



# UNDERSEA WARFARE (USW) ELECTROMAGNETIC SYSTEMS DEPARTMENT

## CODE 34 OVERVIEW

Presented to:

National Contract Management Association (NCMA)

RI Industry Day



Distribution A – Approved for Public Release

# Department Product Areas



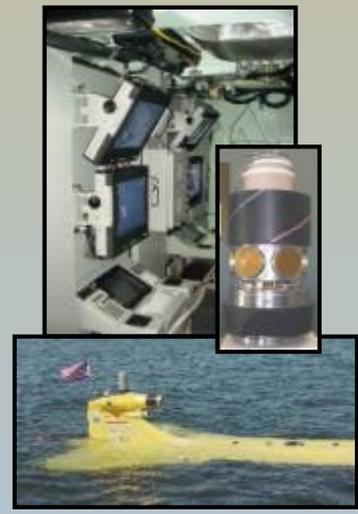
**Mission**  
 Serve as the Navy's principal activity for developing, acquiring, installing, modernizing and maintaining the world's most capable USW Electromagnetic systems including Antennas, Periscopes, Electronic Warfare, Communications, Electro-Optics Systems, and Electromagnetic Compatibility

**Vision**  
 Dominance of Electromagnetic Spectrum

## IMAGING



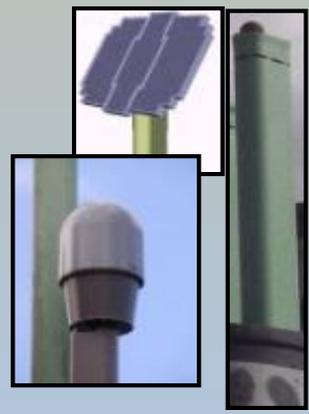
## ELECTRONIC WARFARE



## COMMUNICATIONS



## ANTENNAS



### Industry Partners:

- American Systems
- GDIT
- L3
- L3-KEO
- Linquest
- Lockheed Martin
- Indianapolis Microwave
- Northrup Grumman
- Progeny
- Purvis
- Rockwell Collins
- RDSI
- Raytheon
- RITE Solutions
- Serco
- SEACORP
- TCI

### Major Sponsors:

- NAVSEA PMS435, PMS450, PMS397
- NAVWAR PMW 170, 770, 160, 130
- COMSUBLANT/COMSUBPAC
- DARPA
- NAVAIR
- SOCOM
- NRL
- NSA
- N2/N6 and N97
- OGA
- ONR
- ONI

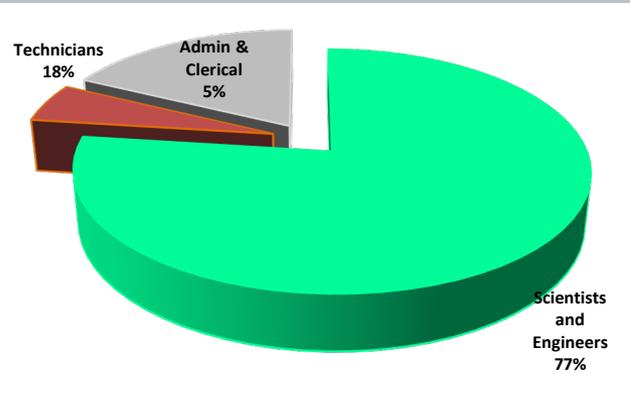
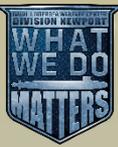
### Roles:

- TDA, ISEA, AEA, Design / Integration Agent
- National Maintenance

### Required Support:

- Programmatic Support
- Technical
- Engineering
- Cybersecurity

# Our People



**423 employees**

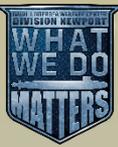
Admin Tech Specialist	Clerical	Scientists & Engineers	Scientists & Engineering Technician	Student	Tech Specialist	Total
22	1	324	44	5	27	423



Doctorate	Masters	Bachelors	Associates
9	104	243	14

**93% of the workforce are scientists, engineers and technicians with 113 advanced degrees**

# Major Facilities



**Overwater Arch**



**6-Axis Motion Table**



**Periscope Repair Facility**



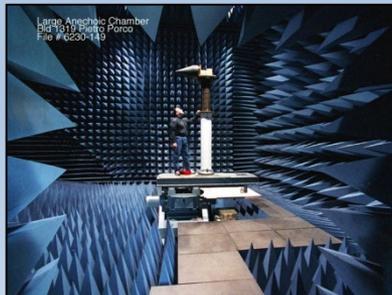
**Fishers Island**



**Rooftop Antenna Test Facility**



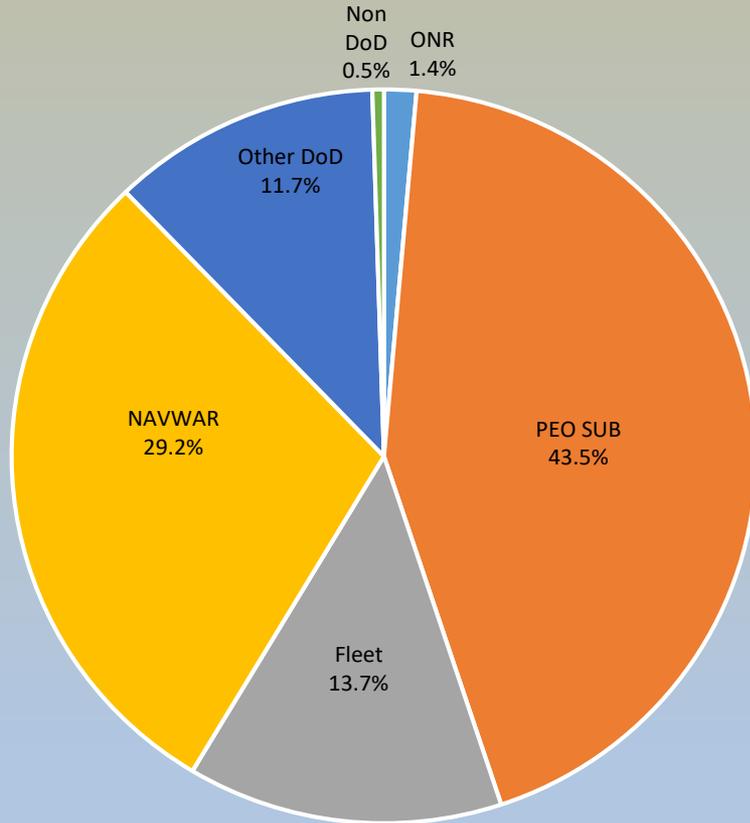
**Anechoic Chamber**



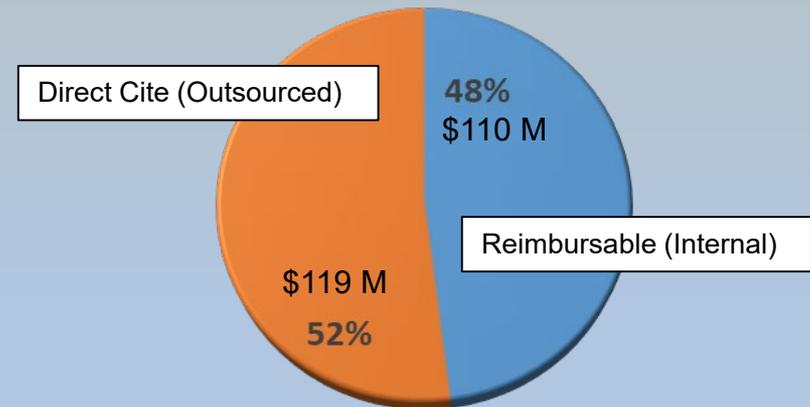
# Code 34 Business Profile



## Our FY23 Customers \$229M



- Code 34's Business Model includes outsourcing of > 50% of total direct program funding is annually
- Approximate 430 Contractors onsite/offsite support Code 34
  - 34% are Engineering Support
  - 40% are Technician Support
  - 26% are Administrative/Business/Clerical Support
- Contractor Labor Demand is projected to increase in FY23/FY24/FY25



***Code 34 maintains a strong business partnership with industry to provide best value to our customers***



# Future Outlook



- Continue to support the Fleet
- Respond to evolving threats
- Improve EW, Imaging and Comms performance IAW evolving threats
- Support rapid fielding of new capabilities / modernization
- Cyber Resilient



# UNDERSEA WARFARE (USW) ELECTROMAGNETIC SYSTEMS DEPARTMENT

## CODE 34 TDAA



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# TDAA Contract Discussions



- Portfolio is principally Program Services Centric
  - Primarily buy services
  - Contracts are aligned with Programs
  - Scopes are Program/Systems Engineering and Technical Services
  - Seaport NXG
- We do have several Department wide Services Contracts
  - Scopes are not Program/Systems specific
  - Broad use across Department and mostly non-Engineering
- We have a few 'self contained' Program/Project contracts
  - These are driven by higher classification levels and Fleet support
  - These are special projects and usually have significant GFP COE shipsets
- We have a number of IDIQ production, spares and repair contracts
  - Many of these are sole source to the OEM in support of our Repair Facilities
  - We are increasing our BPAs and IDIQs to provide BTP/TTS parts

**EVERYTHING PRESENTED IS PRELIMINARY!! THE RFIs AND RFPs IS WHAT THESE WILL BE!!**



# Ant/Img/EW Spares (New)



- Build to Print (BTP) and Test to Specification (TTS) for Level III Technical Data Package (TDP) spare parts for the Antenna, Imaging and Electronic Warfare Programs/Systems, over a thousand individual parts and list will be amended during ordering period.
- Functional Area, Multiple Award Contract (MAC), Competitive Delivery Orders (DO)
- 5yr Ordering Period
- Several Functional Areas:
  - Cables, Connectors, and Wiring Harnesses
  - Electrical & RF Components
  - Machined Parts
  - Composite Materials and Radomes
  - Electrical/Mechanical Assemblies
- Overall Ceiling projected at \$25M
- Build/Test at Contractor Facilities, testing at Govt Facilities only if required by RFQ/DO

# Ant/Img/EW Spares (New) cont.



- Unique Characteristics
  - List of Initial Parts, list will be augmented during Ordering Period
  - Example TDPs provided with MAC RFP (Scope of Functional Areas)
  - Capability Assessment as per Function Area Bid
  - Facility Clearance (Secret GENSER)
  
- New IDIQ Hardware Contract for mature (Level III TDP) items
  
- OCOI Clause may apply depending on TPD package history provided with RFQ/DO
  
- Expected RFP release FY23 QTR 01
  
- Summary: The purpose of this contract is to reduce SAPs for mature items which have Level III TDPs. Primarily for ISEA and AEA spares requirements.



# MilSatCom Eng & Tech Svcs (FO)



- Highly specialized MILSATCOM Engineering and Technical Services, many senior labor categories.
- Seaport NXG
- 5yr POP
- Based on limited historical competition this will likely be an unrestricted competitive RFP
- LOE 260,000hrs, limited ODC mostly for TDY
- Majority of work will be performed at contractor facility, TDY to various Govt facilities will be required.
- CPFF
- Unique Characteristics
  - Large number of highly specialized key personnel
  - Facility clearance (TS/SCI)



# MilSatCom Eng & Tech Svcs (FO) cont.



- Follow on to N00178-14-D-7801 / N66604-18-F-3009 (LinQuest)
  - Awarded Contract Solicitation Number: N66604-17-R-3057
- OCOI may result in vendor not being able to compete in DOD Satellite Systems production contracts
- Expected RFP release FY23 QTR 3
- Summary: Similar Scope and LOE as existing contract

# SP ASP Eng and Fleet Svcs (FO)



- Acoustics Special Projects (ASP) Engineering and Fleet Services. Develop, Upgrade and Maintain various Carry On Equipment (COE) shipsets, prepare SHIPALT/TEMPALTS, perform installations, crew training and AFLOAT technical support.
- Seaport NXG
- 5yr POP
- Sources Sought will be used to determine set-aside or unrestricted.
- LOE 240,000hrs, Heavy ODC (~100%) due to extensive GFP maintenance and TDY
- Majority of LOE to be performed at contractor facility
- CPFF
- Unique Characteristics
  - Facilities to develop, upgrade and maintain multiple types of COE shipsets
  - Facility Clearance TS/SCI
  - Significant ODCs to support GFP and Extensive TDY



# SP ASP Eng and Fleet Svcs (FO) cont.



- Follow-on to N00178-04-D-4109 / N66604-19-F-3001 (Purvis)
  - Solicitation Number: N66604-17-R-3063
- OCOI not likely
- Expected RFP release FY23 QTR 3
- Summary: Similar Scope and LOE as existing contract, supported systems have been modernized or replaced due to technology refresh and evolving Fleet needs.



# Img Periscope and Photonics Repair/Upgrade (SUBSAFE) (FO)



- SUBSAFE/NonSUBSAFE Periscope and Photonics Mast Repairs and upgrades. Shipyard and Fleet Support.
- Seaport NXG
- 5yr POP
- Based on limited historical competition this will likely be an unrestricted competitive RFP
- LOE 240,000hrs and ~10% ODCs (about 50/50 material/TDY)
- Majority of FTEs will be sited at the NUWCDIVNPT repair facility. OSRs sited at Groton and Norfolk
- CPFF and FFP
- Unique Characteristics
  - Key Personnel with experience in Periscope and Photonics repair
  - Facility Clearance (Secret GENSER)
  - SUBSAFE Craftsman



# Img Periscope and Photonics Repair/Upgrade (SUBSAFE) (FO)



- Follow on to N00178-04-D-4012 / N66604-18-F-3017 (GDIT)
  - Awarded Contract Solicitation Number: N66604-18-R-3004
- OCOI likely won't apply
- Expected RFP release FY23 QTR 01
- Summary: Scope and LOE are changing due to retirement of Periscopes and introduction of Photonics masts. Still largely SUBSAFE, but expect shift to nonSUBSAFE by the next follow-on.



# Dept PM/FM/IT/Admin Svcs (FO)



- Department wide Program Management, Financial Management, Information Technology and (new this time) Administrative (Secretarial) support
- Seaport NXG
- 5yr POP
- Likely to be a highly competitive small business set aside
- LOE 200,000hrs, ODCs <5% mostly TDY
- Historically most of the LOE has been on-site at NUWCDIVNPT. Expect this follow-on contract to be more of a even split between on-site and off-site as Govt offices spaces have become limited and remote work technology has been demonstrated productive for some of this type of work.
- CPFF



# Dept PM/FM/IT/Admin Svcs (FO) cont.



- Unique Characteristics
  - Expect at least one key person required per each functional area
  - Facility Clearances (Secret/GENSER)
  - Low ODCs
  
- Follow on to N00178-04-D-4136 / N66604-18-F-3021 (SRM)
  - Awarded Contract Solicitation Number: N66604-18-R-3000
  
- OCOI likely not required
  
- Expected RFP release FY23 QTR 4
  
- Summary: Some PM support will be moving away to Program specific Eng & Tech Svcs contracts. Expect growth in IT (Cyber) and Admin (Secretary) LOE increases.



# SubHDR APG Spares/Repairs (FO)



- Diagnostics and Repair of SubHDR Antenna Pedestal Group (APG) subsystems. Govt Repair Facility Support and Engineering and Technical Services.
- IDIQ
- 5yr Ordering Period
- Based on limited historical competition this will likely be an unrestricted competitive RFP
- Majority of the LOE will be at contractor site, some tasking at NUWC repair facilities
- Mix of FFP and CPFF; Repairs are typically FFP
- Unique Characteristics
  - Key personnel with experience in SubHDR APG diagnostics and repair
  - Supply Chain Management
  - Repair Facility Capability



# SubHDR APG Spares/Repairs (FO) cont.



- Follow on to N66604-19-D-K900 (SERCO)
  - Awarded Contract Solicitation Number: N66604-19-R-0355
- OCOI likely does not apply
- Expected RFP release FY23 QTR 3
- Summary: Similar Scope and LOE as existing contract



# I&EW Eng & Tech Svcs (FO)



- Engineering and Technical Services for the Imaging, Electronic Warfare (EW) programs. There will be added scope and LOE for RADAR and EW ATD programs/projects. Support across TDA, AEA and ISEA areas of responsibility.
- Seaport NXG
- 3yr POP
- Likely unrestricted based on limited past competition, will do a sources sought to determine approach
- LOE 900,00hrs, 30% ODC
- Variable mix of onsite and offsite locations TBD.
- CPFF
- Unique Characteristics
  - Multiple key personnel with experience in Imaging, EW and RADAR systems
  - Facility Clearance (TS/SCI)



# I&EW Eng & Tech Svcs (FO) cont.



- Follow on to N00178-19-D-8424 / N66604-20-F-3000 (Rite-Solutions)
  - Awarded Contract Solicitation Number: N66604-19-R-3500
- OCOI may apply to subsequent System Production Contracts
- Expected RFP release FY23 QTR 2



# Ant RFDACS Production/Spares (FO)



- Build to Print (BTP) and Test to Specification (TTS) for Level III Technical Data Package (TDP) for new shipsets and spare parts. Multiple ECPs anticipated during ordering period due to COTS obsolescence and Fleet requirement changes.
- 5yr ordering period
- Based on limited historical competition this will likely be an unrestricted competitive RFP.
- Ordering Ceiling \$65M
- Expect all work to be performed at contractor facilities
- FFP
- Unique Characteristics
  - Manufacturing capabilities
  - DMSMS capabilities
  - Multiple ECP/NORs agility during production run
  - Supply Chain Management experience



# Ant RFDACS Production/Spares (FO) cont.



- Follow on to N66604-20-D-R000 (SERCO)
  - Awarded Contract Solicitation Number: N66604-20-R-0339
- OCOI likely will not apply
- Expected RFP release FY23 QTR 4
- Summary: Similar Scope and LOE as existing contract, heavy COTS technology system is constantly undergoing tech insertion so list of parts will change.



# Dept ILS/CM/Material/Data Svcs (FO)



- Department Wide Product Support Management (PSM) contract for non-engineering Integrated Logistics Support, Configuration Management, Supply Support (Material) Management and Technical Data Management Services
- Seaport NXG
- 5yr POP
- Likely to be a highly competitive small business set aside
- LOE 305,000hrs, ODC <5% mostly TDY
- Mix of work locations with majority of FTEs at KTR-site
- CPFF
- Unique Characteristics
  - Likely one key person per functional area
  - Facility clearance (Secret GENSER)
  - Primarily labor with limited TDY ODCs



# Dept ILS/CM/Material/Data Svcs (FO) cont.



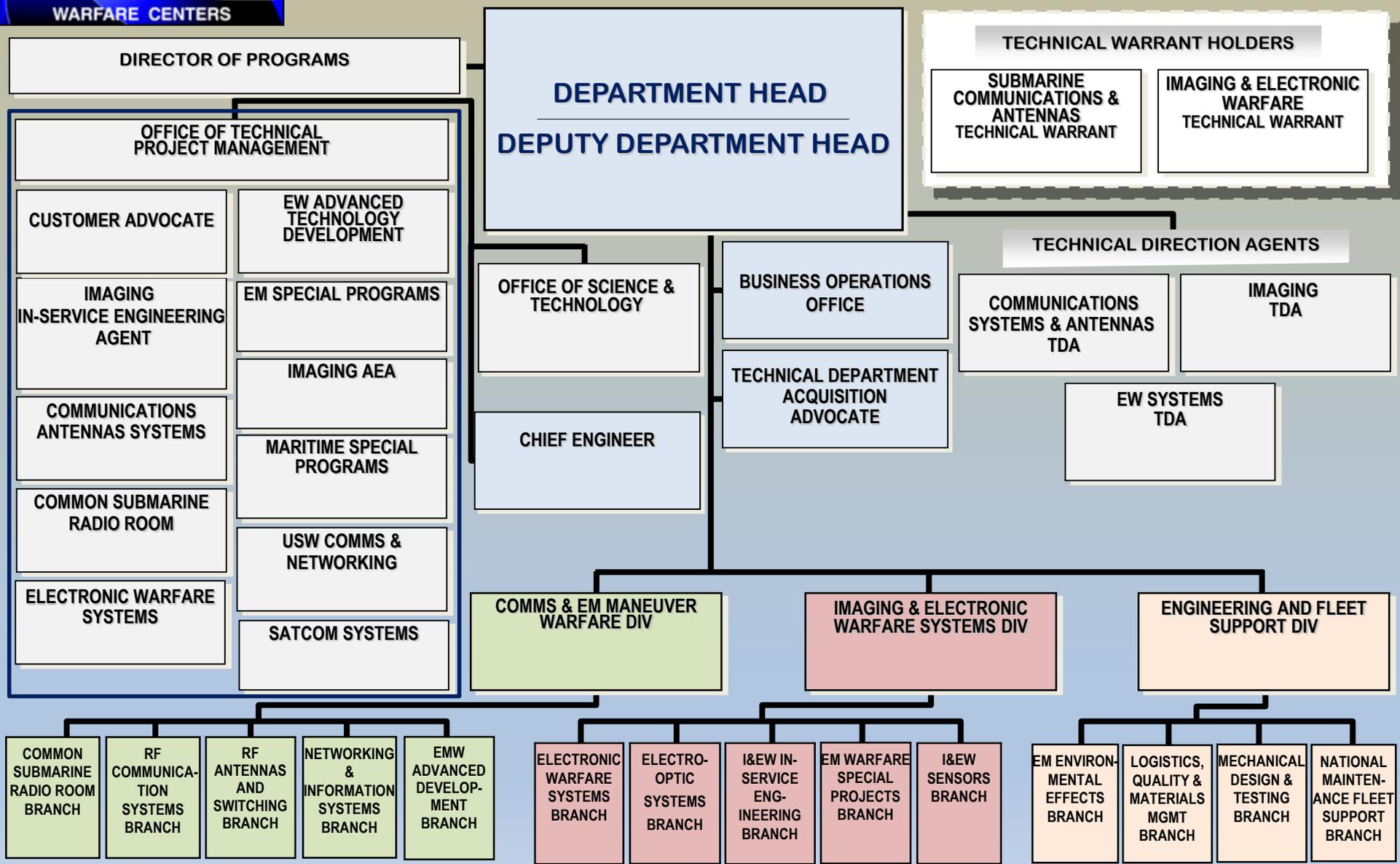
- Follow on to N00178-19-D-8321 / N66604-20-F-3008 (Precise)
  - Awarded Contract Solicitation Number: N66604-19-R-3512
- OCOI probably won't apply
- Expected RFP release FY23 QTR 2
- Summary: Expect some growth in LOE for Material and Data support as compared to current contract. Both these areas will have higher demand. PSM Engineering support is acquired via our program specific Eng and Tech services contracts.



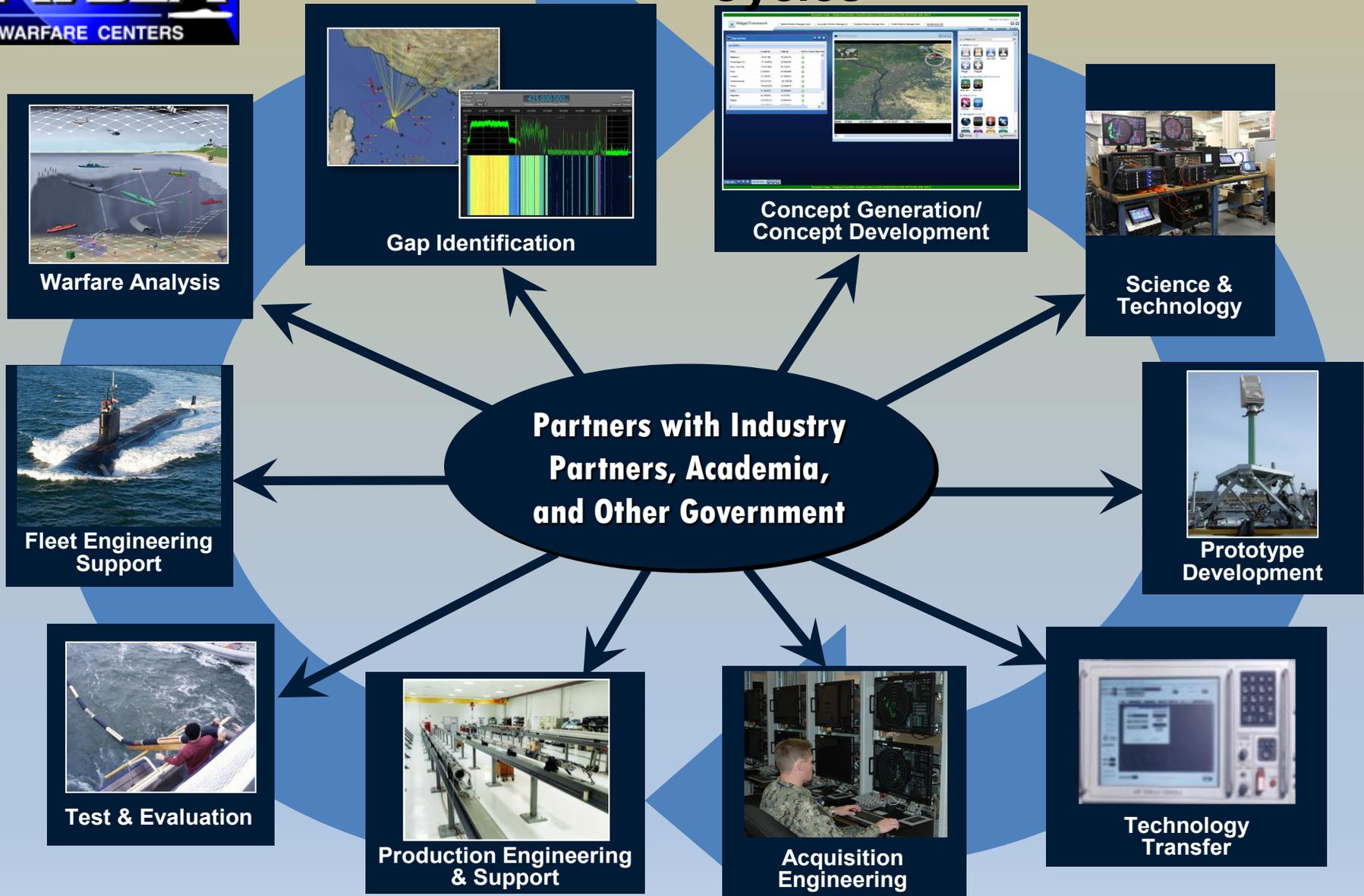
BACKUP



# USW Electromagnetic Systems Department



# Full Spectrum Activities Within Product Life Cycles



**Responsibilities Span Full Life Cycle for Undersea Platforms and Systems**