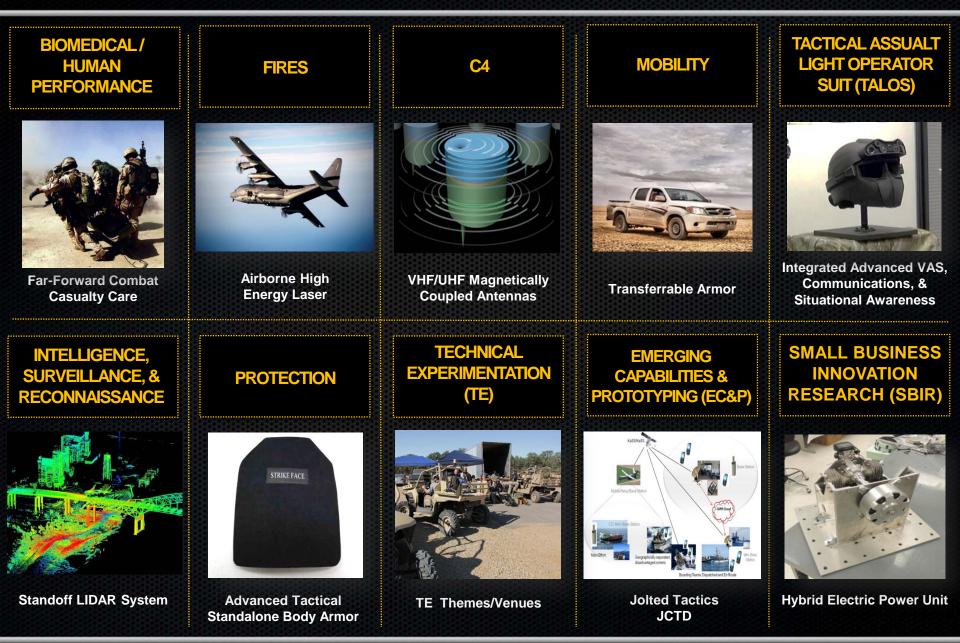


## S&T Strategy Overview



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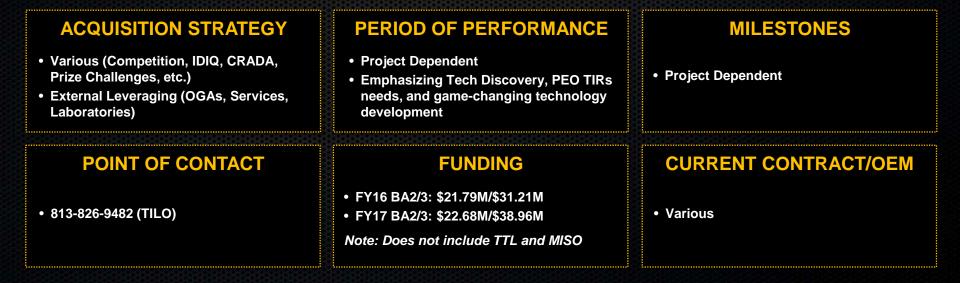
### Science and Technology Directorate



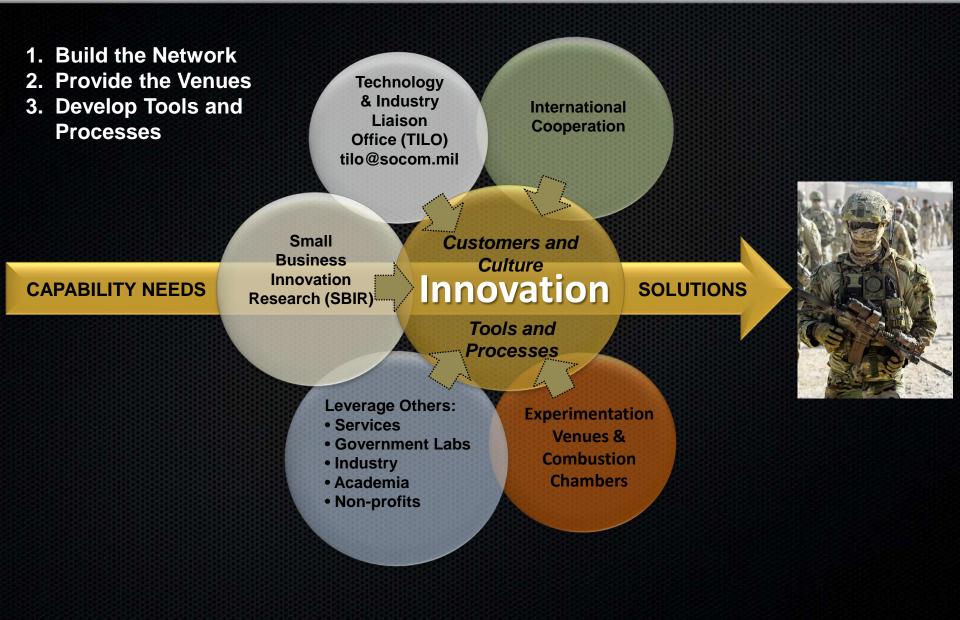
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### Science & Technology Budget

- 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



### **Innovation Ecosystem**



### **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

#### LinkedIn Group: SOCOM Technical Experimentation







### **Innovation Thrives in a Marketplace**

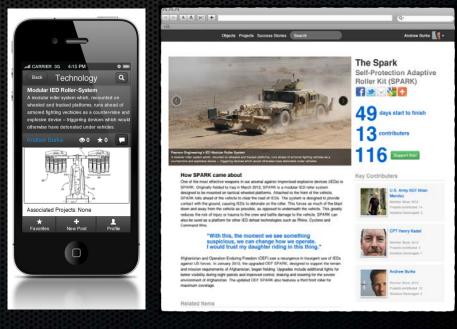


#### "So by accelerating the collisions, community, and co-learning... innovation and productivity increases." Tony Hsieh, Zappos.com

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

## **Industry Fellowships**

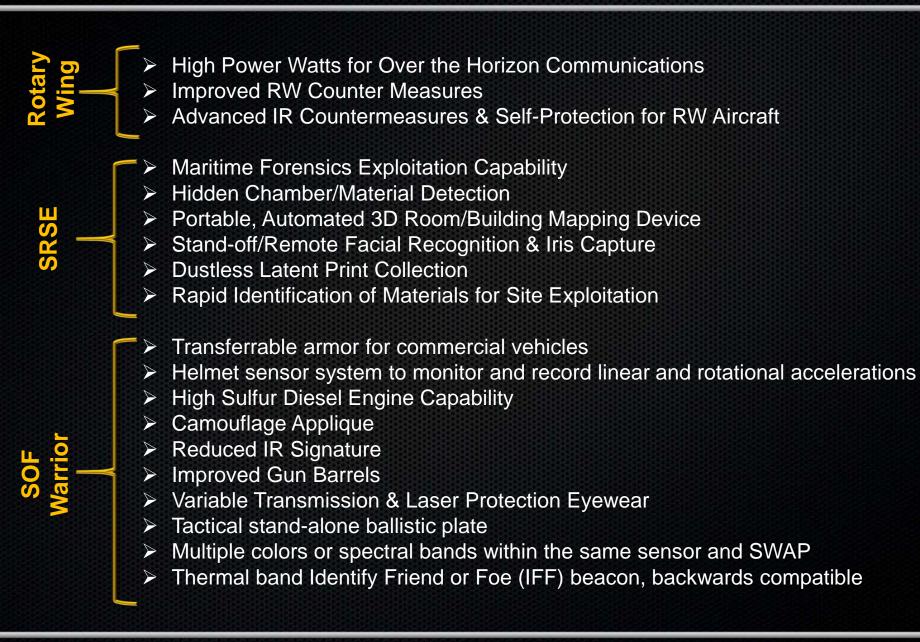
- USSOCOM advertised vacancies for three five energetic technical experts from industry to be Exchange Fellows in the SOFWERX innovation environment. Ability to work in a dynamic environment is a must. Desired Industry Exchange Fellowship positions:
  - **1. Electro-Optics Engineer**
  - 2. Mechatronics 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**

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

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### **PEO** Technology Insertion Roadmaps (2)



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# **QUESTIONS?**

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