



A View From the Bridge

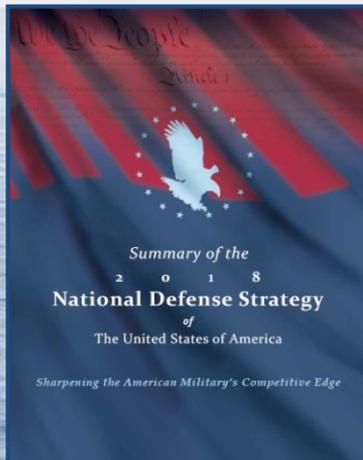
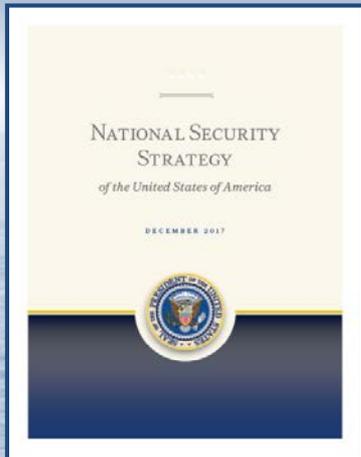
CAPT Ray A. Acevedo
Commanding Officer

Mr. Paul D. Mann, SES
Division Technical Director

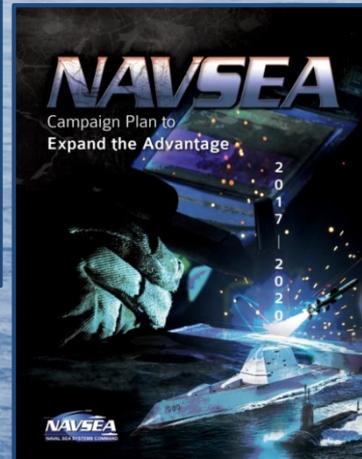
– May 9, 2018 –



Taking a Fix on Our Alignment




Navy Strategy for
Maritime
Superiority




NAVSEA Key
Vulnerabilities



Six tenets to achieve and maintain U.S. naval power:



- Bigger
- Better
- Networked
- More Talented
- More Agile
- More Ready

...Navy



NSWC Port Hueneme Strategic Initiatives



CNO

- Strengthen Naval Power At & From The Sea
- Achieve High Velocity Learning
- Strengthen Our Navy Team for the Future
- Expand And Strengthen our Network of Partners

ASN(RDA)

- Getting the Requirements Right
- Making Every Dollar Count
- Performing to Plan
- Minding a Healthy Industrial Base
- Strengthening Acquisition Workforce



COMNAVSEA

- On-Time Delivery of Ships from Availabilities
- Culture of Affordability
- Cyber Security

NSWC PHD

- Build Trust
- Human Capital Task Force
- Succeed in Procurement Surveillance Program
- Deliver useful SDTS on time
- Strategic Alignment
- Effective Leadership

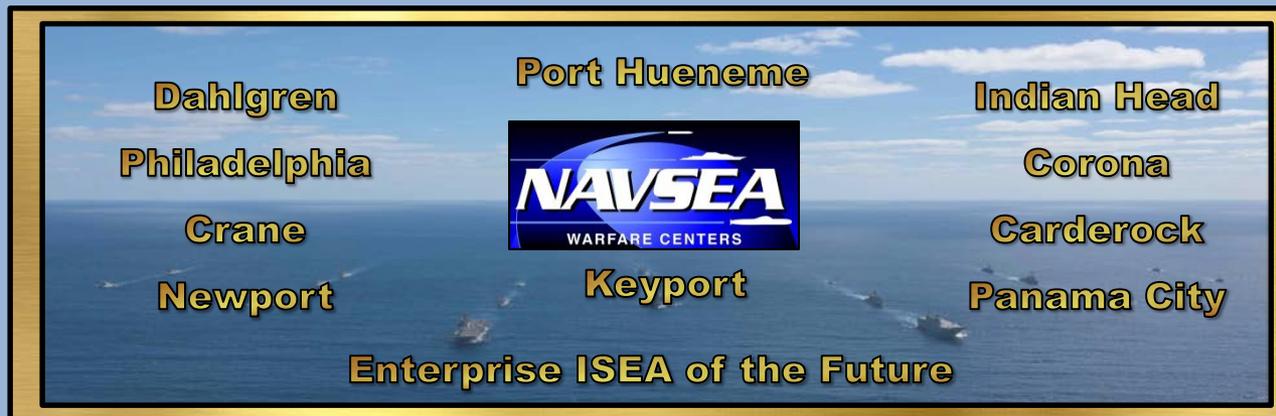


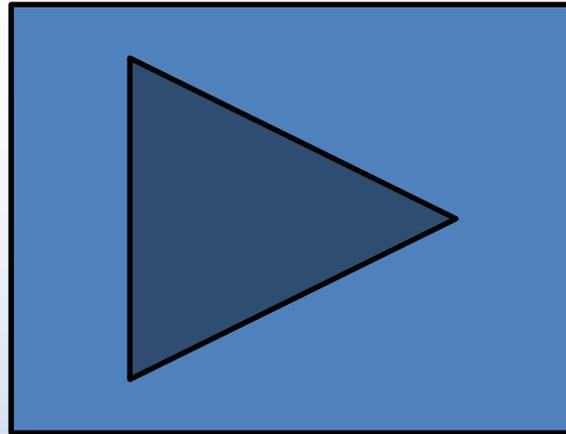
ISEA Traditional Role

The In-Service Engineering Agent (ISEA) is responsible for overall engineering, test, maintenance and logistics requirements in support of specific operational equipment.

Functions include:

- Design
- Safety
- Test Support
- Technical Documentation
- Data Analysis
- Maintenance Engineering
- Computer Programs
- Installation
- Fleet Support
- Training and Manning
- Integrated Logistics
- Data Management
- Configuration Management
- Test Equipment
- Supply Support
- Repair Facilities







ISEA of the Future Vision

Research, development and application of advanced technology enabling the ISEA of the future to optimize the lifecycle sustainment and iterative improvement of the ship, combat and weapons systems deployed to the Fleet.



- Predictive Analysis
- Augmented Reality
- Automation
- Data Analytics
- Deep Learning
- Artificial Intelligence
- Machine Learning
- Neural Networks
- Autonomy
- Unmanned Systems
- Data-Driven Decision Support



Artificial Intelligence

Artificial Intelligence brings a promise of true human-to-machine interaction. When machines become intelligent, they can understand requests, connect data points and draw conclusions. Machines can reason, observe and plan in order to present optimized solutions to human decision makers.



Image by Vikas Patel Haluwa



Image by ACM SIGARCH

Software and hardware configuration will be tracked down to the level of individual chips and files, rather than servers and applications. Due to the improved data quality, the ISEA will have visibility of configuration at the system, platform, strike group, and fleet level.

Artificial Intelligence and highly sophisticated modeling and simulation will allow the ISEA to identify all potential issues related to ship modernization months and even years before a ship restricted availability.





Immersive Technologies

Immersive technologies like Augmented Reality and Virtual Reality will change how we create and experience content in the following ways:

1. Transitions the move from observation to immersion
2. Reduction of cost via virtual prototyping and remote technical support
3. Lowers the barrier to innovation and allows iterative experimentation
4. Provides a layer of authenticity of experience

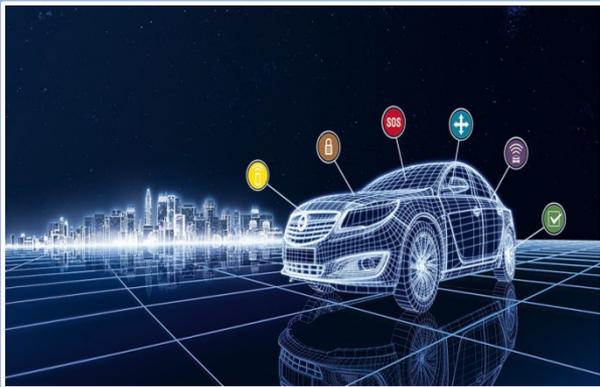


Image by OpelOnStar



In the future, the “iterative improvement” of platforms will take place in a fully immersive photo realistic “holo-deck like” environment where the ISEA will literally “walk the ship” to understand with rigorous detail all facets impacting the ship modernization process.

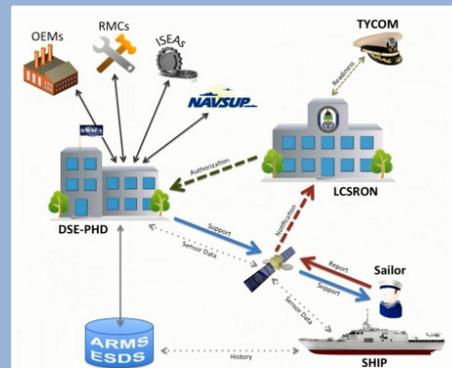
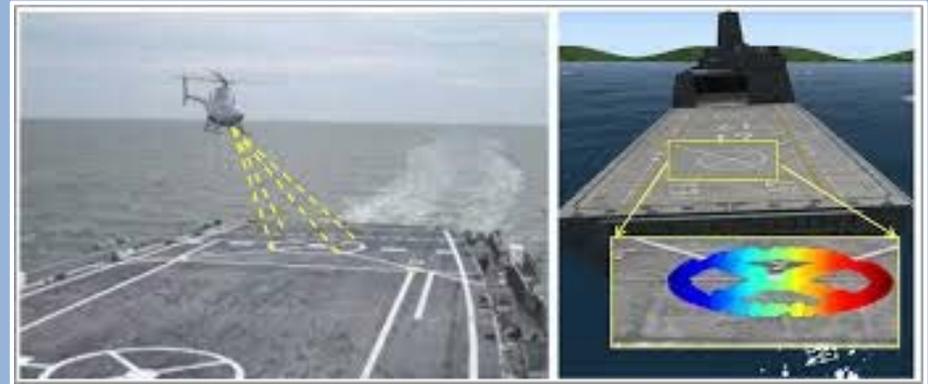


Automation and Autonomy

Autonomous systems and advances in robotics will allow machines to play a greater role in the sustainment and modernization of our ships. The biggest game changer will be intelligence and the ability of machines to learn from experience.

In the future, humans and robots will work collaboratively together to solve a variety of ISEA assignments, including:

- Inspections
- Repairs
- Technical assists
- Maintenance
- Hardware installations
- Test events





Way Forward

- **Build a coalition of Government, Industry and Academic strategic partners with specific expertise in technology development and application**
- **Identify and build technology roadmaps and development plans for experimentation and prototyping**
- **Align and exploit internal research and development efforts to technology focus areas supporting ISEA**
 - **e.g. Advanced Naval Technology Experiment, 23 May 2018**

**Expand the Advantage and Culture of
Affordability Precepts.
Invite Dramatic Change.
The Future is Now!**

QUESTIONS?





NSWC PHD INDUSTRY DAYS

Hosted by CCAP Ventura and Ventura County Economic Development Corp.
Oxnard Performing Arts and Convention Center

NSWC PHD Department Briefs





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Corporate Operations

**Direct, manage and execute business related functions
in support of the command mission**

- Human Resources
- Equal Opportunity
- Infrastructure
- Safety
- Environmental Compliance
- Command Communications
- Information Technology and Cybersecurity
- Security
- Command Business Analysis
- Property Management

Programs/Sponsors

- NSWC PHD
 - Indirect
 - Direct (task basis)





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Forthcoming Requirements

Command Professional Support Services

Award - Oct 2018, estimated value \$49M

POP 7 Oct 2018 – 6 Oct 2021, NAICS Code 541330

Incumbent : Vsolvit (CPSS) / QISI (MSS)

Command IT

Award - May 2019, estimated value \$82M

POP 1 July 2019 – 30 Jun 2024, NAICS Code 541330

Incumbent: NDTI

Who to see at the LRAF Networking Table:
Mr. Dave Scheid, Mr. Mike Troxel, Mr. Erin Norris



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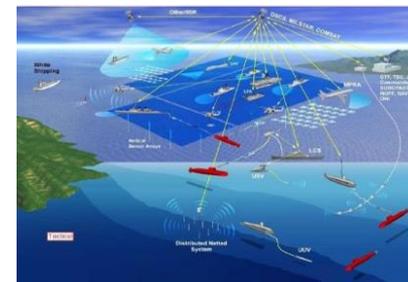
Engineering and Test Office

Provide Rigorous Command-Wide Technical, Systems Engineering, Test & Evaluation Leadership, and Advocacy for current and future Fleet. Deliver efficient enterprise support to enhance Port Hueneme's capability to support the Warfighter.

- Command Technical Rigor
- Command Competencies
 - System Engineering
 - Test and Evaluation
 - Afloat Cyber Security
- Fleet Effectiveness

Programs/sponsors

- Command Competencies
- PEO IWS 1, 7
- SEA 05
- COMPACFLT, RMC





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Forthcoming Requirements

Engineering and Test Office Support *(Not yet on LRAF)*

Current anticipated need/award date: August 2019

Estimated Value and Period of Performance: \$47M for 5 Years

Current incumbent: QIS

Who to see at the LRAF Networking Table:
Mr. Arman Hovakemian, Mr. Alan Jaeger, Mr. Mark Jue

Product Support Office Code 300

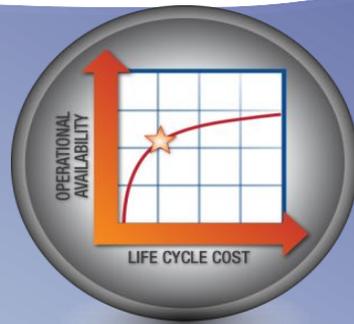
Drive Affordable Readiness through Product Support Excellence

Plan, provide, and innovate Product Support competencies, infrastructure, policies and processes that **enable** our customers to **deliver and sustain** safe, effective, and affordable surface warfare systems.



Digital Thread

Facilitating bi-directional traceability through an enterprise product model capability that provides a common data decision environment



Affordable Readiness

Optimizing Operational Availability by exploiting the availability-cost curve to maximize weapon system readiness at the lowest lifecycle cost



Fleet Effectiveness

Leveraging digital thread and affordable readiness to enable agile Mission-based Support and High Velocity Learning strategies

Focus Areas

- Product Support
- Innovation and Change
- Enterprise Product Lifecycle Management
- Integrated Decision Environment (ePLM IDE)
- Model-based Product Support
- Predictive Analytics
- Fleet Engagement
- Mobile/Expeditionary Logistics

SPONSORS

- NAVSEA
- NAVAIR
- NAVSUP
- FLEET
- DLA
- PEOs



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Forthcoming Requirements

S1000D Support *(Not yet on LRAF)*

- Ongoing projects to define scope of technical data conversion and resource requirements; target completion September 2018
- Moving away from stand-alone/single use data and into a Product Lifecycle Management Framework

ISEA of the Future *(Not yet on LRAF)*

- Command strategic initiatives focused on defining requirements in the areas of predicative analytics, machine learning, augmented reality (AR) and virtual reality (VR)

LOGIT Support *(Not yet on LRAF)*

- Support of Navy's Digital Logistics transformation in the areas of common enterprise infrastructure, data standards and governance, cybersecurity and mobile capabilities; requirements identification occurring in FY18

Who to see at the LRAF Networking Table:
Ms. Ashley Holloway and Mr. Mike Kinberg



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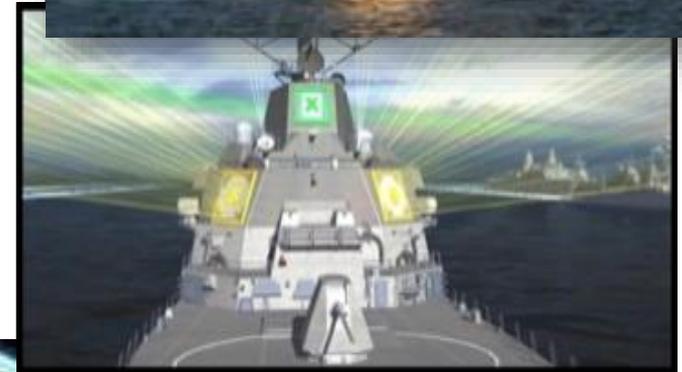
Air Dominance Department

What We Do

- Combat System Life Cycle Support
- System Engineering
- Test and Evaluation
- Integrated Logistics Support
- Capabilities and Limitations
- Maintenance and Modernization
- In-Service Engineering
- Weapon System Installation/Integration
- Missile Development and Life Cycle Support
- Engineering Integration
- Test Support

Our Major Programs/Sponsors

- NAVSEA PEO IWS
- NAVSEA SEA 21
- Missile Defense Agency





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Forthcoming Requirements

Common Processing System (CPS)

Current anticipated need/award date: 2019 Q2, Estimated Value: \$100M - \$250M
Period of Performance: May 2019 - May 2024, NAICS Code: 334111
Current incumbent: New Procurement

UYQ-70 IDIQ

Current anticipated need/award date: 2020, Estimated Value: \$25M - \$50M
Period of Performance: May 2020 - May 2025, NAICS Code: 334419
Current incumbent: DRS Laurel Technologies

Common Display System (CDS)

Current anticipated need/award date: 2020, Estimated Value: \$5M - \$25M
Period of Performance: May 2020 - May 2025, NAICS Code: 334118
Current incumbent: New Procurement

Advanced Radar and Weapon Systems

Current anticipated need/award date: 2019, Estimated Value: \$25M - \$50M
Period of Performance: Jan 2019 – Jan 2024, NAICS Code: 541330
Current incumbent: New Procurement

Who to see at the LRAF Networking Table:
Mr. James Watkins



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Littoral and Strike Warfare Department

Mission Statement: We provide Full-Spectrum ISEA in support of Surface Combat & Weapon System Elements, including:

- Test and Evaluation
- Systems Engineering & Analysis
- Integrated Logistics
- Fleet Technical Services
- Post Delivery/Production Support & Lifecycle Sustainment

Programs/Sponsors:

- Tomahawk – PMS 280/281
- LCS – PMS 510/515/420/IWS8.0
- MK160 GFCS/NFCS – IWS3C
- DDG1000 –PMS 500/IWS9.0
- Harpoon – PMS 208
- NSC/OPC - US Coast Guard
- FFGT(X) – PMS 515
- MMSC – PMS 525
- OTH – IWS3H

Personnel:

- Civilian: 540
- Military: 15
- Contractors: 110





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Forthcoming Requirements

Logistics Support Services

Anticipated award date: 01 FEB 2019

Estimated Value: \$45M

Period of Performance: 5-Year Task Order (One Base Year + Four 1-Year Options)

NAICS Code: 541330

Current Incumbent: AdvantEdge Technology

Tomahawk Weapon Control System Manufacturing

Anticipated award date: 31 MAY 2019

Estimated Value: \$24M

Period of Performance: 5-Year Contract (One Base Year + Four 1-Year Options)

NAICS Code: 334511

Current Incumbent: ACE Electronics

Tomahawk Training Support Activity

Anticipated award date: 01 SEP 2020

Estimated Value: \$40M

Period of Performance: 5-Year Task Order (One Base Year + Four 1-Year Options)

NAICS Code: 541330

Current Incumbent: Southern Computer Consultants, Inc.

Who to see at the LRAF Networking Table:
Ms. Sandra Aguilar and Mr. Robert Howard

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Ship Defense & Expeditionary Warfare Department

- In-Service Engineering Agent (ISEA)
- Integrated Product Support
- Test and Evaluation
- Combat Systems Installation
- Combat Systems Software Support
- Underway Replenishment
- Combat Systems Ship Testing (CSSQT) Support
- Technical Manual Support

Major Programs/Sponsors

- SSDS / PEO IWS 10
- Radars / PEO IWS 2
- NSSMS, RAM, CIWS / PEO IWS 10, 11 & 12
- Carrier & L Class / PEO SHIPS, CNAP & CNAL
- UNREP / MSC, PMS 385
- Switchboards / SEA 05H
- Directed Energy / ONR, PEO IWS 2
- Caps & Lims / NAVIFOR, SEA 05H





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Forthcoming Requirements

Carrier / L Class In-Service Engineering

Need date: 19 May 2021

\$98M POP: 19 May 2021 - 18 May 2026 NAICS = 541330

Incumbent: INDUS

Alteration Installation Team (AIT)

Need date: 19 Jun 2021

\$225M POP: 19 Jun 2021 - 18 Jun 2026 NAICS = 541330

Incumbent: PRISM

E-STREAM Underway Replenishment

Need date: 20 Dec 2021

\$49M POP: 20 Dec 2021 – 19 Dec 2026 NAICS = 541330

Incumbent: Gryphon Technologies, Inc.

Who to see at the LRAF Networking Table:

Ms. Lorri Herr, Mr. Joe Buenrostro, Mr. Ken Guinto and Mr. Ryan Burnett



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Land and Sea Test Department

Onsite manager for the Navy's Self Defense Test Ship
Operation and maintenance of the Test Ship Remote
Control Network

Ships:

1994-2003: DECATUR (EDD-31)

2005-Present: PAUL F. FOSTER (EDD-964)

Sponsor: PEO IWS 1T

Onsite manager for NSWC PHD White Sands Missile
Range Detachment

Provides short, medium, and long range sub-orbital
vehicles and associated services to meet the needs of
various programs, including: Aegis BMD, AMDR,
Maritime Missile Defense, etc.

Sponsors: PEO IWS, MDA, and others





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Forthcoming Requirements

Self Defense Test Ship Engineering, Technical Support, Maintenance Support, Ship Maintenance Support and Logistical Support

Planned Award Date: 9/30/2019

Estimated Value: \$48M, Period of Performance FY2019-2023

NAICS Code: 488390

Current incumbent: AdvantEdge Technology, Inc.

TSRCN Engineering Support Contract

Planned Award Date: 5/1/2020

Estimated Value: \$20M, Period of Performance: FY2020-2025

NAICS Code: 541330

Current incumbent: AdvantEdge Technology, Inc.

Who to see at the table:

Mr. Roger Yoshida and Ms. Lindsay Fox



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Forthcoming Requirements

Short/Medium Range Sub-Orbital Vehicles

Planned Award Date: 2/21/2019

Estimated Value: \$230M, Period of Performance FY2019-2023

NAICS Code: 336414

Current incumbent: Various

(Contracting at NSWC Dahlgren)

Long Range Sub-Orbital Vehicles *(Not yet on LRAF)*

Planned Award Date: TBD

Estimated Value: \$470M, Period of Performance FY2019-2023

NAICS Code: 336414

Current incumbent: Various

(Contracting at NSWC PHD)

Who to see at the table:

Mr. Roger Yoshida and Ms. Lindsay Fox

SeaPort

Sharon Rustemier – Services Policy
Stacy McQuage – SeaPort Deputy Program Manager
Naval Sea Systems Command



16 May 2018

What Is SeaPort?

- SeaPort is the Navy's electronic platform for acquiring support services in 22 functional areas including Engineering, Financial Management, and Program Management.
- The Navy Systems Commands (NAVSEA, NAVAIR, SPAWAR, NAVFAC, and NAVSUP), the Office of Naval Research, Military Sealift Command, and the United States Marine Corps compete their service requirements amongst 3000+ SeaPort IDIQ multiple award contract holders.
- Since nearly 85% of its contract-holders are small businesses, the SeaPort approach to acquiring services provides opportunity that fuels the Nation's engine of job growth.

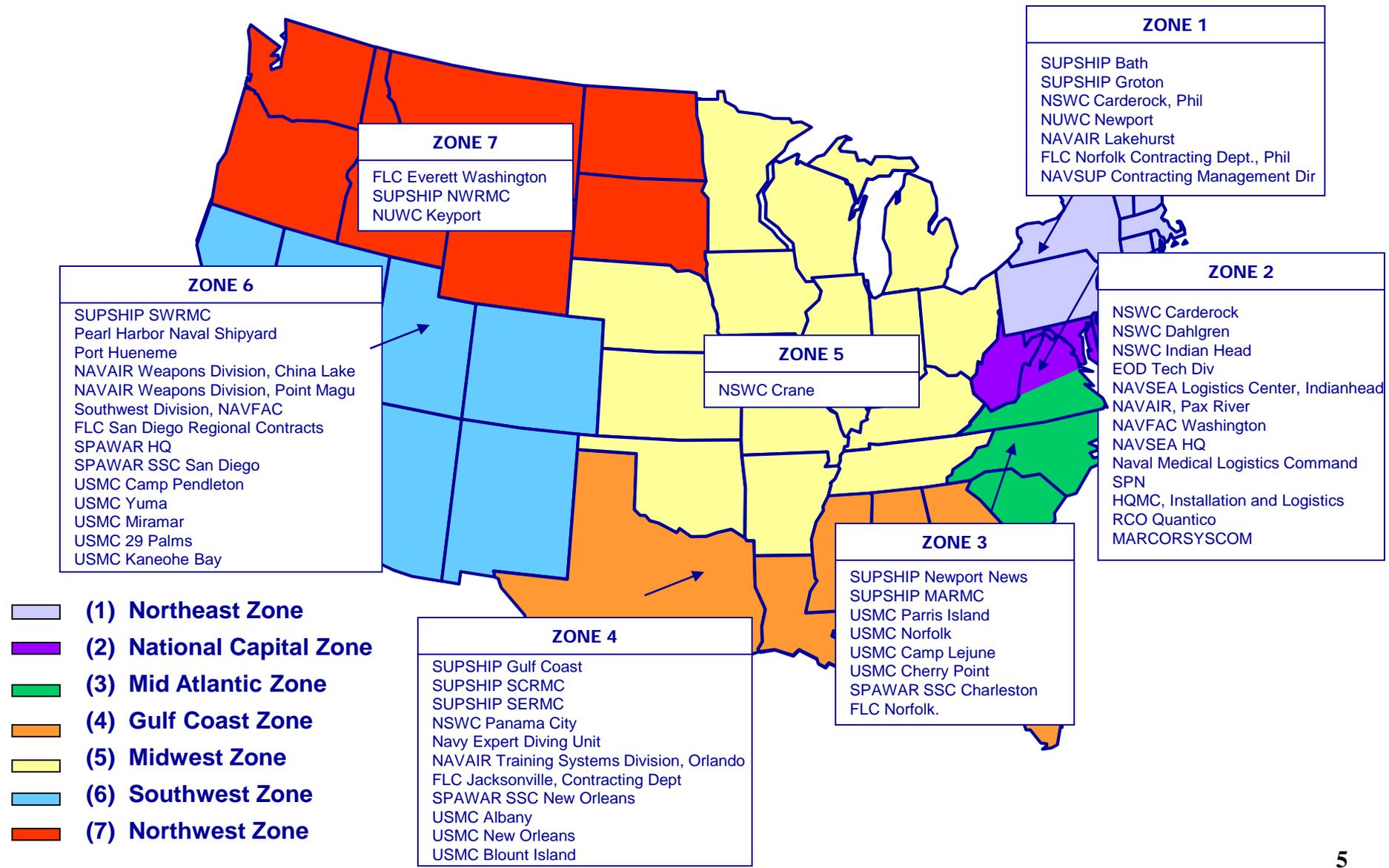
What Is SeaPort? – Cont.

- Electronic platform (portal) to solicit, award, and administer Task Orders to SeaPort-e MAC holders.
- The SeaPort portal provides a standardized, efficient means of soliciting offers from amongst the diverse population of large and small businesses and their approved team members.
- All task orders are competitively solicited, awarded and managed using the SeaPort portal.

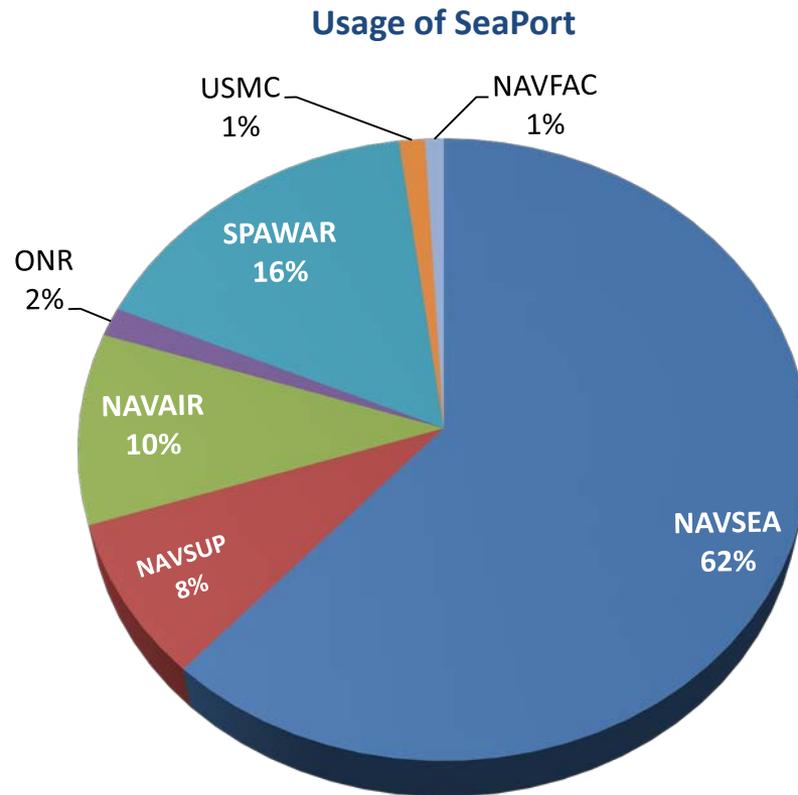
Evolution of SeaPort

Category	SeaPort (2001 – 2004)	SeaPort-E (2004-2005)	VS SeaPort-E (2005-2019)	SeaPort-NxG (2019-2029)
Portal Components	“Buy” site for Gov’t, “Sell” site for Industry	Same	Same	Same
Program Website	www.seaport.navy.mil	Same	Same	Same
Navy Users	NAVSEA HQ	All NAVSEA	Navy Virtual SYSCOM	Navy Virtual SYSCOM
# of Ordering Offices	1	24	121	121
# of Primes	21	151	3,195	TBD
# of Functional Areas	4	21	22	23
SB Consideration?	No	Yes	Yes	Yes
TO’s Competed Nationally?	Yes	No	No	No

Ordering Activities by SeaPort-e Zones



Current SYSCOM Usage



* All SeaPort Task Orders Awarded Since 2004

- **Small Business**
 - Prime MAC awards: 2,860 of 3,196 (90%) (as of Dec 2016)
 - 50% of all small business prime contractors have submitted a proposal as a prime
 - Across the Navy 2,225 task orders have been awarded to 551 different small businesses
- **Large Business**
 - Prime MAC awards: 333 of 3,196 (as of Dec 2016)
 - ~78% (251) of all large business prime contractors have submitted a proposal as a prime
 - Across the Navy 2,037 task orders have been awarded to 182 different large businesses (some of which changed size status or novated over the life of the SeaPort program)

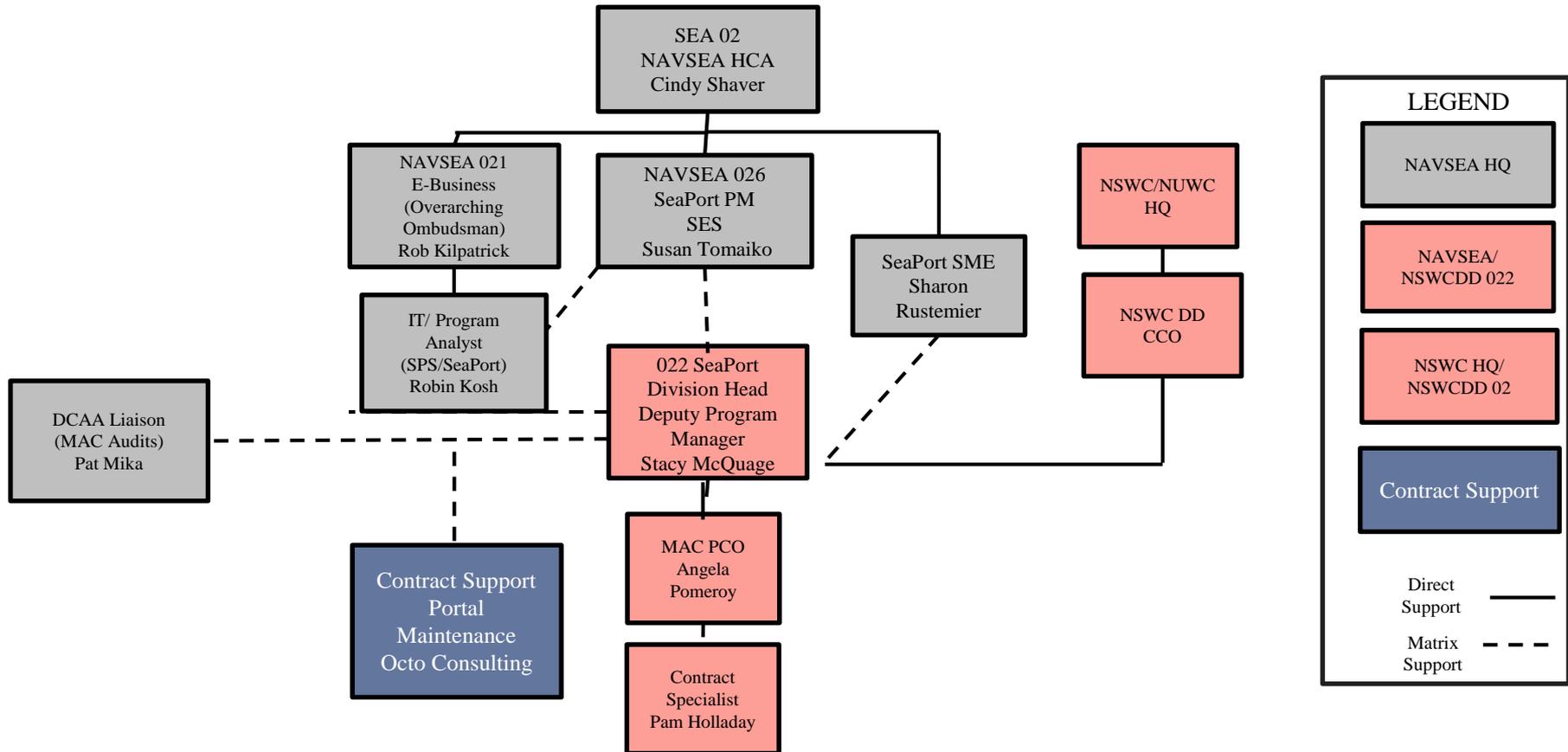
* Stats based on all SeaPort Task Orders awarded since 2004 to all VS Members

SeaPort Programmatic Approach

- SeaPort Multiple Award Contract (MAC):
 - Up to five-year Base ordering period w/Five-Year Award Term
 - Scope includes Engineering, Technical, & Professional Support Services across 22 functional service areas
 - Single NAICS (541330) with military exception (\$38.5M)
 - Multiple PSCs available, PSC captured at the CLIN level
- Allows for small business set-asides (restricted competition)
- All SeaPort-e MACs expire at the end of December 2019
- SeaPort-Next Generation (NxG) will be the set of MACs which will replace the expiring SeaPort-e MACs

- Utilizes a Web-Based Portal:
 - Provides a means for electronically competing & awarding Task Order solicitations and centralized procurement information storage
- Decentralized Ordering Activities
 - Each are responsible for defining their own requirements, running competitions, awarding and administering Task Orders.
- Ordering Activities have local Ombudsman to assist in disputes
- Portal management and overarching policies are responsibility of NAVSEA HQ
 - Program Manager — Susan Tomaiko
 - Deputy Program Manager – Stacy McQuage
 - MAC Contracting Officer – Angela Pomeroy
 - Overarching Ombudsman – Rob Kilpatrick

SeaPort Org Chart



LEGEND

- NAVSEA HQ
- NAVSEA/NSWCDD 022
- NSWC HQ/NSWCDD 02
- Contract Support

Direct Support ———

Matrix Support - - - -

When a Rolling Admissions is conducted the MAC Contracting Offices surges their regular labor with volunteers from other authorized ordering activities within SeaPort for the evaluations.

For the past 10 years SeaPort has averaged awarding 400 MACs a year each

- Single NAICS (541330)
- Removal of Zone Presence Requirements – All MAC holders will get all zones
- Grouping of functional areas
- US Navy Experience, as either prime or sub, in order to win MAC - Limit vendor entry to those that will bid on work to increase quality competition and reduce administration costs
- Mandatory Gov't User compliance with SOP to increase standardization and reduce cycle time

Notional Timeline of Events

