Community Impact

• One of the largest employers in Ventura County.

• Employs more than 1,800 residents throughout the county.

• Established eight educational partnership agreements across five school districts.

• Success requires collaboration and partnership between military, government civilian, and industry teammates.
CIVILIANS - 2,346
- Long-Term Technical Accountability
- Essential Core Skills and Expertise

MILITARY MEMBERS -
23 OFFICERS, 68 ENLISTED
- Bring Fleet Perspective and Experience
- Gain Technical Leadership Expertise

INDUSTRY - 1,593
- Complement Government Knowledge Base
- Critical Industrial and Product Development Services
**Command Business Base**

**FY17 - $692M**

- **Contracted** $325M ($353M In House) + **Unobligated Reimbursable Funding** $14M = 47%

- **Work Years** 4,141
  - **Contracted** 1,574 (38%)
  - **Total Govt** 2,567 (62%)

**Major Sponsors/Programs**

<table>
<thead>
<tr>
<th>Program</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVSEA PEO IWS</td>
<td>47.2%</td>
</tr>
<tr>
<td>NAVSEA SEA21</td>
<td>10%</td>
</tr>
<tr>
<td>NAVSEA PEO LCS</td>
<td>8.8%</td>
</tr>
<tr>
<td>NAVSEA PEO SHIPS</td>
<td>6.6%</td>
</tr>
<tr>
<td>NAVAIR PEO U&amp;W</td>
<td>6.1%</td>
</tr>
<tr>
<td>DOD MDA</td>
<td>6.1%</td>
</tr>
<tr>
<td>NAVY OTHER</td>
<td>4.2%</td>
</tr>
<tr>
<td>NAVY FLEET</td>
<td>3.2%</td>
</tr>
<tr>
<td>NAVSEA PEO CV</td>
<td>2.2%</td>
</tr>
<tr>
<td>NAVSEA SEA06</td>
<td>1.2%</td>
</tr>
<tr>
<td>NAVSEA SEA06</td>
<td>1.2%</td>
</tr>
<tr>
<td>OTHER NAVSEA</td>
<td>1.2%</td>
</tr>
<tr>
<td>OTHER DOD/FED/PP</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100%</td>
</tr>
</tbody>
</table>

**FY17 Funding**

- **Reimbursable** $529M
- **Direct Cite** $163M
- **Total** $692M

**Programs**

- > 61
Discussion
The mission of the CTO is to facilitate the innovation and collaboration that accelerates research, development, evaluation and implementation of technologies necessary to meet the emerging and evolving needs of the Fleet and Warfighter.

This will be accomplished through the execution of an active Naval Innovation Science and Engineering (NISE) program, Strategic partnerships, Test and Experimentation, Workforce Development, STEM outreach and growth of organic subject matter expertise.
<table>
<thead>
<tr>
<th>FY18 Research Portfolio</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Confidentiality of Control System Firmware Verification (CoCoFVe)</td>
</tr>
<tr>
<td>• ANTX</td>
</tr>
<tr>
<td>• National Technical Means (NTM) Receiver Installation</td>
</tr>
<tr>
<td>• 1329 Innovation Lab</td>
</tr>
<tr>
<td>• NTM Integration</td>
</tr>
<tr>
<td>• FY18 Railgun Technology</td>
</tr>
<tr>
<td>• Next Generation Laser Tracking Tool (LTT)</td>
</tr>
<tr>
<td>• State Pattern IDentifieR (SPIDR)</td>
</tr>
<tr>
<td>• Raptor Integration for Electromagnetic Sensors (RIES)</td>
</tr>
<tr>
<td>• Cybersecurity-Based Software Metrics</td>
</tr>
<tr>
<td>• Lagging Replacement</td>
</tr>
<tr>
<td>• Phased Array RTV Coating Phase 2</td>
</tr>
<tr>
<td>• RF Covers</td>
</tr>
<tr>
<td>• Live Virtual Construct Carrier Strike Group (LVC CSG)</td>
</tr>
<tr>
<td>• Enterprise ATO Standing Package</td>
</tr>
<tr>
<td>• RPED Support</td>
</tr>
<tr>
<td>• Cyber Systems Engineering V</td>
</tr>
<tr>
<td>• SWARM-TAC Collaboration</td>
</tr>
<tr>
<td>• 1329 Innovation Lab</td>
</tr>
<tr>
<td>• Digital Inclination System</td>
</tr>
<tr>
<td>• WSMR Rotations</td>
</tr>
<tr>
<td>• Software Tools Update</td>
</tr>
<tr>
<td>• Advanced Radar Engineering</td>
</tr>
<tr>
<td>• Portable Planar Near-Field Scanner System</td>
</tr>
<tr>
<td>• Engineering and Reliability Analysis of Laser Weapon System Components after 5th Fleet Deployment</td>
</tr>
<tr>
<td>• Advanced Education</td>
</tr>
<tr>
<td>• Materials Center of Excellence</td>
</tr>
<tr>
<td>• Enterprise ISEA of the Future</td>
</tr>
<tr>
<td>• In-Service Cyber and CBM+ Capability Development</td>
</tr>
<tr>
<td>• Distributed Peer-2-Peer Data Exchange</td>
</tr>
<tr>
<td>• Deep Learning Algorithms for Remaining Useful Life</td>
</tr>
<tr>
<td>• Augmented Reality Technologies</td>
</tr>
<tr>
<td>• Rearming at Sea</td>
</tr>
<tr>
<td>• Bridging Tactical to Technical</td>
</tr>
<tr>
<td>• Surface Warfare Analysis Team</td>
</tr>
<tr>
<td>• Wargaming</td>
</tr>
<tr>
<td>• SMART</td>
</tr>
<tr>
<td>• Autonomous Logistics Operation</td>
</tr>
<tr>
<td>• Alternative Sparing &amp; Supply Model</td>
</tr>
<tr>
<td>• PACFLT Warfighting Assessment Playbook: MOBLOG Assessment Criteria Development</td>
</tr>
<tr>
<td>• Study on Additive Manufacturing Systems</td>
</tr>
<tr>
<td>• ORA Support</td>
</tr>
<tr>
<td>• AI for Maintenance (AI4M)</td>
</tr>
</tbody>
</table>
The Technology Transfer (T2) strategy enables Command strategic goals and initiatives by utilizing flexible, non FAR/DFARS, mechanisms and incentives to promote “Technology Transfer” between the Command and private sector (industry, academia, state and local government).
1. Work With Private Parties
2. Partnership Intermediary Agreements
3. Cooperative Research and Development Agreements
4. Educational Partnership Agreements

Strategic partnerships to extend the Command’s research and development capabilities
Coastal Trident 2018 will consist of scenario-based training, field experiments, and exercise activities conducted throughout Southern California, and will present participants with unique opportunities to examine specialized port and maritime technological capabilities.

NSWC PHD signed a Partnership Intermediary Agreement with Global Trade & Technology (501(c)(3)) in order to expand and leverage a regional program for the benefit of the warfighter and industry partners.

Priority Interest Areas:

**Domain awareness and information superiority**
- Unattended, distributed and networked sensors
- Maritime communications and data links
- Data fusion, visualization, and decision support tools
- Passive surveillance, reconnaissance, and threat detection

**Remotely-operated, unmanned, and autonomous systems**
- Stand-off threat detection, identification and hazard monitoring
- Persistent and beyond line-of-sight surveillance and reconnaissance
- Support to close-quarters combat and confined space operations
- Unmanned systems threat detection and countermeasures

**Maritime Advanced Systems and Technology (MAST) Expo, 23 May**
- A conceptual design technology exposition open to industry, academia, and government
Points of Contact

– Mr. Kurt Schultzel –
Chief Technology Officer
(805) 228-7608

– Mr. Alan Jaeger –
Office of Research and Technology Application Manager (ORTA)
(805) 228-7061

– Mr. Mark Jue –
Science and Technology Innovation Lead
(805) 228-7352
Discussion
INDUSTRY DAY

Contracts Office
Introductions/ Way Ahead

Mr. Joel Walor
Chief of the Contracting Office,
Naval Surface Warfare Center,
Port Hueneme Division
Introductions/Goals

• Code 02 Organizational Structure and Key Players

• Metrics

• Items of Interest

• Questions
Contracts Department

Contracts Approved for 59 Non-NADP Billets
PHD’s 3-Year Spend ($702M, FY15-17)

- 53% of this spend is competitive
<table>
<thead>
<tr>
<th>FSC/PSC</th>
<th>Description</th>
<th>Obligations</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>R4</td>
<td>Support - Professional</td>
<td>$462,816,161</td>
<td>1663</td>
</tr>
<tr>
<td>AZ</td>
<td>R&amp;D - Other Research and Development</td>
<td>$36,151,936</td>
<td>79</td>
</tr>
<tr>
<td>12</td>
<td>Fire Control Equipment</td>
<td>$34,742,534</td>
<td>126</td>
</tr>
<tr>
<td>J0</td>
<td>Maintenance, Repair, and Rebuilding of Equipment</td>
<td>$29,787,526</td>
<td>152</td>
</tr>
<tr>
<td>59</td>
<td>Electrical and Electronic Equipment Components</td>
<td>$25,511,080</td>
<td>32</td>
</tr>
<tr>
<td>14</td>
<td>Guided Missiles</td>
<td>$14,606,222</td>
<td>15</td>
</tr>
<tr>
<td>D3</td>
<td>Information Technology and Telecommunications</td>
<td>$10,407,638</td>
<td>89</td>
</tr>
<tr>
<td>FSC/PSC</td>
<td>Description</td>
<td>Amount</td>
<td>Actions</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------</td>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>70</td>
<td>Automatic Data Processing Equipment, Firmware, Software, Supplies</td>
<td>$12,888,410</td>
<td>325</td>
</tr>
<tr>
<td>59</td>
<td>Electrical and Electronic Equipment Components</td>
<td>$11,157,586</td>
<td>258</td>
</tr>
<tr>
<td>D3</td>
<td>Information Technology and Telecommunications</td>
<td>$5,101,402</td>
<td>66</td>
</tr>
<tr>
<td>53</td>
<td>Hardware and Abrasives</td>
<td>$3,157,349</td>
<td>70</td>
</tr>
<tr>
<td>66</td>
<td>Instruments and Lab Equipment</td>
<td>$1,852,370</td>
<td>48</td>
</tr>
<tr>
<td>71</td>
<td>Furniture</td>
<td>$1,606,609</td>
<td>62</td>
</tr>
</tbody>
</table>
Items of Interest

• Projected workload: Long Range Acquisition Forecast
• eCRAFT
• Seaport-e NxG
• Preview to 2nd Half of Session
Discussion
NSWC PHD is the designated onsite manager for the Navy’s Self Defense Test Ship (SDTS)

- **Ships:**
  - 1994-2003  DECATUR  (EDD-31)
  - 2005- present  PAUL F. FOSTER  (EDD-964)

- **Mission:**
  - To provide the Navy with an at-sea, remotely-controlled, self defense weapons engineering, test and evaluation platform for the conduct of advanced weapons evaluation without risk to personnel

- **Events primarily take place on the Point Mugu Sea Range**

- **At-Sea periods averaged 25 days/year since 2005, can surge as high as 90 days/year**
Scope of Effort

DISPLACEMENT.............. 9,100 TONS
LENGTH......................... 563 FEET
BEAM............................. 55 FEET
DRAFT........................... 32 FEET

POWER PLANT.............. 4 – LM 2500 GENERAL ELECTRIC
GAS TURBINES, TWO SHAFTS
80,000 SHAFT HORSEPOWER
SPEED......................... 33 KNOTS
Scope of Effort

• **Operations Support**
  - Pierside: required manpower for day-to-day operational support
  - At sea: required crew for safe navigation and engineering plant operations

• **Food Service**
  - Feed the crew for at-sea operations

• **Reporting and Documentation**
  - Maintain maritime and engineering logs
  - After-action reports following major events to maintain feedback loop
• **Maintenance and Repairs**
  - Conduct regular maintenance in accordance with government standards
  - Identify, document, plan and conduct repairs as necessary to keep SDTS operational
  - Examples: propulsion, electrical, auxiliary, small boat

• **Equipment Installation and Fabrication**
  - Install and/or fabricate equipment for customer projects and keeping ship operable
  - Provide assistance with ship configuration management
RFP Timeline

• Submit for Bid: TBD
• Bids Close: TBD
• Contract Award: TBD
Mr. Joshua Tuxhorn
Contracting Officer (Code 0233)
joshua.tuxhorn@navy.mil
(805) 228-7839
Discussion
Two separate procurement actions are anticipated to include efforts for Sustaining Engineering and Supply Chain Management to NSWC PHD Air Dominance and Ship Defense Departments for the following programs:

- Dual Band Radar (DBR)
- Air and Missile Defense Radar (AMDR)
- Enterprise Air Surveillance Radar (EASR)
- Naval Integrated Fire Control (NIFC) systems
Advanced Radar Programs

AMDR

EASR

EASR Variant 1
IFF
Rotating

EASR Variant 2
Fixed Face (x3)

DBR
• **Advanced Radars & Weapon Systems (AR&amp;WS) Engineering Services:** Synopsis and draft SOW was released on SeaPort-e during FY18 Q1. Plan on proceeding with releasing the RFP on SeaPort-e.

• **Advanced Processing Systems (APS):** RFI is planned to be released on FBO.gov during FY18 Q1. Seeking industry feedback on:
  – Contract strategy, statement of work, and incentives
  – Industry capability to accomplish/manage
Scope of Efforts

• AR&WS:
  – To provide cross functional Sustainment Engineering support

• APS:
  – To provide performance-based Supply Chain Management support for COTS x86 based equipment
**Contract Vehicle**

- **AR&WS:** NSWC PHD will utilize the NSWC Corona contracting office for the issuance of a Task Order under the SeaPort-e Multiple Award Contract

- **APS:** NSWC PHD will utilize the NAVSEA HQ contracting office for the issuance of this non-SeaPort-e contract
Mr. Michael Bierwolf
Advanced Radars Project Office Manager (Code A12)
Michael.bierwolf@navy.mil
(805) 228-0835
Discussion
Mr. Dave Scheid
Deputy, Corporate Operations Department
Naval Surface Warfare Center, Port Hueneme Division
• Provide Professional Support Services for the Naval Surface Warfare Center, Port Hueneme Division (NSWC PHD) Corporate Operations Office. The scope of effort includes support to various areas of Command Operations, including:

  — Administrative Professional Support
  — Material Technical Screening
  — Management Services Support
  — Reasonable Accommodation Services
  — Human Resources and Workforce Training Support
  — Financial Program Management Support
Scope of Effort

• Provide professional support services to technical staffs within various departments across NSWC PHD.
  — Knowledge and experience of customary administrative support duties, up to senior executive levels
  — Understanding organizational structure and protocol
  — Word processing, communication and spreadsheet software programs
  — Formal (Military/Navy) and informal correspondence etiquette
  — Routine clerical functions

• Provide technical screening and purchase request processing support services to NSWC PHD.
  — Review and provide technical specification support
  — Conduct and document market research
  — Recommend supply sources
  — Update / process purchase requests
• **Provide management support services to technical staff**
  - Knowledge and experience in the collection and analysis of information applicable to the Command
  - Supporting process improvements where applicable
  - Develop and present alternatives and formulate recommendations
  - Review Navy and DoD plans, policies, instructions and procedures, analyze Command impacts
  - Support strategic studies and prepare appropriate responses
  - Assemble and prepare documentation and reports to support and reflect progress on Command requirements, goals, objectives, projects, action items, upcoming events, issues and concerns
  - Provide support to the operations and maintenance of Document Control Centers (DCC) that contains SECRET, CONFIDENTIAL, and Sensitive but Unclassified media

• **Provide fully qualified and certified American Sign Language (ASL) interpreting services for TECHNICAL ENGINEERING classified and unclassified requirements**
Scope of Effort

• Provide support services for Human Resources and employee training
  — Knowledge and experience in the collection and analysis of information applicable to Human Resources and employee training in a Navy environment
  — Develop and present alternatives, and formulate recommendations
  — Assemble and prepare documentation and reports to support Command requirements, goals, objectives, projects, action items, upcoming events, issues and concerns with respect to Human Resources and employee training

• Provide support services for Financial Program Management Support
  — Detailed financial analysis, budget preparation and execution
  — Funds tracking and allocation
  — Knowledge and experience in the collection and analysis of information
  — Develop and present alternatives and formulate recommendations
  — Assemble and prepare documentation and reports to support Command requirements, goals, objectives, projects, action items, upcoming events, issues and concerns
RFP Timeline

• Submit for Bid: Jan 2018
• Bids Close: Feb 2018
• Contract Award: May 2018
Point of Contact

Mr. Joshua Tuxhorn
Contracting Officer (Code 0233)

joshua.tuxhorn@navy.mil
(805) 228-7839
Discussion
Back-Up
What is eCRAFT?

• The Electronic Copy Reporting and Financial Tracking tool (eCRAFT) is a post-award analysis and documentation system mandated by the Commander of Naval Undersea Warfare Center.
  – Use is mandated for all Naval Sea Systems Command Surface and Undersea Warfare Centers.

• eCRAFT provides for post award tracking and monitoring of costs for service contracts.
  – This allows for consistent, integrated metrics that allow senior leadership the ability to make informed decisions concerning service contracting use across all Warfare Centers.
Why is eCRAFT being implemented?

- Implementation will help ensure fidelity in tracking of costs, which protects both the contractor and the Government from potential mischarging and fraud.
- Utilization of eCRAFT fulfills the requirements of HQ G-2-0009 SUPPLEMENTAL INSTRUCTIONS REGARDING INVOICING (NAVSEA) (APR 2015) by producing output that can be used as the required attachment for invoice submission into iRAPT.
- Use will also standardize post award contract cost reporting across all Warfare Centers.
How will eCRAFT be implemented?

- eCRAFT standard text and instructions will be inserting into Section C of both upcoming and existing contracts.
- The standard text and instructions will direct contractors to begin using the eCRAFT system when invoicing for costs on applicable contracts.
- The eCRAFT text to be incorporated will also provide guidance as to which of the standard set of labor categories will apply to the specific contract in question. This “crosswalk” will be incorporated into the modification.
- The modification will be drafted and issued as bilateral.
eCRAFT Timeline

• Modifying existing contracts with eCRAFT and incorporating eCRAFT language into new procurements: Ongoing

• Estimated time frame for issuance of all modifications: End of January 2018.