NUWC DIVISION, KEYPORT
COMMAND OVERVIEW

CAPT CLINT HOSKINS, USN – COMMANDING OFFICER

MIKE SLATER, SSTM – TECHNICAL DIRECTOR

NAVSEA WARFARE CENTERS Keyport
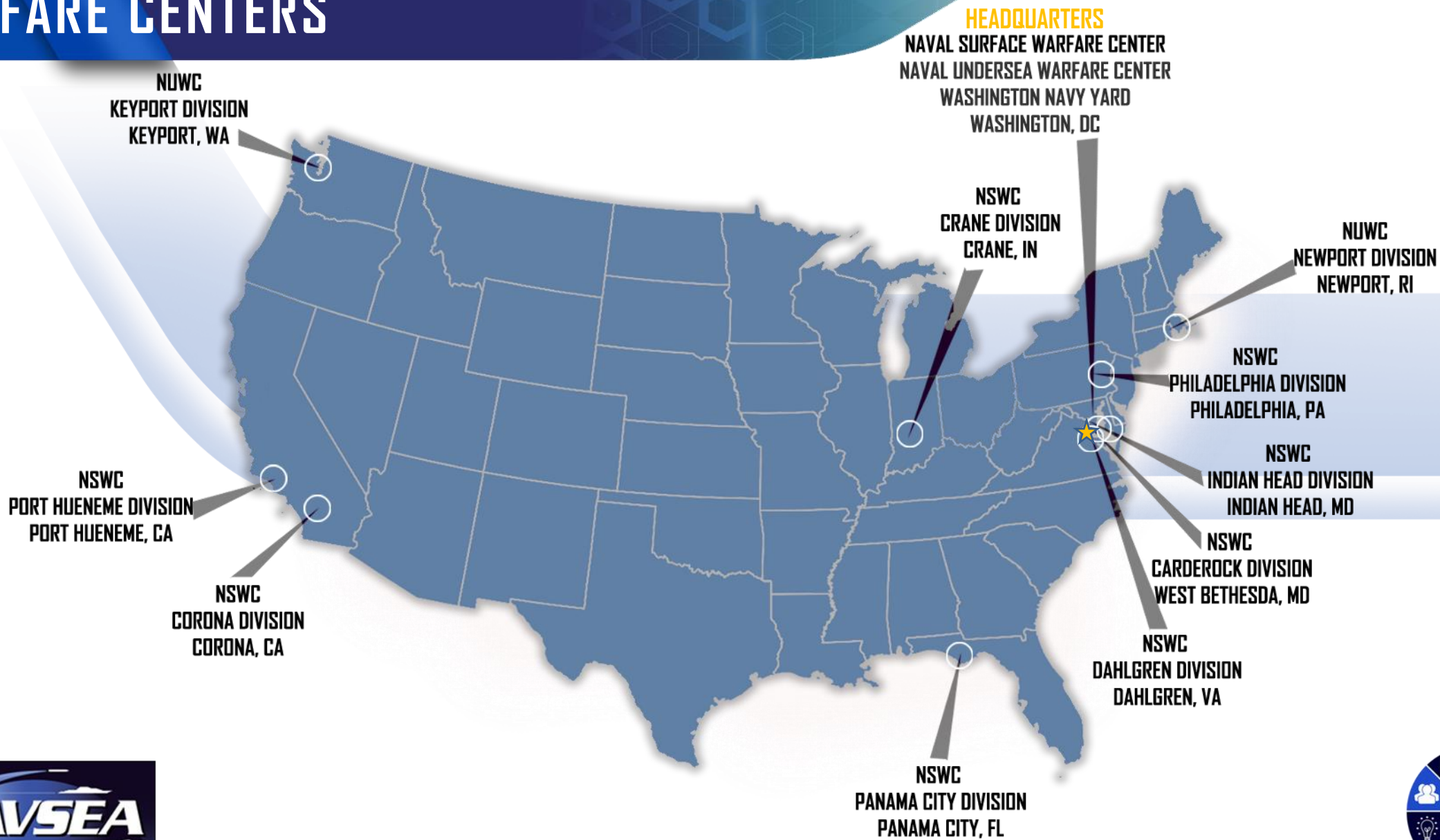
WHO WE ARE

- **Over 100 years of undersea expertise**
- **Undersea weapons**
  — Navy's only lightweight torpedo production facility
  — Two heavyweight torpedo production facilities
  — Navy's only torpedo component level depot
- **Undersea warfare test and evaluation**
  — Weapons engineering
  — Unmanned and Theater Warfare Systems
- **Sustainment engineering**
  — DoD experts in obsolescence management
  — Custom engineered solutions
  — Shipyard innovation
- **NAVSEA Logistics Center**
  — Logistics and Material Management
  — Engineering and IT Management
  — Mechanicsburg, PA
- **Global partnerships**
  — Internationally connected (Canadian range)
  — International weapons training courses
  — Torpedo Intermediate Maintenance Activities
- **Strategically located to support the fleet**
  — Hawaii, Japan, Guam and San Diego

WHERE WE ARE

RANGE COMPLEX NANOOSE, CANADA

KEYPORT, WA

MECHANICSBURG, PA

BANGOR, WA

YOKOSUKA, JAPAN

PEARL HARBOR, HI

PORTSMOUTH, NH

HAWTHORNE, NV

APRA HARBOR, GUAM

SAN DIEGO, CA

MAYPORT, FL

INDIAN HEAD, MD

NORFOLK, VA

WARFARE CENTERS

HEADQUARTERS
NAVAL SURFACE WARFARE CENTER
NAVAL UNDERSEA WARFARE CENTER
WASHINGTON NAVY YARD
WASHINGTON, DC

NUWC
KEYPORT DIVISION
KEYPORT, WA

NSWC
CRANE DIVISION
CRANE, IN

NUWC
NEWPORT DIVISION
NEWPORT, RI

NSWC
PHILADELPHIA DIVISION
PHILADELPHIA, PA

NSWC
INDIAN HEAD DIVISION
INDIAN HEAD, MD

NSWC
PORT HUENEME DIVISION
PORT HUENEME, CA

NSWC
CARDEROCK DIVISION
WEST BETHESDA, MD

NSWC
CORONA DIVISION
CORONA, CA

NSWC
DAHLGREN DIVISION
DAHLGREN, VA

NSWC
PANAMA CITY DIVISION
PANAMA CITY, FL

NAVSEA
WARFARE CENTERS
Keyport

NAVSEA
WARFARE CENTERS
one TEAM

WHAT WE DO

We accelerate emerging and disruptive technology to the warfighter through innovation to expand America's undersea dominance.
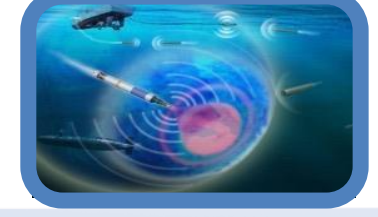
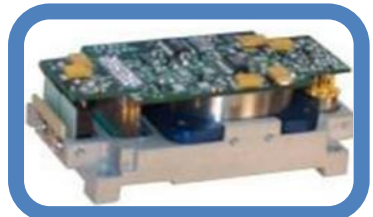**Undersea Weapons and Targets**

Local Undersea Ranges

Unmanned Undersea Vehicles

Theater Undersea Warfare

Undersea Defensive Warfare Systems

Prototyping & Custom Engineered Solutions

Data Sciences and Analytics

Cyber Systems Security Engineering

Sustainment & Maintenance Innovation

Warfighter- Engineer Partnership

LIVE VIRTUAL CONSTRUCTED RANGES

RANGE OPERATIONS

NANOOSE SITE

CANADA
WA STATE

Vancouver Island

DABOB BAY SITE

HOOD CANAL SITE

NUWC KEYPORT RANGE

Bremerton

Seattle

Tacoma

W-237A Naval Operating Area

QUINAULT SITE

WORKFORCE PROFILE

Administrative: 1379
Blue Collar: 107
Scientist/Engineers: 631
Other Professionals: 79
Technical: 539
Clerical: 9
Other: 6

Total Govt. Employees
2750
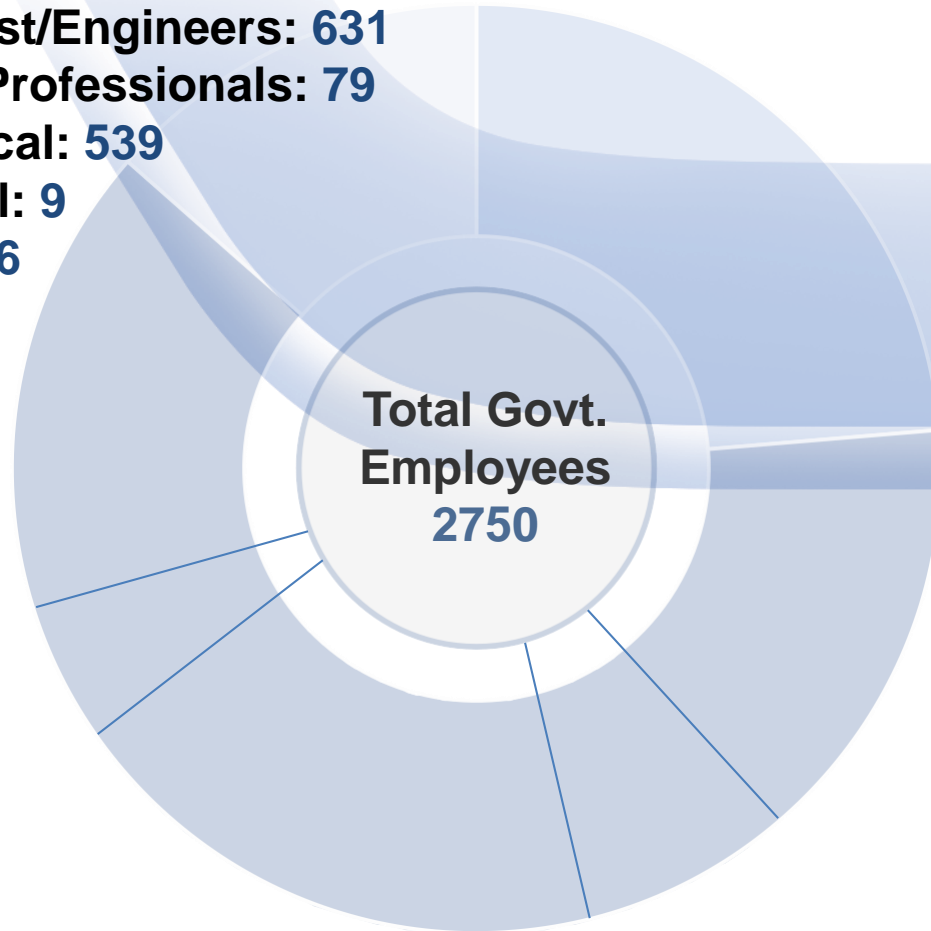
KEYPORT

Bachelors 1054
Masters 453
PhD 24
55% College educated

Washington State – Local Employees

Naval Undersea Warfare Center
1690 Civilian and 508 Contractor

NAVSEA Logistics Center
106 Civilian and 45 Contractor

UNDERSEA WEAPONS

"We put weapons in the fleet and on the range."

- **Capacity**
  - Weapons production
  - Fleet battle capacity
  - Ordnance handling, transportation, and storage
  - Production optimization

- **Readiness**
  - Fleet training and technical operations certification
 - Weapons lifecycle sustainment
  - Material readiness

- **Capabilities**
  - Weapons technology development
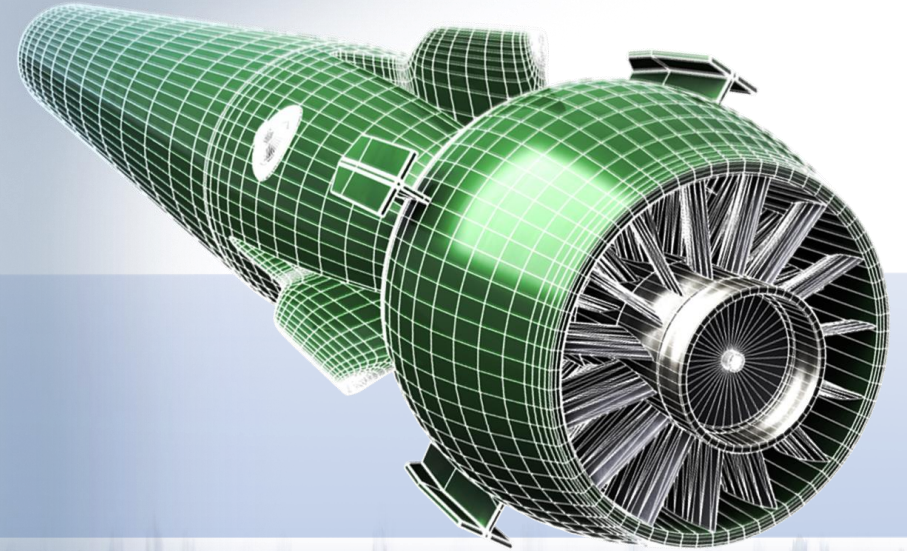
Core capabilities:

- Physics-based test and training (at sea and land-based)
- Performance and assessment
- Test and Evaluation Hardware and Software Design and Deployment
- System acquisition and procurement
- Modeling and simulation
- Data sciences
- Sensors
- Threat emulation
- Test and Evaluation of autonomous systems
- Live Virtual Constructed
- Warfighter- Engineer Partnership
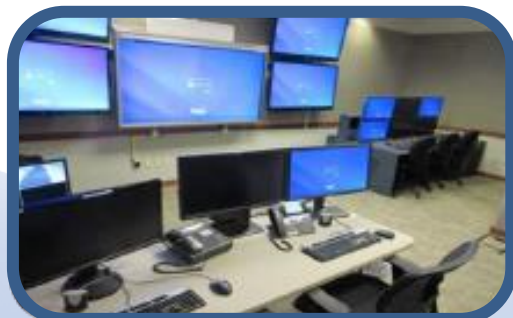- Cyber Systems Security Engineering
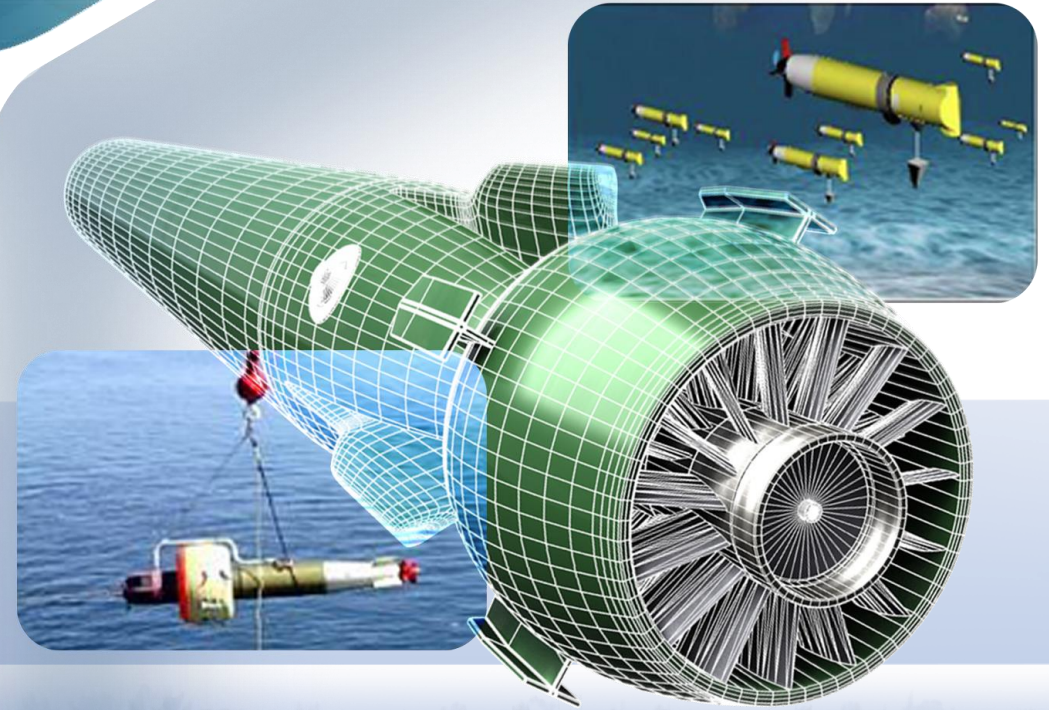
UNMANNED VEHICLES & PAYLOADS

Dedicated Infrastructure:

UUV Maintenance Facility P-386

UUV Operations Center

Warfighter- Engineer Partnership:

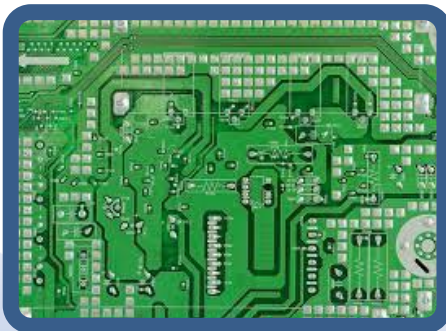UUV Squadron One

Special Operations Forces

Payload Integration Group

UNMANNED VEHICLES

UNDERSEA SYSTEMS & SUSTAINMENT ENGINEERING
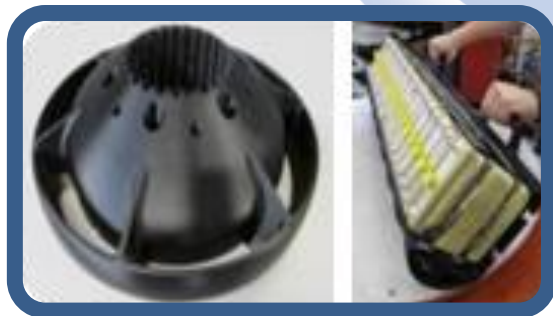

Waterfront Fleet Support

Obsolescence Management

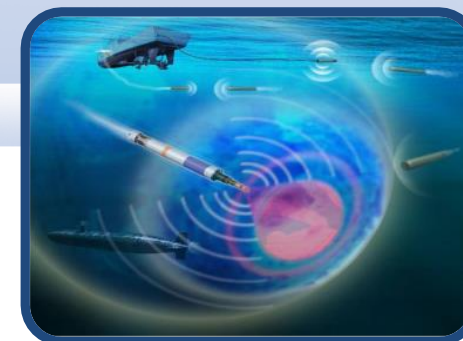**Submarine In-Service Engineering**

Fleet Technical Support

Rapid Prototyping & Manufacturing

Industrial Fabrication

Undersea Defensive Warfare Systems

We develop, field, and sustain innovative solutions optimizing Warfighter readiness and effectiveness

BUSINESS INNOVATION

- **Property Management**
  - PR Creator Pilot Program to support Torpedo Throughput
  - RFID Pilot to support General Equipment Inventory

- **Contracts**
  - Contract Management Process Guide (CMPG)
  - Small Business Outreach

- **Information Technology**
  - KeyportOne Platform, one tool
    - All IT Requests
    - Facility Requests
    - Security Requests

- **Barrier Removals**
  - 100,000 hours saved to date thru removing   employee identified barriers

- **Comptroller**
  - Electronic delegation of authority letters
  - Leave Overtime Comp Time User System (LOCUS)
  - Authorities Tracking Tool (ATT)
  - Dashboard Driven Financial Reporting

- **People**
  - Development of Propel training for supervisors
  - Workforce Management System (WMS)

- **Command Assessment**
  - Development of Propel training for Warfare Centers
  - NAVSEA Enterprise Planning System (NEPS)
  - Task Assignment & Acceptance Tool (TAAT)

RELATIONSHIPS AND AUTHORITIES

- Strong recruiting relationships
- Outreach through senior design projects
- Collaborative research proposals
- Research supporting Intermediate Maintenance Activity modeling and simulation

- Small Business Outreach
- 7 Special Purpose Cooperate Research and Development Agreement
- 10 Educational Partnership Agreements
- 1 Program Intermediary Agreements

- Mutually developing research program at local Washington State University campus
- Naval Engineering Education Consortium collaborations on data analytics, robotics and material science
- Collaboration on Modeling the Millennia and UUVs for range support
- Collaborating on COVID Personal Protective Equipment response with University of Alaska-Fairbanks

COMMUNITY
COLLISIONS
RELATIONSHIPS

- **K-12 STEM Events**
  — 27 Keyport volunteers supported 191 student events
  — 100 one hour student STEM classes at local school districts
  — Bridge Building Challenge had over 188 submissions
  — Career mentoring and judges for state science fair
  — Professional development for over 200 regional public educators

- **University Engagement**
  — Pathways for students and recent graduates to federal careers
  — Naval Research Enterprise Program (NREIP)
  — Naval Engineering Education Consortium (NEEC)
    — $500k to support 7 university undergraduate teams across 5 universities
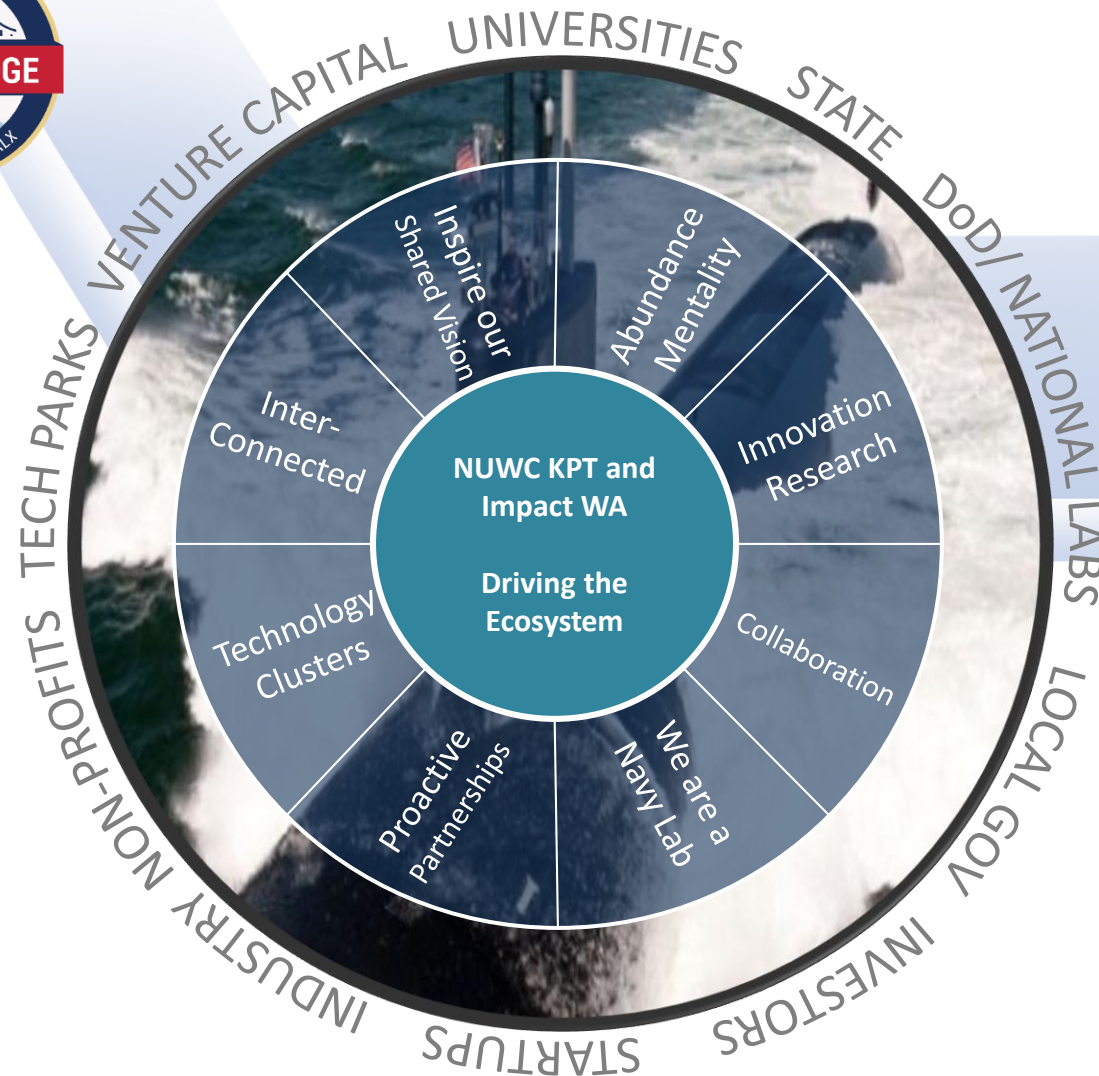   — Supports R&D and student engagement

- **Food Drives**

- **Armed Forces Day**

The Northwest Tech Bridge serves as a 'super connector' throughout the Pacific Northwest

Technical Areas: Autonomy and Sustainment
• Big Data with focus on Lifecycle Logistics AI/ML
• Advanced Manufacturing
• Adaptive Autonomy Technology
• Robotics

Key Initiatives
• DON COVID-19 Advanced Manufacturing Response
• Whale Tracking Technology Challenge
• Innovation Partnerships with NW DOD and DOE partners
• Naval Enterprise Sustainment Technologies Team (NESTT)
• UUV Development with UUVRON ONE
• PNW DOD Innovation Team Mission Acceleration Center

CONCLUSION

"Advancing undersea readiness through innovation and world-class partnerships"

1 UNDERSEA WEAPONS

2 UNDERSEA TEST & EVALUATION

3 UNMANNED VEHICLES & PAYLOADS

4 SUSTAINMENT ENGINEERING

For Additional Information or Questions Contact:

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