

SOF AT&L

Special Operations Forces
Acquisition, Technology, & Logistics

Mr. James Geurts *Acquisition Executive*



THANK YOU



SOF AT&L



MISSION

Provide rapid and focused acquisition, technology, and logistics to Special Operations Forces



VISION

Be the recognized expert and trusted provider to equip and sustain Special Operations Forces



PRINCIPLES

Deliver capability to user expeditiously; exploit proven techniques and methods; keep Warfighters involved throughout process; take risk and manage it!

SOF AT&L Organization



PEO SERVICES
Mr. Ted Koufas



PEO SOFSA
Special Operations Forces
Support Activity
COL Jack Dills



LOGISTICS
COL Steve Allen



PEO C4
Command, Control,
Communications,
and Computers
Ms. Deb Woods



PEO SRSE
Special Reconnaissance,
Surveillance, & Exploitation
Mr. David Brede
ACTING



PROCUREMENT
Col Chris Daniels



**PEO
ROTARY WING**
COL David Phillips



**PEO
SOF WARRIOR**
COL John Reim



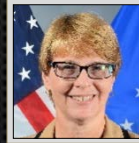
COMPTROLLER
Mr. Dave Nuchols



PEO MARITIME
CAPT Kate Dolloff



PEO FIXED WING
Col Eric Forsyth



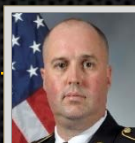
**SCIENCE &
TECHNOLOGY**
Ms. Lisa Sanders



**ACQUISITION
AGILITY**
Ms. Kelly Stratton-Feix
ACTING



DEPUTY DIRECTOR
Mr. Jim Smith



**SENIOR ENLISTED
LEADER**
SGM Richard "Skip"
Holman



MILITARY DEPUTY
COL John Vannoy



**ACQUISITION
EXECUTIVE**
Mr. Jim Geurts



Global Acquisition Network

DOD Labs, Industry, Academia & International Partners



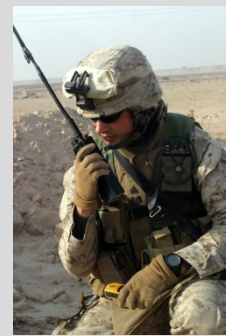
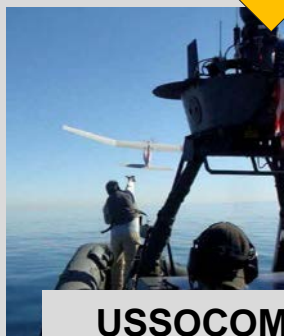
Service/International Acquisition



- Combat Feedback
- Unconventional Uses



- SOF-to-Service Transition
- Innovative Acq Practices

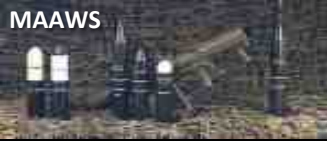


USSOCOM Acquisition

Wide Array of Programs

MILESTONE C
MILESTONE B

MAAWS



GMV1.1



Sniper Weapons & Accessories



Genedrive Bio Identifier



MH-47



CV-22

DVEPS



AC130J



RFCM



MCTF



DDS / SDV



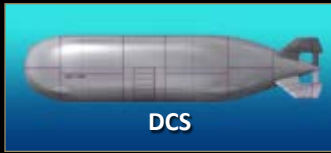
CCM Mk 1



SWCS



DCS



LRBS



SCAMPI

Hand Held Link-16

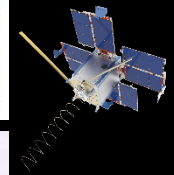


SOFLE

Intelligence Collection Systems



Special Operations Tactical Video System (TVS)



Prometheus Block 2



Identity Operations



GROUND
118 Programs / Projects

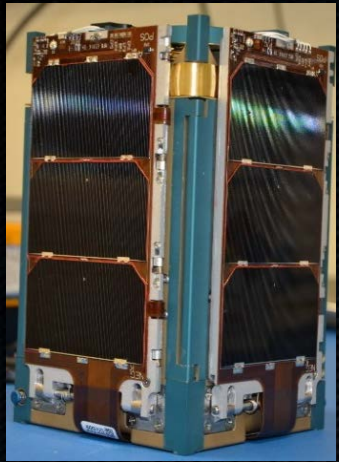
AIR
109 Programs / Projects

MARITIME
24 Programs / Projects

C4I
142 Programs / Projects

SRSE
59 Programs / Projects

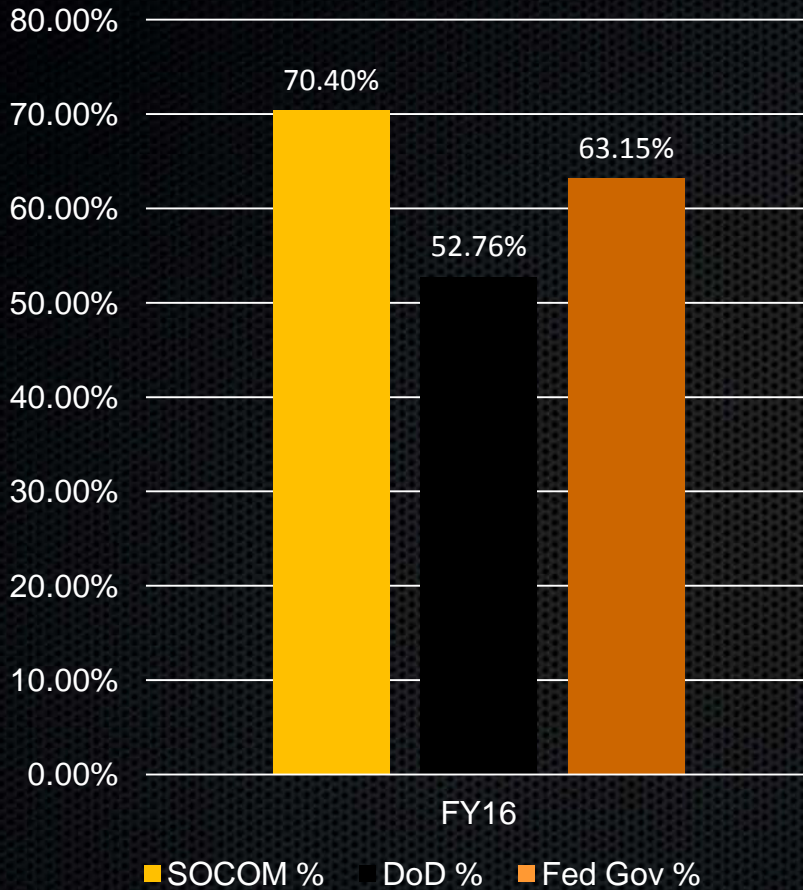
FY16 Acquisition



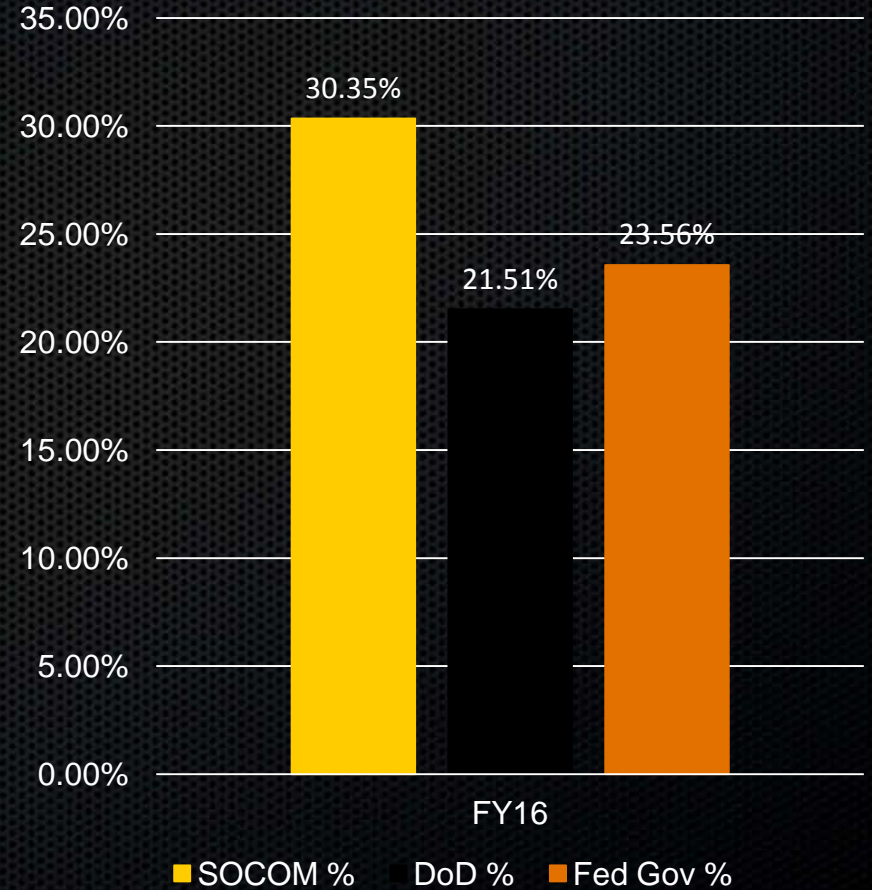
110M	Rounds of ammunition
60,772	Weapons, accessories, lasers, & visual augmentation systems
211,966	Operator survival/equipment items
2,503	Radios, SATCOM terminals, & ancillary equipment
37,406	Information Technology automation devices & systems
5,605	Operator & Medic kits
4,417	ISR kits
368	Vehicles
2,500	TACLAN FoS equipment deliveries
16	SCAMPI node, USSOCOM Strategic Entry Point, & media ports
522	CASEVAC kits
153	Rotary Wing aircraft & systems
23	Tactical MISO systems
30	Fixed Wing aircraft
13	Mobile Technology & Repair Centers deployed
20	Prototype Diver UBAs
19	Maritime Surface Crafts
3	Undersea Manned Submersibles

SOCOM DoD FedGov Competition and Small Business FY16

Competition Rate

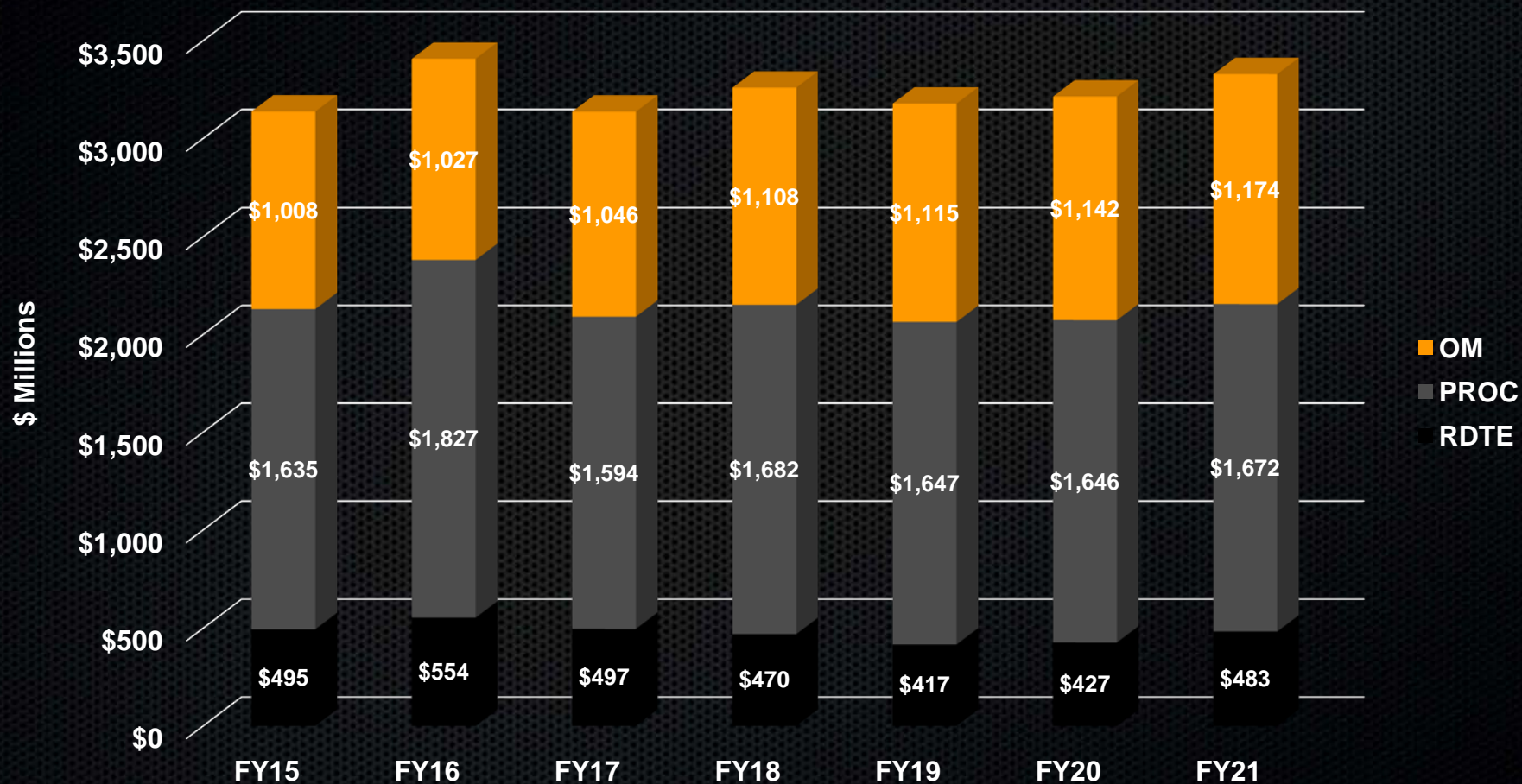


Small Business as a Prime



SOF AT&L Funding (MFP-11)

17 President's Budget



Does not include non MFP-11 in support of SOF

EXPONENTIAL *Environment*

LOCATIONS

More countries, more diverse operating locations, challenging logistics and communications infrastructure

MISSIONS

Dynamic, rapidly changing, encompassing the full range of direct, indirect, training, and preparing

PARTNERS

Varying degrees of integrations and reach. Interacting in ops, cooperative development and foreign comparative test

C2 DEMANDS

Requires seamless, integrated, and effective C2 at the global scale with high confidence

MARKET-PLACE

Global and commercially driven. Heavy use of COTS/GOTs increases complexity

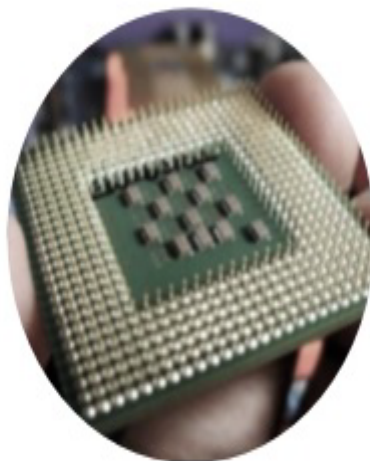
“If the rate of change on the outside exceeds the rate of change on the inside, the end is near.”

Jack Welch

Track the tech



Broadband speeds will more than double by 2019 to 42.5 Mbps, the equivalent of streaming 8 HD Netflix films at once



Clock speed estimated to triple over this decade to 10 gigahertz, enabling unprecedented miniaturization and low power consumption



Wearables / connected devices sold expected to triple by 2019 to 150M, massively expanding the internet of us



Global Data Generated in the last two years

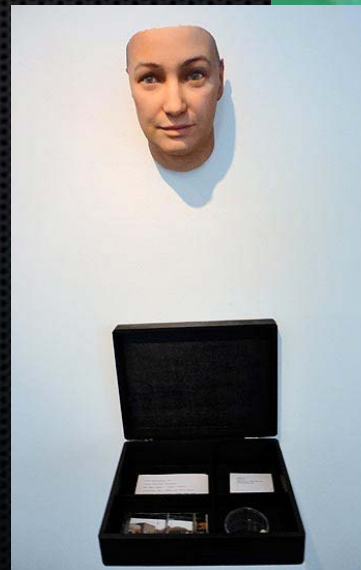
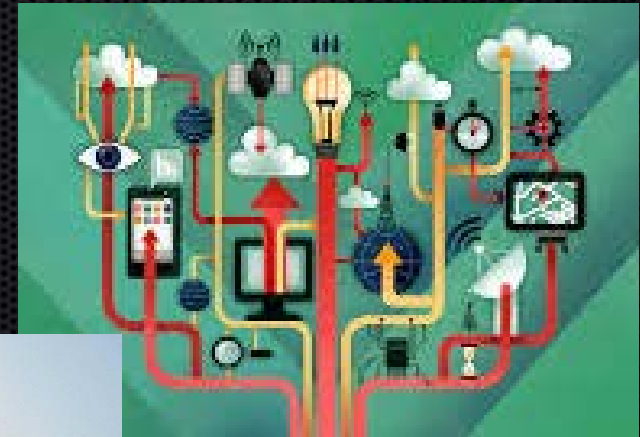
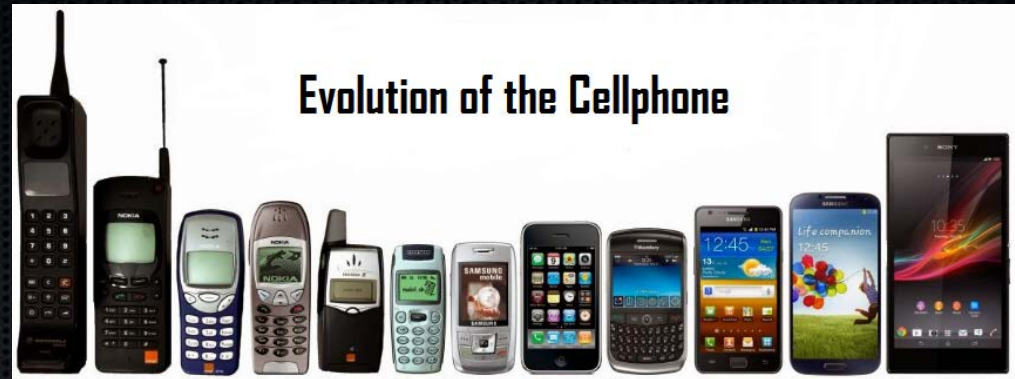


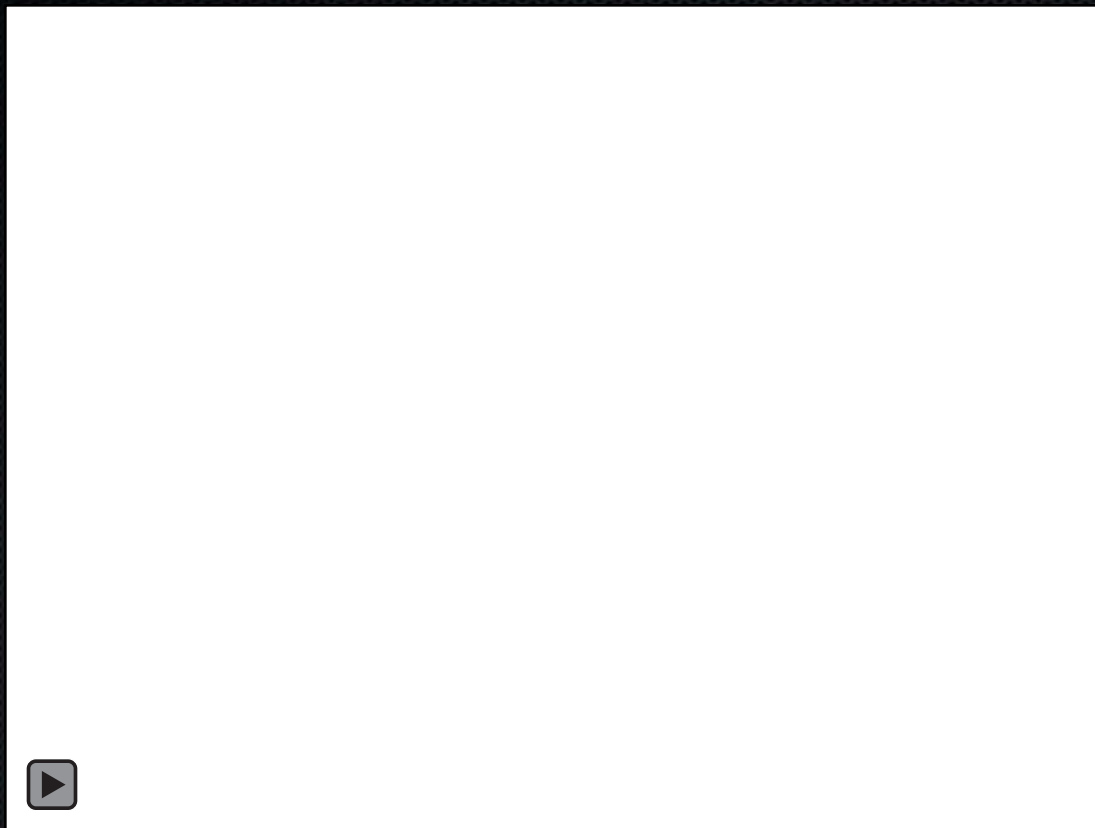
TWO THIRDS BY CONSUMERS

Source: Economist, Cisco, BI Insights, BCG Analysis

Radical Leveling Technologies

- Linear vs Exponential vs Exponential Plus
- Why We Care
 - Downskilling
 - Stranger Visions
 - Small Footprint/ Signature Reduction/New Signatures
 - Arms Racing Among State and Non-State Actors for WMDs/WMEs





Our Blueprint

Set unreasonable expectations

Execute an elastic business definition

A cause, not a business

Embrace and listen to new voices

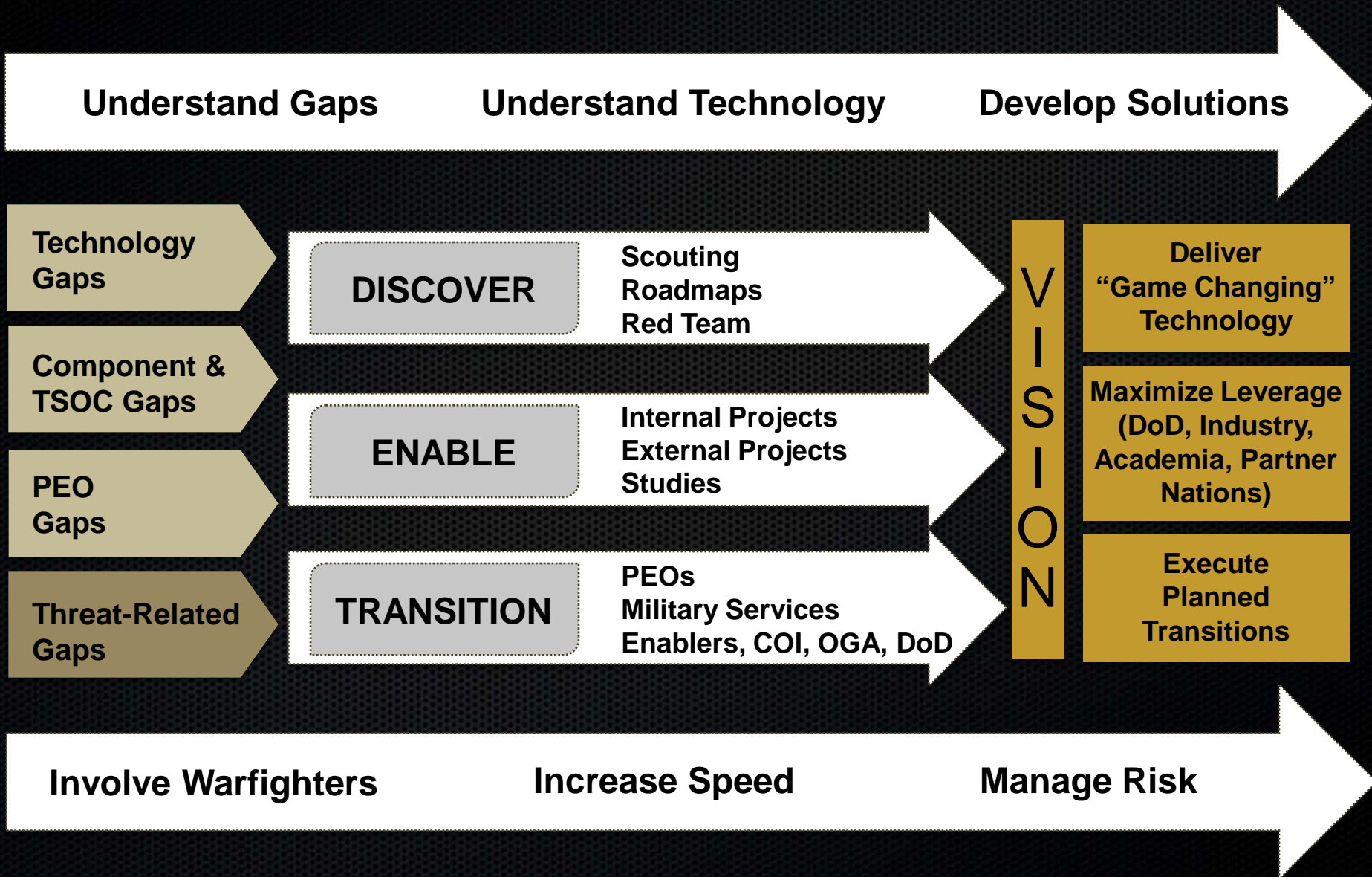
Enable a market for innovation

Exploit low-risk experimentation

Create and exercise the network

Velocity is our Competitive Advantage

Planning for the Future



SOF S&T Needs



“Somewhere something incredible
is waiting to be known.”

-Carl Sagan

- Comprehensive Signature Management for Personnel & Platforms*
- Unmatched Ballistic Protection Through Advanced Armor/Novel Materials
- Capabilities to Sufficiently Execute Countering Weapons of Mass Destruction (CWMD)
- Enhanced Human Performance*
- Far Forward Combat Casualty Care
- First Pass Accuracy and Lethality
- SOF Small Unit Dominance (SOFSUD)*
- Precision Guided Munitions/Scalable Effects Weapons (SEW)
- Counter Terrorism / Tagging, Tracking, & Locating (TTL) Technologies
- C4 Revolutionary Capabilities
- Optical Electronics, IR, & Lasers
- Anti-Access/Area Denial (A2/AD)*
- Battlespace Awareness*
- Intelligence, Surveillance, & Reconnaissance (ISR)
- Cyber/Social Media Analysis Tools
- Leap Ahead Power & Energy Systems
- Biometrics/Sensitive Site Exploitation (SSE)
- Military Information Support Operations (MISO)

* FY15-19 Science and Technology Integrated Priority List (STIPL)

Breaking Down Barriers

PEO INDUSTRY
DAYS + S&T LAB
DAYS **93+**

TALOS
30 RAPID
PROTOTYPING
SESSIONS
215 Different
Organizations

NON-FAR
CONTRACTS
(OTAs) **5**

INDUSTRY VISITS
127+ With AE
In FY15

CAPABILITY
COLLABORATION
EVENTS

Monthly: Started
April 2016

TILO
603
Submissions

946
Attendees

SOFWERX Ybor City Location
opened Dec 2015
207
Events

SBIRs
56+
PROJECTS

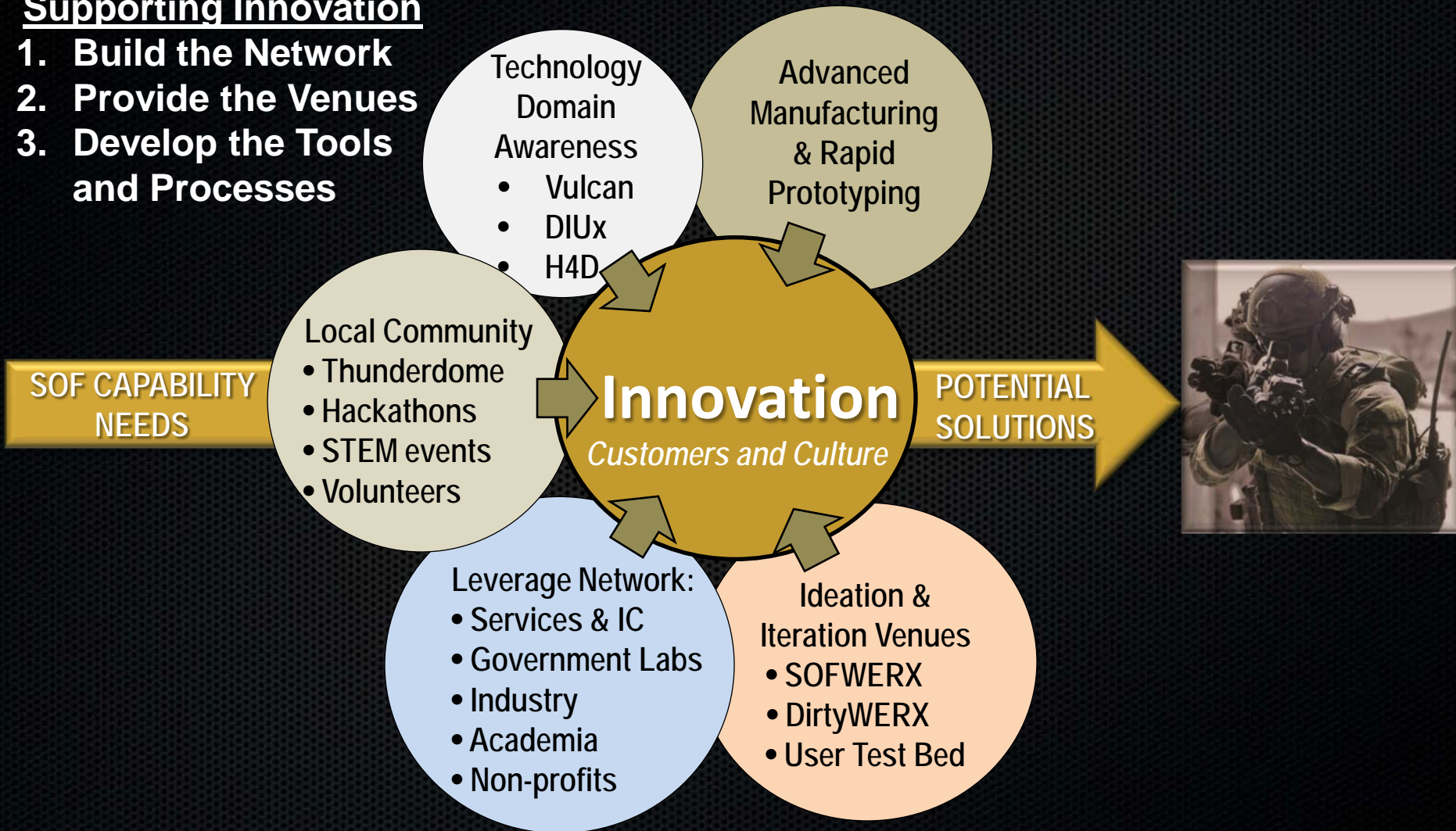
CRADAs
144+
SIGNED

TECHNICAL
EXPERIMENTATION
170+ Experiments

Acquisition Agility Ecosystem

Supporting Innovation

1. Build the Network
2. Provide the Venues
3. Develop the Tools and Processes



Innovation Thrives in a Marketplace

SOFWERX

Network Engagement



Mini Robotics

CO-INVENTION



OpenWERX Challenges



EDUCATION WITH AT&L



Capability Collaboration Events



RAPID Prototyping

TECHNOLOGY AWARENESS

HACKATHONS



Growing the next GENERATION

Creative Staffing Model

DoD Interns: Recruit promising talent and develop with challenging roles and experience



Industry Fellowships: Leverage industry expertise, and share development opportunities



University Interns: Quickly bring in skilled workforce and expose to DoD culture and challenges

Note: Companies shown reflect first round of fellows only

OPENWERX

- Monthly challenges
- Open to anyone
- On the spot prize awards
- Go to WWW.SOFWERX.ORG



***Leveraging Diverse Communities
to Solve Tough SOF Problems***

Rapid Agile Prototyping Series (RAPS)

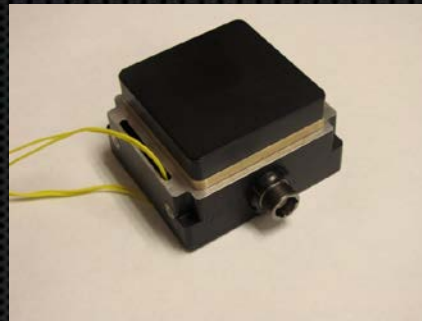
Control / Carriage of Precision Weapon



MedRZR Improved Litter Carrying Capability



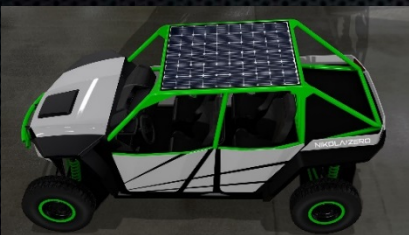
SAASM GPS PUCK Receiver Kit



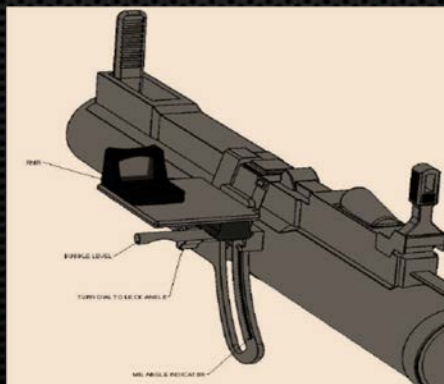
Cubesat Payload Prototyping Lab



Replacement of the Forward Area Manifold (FAM) Cart



Extending SOF's Small Arms Capability



Innovative use of Commercial Off the Shelf



Single Man Flying Machines



Advanced Manufacturing (AM)

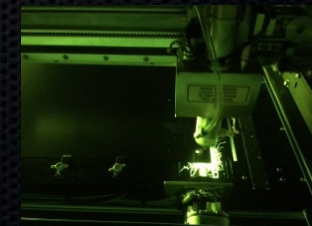
Objective: Empowered units & individuals solving problems & implementing solutions at the point of need



Additive Manufacturing & 3D Printing Design Training at Unit Sites



Advanced Manufacturing & Innovative Design

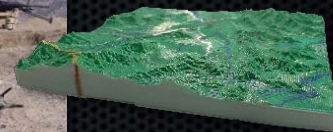


Enabling Production/Training through the SOF Advanced Manufacturing HQ Node



Mobile Technology & Repair Complex (MTRC)

Enable the Global SOF Network with distributed use of networked advanced design and manufacturing tools



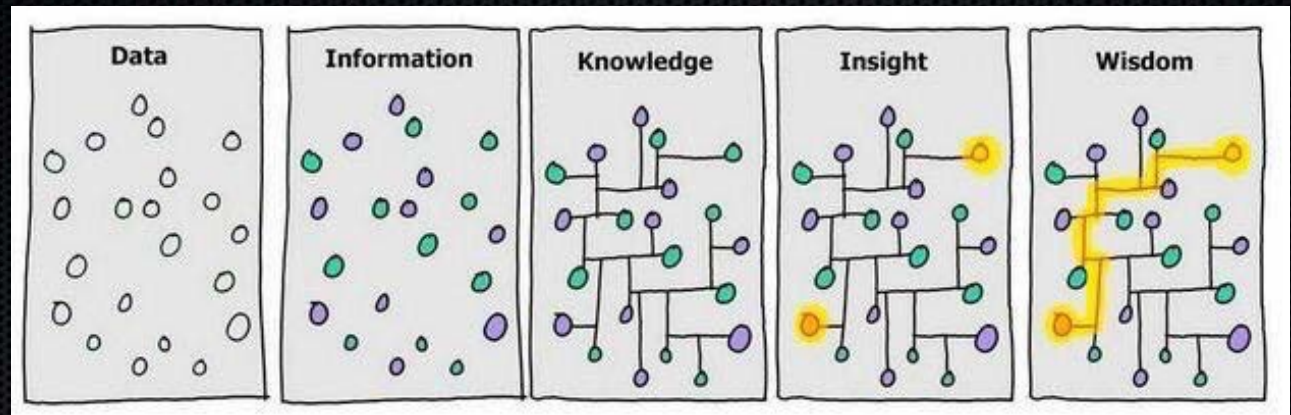
Pre-deployment training ensures specialized skills including:

- Engineering (CAD, 3D printing, documentation)
- Welding, machining and advanced manufacturing
- Carpentry / electrical
- Kydex & sewing
- Platform / Weapons / C4



Emerging Areas of Interest

- Open Source
- Crowdsourcing
- Deep/Machine Learning/AI
- Advanced Analytics



Using Advanced Tools to Simplify and Increase Velocity



QUESTIONS?

James "hondo" Geurts
HQ USSOCOM/SORDAC
james.geurts@socom.mil
813-826-9402

@hondogeurts(twitter)

Also on LINKEDIN

