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Naval Information Warfare Center Atlantic

2.0 Contracts Competency and Industry Forecast Update

69th Strategic Business and Industry Outreach Initiative (SBIOI) Symposium

24 October 2024

Mr. Steve Harnig
NIWC Atlantic
2.0 Contracts Competency Director

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Overview

- Opening Remarks
- FY2024 Review
- Contract Strategy Update
- Contracts Industry Council Update
- Industry Forecast Report - Division Heads
- IWRP Update
- Questions

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FY24 Review

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FY24 NIWC Atlantic Contracts Summary (1 of 2)

Total Actions – 4,202

- 6.4% increase from FY23 (3,948 actions in FY23)

Total Obligated Funds – $2.806B

- ~$148.5M increase from FY23 ($2.646B obligated in FY23)

On-Time Performance

Production vs. PALT**	79.3%
Production vs. RAD	83.8%
Production vs. Planned / Revised	90.0%

***Large Contract, GIC Mod, & OT PIDs Excluded*

Competition Performance

LANT Competition %s	Achieved	Goal
FY24	83.90%	89.78%

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FY24 NIWC Atlantic Contracts Summary (2 of 2)

▼ PALT Performance

PALT Type	PID Count	Average Days - PID Acceptance to Award	Median Days - PID Acceptance to Award	Average Delta vs. Advertised PALT	Advertised PALT
Large Contract	22	196.8	116.5		
Service MAC >=$25M	20	381.8	381.0	115.8	266
Service MAC >=$10M, <$25M	8	227.8	237.0	47.8	180
Service MAC <$10M	34	108.9	99.5	-30.1	139
Service MAC FOE	8	59.4	57.5	-15.6	75
Supply MAC	539	74.1	71.0	-11.9	86
Single Award	134	68.3	62.5	8.3	60
SAP	95	74.5	71.0	-0.5	75
Modification - High Complex	970	21.1	16.0	-18.9	40
Modification - Low Complex	1,513	11.6	7.0	-8.4	20
Modification - Supply	188	17.8	11.0	-22.2	40
ECP Mod	4	46.8	56.0	-13.3	60
GIC Mod	406	63.3	54.5		
OT	46	46.3	23.5		
Prod Mod	6	18.3	16.0	-56.7	75
IWRP Mod	3	7.7	7.0	-67.3	75
REA/Claim	9	55.3	62.0		
Single Award (Pre-Priced)	105	26.2	21.0	-8.8	35

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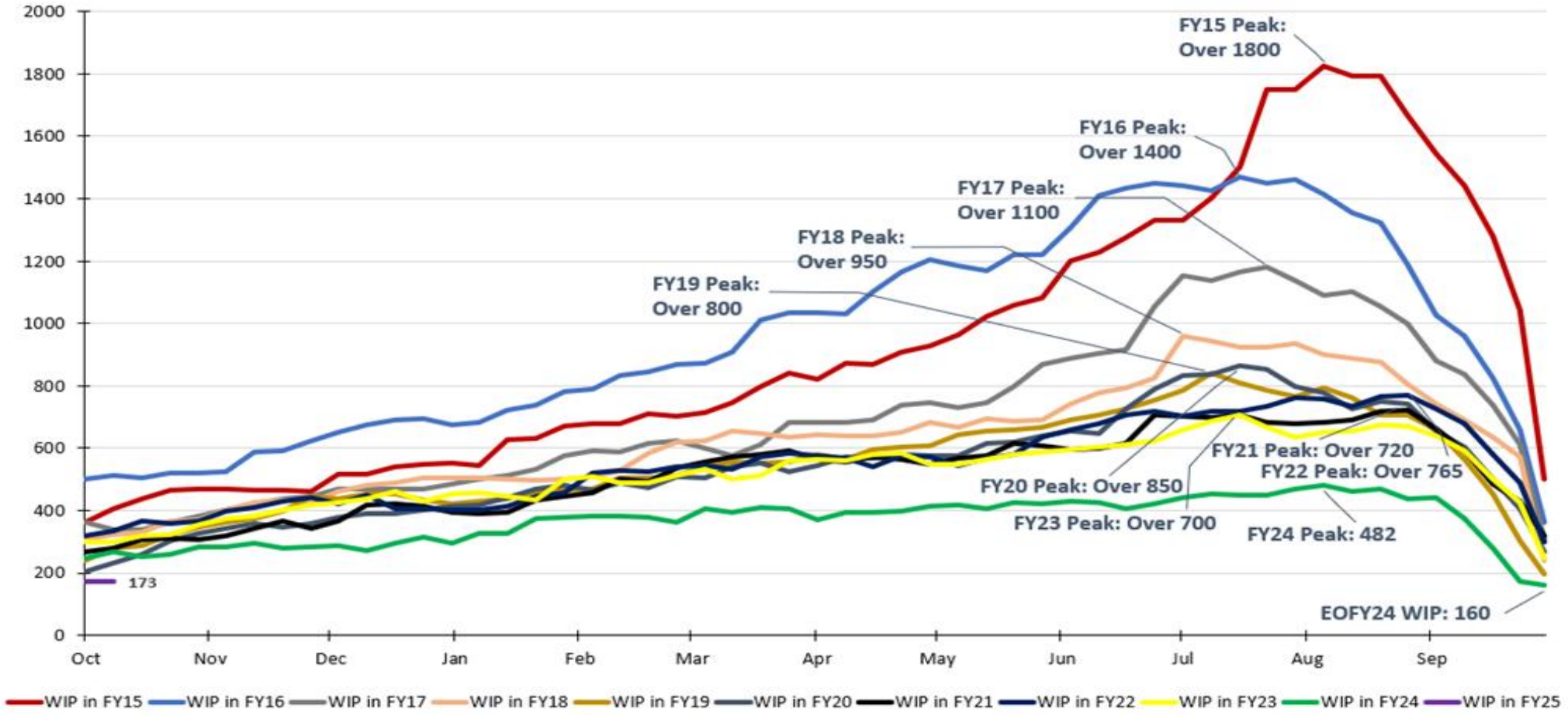
NIWC Atlantic Year-over-Year WIP



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Contract Strategy Update

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Managing Contract Strategy for the Future

- Quality Acquisition at the Speed of Need (LOE 2; Obj 2.2)
  - Get Real, Get Better
- SECNAV focus on Small Business Goals
- Wartime Acquisition Response Planning (WARP)
- Section 233 Authorities
- Contracting Office Staffing / Resources
- Sea Enterprise Global Installation Contract (GIC)
- Information Warfare Research Project (IWRP)

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Contracts Industry Council (CIC) Update

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Contracts Industry Council Updates

- Most recent session held on July 9, 2024
- Standard Topics:
  - Communication Challenges
  - Process and Tools
  - Barriers to Entry
- Ongoing/ad-hoc topics include Priced SLIN/working “at-risk” due to funding delays, Industry feedback on procurement evaluation criteria, prospect of reinvigoration of Technical Exchanges, general Industry engagement, and Small Business disaggregation
- Next CIC date TBD; potentially returning to meeting on-site at NIWC Atlantic facility

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Industry Forecast Report

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Fleet C4I and Readiness (PMW 700s)

Division 221

Mr. Todd Rollins

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Fleet C4I and Readiness Forecast

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Department Head C4ISR - FMS Air Integrations USCG Div Head	LSUBP00006-0122	>=$100M, <$250M	Seaport NxG	Feb-2025	UNRESTRICTED	Logistics acquisition and management support services to the TacMobile IPT for Naval Information Warfare Center Atlantic (NIWC Atlantic).
Fleet C4I & Readiness - Shore C4I Integration Division (PMW 790)	LSUBP00015-0002	>=$100M, <$250M	Seaport NxG	Nov-2024	SBSA	Provide engineering, integration and sustainment support for Tactical Shore IP networks and all systems under the ShoreNet CB-ISEA. Activities include technical, engineering, cyber, logistics and modernization support.

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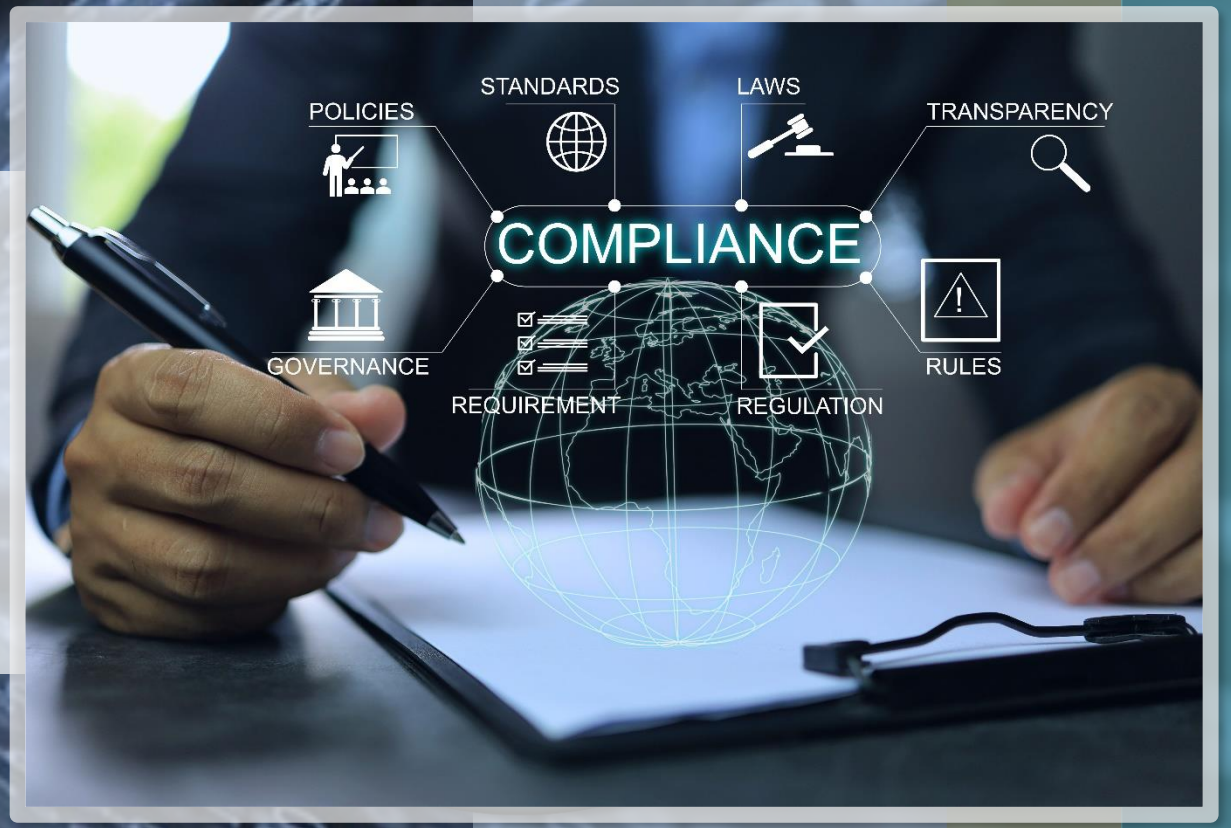
Expeditionary Warfare/ Enterprise Systems/ Non-Department

Division 222

Ms. Erica Smoak



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Expeditionary Warfare/Enterprise Systems/ Non-Department Forecast

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Expeditionary Warfare Department - Expeditionary C3 Solutions Division	LSUBP00004-0065	>=$10M, <$50M	Seaport NxG	Jan-2025	TBD	Advanced Technology Development (ATD) IPT Engineering Support
Expeditionary Warfare Department - Expeditionary C3 Solutions Division	LSUBP00004-0052	>=$100M, <$250M	Seaport NxG	Feb-2025	TBD	SOCS Satellite Deployable Node (SDN) Satellite Communications
Expeditionary Warfare Department - Expeditionary C3 Solutions Division	LSUBP00004-0128	>=$50M, <$100M	Seaport NxG	Feb-2025	TBD	SOCS SCAMPI Satellite Communications
Expeditionary Warfare Department - Expeditionary Intel Solutions Division	LSUBP00021-0106	>=$10M, <$50M	Seaport NxG	Dec-2024	TBD	Special Ops ISR Solutions (SOIS) Joint Threat Warning System (JTWS) Air
Expeditionary Warfare Department - Expeditionary Intel Solutions Division	LSUBP00021-0107	>=$10M, <$50M	Seaport NxG	Dec-2024	TBD	Special Ops ISR Solutions (SOIS) Maritime Combatant Craft

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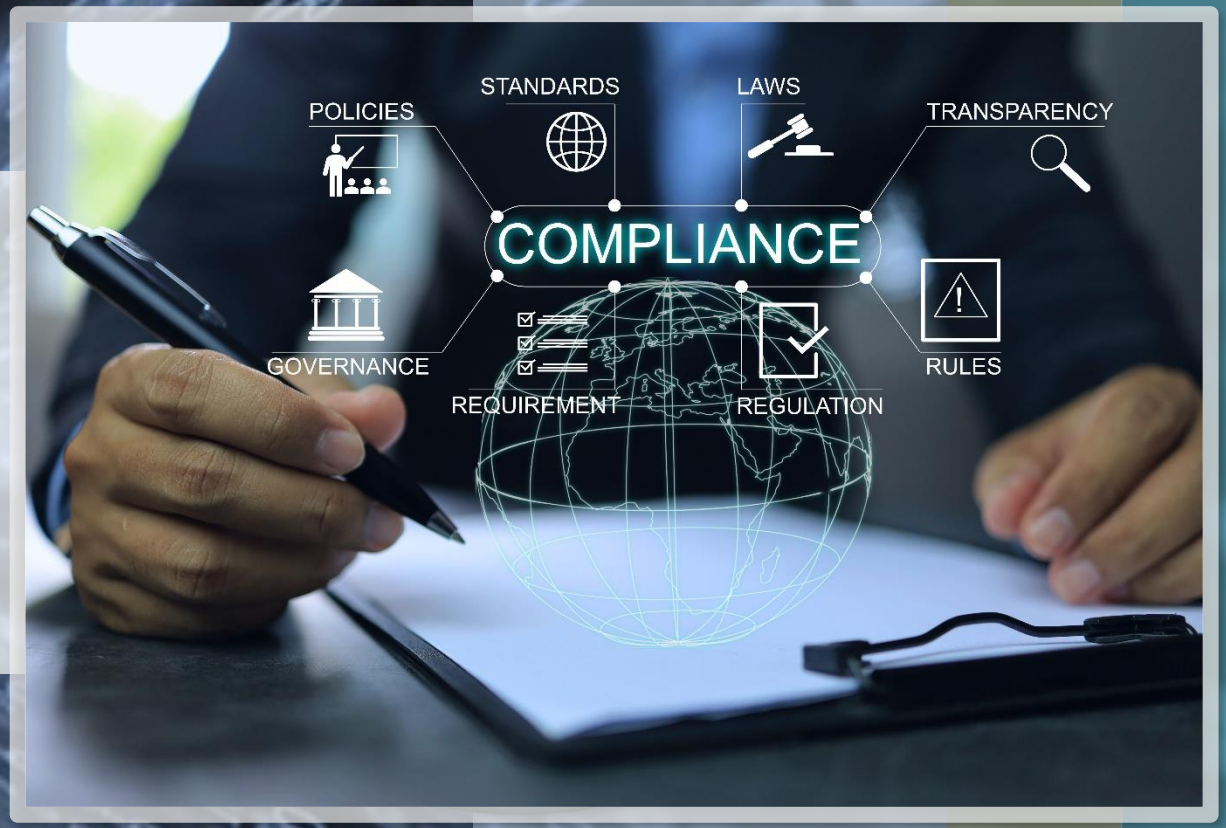
Shore C2ISR and Integration

Division 223

Mr. Adam Solivan



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Shore C2ISR and Integration Forecast (1 of 2)

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Department Head Shore SC2ISR and Integration - Defense Health Info Tech Div Head	LSUBP00009-0166	>=$100M, <$250M	Seaport NxG	Mar-2025	TBD	LIPTM00307, DHRE IPT, Defense Health Readiness Engineering Support II
Department Head Shore SC2ISR and Integration - Defense Health Info Tech Div Head	LSUBP00009-0033	>=$100M, <$250M	Seaport NxG	Dec-2024	SBSA	LIPTM00478, Cyber Security Service Provider Support II, Seaport
Dept Head Shore SC2ISR and Integration - Force Protection Solutions Div Head	LSUBP00010-0001	>=$50M, <$100M	TBD	Dec-2024	TBD	Emergent & Special Security Solutions
Dept Head Shore SC2ISR and Integration - Force Protection Solutions Div Head	LSUBP00010-0002	>=$100M, <$250M	TBD	Jan-2025	TBD	Global Security Solutions

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Shore C2ISR and Integration Forecast (2 of 2)

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Dept Head Shore SC2ISR and Integration - Force Protection Solutions Div Head	LSUBP00010-0061	>=$50M, <$100M	Seaport NxG	Nov-2024	UNRESTRICTED	IT-OT Cybersecurity Engineering Support

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C4I 100s/S&T/ Non-Department

Division 224

Ms. Sheela Casper

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C4I 100s

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
Department Head C4ISR - Battle Space Awareness Div Head	LSUBP00022-0154	>=$10M, <$50M	Seaport NxG	Nov-2024	UNRESTRICTED	DCGS-N Test & Evaluation and Cybersecurity Support - Seaport New TO (60 Months)
Department Head C4ISR - Battle Space Awareness Div Head	LSUBP00022-0003	>=$50M, <$100M	Seaport NxG	Dec-2024	SBSA	ISR/IO, Integrated Logistics Support (ILS) and Configuration Management (CM) - Seaport New TO (60mth)
Fleet C4I & Readiness - Navy Afloat Transport & Navigation Division (PMW 170)	LSUBP00016-0162	>=$10M, <$50M	Seaport NxG	Feb-2025	SBSA	Maritime Position, Navigation and Timing (PNT) Systems Cybersecurity, Software Testing, Digital Engineering and R&D Services (PNT ISEA IPT)
Fleet C4I & Readiness - Navy Afloat Transport & Navigation Division (PMW 170)	LSUBP00016-0100	>=$50M, <$100M	Seaport NxG	Dec-2024	SBSA	SATCOM CB-ISEA Support - Afloat Transport Systems (ATS IPT)
Fleet C4I & Readiness - Navy Afloat Transport & Navigation Division (PMW 170)	LSUBP00016-0028	>=$100M, <$250M	Seaport NxG	Mar-2025	TBD	Maritime Position, Navigation and Timing (PNT) Systems In-Service Engineering and Technical Support Services (PNT ISEA IPT), troubleshooting & testing

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7.0/Science and Technology

Department	PID Number	Est Value	Contract Vehicle	RFP Pending	SB Set Aside Status	General Description
7.0 Competency	LSUBP00049-0003	>=$50M, <$100M	Seaport NxG	Mar-2025	TBD	Engineering and Technical Support for 7.0 Science and Technology
7.0 Competency- DARPA IPT	LSUBP00049-0002	>=$50M, <$100M	Seaport NxG	Mar-2025	TBD	Systems engineering and technical assistant support to DARPA Information Innovation Office (I20) Program Office

INFORMATION WARFARE RESEARCH PROJECT
CONSORTIUM

IWRP Update

Giancarlo Dumenigo
Agreements Officer
Naval Information Warfare Center
(NIWC) Atlantic

IWRP 3 Other Transaction Consortium

- Award # N652362490003
- Quarterly Industry Day held October 22, 2024, at the Gaillard Center, Charleston, SC
- 15 Topics Shared (7 PSC, 1 RPP, 7 TCEs)

Topics Discussed 10/22/24 (1 of 7)

1. 24-LANT-1893 Next Generation Durable Application Platform PSC:

   Description: The government is seeking to develop an advanced next generation application platform in a simulated environment to demonstrate cutting-edge application hosting and resilience techniques within clustered environments that mimic tactical edge constraints. It will include private repositories, multiple application nodes for failover and automated reprovisioning, and a mock logical single source of truth. The environment will showcase composable microservices, stateless containers, and Zero Trust security, while rigorous testing will validate durability, failover capabilities, and data consistency. The simulated execution of the advanced next generation application platform aims to enhance operational reliability and reduce maintenance efforts for modern, adaptable IT systems in diverse deployment scenarios.

2. 24-LANT-2494 Decision Support as a Service Environment (DSaaSE) PSC:

   Description: NAVWAR is seeking to prototype a hybrid cloud/on-premise and cross-domain capable environment for data experts. The DSaaSE will be a modern self-service environment for data experts to perform full life-cycle data analysis, modeling, and AI/ML workflows. The solution will be a one-stop-shop Data Lake where hundreds of operational data types and sources are available for usage. The government intends to use this prototype to explore ways to establish capabilities that can empower the DCHE mission and operations that will enable data users' the ability to conduct and collaborate on decision support related tasks and share data products.

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Topics Discussed 10/22/24 (2 of 7)

IWRP INFORMATION WARFARE RESEARCH PROJECT CONSORTIUM

3. Atlantic - Strategic Laydown and Dispersal (SLD) Modernization Prototype PSC:

Description: SLD modernization is an effort to more efficiently and effectively track and evaluate actual and potential changes to the Navy laydown using technology enabled analysis and linkages to select Navy databases. The SLD Decision Support Tool will provide data management, traceability, ease of use, scalability, and an ability to identify and depict causal relationships, total ownership costs, and alternative laydowns based on correlation to key SLD criteria.

4. Pacific/NAVWAR HQ - PMW 790 C4I Arsenal Capability PSC:

Short Description: The concept is to develop a secret Cloud capability that can provision Cloud hardware, execute a software load of Infrastructure-as-Code (IaC) with platform Core IA and IP Services, install/test Tactical Battle Mission Aids, and deploy to customers. GovCloud IL 6, On-Prem Cloud IL 6, and portable Expeditionary Edge Cloud IL6. PMW 790 has an initial IaC and IP Services currently in use on government systems that may be used if suitable for platform or reconfigured to suit purpose. The initial prototype could be the build capability for the more mobile portable Edge Cloud for Expeditionary deployments on Shore or Afloat, where Cloud Edge hardware is provisioned, built, OS and Core IP and IA Services installed, with Mission Communications utilizing existing GFE and at least one functioning Battle Mission Aid is loaded. The shipping and receiving is to occur at a location with adequate facility security and accreditation. Solution will reside where a high-speed secret C2 network is accessible to download Application Arsenal and other Battle support solutions, and upload data packages at designated points in time, including the end of the systems deployment. Additional deliverables would include a cost estimate, with manpower and skill estimates for a fully functional single site IOC, and the initial design for the GOVCloud and On-Prem Cloud in IL6, and to implement at least 3 distributed Navy sites (locations based on GFI) at SECRET enclave to take this IOC to a follow-on FOC IWRP effort.

Topics Discussed 10/22/24 (3 of 7)

5. Atlantic - Active/Passive RFID Tech for Inventory Tracking PSC:

Description: Inventory tracking at NIWC Atlantic faces challenges such as time efficiencies and real-time visibility that can lead to discrepancies, delays and increased operational costs. Traditional methods like barcode scanning require direct line-of-sight and human intervention, that are labor-intensive. NIWC Atlantic is interested in pursuing active/passive RFID (Radio Frequency Identification) technologies enabling automated, real-time tracking of inventory without the need for direct line-of-sight or manual scanning. The command believes these technologies can be used to assist in real-time inventory tracking, logging equipment in an area during the performance of a book-to-floor inventory, and logging equipment as it enters/exits specific areas and facilities.

6. Atlantic - Tactical Edge Solutions (TES) Networked Edge Warfighting Terminal (NEWT) Body Worn Computer, Battery Power, Cross Domain Solution, and Mesh Communications PSC:

Short Description: Networked Edge Warfighting Terminal (NEWT) will be a body-worn system that aims to enable edge-to-enterprise information sharing across an array of different communication devices in military and tactical environments. NEWT's features will include augmented reality and biometric reporting, which can provide valuable insights and real-time feedback to commanders and operators. The goal of NEWT is to improve situational awareness, decision-making, and mission effectiveness for warfighters in the field by enabling secure, reliable, and efficient information sharing across different devices and networks.

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Topics Discussed 10/22/24 (4 of 7)

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7. Atlantic - Waterfront Management Application (WMA) project - Digital Twins PSC:

Description: Investigations of the 2020 USS Bonhomme Richard (BHR) fire and the follow-on Major Fires Review revealed instances where the lack of pier related fire and safety attributes resulted in challenges to and inhibited fire response efforts at Naval waterfronts. Per Vice Chief of Naval Operations (VNCO) direction, the Most Consequential Topic 9 (MCT-9) Bonhomme Richard Major Fires Review (BHR/MFR) working group is charged to identify a means and codified process that ensures ship repairs and maintenance are conducted at berths/dry-docks capable of providing or hosting safety and fire protection attributes to protect the ship.

The Waterfront Management Application (WMA) Digital Twin module will provide the Navy an enterprise level tool that supports waterfront planning to improve efficiency, reduce risks, increase communication, and allows for predictive planning.

The Digital Twin will provide two different capabilities for Naval Port Operations and leadership to make tactical and strategic data driven decisions.

Capability one will provide an interactive model (2D and 3D) of the various ports to allow for tactical (“live”) day to day operations such as ship scheduling, berthing, and logistics.

Capability two will provide strategic (long term) view of ports uses modeling and simulation of waterfront activities to inform leadership of Strategic Laydown and Dispersal (SLD), battle damage repair, GMRP, and infrastructure investment data and insights to ensure proper port planning is taking place to ensure the correct resources are planned for and data driven decisions are being made

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Topics Discussed 10/22/24 (5 of 7)

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8. Atlantic - Ka/UHF Link Effects Simulator for MUOS TCE:

Short Description: The MUOS program is looking to develop a Ka and UHF Link Effects Simulator (LES) that will be used in the MUOS Service Life Extension testbed. The UHF link effects simulator will implement a subset of 120 defined fading channel models, RF level control, RF noise injection, Doppler effects, and delay. The Ka Link effects simulator will implement rain fade simulations, Doppler simulations, delay, and noise injection. It is envisioned these simulators will be model based software and run on commodity hardware to allow for long term sustainment of the testbed and will interface to a digital network using an interface standards like Digital Intermediate Frequency Interoperability (DIFI) or VITA 49.

9. Atlantic - GPU based Satellite Demodulator for MUOS Ground Site TCE:

Description: The MUOS ground system currently uses an FPGA based technology to provide for the demodulation of the Ka satellite downlink to the MUOS ground system. The program is looking to implement these technologies in commodity-based hardware and software potentially with GPU acceleration to meet latency and timing requirements to allow for better sustainment and upgrading capability over FPGA hardware.

10. Atlantic - Modularized Data and AI readiness TCE:

Short Description: The Intelligence Community (IC) faces significant challenges in sharing and utilizing data across agencies and missions due to the lack of standardized metadata. Current metadata standards focus on security and dataset characteristics, but do not capture the necessary business and mission context to enable data centricity and AI readiness. . The implementation of modularized metadata standards is necessary to increase the usability of data across organizations and missions, and to enable the use of AI in the IC.

Topics Discussed 10/22/24 (6 of 7)

11. Atlantic - Triad of Autonomy Prize Challenge - Optimizing Autonomy: Mastering Search, Maritime Patterns, and Dataset Quality TCE:

Description: NIWC Atlantic is seeking solutions to various aspects and components of collaborative autonomy. Teams may pitch to one or more than one of the below topic areas:

- Dynamic Multi-Agent Search Challenge
- Autonomous Identification of Anomalous Maritime Patterns
- Dataset Sufficiency for Computer Vision Models

The challenge can be viewed at the following link: https://www.challenge.gov/?challenge=triad-of-autonomy

12. Atlantic - MECS Prize Challenge - Rapid Innovation at Sea: Achieving Maritime EMS Simulation Excellence in 24-36 Months TCE:

Short Description: “The Navy seeks to define a technical approach that would achieve a Maritime EMS Constructive Simulator (MECS) prototype minimum viable product (MVP) within 24-36 months of design/prototype start.”

The challenge can be viewed via the following link: https://www.challenge.gov/?challenge=maritime-ems-constructive-simulator-mecs

Topics Discussed 10/22/24 (7 of 7)

13. Check-In and Check-Out (CICO) Solution for NIWC Atlantic Personnel RPP:

    Description: This project is to provide enhancements to the SWAT Check-In and Check-Out applications in the Appian environment and implementing enhancements within the workflow. The objective is to build and to integrate these capabilities into the current applications managed within SWAT.

    The Scalable Workflow Automation Tool (SWAT) Check-In application serves as the provisioning system for onboarding and current Civilian, Military, and Contractor personnel. The Check-In application manages the input from employees within the Naval Information Warfare Center (NIWC) Atlantic via the Appian platform.

14. Artificial Intelligence (AI) Portfolio Optimization Challenge TCE:

    Description: Leverage generative AI to guide Navy/Marine Corps sustainment decisions

    Link to Challenge: https://www.challenge.gov/?challenge=artificial-intelligence-ai-portfolio-optimization

15. Secure Commercially-Based AI Environment for Real-World Naval Applications Challenge TCE:

    Description: Pioneer generative AI for non-experts

    Link to Challenge: https://www.challenge.gov/?challenge=creating-a-secure-commercially-based-ai-environment-for-real-world-naval-applications

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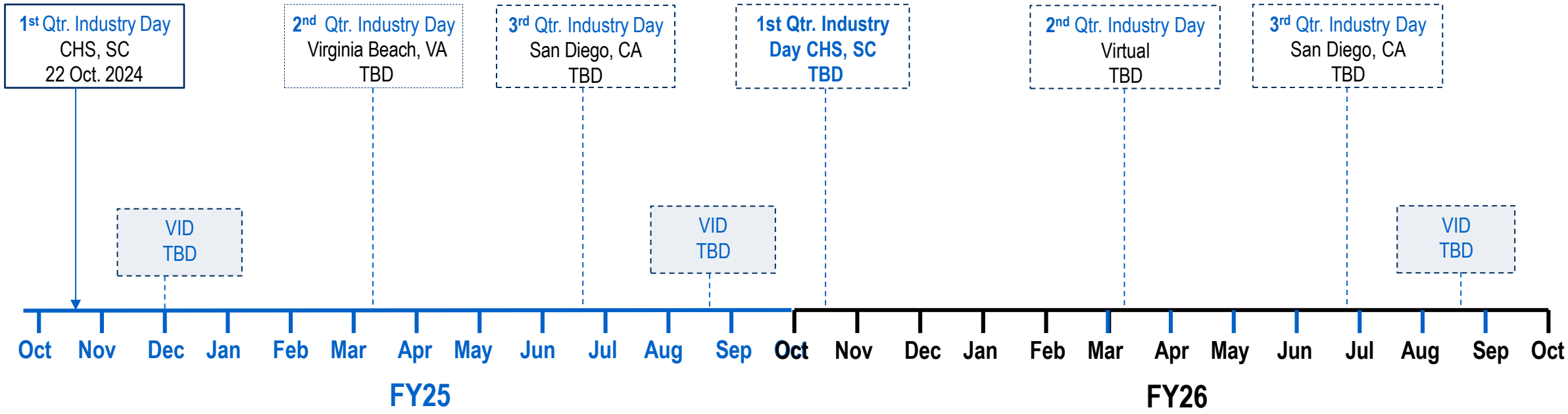
FY25 - FY26 IWRP Schedule



Points of Contact

To become a member of the IWRP consortium go to **https://www.theiwrp.org**

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RPPs in Award Process

- 24-PAC-1796: Enhanced High Frequency for Fleet Command and Control (C2)
- 24-LANT-2154: Mission Planning Environment Inline File Encryption Device (IFED)
- 24-LANT-2174: Mission Planning System (light)
- 24-LANT-2234: Mission Planning Environment Cross Domain Solution
- 24-LANT-2274: Navy Learning Stack (LS) Tools

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Questions?