



UNITED STATES SPECIAL OPERATIONS COMMAND

Mr. Tony Davis
Director

SCIENCE AND TECHNOLOGY

"Somewhere something incredible
is waiting to be known."

-Carl Sagan

SCIENCE AND TECHNOLOGY

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

Jack Welch

S&T VISION



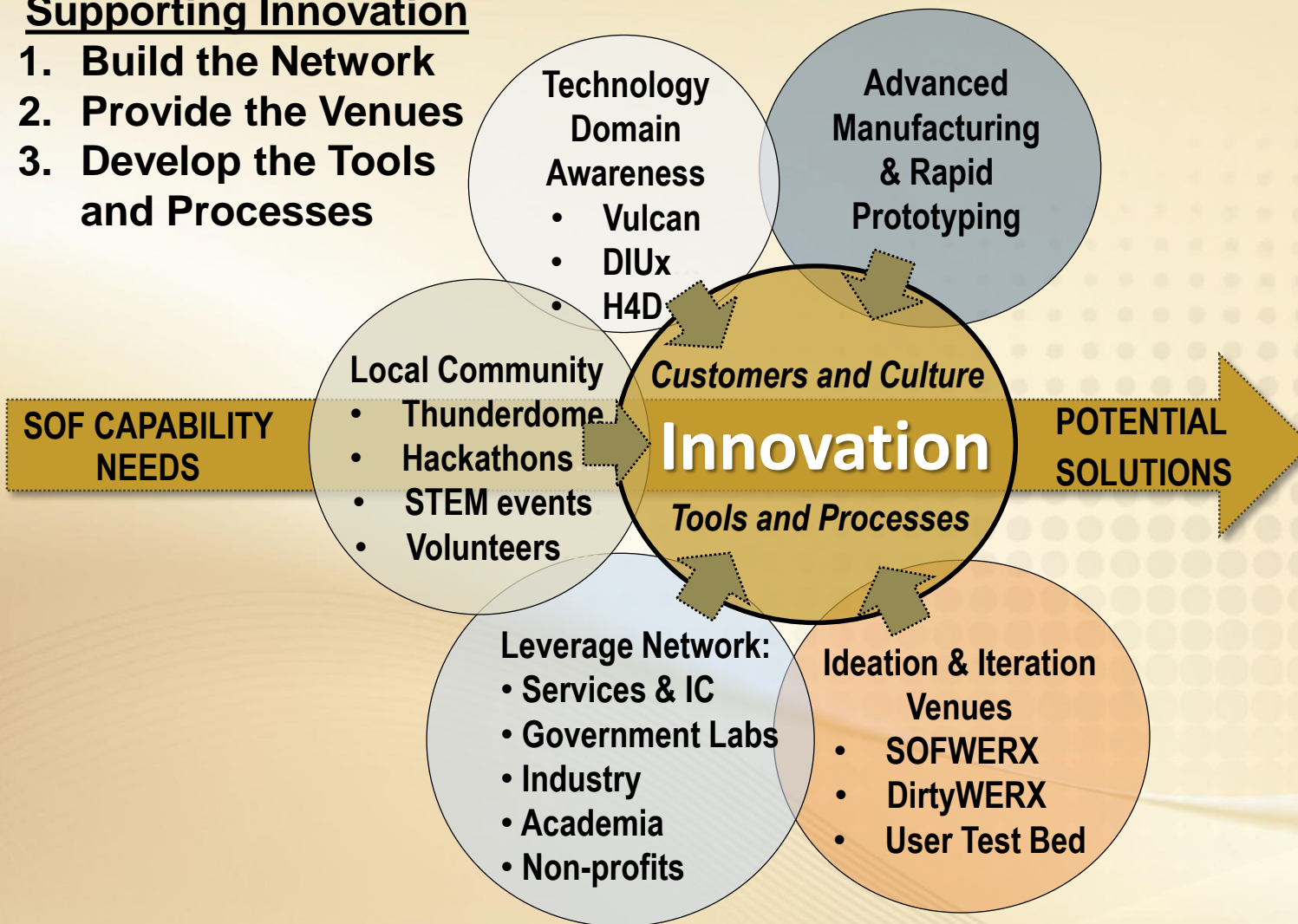
**Discover, Enable, and Transition technologies
to provide an asymmetric advantage for
Special Operations Forces**



INNOVATION ECOSYSTEM

Supporting Innovation

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



Innovation Thrives in a Marketplace



Sign up for SOFWERX ecosystem
at: <http://www.sofwerx.org>



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

Co-Invention **Thunderdome Events**
Rapid Prototyping **Project Vulcan** **Education with AT&L**
Technology Awareness **Fellowships / Interns**
Workforce Development **Industry Engagement**

New Operating Models

Rapid Prototyping Events (RPE)



Field Trials



Rapid Transition Opportunities



Thickening the Network



TECHNICAL EXPERIMENTATION (TE)

- **TE 16-2, 7-11 Mar 2016, Camp Roberts, California**
 - Experimentation Focus: C4 and Mobility
- **TE 16-3, 11-15 Jul 2016, Atterbury-Muscatatuck Center for Complex Operations, Indiana**
 - Experiment Focus: Unconventional Warfare / Urban Ops
- **TE 16-4, 19-23 Sep 2016, Little Creek, VA**
 - Experiment Focus: Maritime Surface Craft
- **TE 17-1, 14-18 November 2016, Camp Blanding, FL**
 - Experimentation Focus: Night Vision/Electro Optics and Advanced Sniper Rifle Military Utility Assessment (MUA)
- **Public Link:**
<http://www.socom.mil/sordac/Pages/ExpWithUS.aspx>
- **LinkedIn Group:**
[SOCOM Technical Experimentation](#)

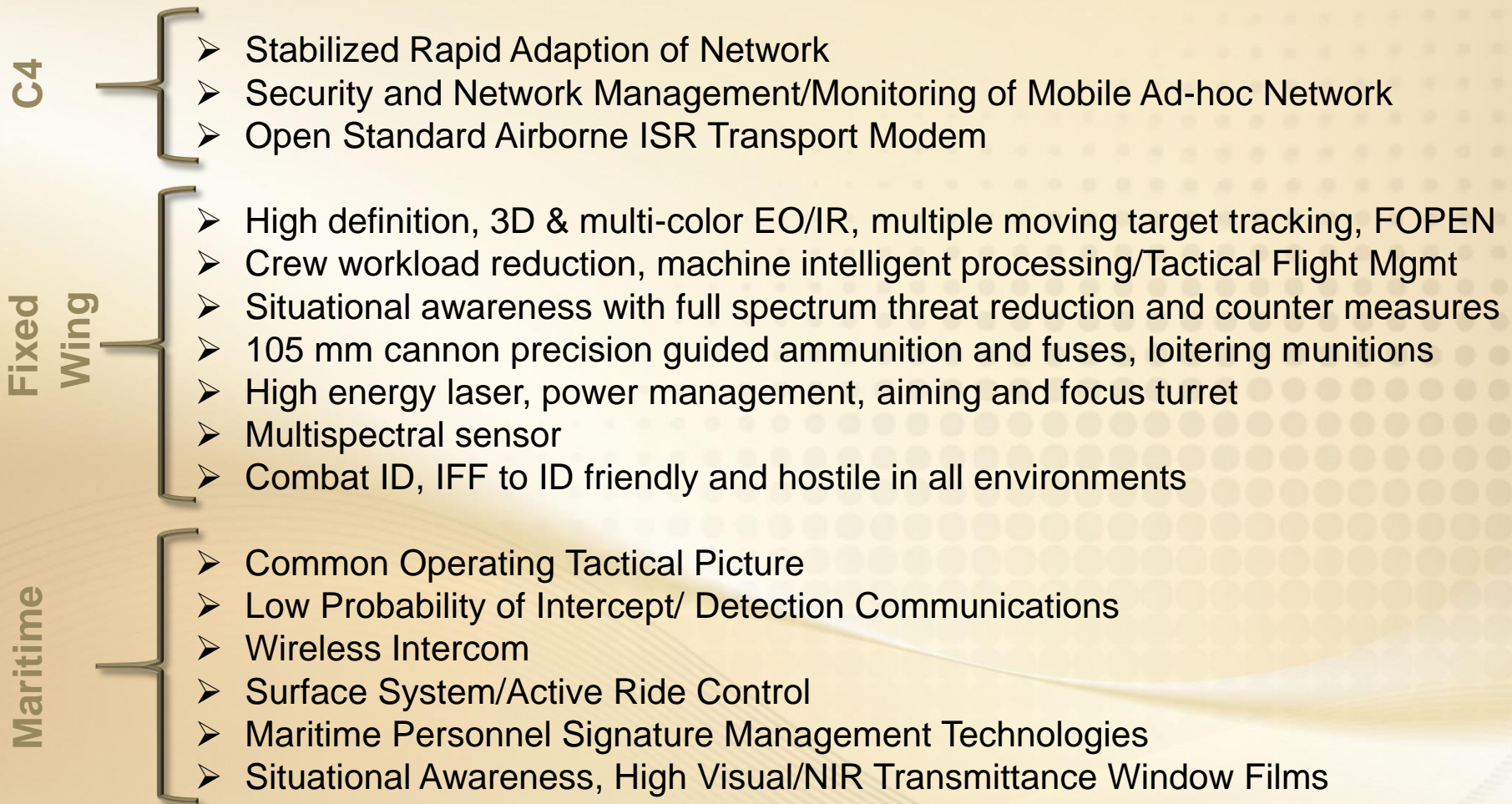


CRADA

Cooperative Research and Development Agreements

- **What...**
 - Provide a mechanism for technology transfer
 - A legal document, not a contract--No money can be exchanged
- **Why we use them...**
 - Leveraging non-federal entity RDT&E efforts
 - Support non-federal entity to expend IR&D to support cooperative development
 - Save time and money
 - Increase communications and focus technology development
- **SOCOM S&T CRADAs...**
 - **SOF AT&L-ST-15-01-XX Collaborator** (Blanket document – multiple agreements)
 - Single CRADA signed by Acquisition Executive—blanket applicability across SOF AT&L
 - Multiple work plans signed by Program Executive Officers or Directors—agreement with company on specific technology project and associated government support

Enduring Technology Needs (PEO Tech Insertion Roadmaps) 1 of 2



Enduring Technology Needs

(PEO Tech Insertion Roadmaps) 2 of 2

Rotary
Wing

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

SRSE

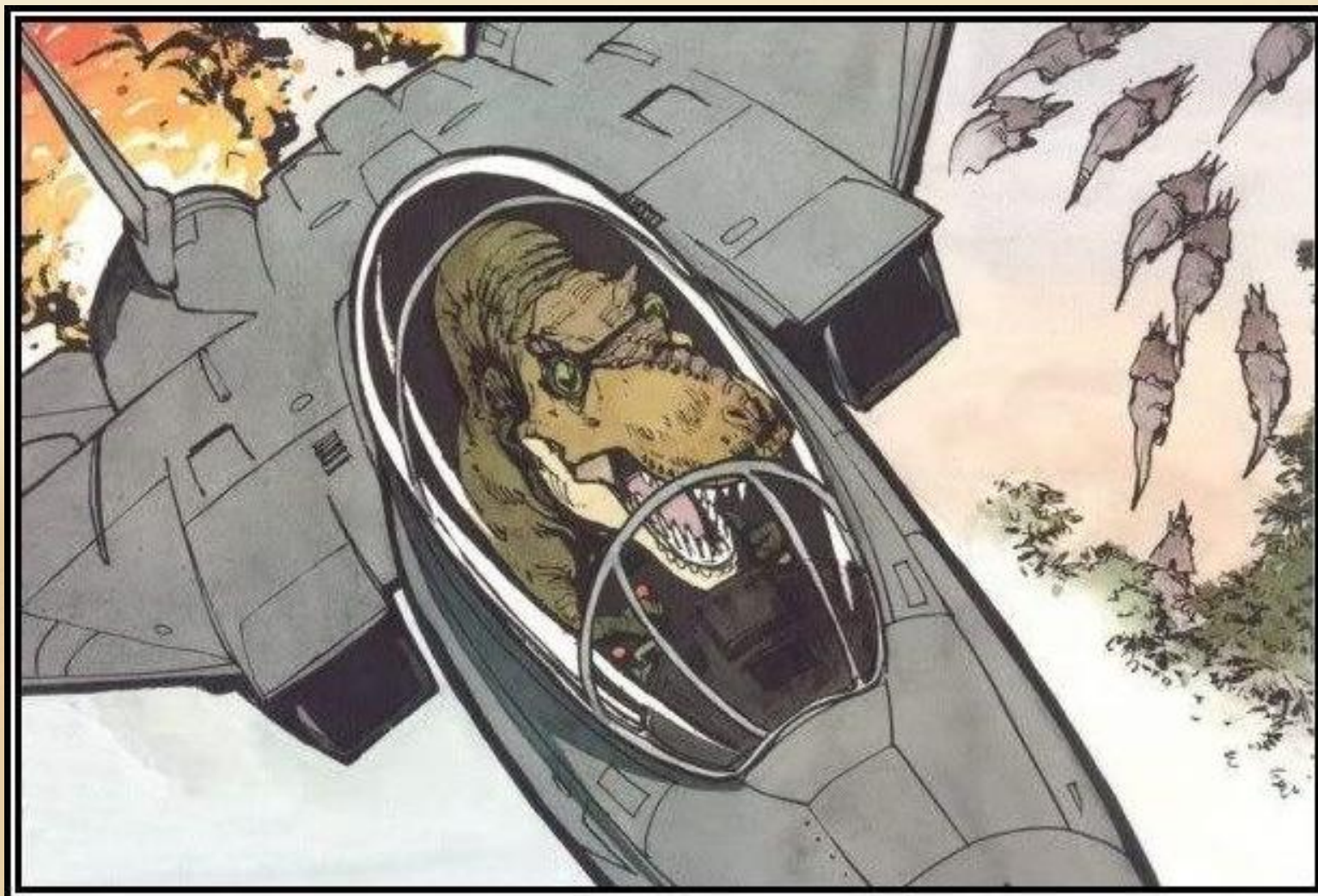
- Maritime Forensics Exploitation Capability
- Hidden Chamber/Material Detection
- Portable, Automated 3D Room/Building Mapping Device
- Stand-off/Remote Facial Recognition & Iris Capture
- Dustless Latent Print Collection
- Rapid Identification of Materials for Site Exploitation

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

Adapt or Die





QUESTIONS?

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