

NAVAL SURFACE WARFARE CENTER PANAMA CITY DIVISION

# Command Overview

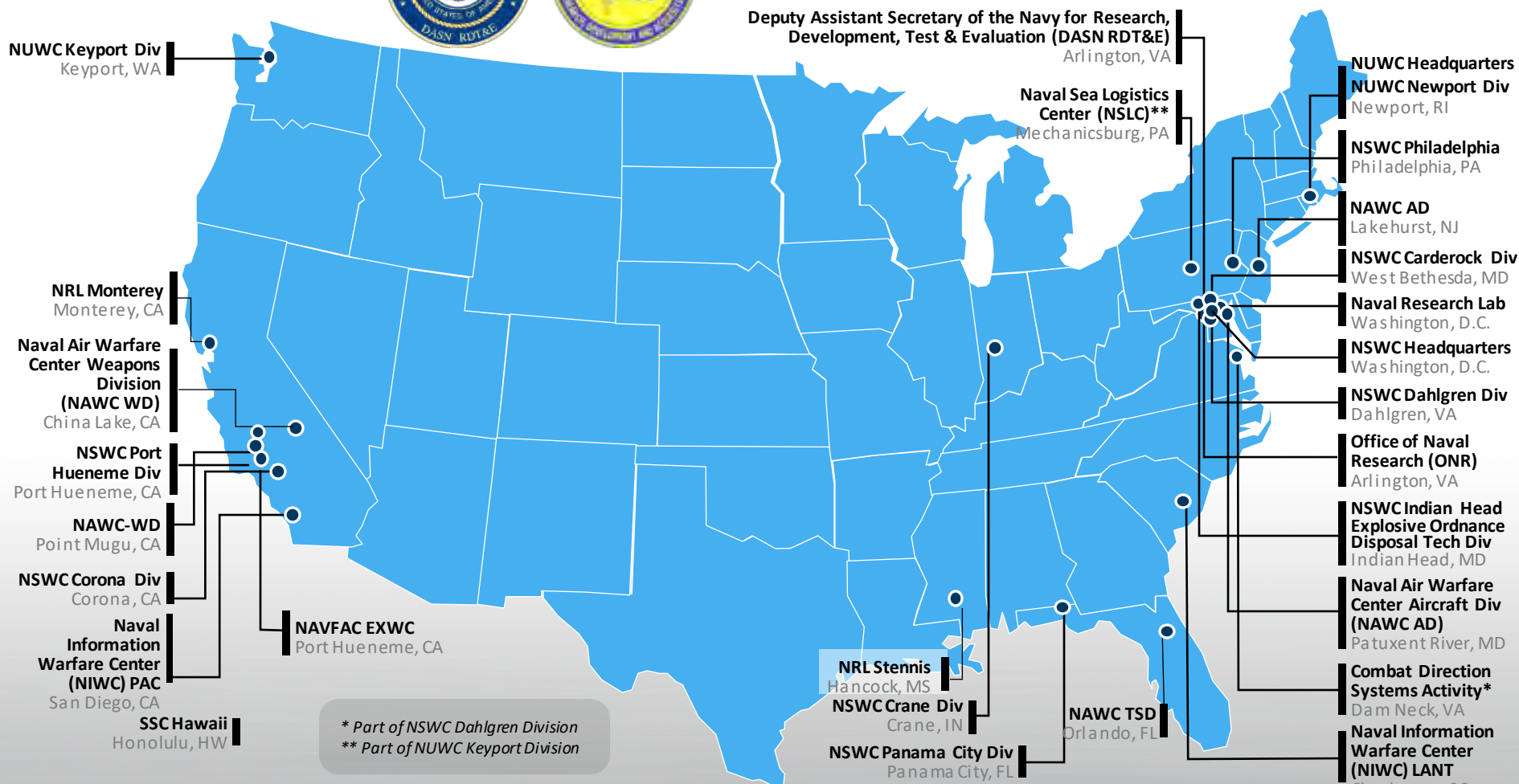
NSWC PANAMA CITY DIVISION

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# Who Makes Up Our Workforce

## Naval Research & Development Establishment (NR&DE)



### Quick Facts

- ✓ Diverse and highly educated workforce with over 36,000 scientists, engineers, and technicians (more than 2,000 Ph.D.s); 50,000 employees; annual budget greater than \$20B
- ✓ 17 S&T Reinvention Laboratories (STRLs) spanning NAVAIR, NAVSEA, NAVFAC, SPAWAR, NRL and ONR
- ✓ Conducts RDT&E for the DoN to discover, develop, transition and field technologically superior naval warfighting capabilities.
  - ✓ *Examples: prototype development, demonstrations and experimentation to accelerate the fielding of new operational concepts, technology and systems innovations.*
- ✓ Unique RDT&E facilities and test ranges
- ✓ Infrastructure has combined Plant Replacement Value greater than \$15B
- ✓ All designated as S&T Reinvention Laboratories (STRL)

# NSWC PANAMA CITY DIVISION LEADERSHIP



## DEPARTMENTS



**01** Stacy Gibson  
Comptroller



**02** Mary Langfeldt  
Contracts



**10** Dr. Jaimie Brock  
Corporate Operations



**A** Kevin Oakes, SSTM  
Littoral & Mine Warfare Systems



**E** Steve Hunt, SSTM  
Expeditionary & Maritime Systems



**X** Dr. Todd Holland, SSTM  
Science & Technology



# Enduring Mission



U.S. Navy Mine Countermeasures Station - circa 1945

**1945:** Established by SECNAV James Forrestal, the Station was used for development and testing of allied and enemy mines. Capitalizing on the existing amphibious base, the Station was established with the following mission: *“To perform research, development test and evaluation in mine defense, acoustic and torpedo countermeasures, inshore undersea warfare, swimmer-diver equipment and techniques and in related fields of science and engineering.”*



Naval Surface Warfare Center Panama City Division – circa 2022

**Present Day:** The mission of NSWC, Panama City Division is to conduct research, development, test and evaluation, and in-service support of both manned and unmanned mine warfare systems, subsea/seabed warfare systems, naval special warfare systems, diving and life support systems, amphibious/expeditionary warfare systems, other mission missions that occur primarily in coastal (littoral) regions and to executive other responsibilities as assigned by Commander, Naval Surface Warfare Center.



1945-1955



1955-1968



1968-1972



1972-1978



1978-1992



1992-2003



2003-Present

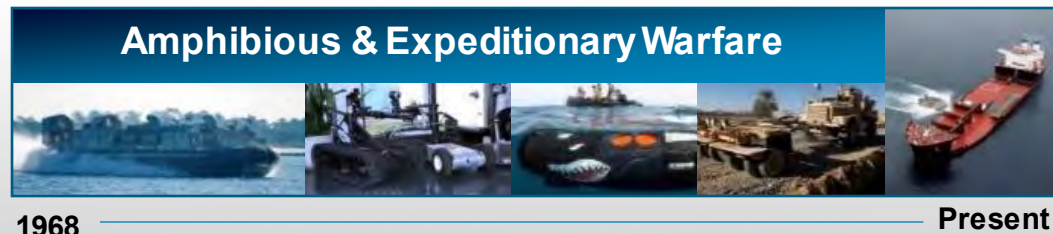
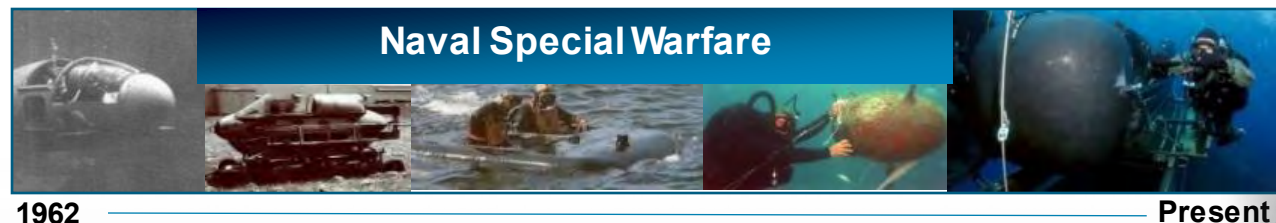
# Vision, Mission, Capabilities

## Vision

Delivering relevant solutions in the littorals from seabed to space: For Today, Tomorrow, and the Navy after Next.

## Mission

The mission of the Naval Surface Warfare Center Panama City Division is to conduct research, development, test and evaluation, and In-Service support of these areas:



**Strategic Campaign Plan**



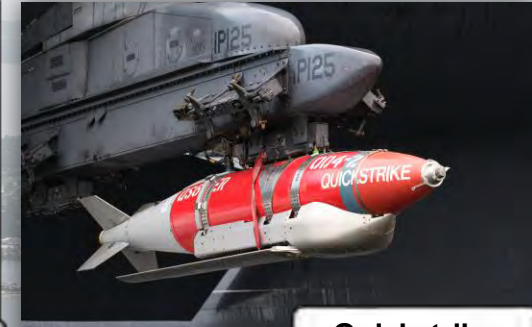


# What Makes NSWC PCD Unique

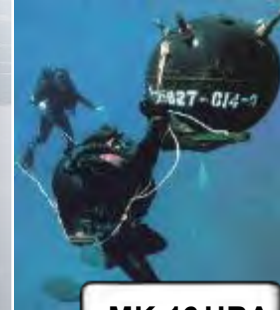
- Full Spectrum Mine Warfare to include Tactics
- Expeditionary Maneuver Warfare
- Ship to Shore Maneuver to include Air Cushion Vehicles
- Full Spectrum Diving and Life Support Systems
- Special Warfare Maritime Mobility
- Littoral Mission Systems Integration to include UxS
- Joint Gulf Test Range: open ocean, bays, estuaries, rivers, & harbors



Mine Countermeasures

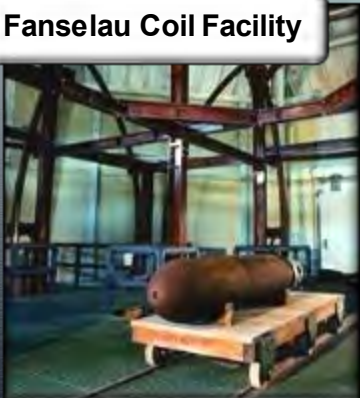


Quickstrike



MK-16 UBA

Fanselau Coil Facility



SEAL Delivery Vehicle



Sea Fighter (FSF-1)



Air Cushion Vehicle



Gulf of Mexico Test Range



**1600+**

Civilian  
Employees

**1200+**

Contractor  
Support  
Employees

**~40**

Military  
Personnel

- Active Duty Sailors
- PFIs
- PEP Officer



**\$586M**

FY23 Total Annual  
Funded Budget



# PCD Relationships



## The Impact

### Guiding Principles

- Serving the Nation, Warfighter and the Mission
- Operating as a Unified Team
- Caring for our People
- Learning and Growing
- Working Smarter, Not Harder

### Worldwide Reach

NSWC PCD directly supports Navy Fleets and warfighters throughout the world

### Sponsor Summary

Percent of Total Funding:

- |            |           |              |
|------------|-----------|--------------|
| • NAVY 91% | • USAF 2% | • ARMY 1%    |
| • USMC 3%  | • DoD 2%  | • Non-DoD 1% |

91%  
Navy  
Funding

### Top 5 Sponsors



#### Diverse Customer Base

Work spans from basic research to in-service engineering (ISEA)

#### Areas of Excellence

- Mine Warfare
- Expeditionary & Amphibious Warfare
- Subsea & Seabed Warfare
- Unmanned Systems
- Diving & Life Support
- Naval Special Warfare
- Science & Technology
- Other Coastal Missions

## Innovation Ecosystem

### Partners

DoD



Fleet



Other Gov



### Industry

21

Active Cooperative Research and Development Agreements (CRADAs)



### Academia

14

Active Educational Partnership Agreements (EPAs)



### Regional Partners





# About Our Employees: *Alumni*



## TOP FIVE Schools Represented

1. Florida State University
2. University of Florida
3. Auburn University
4. University of West Florida
5. University of Central Florida

We celebrate that our **diverse workforce** comes from all over the nation, with a wide variety of backgrounds and **education**.  
#NSWCPCD

**1,600+ Civilians**

**70+**  
Ph.Ds

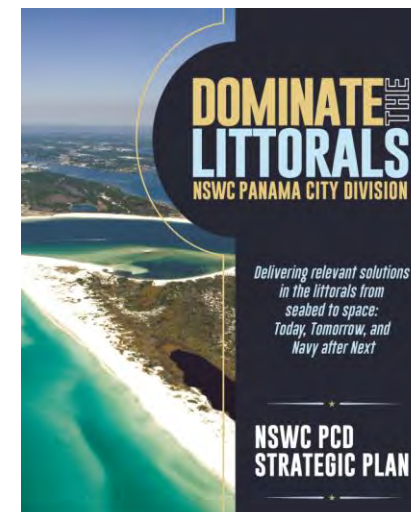
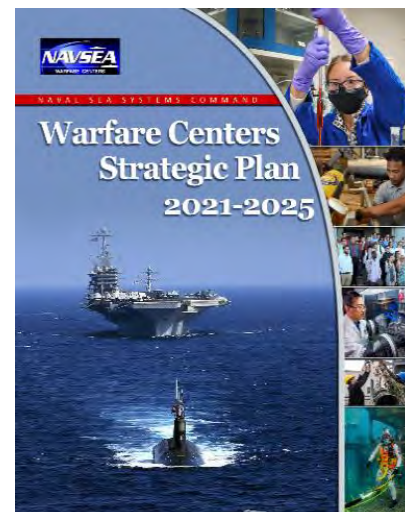
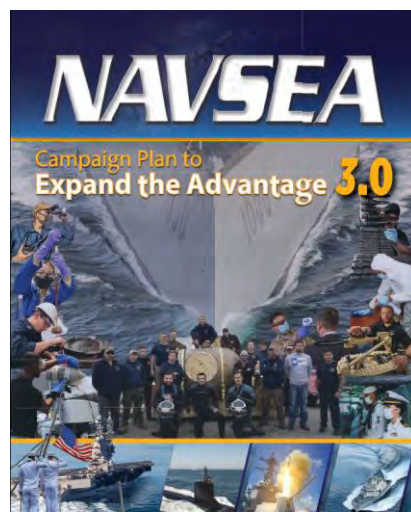
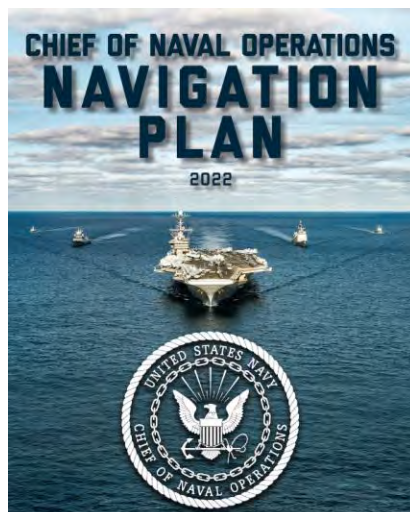
**400+**  
Master's  
degrees

**47**  
U.S. states  
represented





# Strategic Campaign Plan Alignment



## NDS STRATEGIC APPROACH

- Defending the homeland, paced to the growing multi-domain threat posed by the PRC
- Deterring strategic attacks against the U.S., her Allies, and partners
- Deterring aggression, while being prepared to prevail in conflict when necessary, prioritizing the PRC challenge in the Indo-Pacific, then the Russia challenge in Europe
- Building a resilient Joint Force and defense ecosystem

## FOUR PRIORITIES

- **Sailors:** Recruit and Retain Technically Skilled Naval Warriors
- **Readiness:** Deliver a Force to Fight and Win
- **Capabilities:** Deliver a Lethal, Modernized Full Spectrum Fleet
- **Capacity:** Deliver a Combat-Credible Hybrid Fleet Continuum

## EXPAND THE ADVANTAGE 3.0

- **Deliver Combat Power:** On-Time Delivery Of Combat-Ready Ships, Submarines and Systems
- **Transform Digital Capability**
- **Build a Team to Compete and Win**

## ENABLING MARITIME SUPERIORITY

- **Workforce and Leadership Development**
- **Mission-aligned strategies at the Division Level**
- **Technical Innovation and Excellence**
- **Business Excellence and Improvement**
- **Right Culture/Values**

## DOMINATE THE LITTORALS

- **Serving the Nation, Warfighter and the Mission**
- **Operating as a Unified Team**
- **Caring for our People**
- **Learning and Growing**
- **Working Smarter, Not Harder**

*One Team: Expanding the Advantage through Collaboration*



# FY24 Division Technology Focus Areas





# Business Departments



## Code 01

### Comptroller

Responsible for all financial management functions:

- Fiscal policy & regulations
- Budget
- Accounting
- Financial services

Provide command management with technical advice and guidance in:

- Budget formulation & execution
- Managerial accounting
- Financial review & management analysis
- Program analysis
- Internal control systems
- Integrated financial systems

The Comptroller:

- Reports directly to Commanding Officer
- Serves as the Chief Financial Advisor to the Division
- Is delegated fiduciary authority under Title 31 USC 1517

## Code 02

### Contracts

Responsible for the end-to-end management and execution of the procurement process

1. Solicitation
2. Proposal
3. Evaluation
4. Award through contract closeout

Manages and directs the procurement functions, which support the Warfare Center's technical programs and missions.

Organized around three Contract Divisions and an Engineering Liaison Office:

1. Littoral and Mine Systems Contracts Division
2. Expeditionary and Maritime Systems Contracts Division
3. Small Purchase Division

## Code 10

### Corporate Operations

Manages and direct business functions that support the Warfare Center's technical programs and missions.



**10E**

EEO, Diversity & Inclusion



**101**

Human Resources Management



**102**

Infrastructure



**103**

Corporate Communication



**104**

Information Technology



**105**

Security



**106**

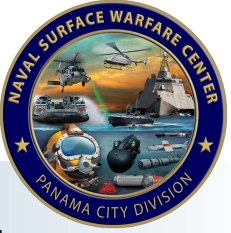
Corporate Business Office



**107**

Property Management

# Littoral and Mine Warfare - A Department



- NAVSEA Mine Warfare Technical Warrant Holder
- Birthplace of Airborne Mine Countermeasures
- Force Behind Mine Warfare Fleet
- Mine Countermeasures & Mine In-Service Engineering

- Research & Technology Development for Future Capabilities
- MIW Analysis, Tactics, and Simulation
- NAVSEA Warfare Center for all Maritime Mining

- Mines In-Service Engineering
- Mine Improvements Program Support
- Rapid Repurposing of Legacy
- Systems for Urgent Capabilities

## Mining



Quickstrike MK62/63/65



Quickstrike MK62s



Quickstrike Mod X JDAM  
Extended Range



Submarine Launched Mobile  
Mine (SLMM) MK67



SLMM MK67



Clandestine Delivered  
Mine MK67 Mod X



Advanced Undersea  
Weapons System (AUWS)

## MCM Mission Packages



COBRA



AN/AQS-20



USV UISS



AN/AQS-24



ANASQ-235 AMNS



AN/AES-1, ALMDS



Knifefish

## Airborne Mine Countermeasures



## Surface Mine Countermeasures



MHU 1-4  
Unmanned  
Surface Mine  
Hunting  
Vehicle



AN/SQQ-32  
Mine hunting  
Sonar



SEAFOX  
Underwater  
Unmanned  
Vehicle





# Expeditionary and Maritime Systems – E Department

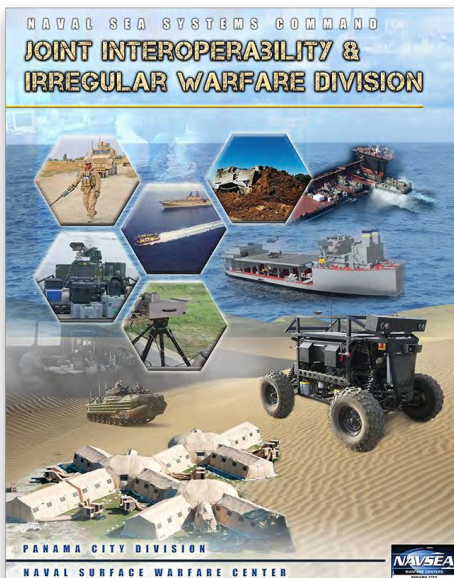


E10



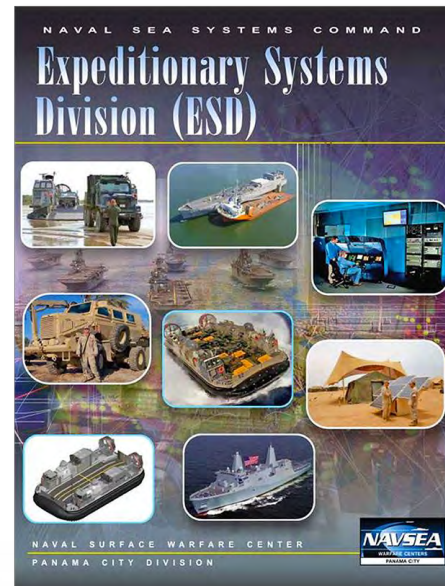
- NSW Undersea Mobility (SEAL Delivery Vehicle [SDV], Dry Combat Submersible [DCS])
- Mk 18 UUV Family of Systems
- Diving and Life Support Systems
- Damage Control Personal Protective Equipment (DC PPE)
- Chemical Biological Defense (CBD) & Ballistic Personal Protections
- Gas Analysis for Deep Submergence Systems

E20



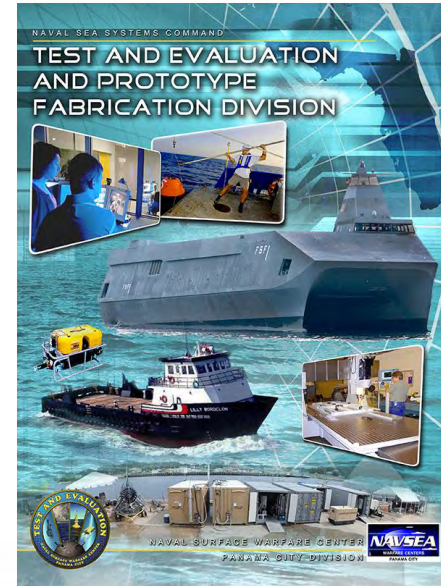
- Joint and Navy Expeditionary C4I
- Network architecture, engineering & integration
- Cybersecurity
- In-service engineering
- Over-the-Horizon Operational Maneuver from the Sea
- Navy Non-Lethal Effects
- Counter Unmanned Aerial Vehicle detect/track technology
- Persistent Awareness Systems

E30



- Air Cushion Vehicle Systems
- Expeditionary Platform C4N
- Expeditionary Maneuver Warfare
- Amphibious Ship Interfaces, Integration, and Engineering
- Seabasing/Expeditionary Advanced Base Operations
- USMC Vehicle Support
- Mobility/Counter-mobility systems
- Explosives Hazard Defeat
- Marine Corps Shipboard and Seabase Interfaces

E40



- Test & Evaluation
- Ranges & Facilities
- Oceanographic Support Office (OSO)
- Coastal Test Range (CTR)
- Boat House
- R/V Sea Fighter (FSF-1)
- Fabrication and Prototype Shops
- Non-Magnetic Testing Area (NMTA) & Ordnance Ranges
- Unmanned Aerial System (UAS) Program

E50



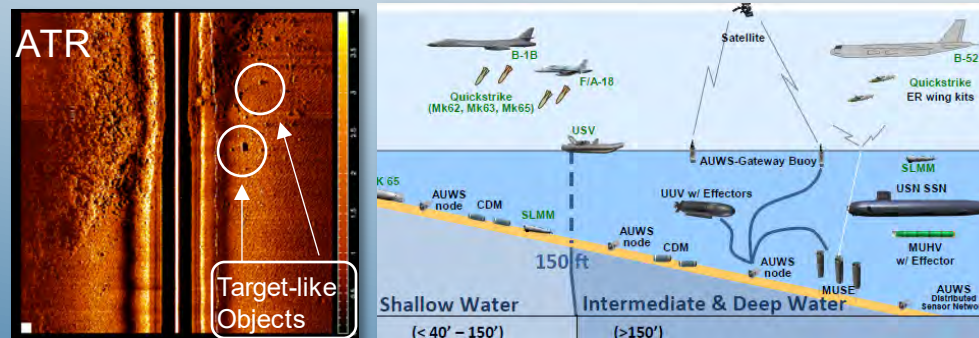
- Cradle-to-Grave Logistics Planning and Management
- Configuration Management
- Provisioning
- PSD Planning
- Reliability-Centered Maintenance
- Technical Manual Development (S1000D Expertise)
- Training & Curriculum Development



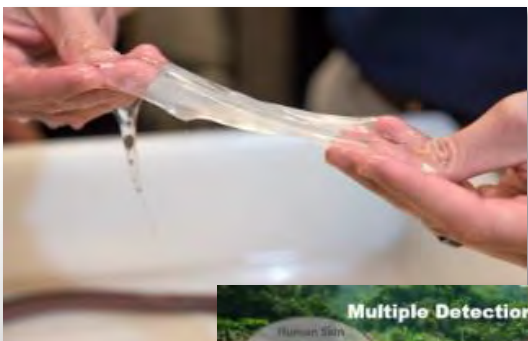
# Science and Technology – X Department

- Unmanned Systems, Autonomy & Dynamics
- Magnetics, Optics & Data Fusion
- Marine Corps S&T
- Advanced Mining Technologies
- Physical Acoustics, Sensors & Processing
- Biotechnology
- Automatic Target Recognition (ATR)

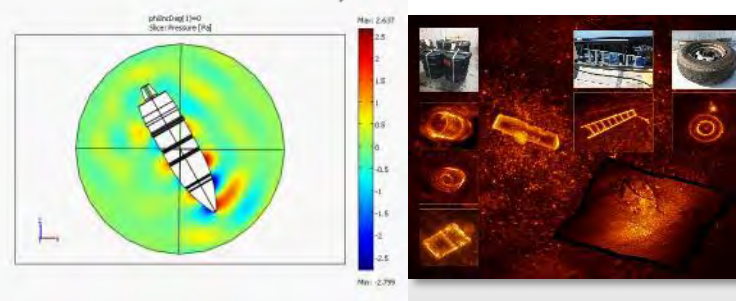
## ADVANCED MINING TECHNOLOGIES



## BIOTECHNOLOGY



## PHYSICAL ACOUSTICS, SENSORS & PROCESSING



## MAGNETIC / ACOUSTIC / EO DATA PRODUCTS



MSTL SLS Image      EOI Image      Magnetic Time Series

*Magnetic contact position displayed by a yellow circle overlaid on SSS images*



MARINE CORPS S&T

UNMANNED  
SYSTEMS,  
AUTONOMY  
& DYNAMICS

