



GLOBAL SOF VALUE *IN A WORLD ON FIRE*

CAPT Jared Wyrick

PROGRAM EXECUTIVE OFFICER, MARITIME

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



PROGRAM EXECUTIVE OFFICE MARITIME (M)

For NSW, it all starts with B.U.D.S.

- **B**attle Focused: Everything that we do in Maritime is aimed at making our operators more lethal and more survivable tomorrow than they were yesterday
- **U**nconventional: Our NSW forces explore any option that results in a successful mission; we must be willing to do that as well in our role
- **D**ecisive: Perfectionism is procrastination masquerading as quality control. We must recognize when good enough is still better than what we had, so let's move out
- **S**tandards: We must be uncompromising in our task of operating at the highest standards, our equipment goes to sea with lives at risk, our program's standards are what will ensure we are not the weak link in the operator's chain

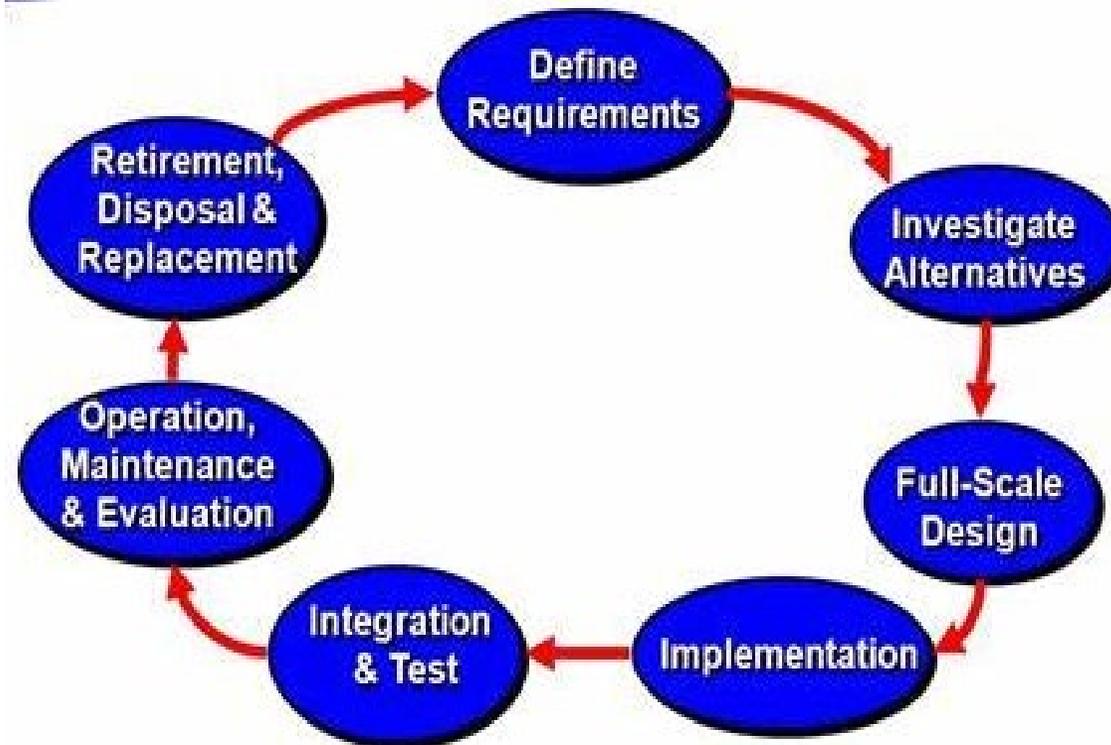
PROGRAM EXECUTIVE OFFICE MARITIME (M)

Challenges Drives Priorities

- Our resource constraints are greater than just our annual budget
- How to reduce the number of man hours to operate and maintain our portfolio
- If something comes on, we need to be aware that something may come off
- We are leaning into 'pay me now to save me later', how early investments into a program or system can lead to sustainment savings

WHY PEO MARITIME IS UNIQUE

- Typically, do not receive equipment from parent service
- Majority of platforms are Special Operations Peculiar (SO-p), built specifically to meet NSW requirements
- Full Life Cycle System Management

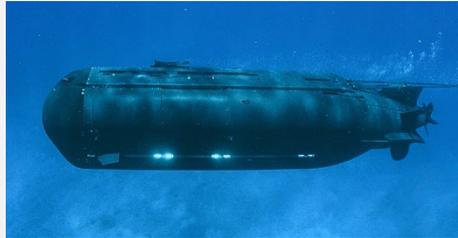


ORGANIZATIONAL CHART

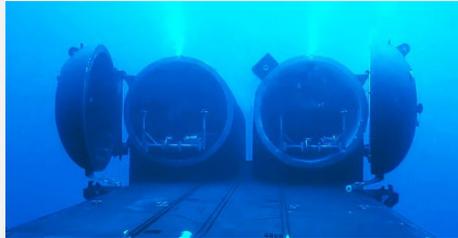


PROGRAM EXECUTIVE OFFICE MARITIME (M)

UNDERSEA SYSTEMS



SEAL Delivery Vehicle



Dry Deck Shelter



Dry Combat Submersible



Uncrewed Undersea Vehicle



SOF Combat Diving



Uncrewed Surface Vehicle

SURFACE SYSTEMS



Combatant Craft Assault



Combatant Craft Heavy



Special Operations Craft -Riverine



Combatant Craft Medium



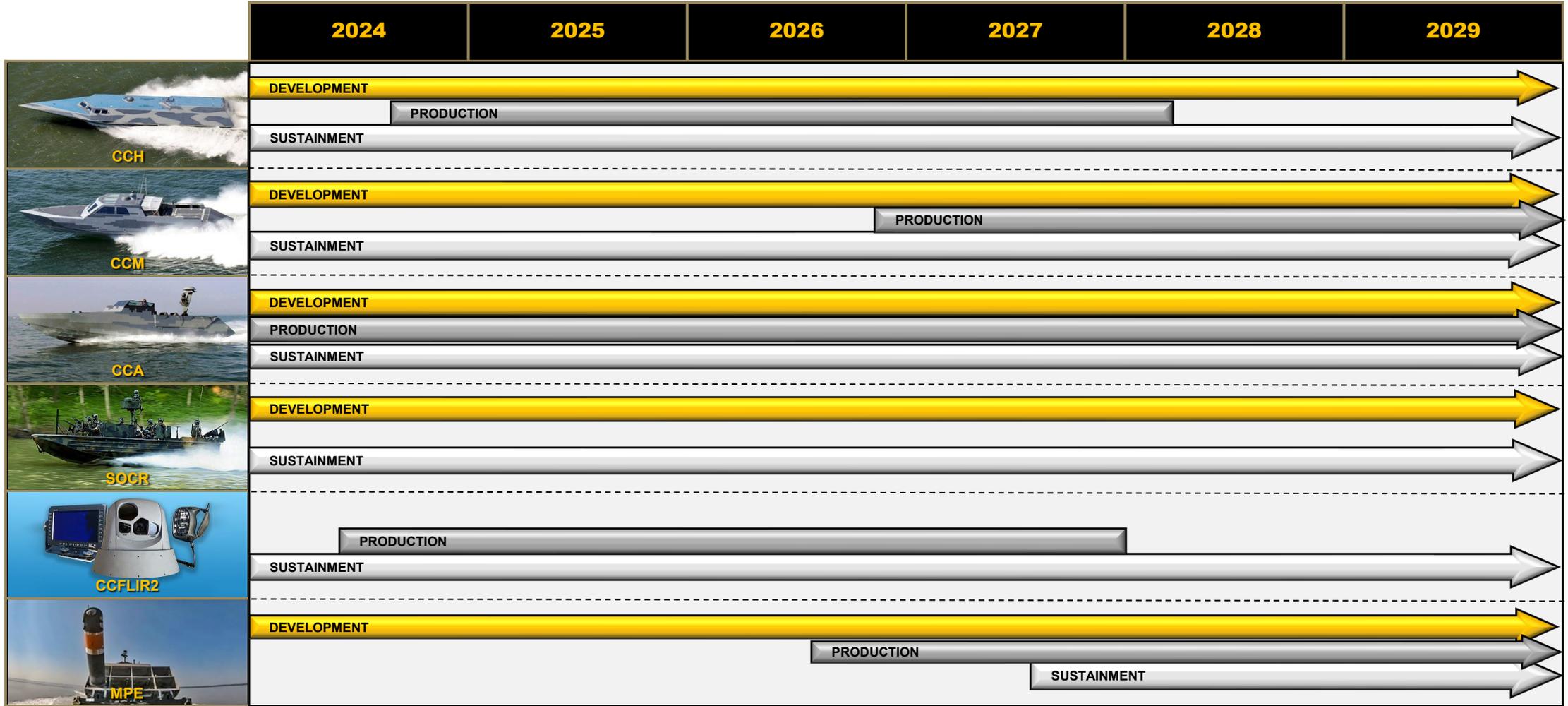
Next Gen CCFLIR2



Maritime Precision Engagement

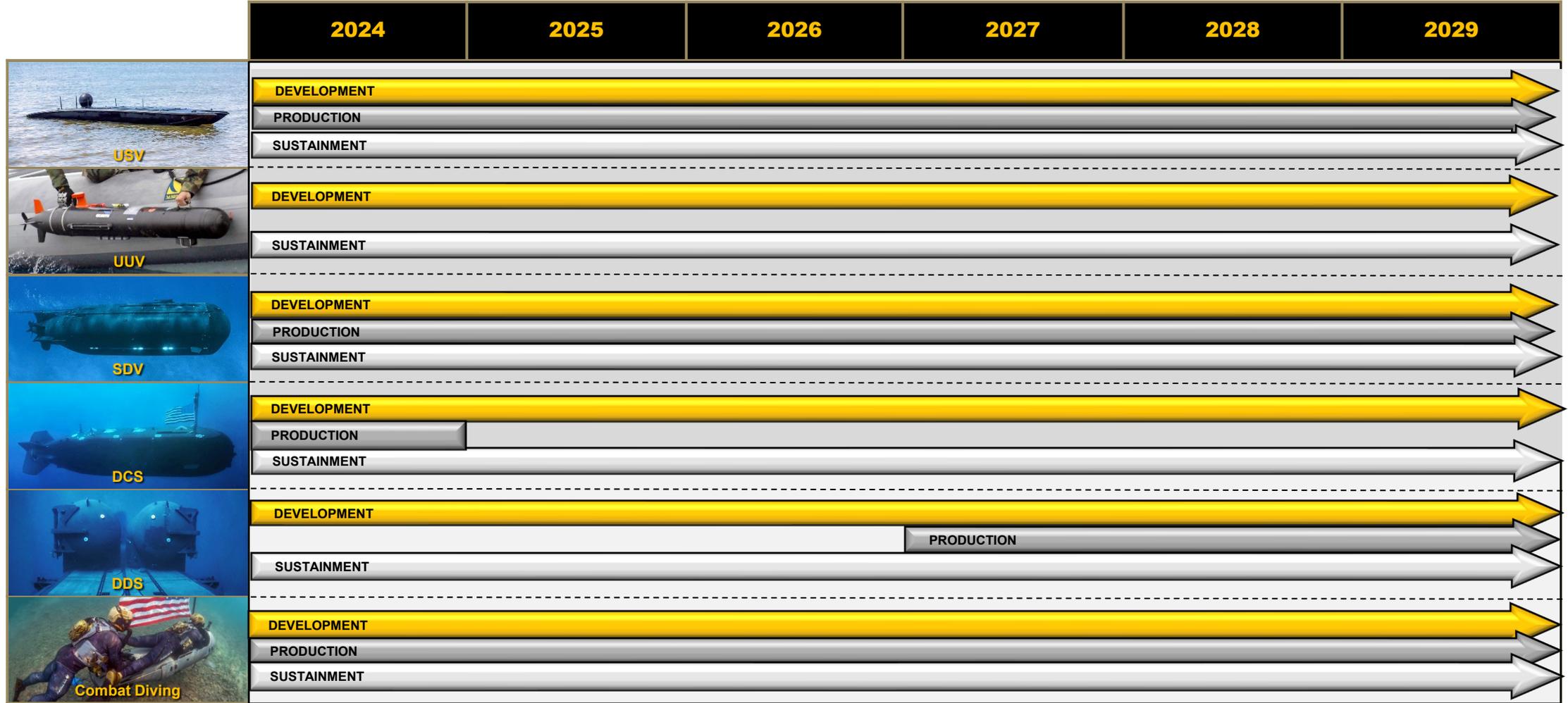
PEOPLE | WIN | TRANSFORM

NSW SURFACE ROADMAP



PEOPLE | WIN | TRANSFORM

NSW UNDERSEA/DIVING ROADMAP



PROGRAM EXECUTIVE OFFICE MARITIME (M)

- **Continue Fielding Enhanced Capability**

 - Expanding the Competitive Advantage across Maritime Mobility*

 - Combatant Craft/CCFLIR2
 - SDV MK 8 to SDV MK 11
 - Dry Deck Shelter Replacement
 - Uncrewed Systems Integration
 - Dry Combat Submersible
 - Maritime Precision Engagement
 - SOF Combat Diving

- **Areas of Interest**

 - Maritime Communications
 - Power & Energy
 - Fleet Interoperability; Joint Fires
 - Training and Operator Performance
 - Enhanced Navigation
 - Diver Thermal Protection
 - Diver Equipment Power
 - Sustainment
 - Survivability and Lethality
 - Artificial Intelligence Enabled Capabilities, i.e., smart maintenance support
 - Expeditionary Mobility for Undersea Systems

- **Reaching out to Industry Partners**

 - Requests for Proposal
 - Requests for Information
 - Broad Area Announcements
 - SOFWERX Collaboration Events
 - S&T Technical Experimentation Events
 - Industry Days

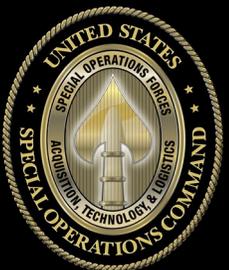


GLOBAL SOF VALUE *IN A WORLD ON FIRE*

PROGRAM MANAGER, SPECIAL OPERATIONS FORCES COMBAT DIVING

PORTFOLIO REVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



SOF COMBAT DIVING REQUIREMENT AREAS

• Maritime Environmental Protection

- Enhanced thermal regulation
 - Active and passive heating and cooling
 - Liquid circulating and Electrical Systems
- Full face mask
 - For use with closed-circuit rebreather
 - Incorporates voice communications

• Life Support Systems

- Excursion-capable O2 Underwater Breathing Apparatus (UBA)
- Helium-O2 Underwater Breathing Apparatus
- Underwater Breathing Apparatus 'Next'

• Diver Navigation

- Hand-held and collective capabilities
 - Situational awareness
 - Navigational accuracy (positioning)



• Diver Propulsion

- Collective, individual and hands-free capabilities
 - Compact size and reduced weight
 - Flexible delivery options (ship, submarine)
 - Commonality



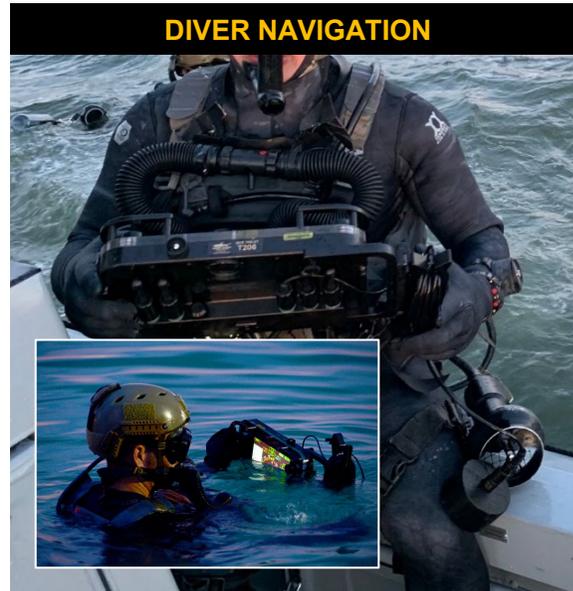
• Underwater Communication

- Diver-to-diver and diver-to-platform
- Acoustic and Optical
 - Text and data
 - Voice (air and HeO2)
 - Full motion video
- Signature Management



SOF COMBAT DIVING MAJOR INDUSTRY PARTNERS

- Advanced Diver Solutions,
Virginia Beach, VA
- Aqua Lung, Vista, CA
- Blueprint Subsea, Ulverston, UK
- Rini Technologies, Oviedo, FL
- Patriot3 Maritime,
Fredericksburg, VA
- Stidd Systems Inc.,
Greenport, NY
- SUEX SRL, Villorb, Italy
- Marine Tech SA, Krosno, Poland
- Ceebus Technologies,
Boulder, CO
- Nellis Engineering, Inc., West
Sacramento, CA
- Shark Marine Technologies, Inc.,
St. Catharines, Ontario, Canada





GLOBAL SOF VALUE *IN A WORLD ON FIRE*

PROGRAM MANAGER, NAVAL SPECIAL WARFARE

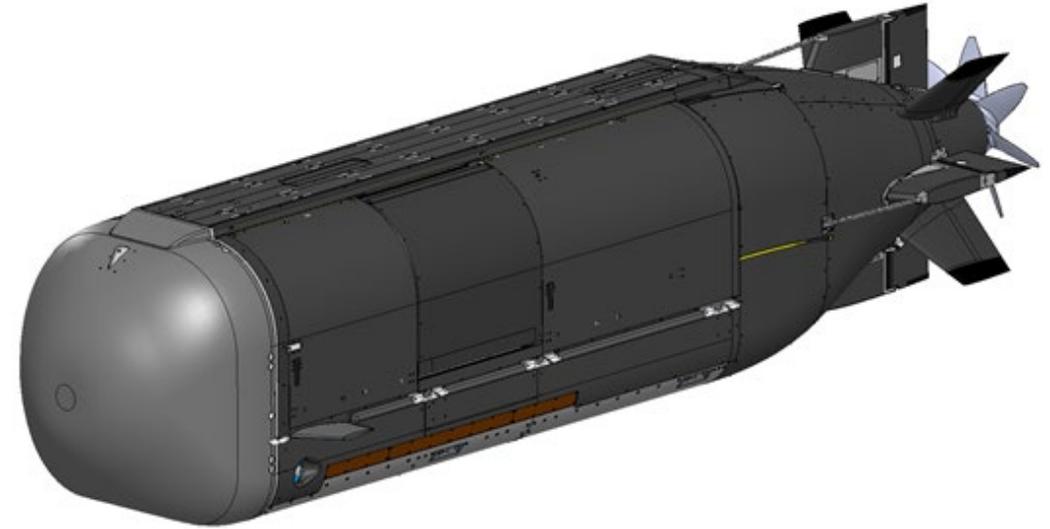
PORTFOLIO REVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



SEAL DELIVERY VEHICLE MK 11

- Next generation free-flooding wet combat manned submersible to transport Special Operations Forces (SOF) personnel and equipment for a variety of missions
- SDV MK 11 replaces the current SDV MK 8, Mod 1 vehicle



ACQUISITION STRATEGY

- Full and open competition
- FRP Contract awarded in 2011
- Follow-On Production Contract will be awarded in FY25*

PERIOD OF PERFORMANCE

- FY11 through FY20
- FY19 through FY24
- FY24 through FY29*
(Production & Sustainment)

MILESTONES – MK 11

- IOC: Q1 FY24
- FOC: Q1 FY27

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF),
(813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

CURRENT CONTRACT/OEM

- Teledyne Brown Engineering, Huntsville, AL

SEAL DELIVERY VEHICLE MK 11

- **SDV MK 11 Enhancements over SDV MK 8**

- Intel Core i7 Processors, Secure SSD, GB Ethernet Backbone
- Improved software and user interface
- Higher accuracy navigation
- Increased cargo and payload capacity
- Increased range

- **Project Status**

- All MK 11s delivered between FY18 & FY24



PEOPLE | WIN | TRANSFORM

SMALL CLASS UUV

- Small Class UUV enables access to high threat areas in the maritime domain, expands access and reach into littorals and reduces risk to personnel/manned platforms. Provides enhanced situational awareness and access & placement.
- MK 18 Mod 1 acquisition transitioned to Mod 3 Lionfish (REMUS 300) in Q4 FY23.
- Service Common Platform incorporating Special Operations-peculiar Modifications.



ACQUISITION STRATEGY

- Procure Service Common (MFP-2) man-portable UUV PoR and augment it with purpose built, modular, plug-and-play sensors/payloads to meet SOF Peculiar requirements (MFP-11).

PERIOD OF PERFORMANCE

- N/A

MILESTONES

- IOC: FY21
- FOC: FY33

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E FY26 through FY30
- PROC/OPN FY23 through FY30
- O&M/OMN FY23 through FY30

CURRENT CONTRACT/OEM

- Huntington Ingalls Industries, Pocasset, MA

SMALL CLASS USV

- Small Class USVs provide SOF maritime access in contested areas and the ability to deliver scalable effects for both short and long endurance missions.
- Commercial Off-the-Shelf (COTS) Small USVs incorporating Special Operations-peculiar Modifications.
- USVs will operate in concert with other NSW maritime platforms.



ACQUISITION STRATEGY

- Middle Tier Acquisition: Procure short and long endurance capable COTS Small USVs and augment with purpose built, modular, plug-and-play sensors/payloads to meet SOF Peculiar requirements (MFP-11).

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- N/A

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

MILESTONES

- FY27: Procure 13 Short Endurance and 12 Long Endurance USVs and exit MTA
- FY28: Enter MCA

CURRENT CONTRACT/OEM

- Multiple

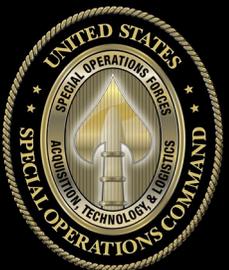


GLOBAL SOF VALUE *IN A WORLD ON FIRE*

PROGRAM MANAGER, UNDERSEA SPECIAL MISSION SYSTEMS

PORTFOLIO REVIEW

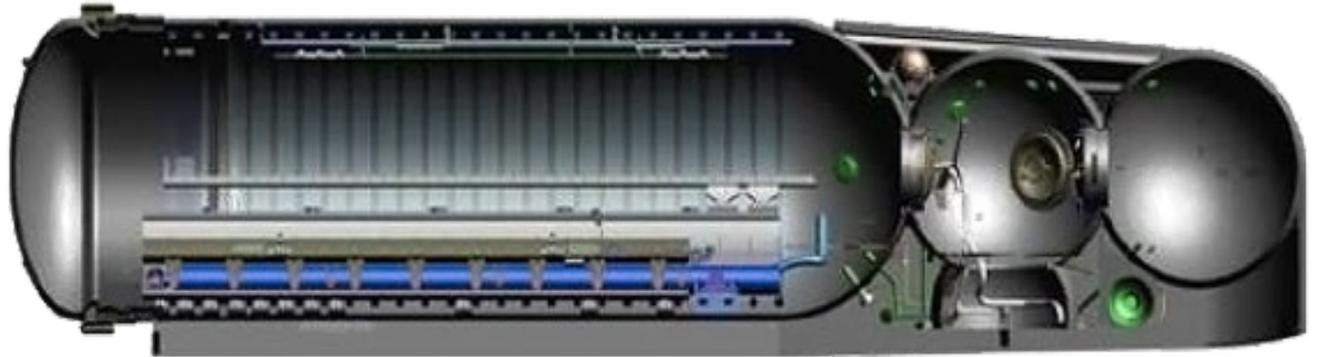
SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



PEOPLE | WIN | TRANSFORM

DRY DECK SHELTER

- The Dry Deck Shelter (DDS) is a certified diving system that attaches to modified submarines. The program provides material safety certification, maintenance, modernization (Field Changes) and minor modifications for the DDS.
- DDS provides a large interface to allow deployment and retrieval of SOF operators and equipment while remaining submerged and undetected.
- Maintenance and modernization contract to include Restricted Availabilities (RAVs), Regular Overhauls (ROHs) and Field Changes.



ACQUISITION STRATEGY

- DDS Maintenance Contract (open competition)
- Contract awarded in 2018

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- FY18 through FY25

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

MILESTONES

- Continue to support Fleet Requirements

CURRENT CONTRACT/OEM

- Oceaneering International Inc. – Marine Services Division (OII-MSD)

Dry Deck Shelter Next Program

The next generation of Dry Deck Shelter (DDSNext) is a 21st Century Large Ocean Interface solution replacing the Legacy DDS, leveraging the strengths of both Legacy and Modified DDS to be compatible with the current and future VIRGINIA Class Submarines. The next generation SOF asset will be an optimized topside hangar, capable of launching wet manned submersible, large unmanned undersea vehicles, smaller UUVs/UAVs and other technology as required.

POTENTIAL KEY CAPABILITIES

- Wet manned submersible missions
- UUV missions including remote launch and recovery of the vehicle
- Surface launched UAV missions
- Mass Swimmer Lock Out missions involving the lock-out of personnel and equipment



Program Status

- The DDSNext Program Office was officially stood up in FY24 as part of the NAVSEA Undersea Special Mission Systems (PMS390) New Technologies Portfolio
- The DDSNext Program is executing a multi-year research and development phase focused on executing developmental studies to determine host platform limitation and potential concept designs while initiating a technology maturation program and investing in capability gaps

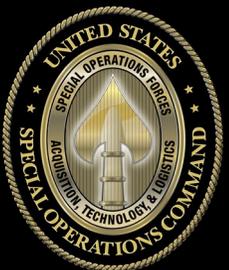


GLOBAL SOF VALUE *IN A WORLD ON FIRE*

PROGRAM MANAGER, UNDERSEA SYSTEMS

PORTFOLIO REVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



DRY COMBAT SUBMERSIBLE (DCS)

- DCS leverages commercial submersible technologies and international classing safety certification to provide an open architecture multi-mission platform with diverse mission sets



ACQUISITION STRATEGY

- Full and Open competition for production representative system with options for up to two additional systems

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- FY16 through FY24

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29

MILESTONES

- IOC: FY23
- FOC: FY24

CURRENT CONTRACT/OEM

- Lockheed Martin RMS (Prime)
- Submergence Group, LLC (Major Subcontractor)
- MSubs Ltd. (Major Subcontractor)

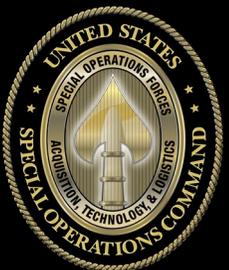


GLOBAL SOF VALUE *IN A WORLD ON FIRE*

PROGRAM MANAGER, SURFACE SYSTEMS

PORTFOLIO REVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



COMBATANT CRAFT ASSAULT (CCA)

- Medium range, maritime assault, interdiction, insertion and extraction platform
- Production contract for Capital Equipment Replacement Program
- Capability Development Document update increased quantity from 32 to 42 craft
- 42 of 42 craft fielded



ACQUISITION STRATEGY

- New production contract awarded FY23
- SOFSA sustainment task order
- Integration of C5ISR and CCFLIR2 systems

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- FY20 through FY24

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

MILESTONES

- IOC: FY14
- FOC: FY23

CURRENT CONTRACT/OEM

- US Marine Inc. (OEM)
- SOFSA/Lockheed Martin (CLS)

SPECIAL OPERATIONS CRAFT RIVERINE (SOCR)

- Aluminum hull riverine surface mobility platform to insert and extract SOF in and along river systems and able to operate in littoral region
- Operational Requirements Document (ORD) 15 Jan 1998
- 24 of 24 craft fielded, prior to FY23 Presidential Drawdown Authority



ACQUISITION STRATEGY

- SOFSA sustainment task order

PERIOD OF PERFORMANCE

- FY20 through FY24

MILESTONES

- IOC: FY13
- FOC: FY14

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E FY24 through FY29
- O&M FY24 through FY29

CURRENT CONTRACT/OEM

- US Marine Inc. (OEM)
- SOFSA/Lockheed Martin (CLS)

COMBATANT CRAFT HEAVY (CCH)

- Provides long range insertion and extraction capabilities
- 3 craft fielded



ACQUISITION STRATEGY

- Two technology demonstrators transferred from USN
- SOFSA sustainment task order

PERIOD OF PERFORMANCE

- TBD

MILESTONES

- IOC: FY14
- FOC: FY25

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- | | |
|---------|-------------------|
| • RDT&E | FY24 through FY29 |
| • PROC | FY24 through FY29 |
| • O&M | FY24 through FY29 |

CURRENT CONTRACT/OEM

- Vigor Works, LLC (CCH I-III OEM)
- SOFSA/Lockheed Martin (CLS)

COMBATANT CRAFT MEDIUM (CCM)

- Multi-role surface combatant craft with the primary mission of inserting and extracting SOF
- 31 of 30 craft fielded (Cong. add)
- Currently conducting market research and requirements analysis for "optimized" CCM Mk2 replacement craft
- Industry Day announcement will be forthcoming



ACQUISITION STRATEGY

- Conducting initial planning for CCM Mk2

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- CCM Mk1 production complete; in sustainment
- CCM Mk2 development and fielding FY25 through FY28

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

MILESTONES

- Current focus: technology insertion, performance enhancements, and improved maintainability
- Future initiative: CCM Mk2 development

CURRENT CONTRACT/OEM

- Vigor Works, LLC (OEM)
- SOFSA/Lockheed Martin (CLS)

COMBATANT CRAFT FORWARD LOOKING INFRARED (CCFLIR)

- Provides SOF with a multi-sensor, electro-optic system that improves ability to detect, recognize, identify, range, track, and highlight objects of interest in a maritime environment
- 58 delivered
- Integrated and deployed on CCH and CCM
- Initiated integration on CCA
- Capability Development Document update increased quantity to support larger integration



ACQUISITION STRATEGY

- Modified GOTS technology

PERIOD OF PERFORMANCE

- FY23 through FY27

MILESTONES

- IOC: 4QFY18
- Current FOC: 3QFY24 (Integrated on CCH & CCM)
- FOC with increased quantity for CCA: 2QFY27

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E None
- PROC FY24 through FY27
- O&M FY24 through FY29

CURRENT CONTRACT/OEM

- Teledyne FLIR (OEM)
- NSWC Crane – Sustainment

MARITIME PRECISION ENGAGEMENT (MPE)

- Standoff, loitering, man-in-the-loop weapons system deployed on Combatant Craft and capable of targeting individuals, groups, vehicles, and small oceangoing craft
- Program consists of combatant craft modifications, launcher systems, and munitions
- “A-Kit” prototype in fabrication
- Munition development



ACQUISITION STRATEGY

- Government design and test effort for craft integration and control system with contractor manufacturing support

PERIOD OF PERFORMANCE

- FY20 through FY24

MILESTONES

- Testing and delivery of munition
- Completion of development and integration
- Successful integrated test

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E FY24 through FY29
- PROC FY24 through FY29
- O&M FY24 through FY29

CURRENT CONTRACT/OEM

- OEM – SOFSA & Vigor
- NSWC Dahlgren – System Development
- NSWC Carderock – Craft Integration

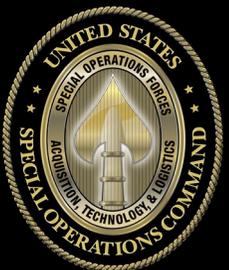


GLOBAL SOF VALUE *IN A WORLD ON FIRE*

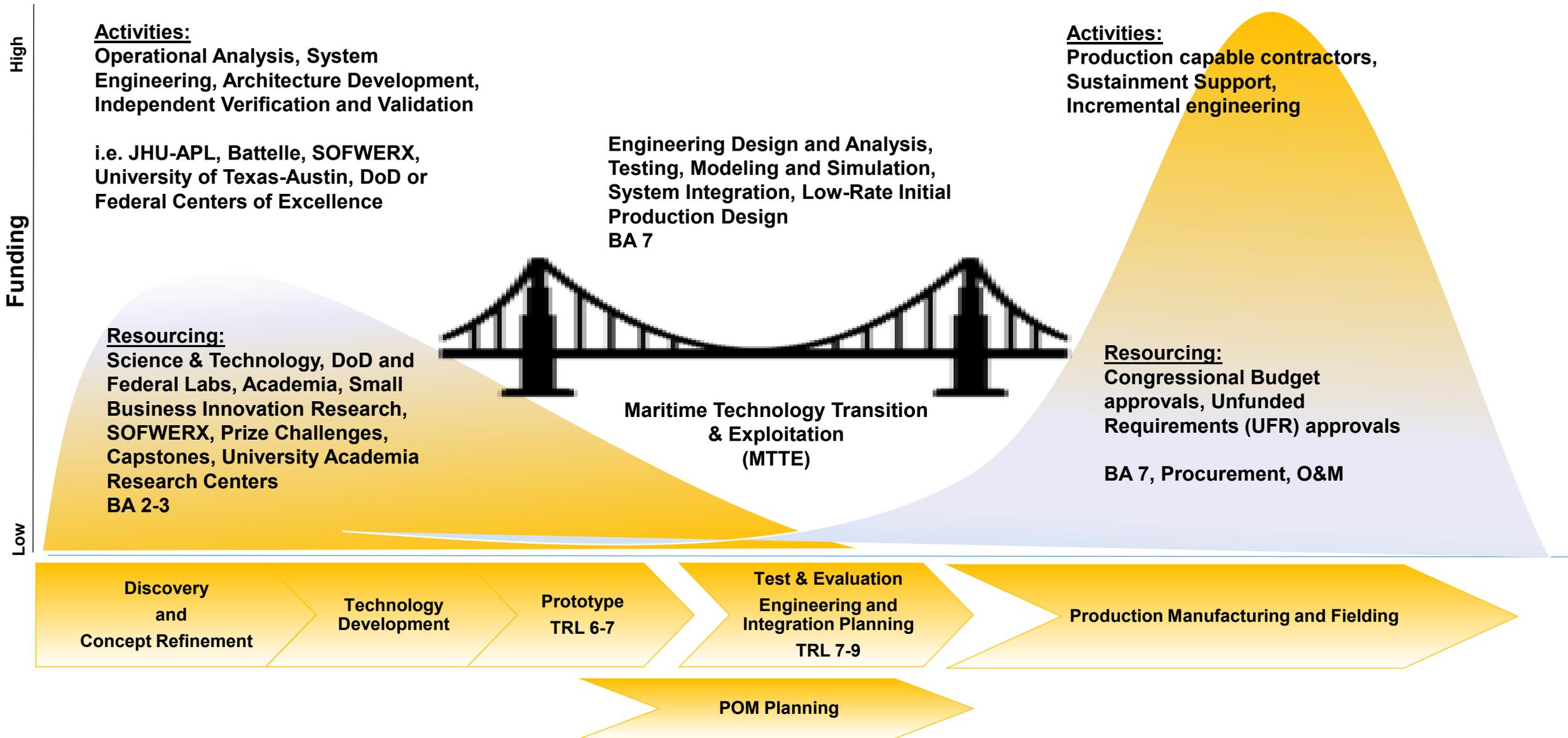
TECHNICAL DIRECTOR, MARITIME

PORTFOLIO REVIEW

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



MARITIME TECHNOLOGY OFFICE



S&T / R&D OPPORTUNITIES FOR INDUSTRY

- Starting in FY20 PEO-M requested significant additional RDT&E funding to build capability in the areas listed below
- PEO-M continues to seek opportunities for innovative technology development and to partner with industry



ACQUISITION STRATEGY

- Leverage both existing and new contracts. Use IDIQ / RFP / BAA / SBIR / STTR / OTA
- Open architectures – maximize opportunity for rapid integration of new technology

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

POTENTIAL FY24 ENGAGEMENT OPPORTUNITIES

- TE Events – SOF Combat Diving, Surface Systems
- SOCOM S&T BAA
- OTAs
- SOFWERX Engagements

FUNDING

- RDT&E FY24 through FY29
- PROC None
- O&M None

FY24-FY29 TECHNOLOGY INTEREST AREAS

- Interoperable Maritime Communications Architecture
- Improved C6ISR Capabilities
- Power & Energy
- Enhanced Survivability & Lethality
- Fleet Interoperability
- Expeditionary Mobility for Undersea Systems
- Artificial Intelligence Enabled Capabilities
- Enhanced Navigation
- Diver Technologies
- Training & Operator Performance

COMBATANT CRAFT MISSION EQUIPMENT (CCME)

- Provides advanced technologies to correct system deficiencies, improve asset life and augment mission requirements. Provides rapid response solutions to support combatant craft systems, sub-systems, and their evolving requirements
- Hosting & Integration of Advanced Sensors & Uncrewed Systems
- Assured/Alternative Position, Navigation & Timing
- Systems Resilience
- Extended Operations & Untethered Logistics



ACQUISITION STRATEGY

- Integrate high TRL technologies across the family of combatant craft through BAAs, SBIRs and existing government contracts

PERIOD OF PERFORMANCE

- Varies per task

MILESTONES

- Varies per task

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

FUNDING

- RDT&E FY24 through FY29
- PROC None
- O&M None

CURRENT CONTRACT/OEM

- Multiple Government and Industry Partners

UNDERSEA CRAFT MISSION EQUIPMENT (UCME)

- Provides advanced technologies to correct system deficiencies, improve asset life and augment mission requirements. Provides rapid response solutions to support undersea craft, diver systems, and sub-systems
- Advanced Sensors & Communications
- Undersea Navigation
- Uncrewed Systems
- Expeditionary Mobility



ACQUISITION STRATEGY

- Integrate high TRL technologies across the family of underwater craft and diver systems through existing or planned IDIQ, BOA, UARC, and FFRDC contracts, and non-FAR based agreements (OTAs) to include SOFWERX

POINT OF CONTACT

- USSOCOM SOF AT&L, Engage SOF (eSOF), (813) 826-1269, eSOF@socom.mil

PERIOD OF PERFORMANCE

- Varies per task

FUNDING

- RDT&E FY24 through FY29
- PROC None
- O&M None

MILESTONES

- Varies per task

CURRENT CONTRACT/OEM

- Naval Undersea Warfare Center – Newport
- UARCs
- Various Vendors

PEOPLE | WIN | TRANSFORM
OPPORTUNITIES

UNCLASSIFIED

- **Broad Agency Announcements (BAA) & Requests For Information (RFI)**
 - **USSOCOM Science & Technology (S&T) Directorate**
- **Office of the Secretary of Defense Programs**
 - **Small Business Innovation Research (SBIR)**
 - **Small Business Technology Transfer (STTR)**
 - **Foreign Comparative Test (FCT)**
- **Other Transaction Authorities**
 - **Undersea Technology Innovation Consortium (UTIC)**
- **Cooperative Research And Development Agreements (CRADAs)**



UNCLASSIFIED

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE

PEOPLE | WIN | TRANSFORM
OPPORTUNITIES

UNCLASSIFIED

- Collaborative efforts with Government Laboratories, University Affiliated Research Centers, Federally Funded Research & Development Centers, Land Grant Universities, etc.
- USSOCOM S&T Technical Experimentation Events
- USSOCOM Acquisition Agility Events – SOFWERX
- USSOCOM S&T Technology Scouting via Vulcan
 - www.vulcan-sof.com
- USSOCOM Engage SOF (eSOF)
 - eSOF@socom.mil



UNCLASSIFIED

DISTRIBUTION A: APPROVED FOR PUBLIC RELEASE



GLOBAL SOF VALUE *IN A WORLD ON FIRE*

QUESTIONS

SPECIAL OPERATIONS FORCES ACQUISITION, TECHNOLOGY, & LOGISTICS



PEOPLE | WIN | TRANSFORM
DOING BUSINESS WITH SOCOM

SMALL BUSINESS HELP

POC: Ashley Farrier
ashley.farrier@socom.mil
osbp@socom.mil
813.826.9475

SUBMITTING IDEAS AND CAPABILITIES**Engage SOF (eSOF) on Vulcan**

Pathway to present SOF relevant capabilities to USSOCOM
POC: Kimberly Carberry
kimberly.r.carberry.civ@socom.mil
eSOF@socom.mil
<https://www.Vulcan-SOF.com>

SOFWERX (Unclass, open forum partnering with industry to solve Warfighter problems)
<https://www.sofwerx.org>

TECHNICAL EXPERIMENTATION

<https://www.socom.mil/SOF-ATL/Pages/technical-experimentation.aspx>

