SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE

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The Next Frontier – Filling the Areas of Interest

• **Why?** – Shrinking Technical Advantage (Pace of Tech Dev, Democratization of Tech, US Dominance, Flat Budgets)

• **What?** – Bringing Solutions and Problems closer together; shepherding collisions

• **How?** – CRADA’s, SBIR’s, TE’s, FTF’s, Vulcan

• **Latest Areas of Interest/ Themes:**
  – Contested Environment SA/ C4I,
  – Captured Enemy Material Exploitation
  – Counter Autonomous Systems
## JSOC - “Stop Missing Opportunities”

### Why?

SOF’s technical advantage is dependent on rapid: problem identification, resourcing and resolution.

- Untapped Problem Solving Potential
- Unmet Needs
- Flat Government Spending
- Industry IR&D
- Desire to collaborate
- The real $ is in sustainment

We can’t afford to miss known opportunities to solve problems faster.

### What?

**Problem Solving 101 – Know the problem, Find the solution, Resource**

- Reduce the barriers between Problems and Solutions
- Share til it hurts
- Accept Risk
- Partner
- Reinforce success
- Acknowledge our limitations

**Embrace our dependence on partnerships**

### How?

- Our Gap List puts our needs in the hands of solvers – it is JSOC’s “dating profile”.
- Cooperative R&D Agreements accelerate solutions to a point of demonstration.
- Demonstrations impact resourcing decisions.
- Vulcan is a safe place for both industry and government – acts as “holding pond” for solution and problem to connect.
MILESTONES

**Stronger Tech Foundation**
- DEVOPS
- Cloud
- Proactive IT & Security
- Data OPS
- Process Friction

**Ecosystem**
- Space
- Location
- Collaboration Tools

**Tech DNA**
- Training
- Discover Trapped Talent
- Hire New Talent
- HQE
- CTRs

**Battle Rhythm**
Establish Technology Heartbeat that includes J DIR and Tiers

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**Aim Point 1: BASE CAMP**

- Accelerated Collection to Insight to Action (ACIA)
- Invisible to Digital Surveillance (INVIDS)
- Collaborative OPS in a Denied Environ (CODE)
- Offensive & Defensive Swarm Enabled Tactics (OffDefSet)

**Future Operating Environment: Innovation Peaks**

**Aim Point 2: CEM**

**Aim Point 3: Autonomous Swarms**
## JSOC – 2018 Priority Areas of Interest

### Contested Environments

Moving, Engaging and Communicating in environments that are more challenging.

- More capable opponents
- GPS Denial
- Communications Jamming
- Proliferation of Social Media
- Proliferation of Night Vision capabilities
- Non-nation state actors with nation state-like capabilities

### Countering Autonomous Threats

While human operated airborne threats have consumed significant resources over the past 18 months (CUAS), increasing levels of autonomy adds a dire new element.

- Air threats are still a primary area of concern, but we are also focused on ground and maritime threats.
- AI at the chip level

### Improved Analytics

The US is collecting far more than it can effectively analyze and translate into actionable intelligence. SOF is not immune to this phenomenon.

- Automated ingest – multi-language OCR, facial recognition
- Derivation of intent
- Cross-Domain
- Data Fusion
- Visualization