"In the middle of difficulty lies opportunity"

Albert Einstein

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS

Win • Transform • People

Ms. Lisa Sanders *Director, Science & Technology*

SCIENCE & TECHNOLOGY OVERVIEW

SOF AT&L

MISSION

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

VISION

Trusted Experts

PRINCIPLES

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

SOF AT&L-ST Vision

Discover, Enable, and Transition technologies to provide an asymmetric advantage for Special Operations Forces.
Hyper Enable the SOF Operator Now and in Future Environments.

SOF Priority Considerations

COMMANDER FOCUSED

NDS → CG VISION → CPG

DECISION CRITERIA

SOF-Peculiar?
Technical Maturity
Development Timeline/Cost
Niche vs. General Capability
Future Considerations

DECISION CRITERIA

TECH INSERTION | S&T COUNCIL | SOCOM IPL CALLS

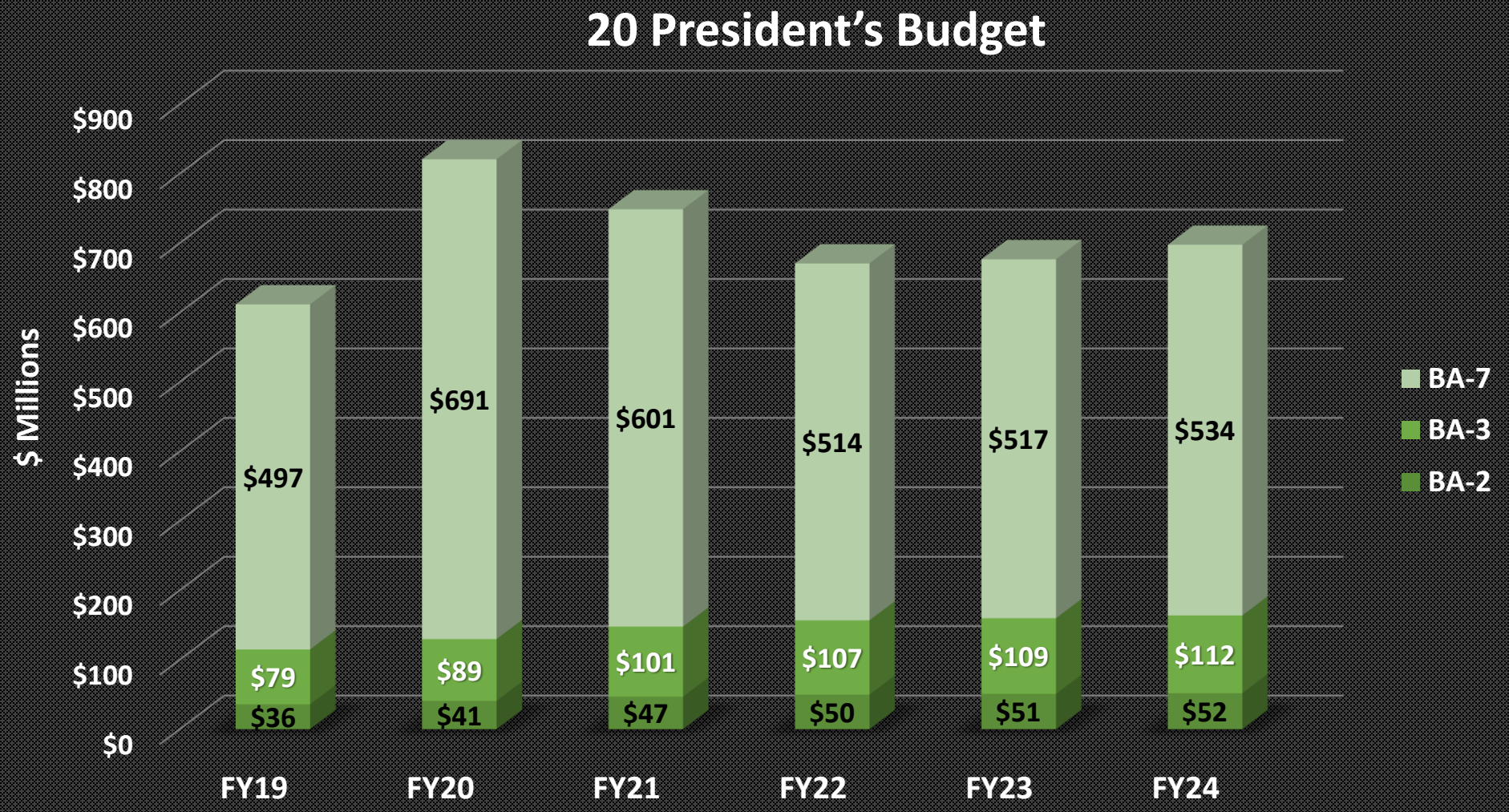
OPERATOR DRIVEN

S&T FOCUS Areas

for **MFP-11 6.2/6.3**

- Tactically Relevant Situational Awareness
- Communication and Navigation in all Environments
- Tailored Lethality
- Biotechnologies

SOF AT&L Funding (RDT&E)

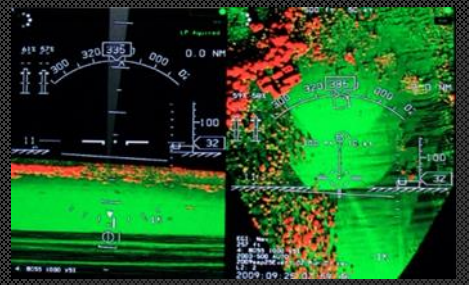


Does not include non MFP-11 in support of SOF

SOF Degraded Visual Environment

2012: Rapid Innovation Fund (RIF) / 3D-Landing Zone JCTD / Technical Experimentation (TE) Events

- Dust penetrating LIDAR Degraded Visual Environment (DVE) sensor for FLIR turret
- Multi-Function LIDAR to ensure safe rotorcraft operations in DVE (brownouts, etc.). Integrated 3D FLIR sensor.
- Ground demos of LIDAR in dust filled tent / Optical ID LIDAR demos



2013-2014: USSOCOM PEO-Rotary Wing (RW)

- DVE flight demos / DVE Program (DVEP) formally established

2017: USSOCOM PEO-RW

- DVE technical final solution selected - 10W LIDAR / Incorporated as part of the DVEP design solution

SOF Freeze Dried Plasma (FDP)

2011: USSOCOM Granted Authorization from ASD for Health Affairs to use French Freeze Dried Plasma (FDP) - Investigational New Drug

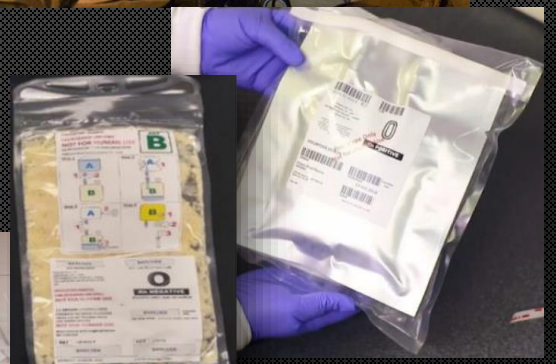
- Fielded to USASOC

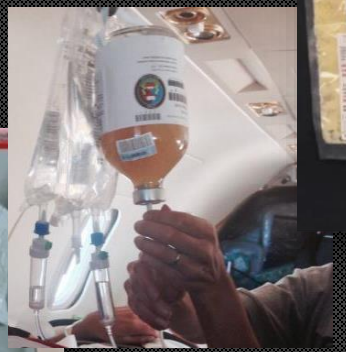
2012-2015: French FDP Fielding Expanded to all USSOCOM Components

2018: Emergency Use Authorization granted for French FDP from the Food and Drug Administration

2016-Present: USSOCOM continues to pursue a U.S. manufactured FDP system

- Enabling DoD Blood Centers to manufacture FDP in rugged lightweight container
- Partnered with the Air Force Medical Service / Defense Health Agency
- Working with another Partner Nation to manufacture FDP





S&T Futures Process

Results

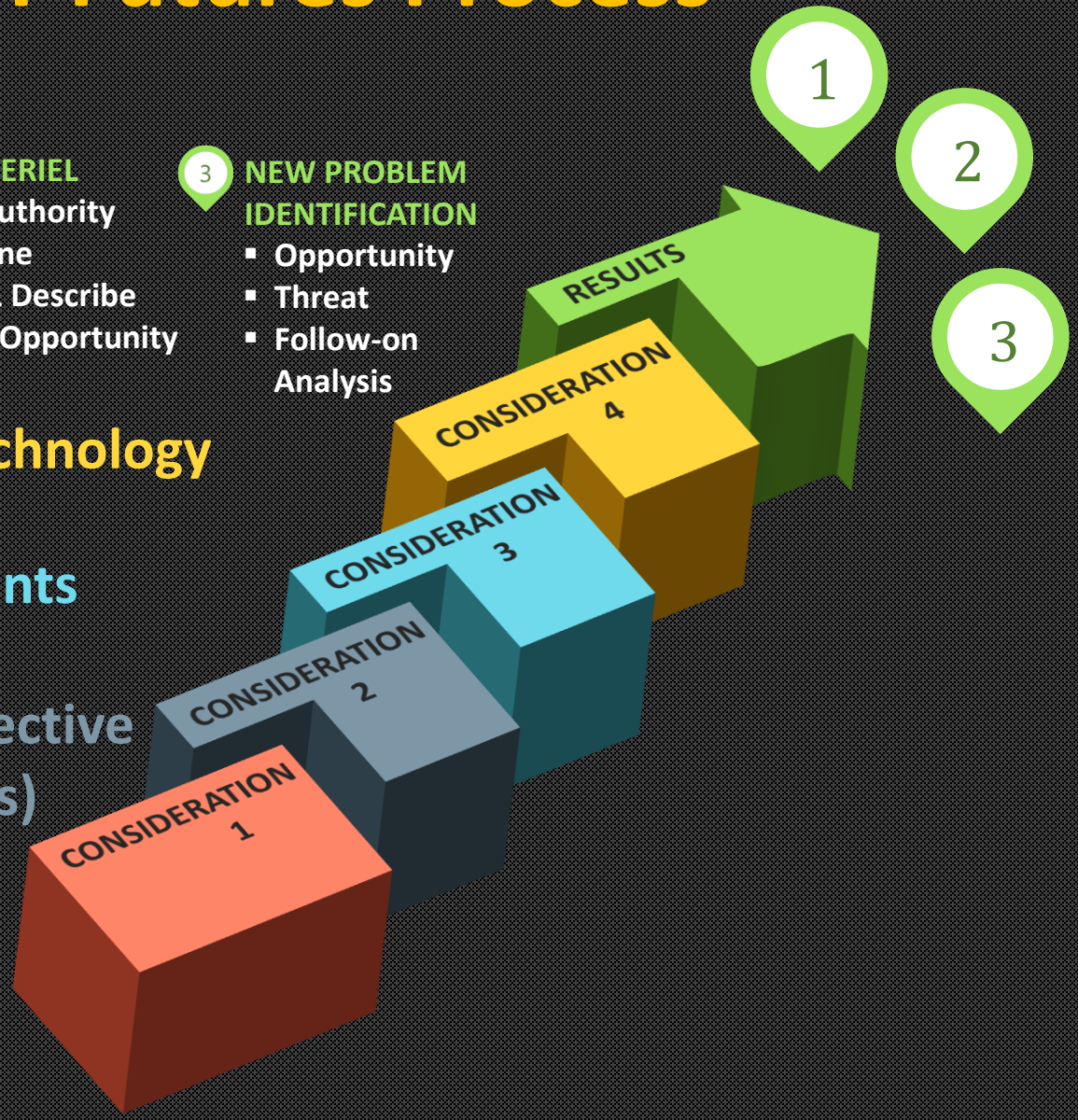
1. **MATERIEL APPROACHES**
   - Leap Ahead
   - Asymmetric
   - Divergent
2. **NON-MATERIEL**
   - Policy, Authority & Doctrine
   - Assess & Describe Impact/Opportunity
3. **NEW PROBLEM IDENTIFICATION**
   - Opportunity
   - Threat
   - Follow-on Analysis

Rapidly Changing Technology

Changing Environments

Varying Mission Objective (Measures of Success)

Changing Strategic Conditions



Multiple Engagement Paths

TILO

- Exposure
- Interest level/feedback
- Path to follow-on engagement

SOFWERX

- Capability Collaboration
- Rapid Prototyping
- Prize Challenges
- New markets for existing products
- Exposure/Feedback

S&T

- Cooperative R&D Agreements
- Experimentation opportunities
- SBIR/Broad Agency Announcements
- Commercial Solutions Opening

PEO/DIRs

- Cooperative R&D Agreements
- Upcoming Opportunities
- Contracts
- SOF to Service Transitions

USERS

- Use cases/needs
- Operator feedback
- Priorities

Tech Scouting Tool