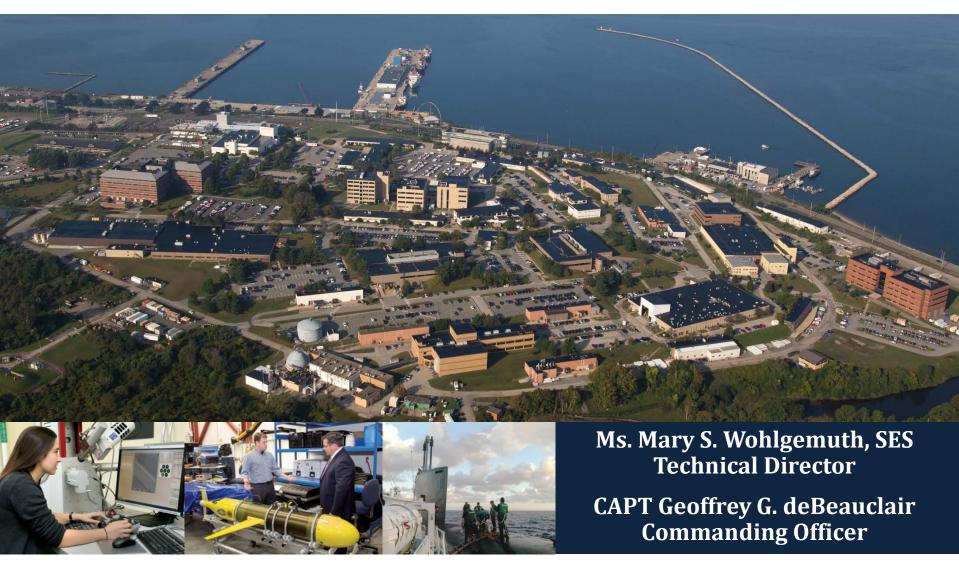


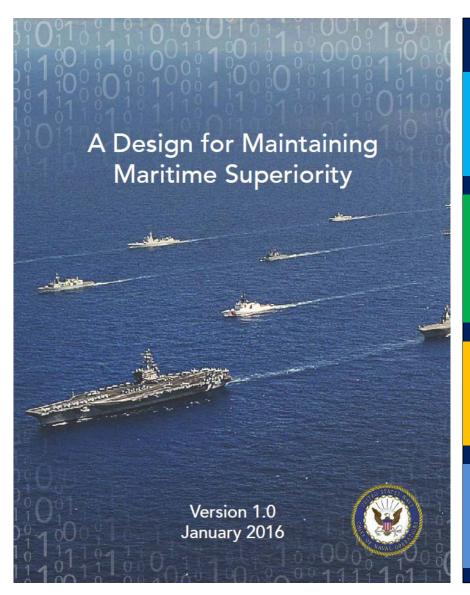
Naval Undersea Warfare Center Division Newport

14 June 2016





CNO's Design – JAN 2016



4 Lines of Effort

Strengthen Naval Power At and From Sea:

Maintain a fleet that is trained and ready to operate and fight decisively – from the deep ocean to the littorals, from the sea floor to space, and in the information domain.

Achieve High Velocity Learning at Every Level:

Apply the best concepts, techniques and technologies to accelerate learning as individuals, teams and organizations. Clearly know the objective and the theoretical limits of performance – set aspirational goals.

Strengthen Our Navy Team for the Future:

We are one Navy Team – comprised of a diverse mix of active duty and reserve Sailors, Navy Civilians, and our families – with a history of service, sacrifice and success.

Expand and Strengthen Our Network of Partners:

Deepen operational relationships with other services, agencies, industry, allies and partners – who operate with the Navy to support our shared interests.



What's New in Undersea Warfare



The Honorable Ashton B. Carter United States Secretary of Defense

"Undersea dominance is where the U.S. enjoys clear dominance in this world over any other competitor," U.S. Secretary of Defense Ash Carter said during his visit to Division Newport in May. "We need to retain that. We need to make sure they never catch up...Now, the Navy is connecting it to the rest of the Navy, the surface Navy, and to the land and air forces, which is very important, creating an integrated domain to include, by the way, the sea bed as well as the sea itself."

SUBFOR releases Commander's Intent for the United States Submarine Force and Supporting Organizations:

Desired End-State: Own the Best - Grow Longer Arms - Beat the Adversary's System - Protect our Strategic Assets...and Threaten Theirs - Get on the Same Page - Get Faster - Be the Best



Vice Admiral Joseph E. Tofalo
Commander, Submarine Forces (SUBFOR)

- DASN RDT&E leads Naval Research & Development Establishment (NR&DE)
 - Identify opportunities to increase and accelerate prototyping and experimentation
- CNO establishes Unmanned Warfare Systems Directorate (N99)
 - Seeking to pair the machine with the man to complete Navy objectives faster and more efficiently, regardless of domain
- SECNAV appoints Deputy Assistant of the Navy for Unmanned Systems (DASN UxS)
 - Rapid Prototyping Experimentation and Demonstration (RPED) approach



Dr. John D. Burrow, SES
Deputy Assistant Secretary of the
Navy (RDT&E)



Rear Admiral Robert P. Girrier, USN Director of Unmanned Warfare Systems (OPNAV N99)



Mr. Frank L. Kelley, Jr., SES Deputy Assistant Secretary of the Navy (Unmanned Systems)



Division Newport Strategy

Division Strategic Guidance

Drivers

Today's Navy

Customer Tasking from PEOs, Urgent Fleet Needs

Tomorrow's Navy

ONR, DARPA, NR&DE Rapid Prototyping, etc

Navy After Next

Future Capability Requirements from DoN S&T And RDT&F 30 Year Strategic Plan.



Enabling Technologies



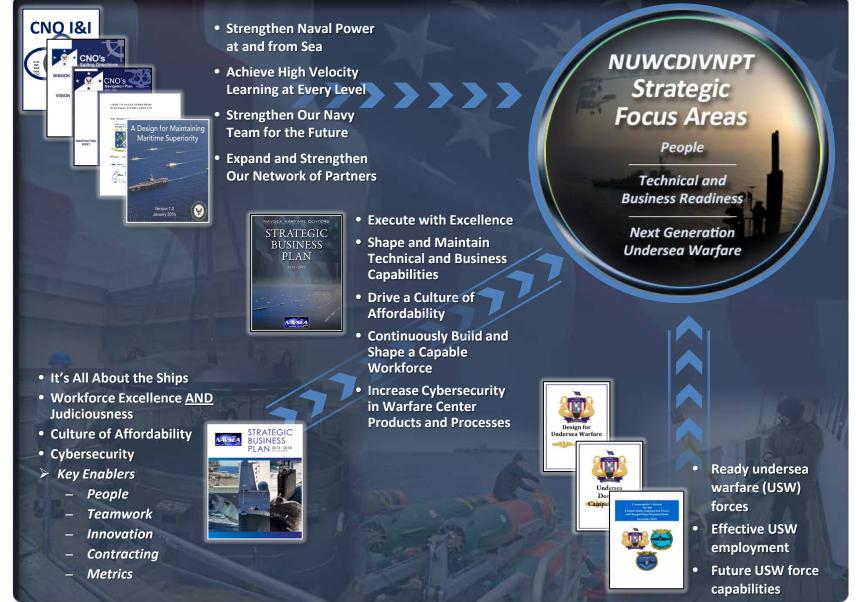
- Develop/shape workforce
- Increase Innovation / **S&T Opportunities**
- Promote NR&DE Collaboration
- Revitalize Infrastructure
- Develop war room to provide workforce situational awareness into USW strategy, challenges, opportunities and Division activity

Long Range Development Plans



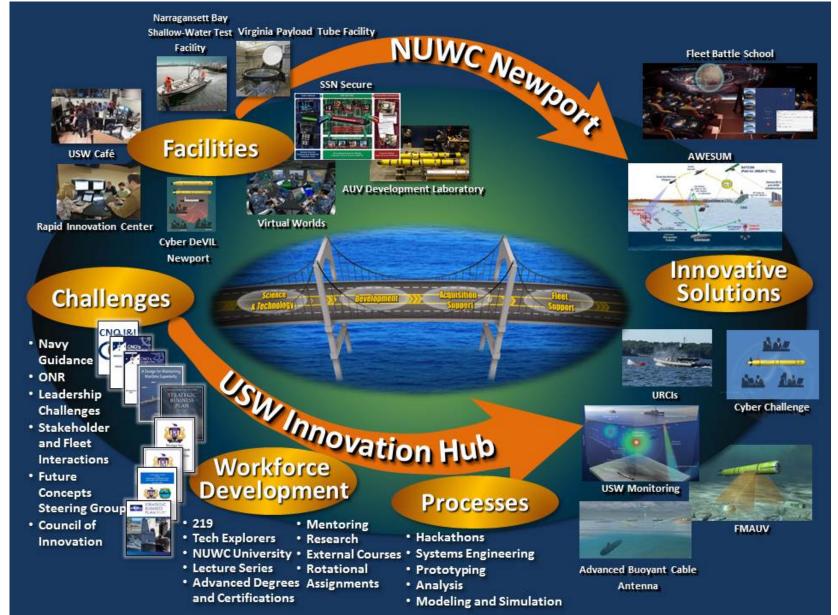


Strategic Focus Areas





Division Newport's Innovation Engine





16-NUWC-GRA/0584

Annual Naval Technology Exercise (ANTX)





NAVSEA Warfare Centers

Division **Technical Directors**







Warfare Centers **Board of Directors**















Keyport, WA

Alan D. Kent, SES

CAPT Doug LaCoste

2,024 employees Jan. 16

NSWC Philadelphia Philadelphia, PA

Newport, RI

Indian Head, MD





Panama City, FL



Dr. Bill Luebke

NSWC Port Hueneme Division

Port Hueneme, CA

CAPT Cord H. Luby 2,050 employees Jan. 16

Tricia Herndon (Acting) CAPT Jeffrey "JT" Elder 3,209 employees Jan. 16

Crane, IN



Carderock, MD

Dr. Joseph T. (Tim) Arcano, Jr., SES **CAPT Richard Blank** 2,000 employees Jan. 16



CAPT Francis E. Spencer III 1,783 employees Jan. 16

CAPT Geoffrey G. deBeauclair (Acting) 2,960 employees Jan. 1

1,902 employees Jan. 16



Mike Till (Acting), SES

Mike Till (Acting) NSWC Dahlgren Division



Dianne Costlow (Acting) NSWC Corona Division





Corona, CA





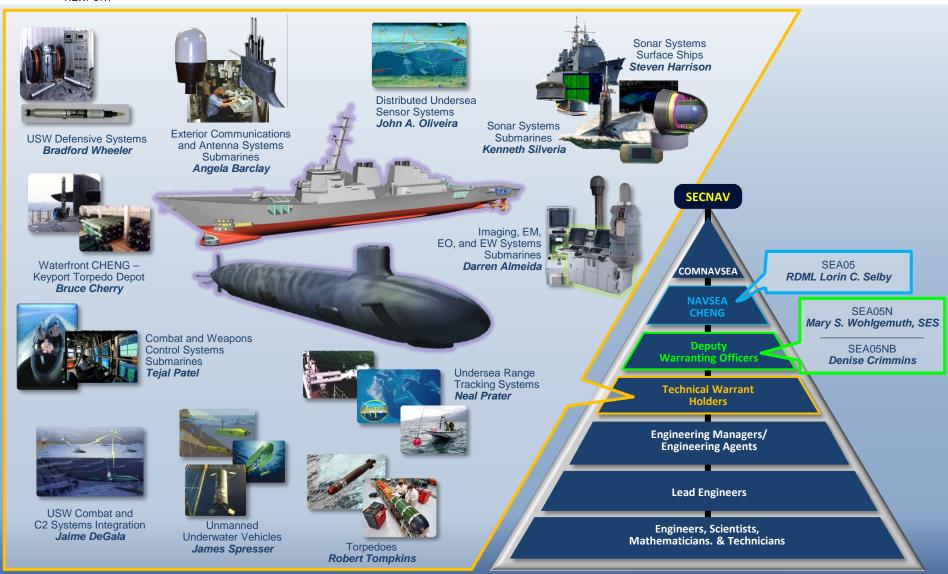




NSWC Panama City Division



Undersea Warfare Systems Engineering Technical Warrants – SEA05N

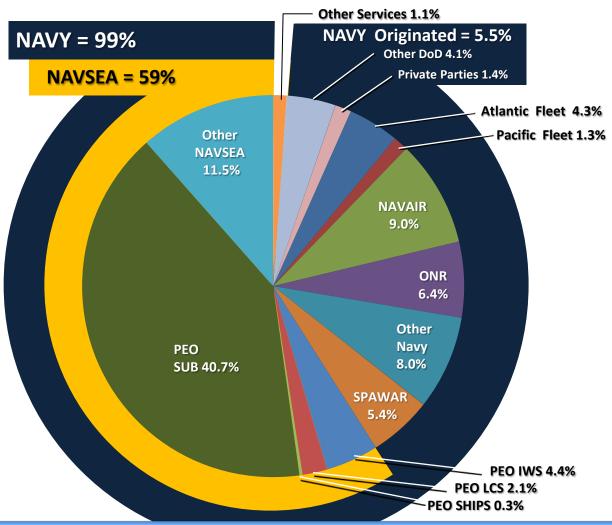


Foremost Technical Authority for USW



NUWCDIVNPT Customers - All Funding

Our FY15 Customers \$958M



We are a Navy Working Capital Fund (NWCF) Activity

- We're not a congressional line item
- Customers decide whether to bring work to the Warfare Centers
- NUWC is accountable for efficient delivery of products and services

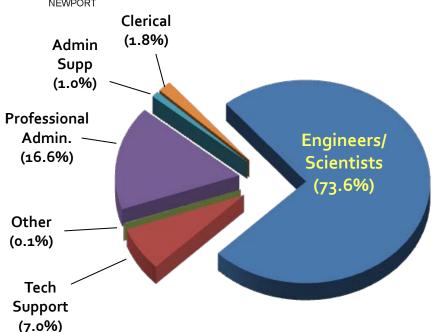
Spectrum of Customers

- Fleet
- Program and resource sponsors
- Scientific sponsors
- Intelligence community
- Defense industry
- Non-defense industry
- Foreign Navies

Provide Best Value to Our Customers



Our People





74% Of	Our Workf	orce are Engi	neers and	Scientists
74/0 UI '	Oui Wolki	orce are engi	illeers allu s	

- 42% of Our Scientists and Engineers Have Advanced Degrees
 - 154 PhDs (7%)
 - 751 Masters (35%)
- An Award Winning Workforce
 - 53 Winners in 24 Award Programs

Total Employment by Classification	Civil Service	Contract WYs	Est Overall Employment
Engineering/Science	2320	682	3002
Professional Administrative	420	696	1116
Technical Support	159	715	874
Administrative/Clerical	59	200	259
Wage Grade	2	99	101
Total *Includes all detachments	2960*	2392	5352

Externally Recognized Innovative Workforce in place to support Undersea Warfare



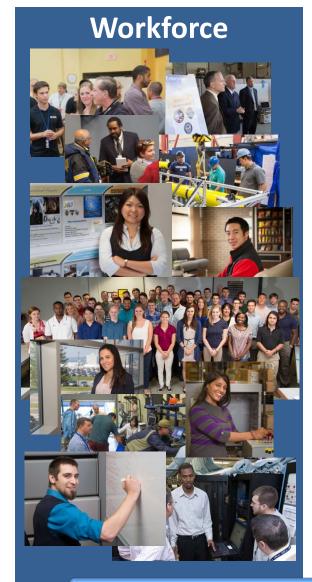
Collaboration Fuels Global USW Innovation



16-NUWC-GRA/0584 Data EOY FY15 12



The Future of USW





Processes

- Hackathons
- ANTX
- NISE (219 Investments)
- SystemsEngineering
- Wargaming
- Rapid Capability
 Initiatives
- COOPEXs
- Prototyping

One Team