Tactics, Techniques & Procedures

Captain Ron Peterman, US Navy
Commander,
Surface Warfare Development Group

Surface Warfare Development Group

...is the surface force agent for tactical development and evaluation

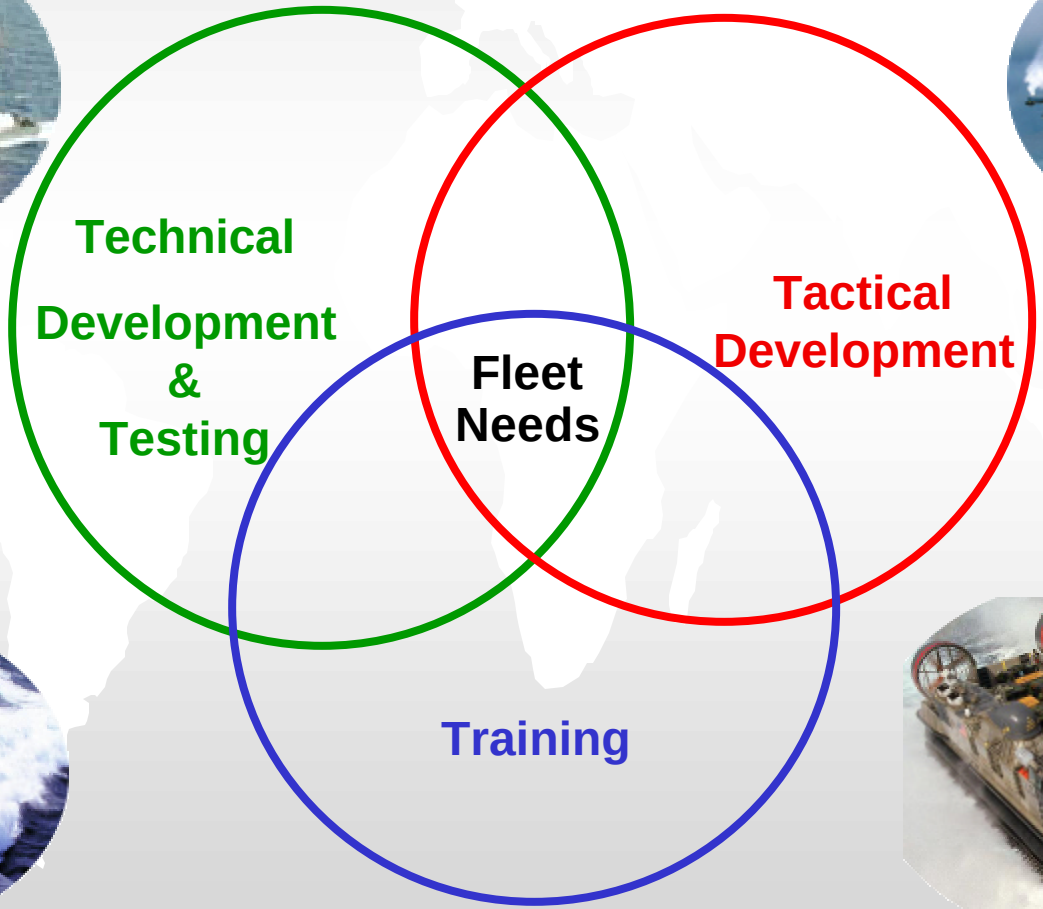
The "group" is the fleet

The fleet is the customer

SWDG Mission

- Provide the Fleet with tactics, techniques and procedures to support the U.S. warfighting capability
  - If we went to war tomorrow, how would we employ our ships?
    - Not in 2010 or 2015
    - Not with the Starship Enterprise's technology and capabilities
    - Not geo-relocating the Arabian Gulf to Southern California
    - Not using unrealistic simulations of the actual threat
  - But against today's potential threats in regions of national interest
  - In the environment that we would have to fight in under the climatic conditions we would expect

Fleet Operational Requirements



Protection of Shipping

Air Warfare

Chemical and Biological Warfare

Information Warfare

Special Warfare

Military Operations Other Than War

Amphibious Warfare

Surface Warfare

Theater Ballistic Missile Defense

Anti-submarine Warfare

Undersea Warfare

Anti-Air Warfare

Strike Warfare

Force Protection and Anti-terrorism

Mine Warfare

Proliferation of Technology

The Bubble of a Naval Warfighter

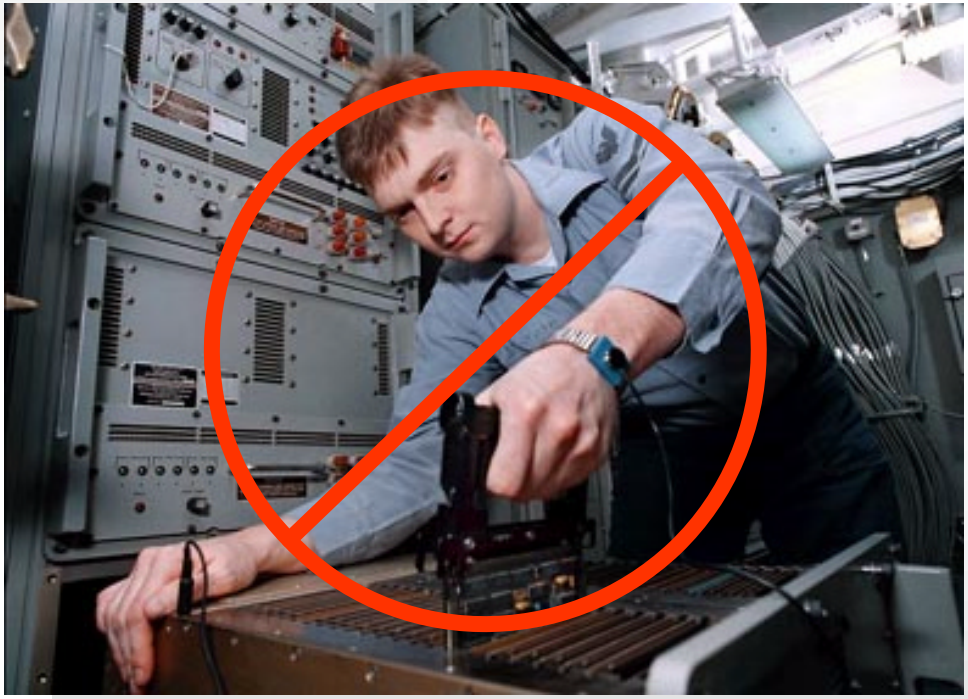
Active Sonar settings
Passive sonar settings
Organic Helo
Water Conditions
Fire control Systems
Ship Stationing
Tomahawk launch point
SAM sites
Coastal missile sites
Force disposition
Threat emitters
Rapid Reaction Procedures

Weapons Status
Aircraft in support
Decoy status
Data Links
Radar refractivity
Comm circuits
3D Radar settings
2D Radar settings
Air lanes/routes
Shipping density
Shipping routes
Weather

The real perspective - as it pertains to this conference and you - of the testing and training community . . .

It’s Not the Ship

Not the Equipment



Not the CO

The real perspective - as it pertains to this conference and you - of the testing and training community . . .

Is the 18-23 year old Sailor!

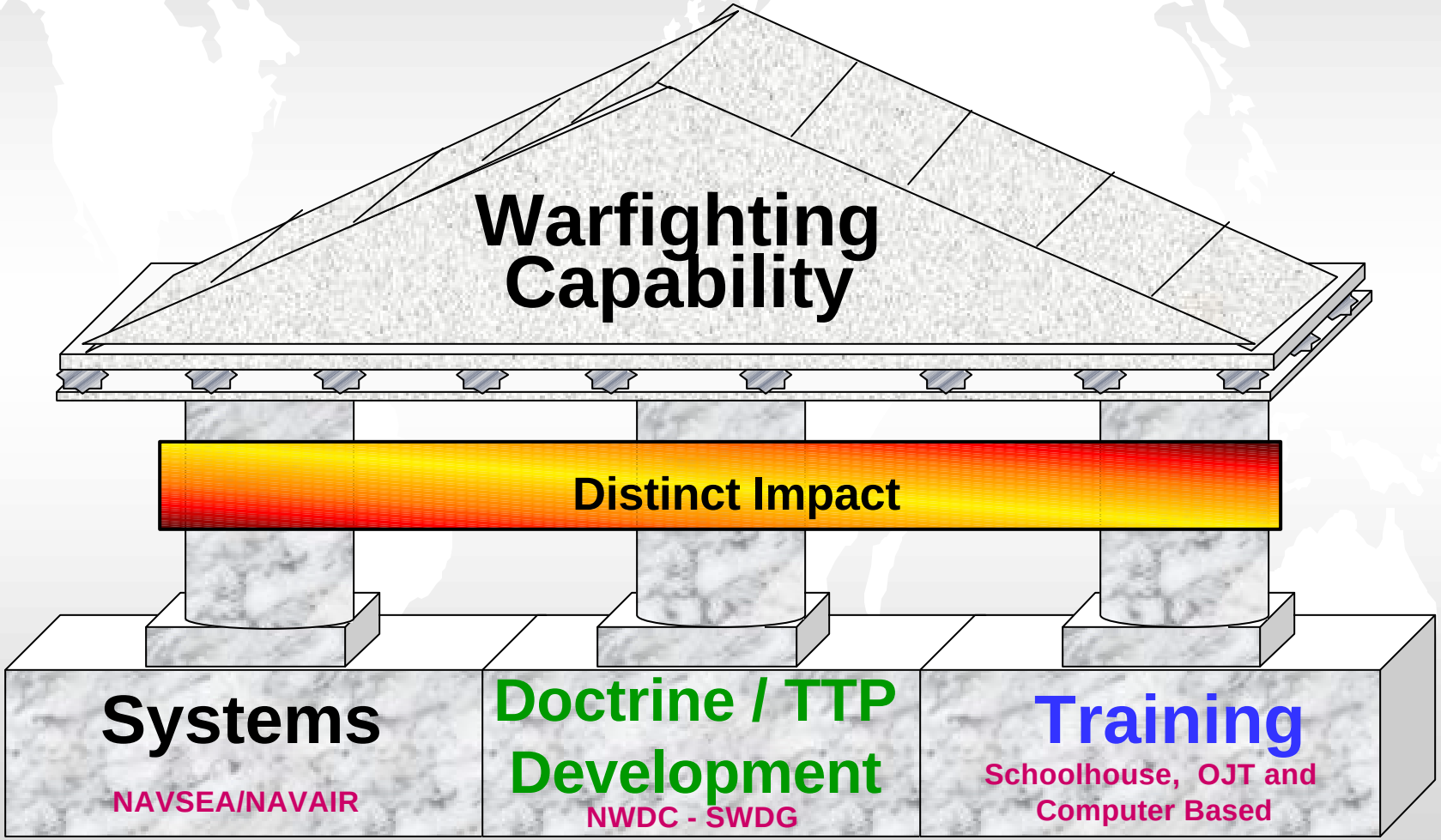
Is the 18-23 year old Sailor!

Getting the Most Benefit Out to the Sailor Out of Every Opportunity

- Schoolhouse training
  - Accession Training
  - Billet Speciality Training
- Shipboard training
  - Synthetic Training
  - OJT
  - At sea evolutions
  - Unit at sea exercises
  - Force at sea exercises

Where the rubber meets the road:
- Deployment
- Presence

The Pillars of Warfighting Capability



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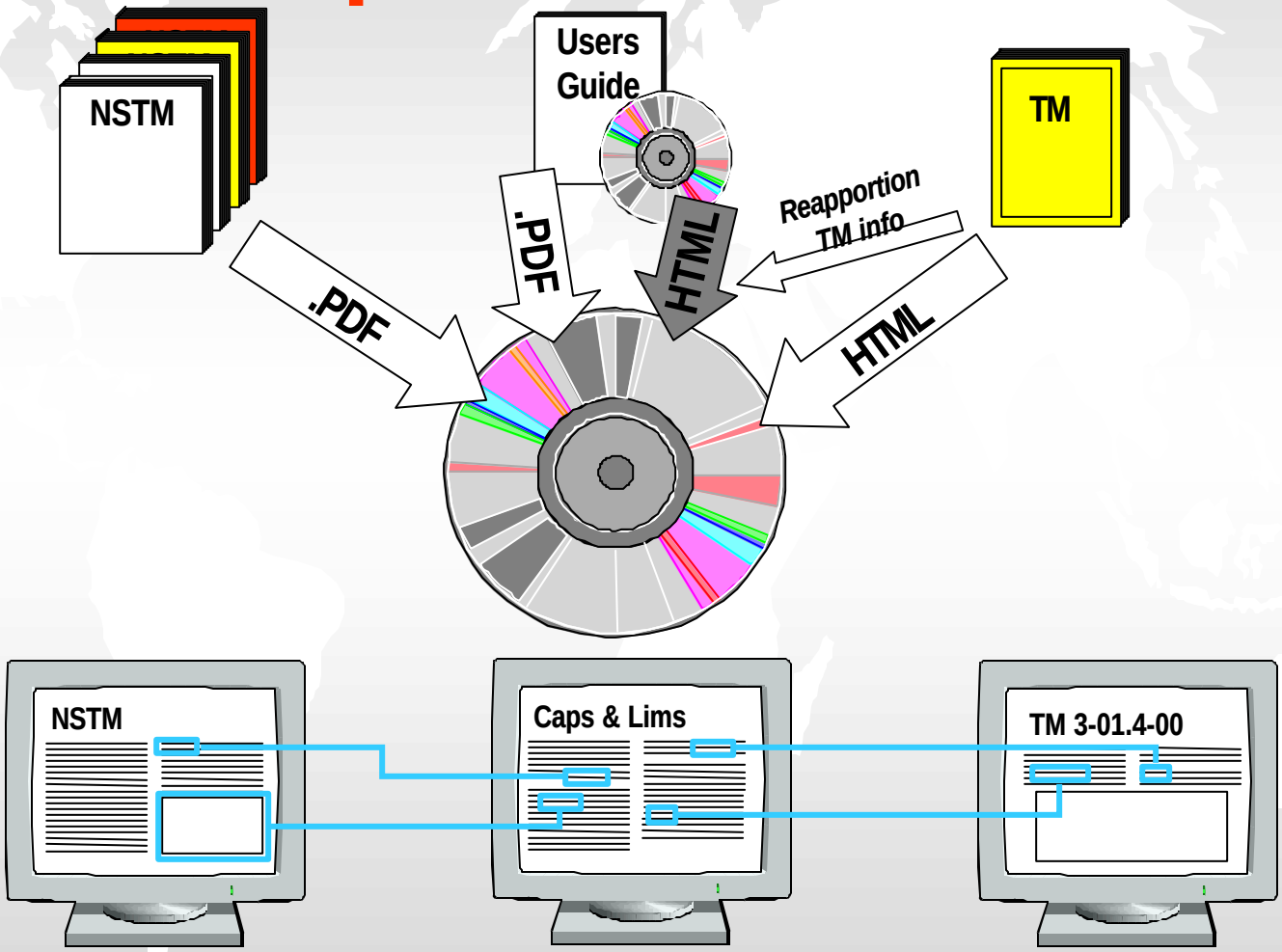
The Pillar of Doctrine and Tactics, Techniques and Procedures



Provide the warfighter technical information with integrated tactical & operational employment guidance!

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Surface Ship FP/AT TACMEMO

Spring-Summer 2001 Warrior Spirit E-zine

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Briefs

Warfare Areas

Publications/Web Support

Request for Tactical Information

Automatic Tactical Information Notification System

Command Information/Map

Mission Statement

Software Archives

SURFWARDEVGRU

SURFWARDEVGRU is the Center of Excellence for the development and improvement of fleet tactics and doctrine in surface, air, undersea, electronic, and amphibious warfare and is also CNO's executive agent for the Ship Antisubmarine Warfare Readiness/Effectiveness Measuring (SHAREM) and Mine Warfare Readiness/Effectiveness Measuring (MIREM) programs. Our team is composed of 130 military, civil servants, and contractors.

New TACMEMOs

- TM SWDG 3-07.1-01
  Boarding of Noncompliant Vessels in Support of MIO (U)
- Draft TM SWDG 3-10.1-01
  Small Boat and Surveillance Tactics for Antiterrorism/Force Protection of High Value Assets in an Inshore Harbor Environment

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- Defense of Static HVA
- Vessel Escort
- Considerations For The Use of Force
- Patrol Briefs and Debriefs
- Intrusion Response and Interdiction
- Boarding Procedures for FP/AT Operations
- Introduction To Surveillance Tactics
- Surveillance Resources
- Employment of Surveillance Assets
- Mission Specific Considerations For Surveillance
- Transition to Doctrine
- Appendixes
- Download/Print Publication

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TM SWDG 3-10.1-01

Small Boat and Surveillance Tactics for Antiterrorism/Force Protection of High Value Assets in an Inshore Harbor Environment

DRAFT

Tactics for Atlantic and Pacific Surface Forces

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  - Roles of Security Boats in HVA Static Defense
  - Boat Deployments in HVA Defense
  - Multiple Defended Assets
  - Disposition of C&I
  - HVA Transit Escort
  - Antiswimmer/Diver Measures
- Vessel Escort
- Considerations For The Use of Force

Multiple Defended Assets

Frequently, there may be a pier, two or more ships at anchor, vessel escort, and perhaps other HVAs which require defense. These multiple-asset scenarios require a harbor-wide FP posture rather than a point defense approach. In this environment, the following elements are required:

- Integration of fields of fire among ships, piers, and any landward security elements such as gate sentries to provide necessary coverage while minimizing the possibility of fratricide
- Deployment of sufficient sensor capabilities to cover radar and visual blind spots
- Continuous tracking of contacts throughout the harbor area so that all activities of suspicious vessels or craft are monitored and reported
- Larger boat patrol areas to ensure that coverage overlaps between nearby defended assets to inhibit hostile activity and interdict hostile craft as far as possible from the HVAs

One possible example of multiple defended assets and the waterborne FP assets assigned is shown in the Multiple Defended Assets figure.

Multiple Defended Assets figure

In this case, 10 security boats may be required to provide FP, depending on the level and types of threat. Commanders may have to prioritize the allocation of scarce assets to provide the best possible defense.

Appendix E provides a worksheet for assessing the risks to various HVAs to aid in allocation of defensive resources. Some options for protecting HVAs when boat assets are limited include:

- Placing surveillance and point defense teams onboard ships, either at anchor or during transit, using a pilot boat

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List of Active SWDG Tactical Memoranda (TACMEMOs)

TM No.	Title	Link/File Format
3-01.1-01	CEC Tactical Employment Guide (CEC OPEVAL) (U) (With Change 1 Incorporated) NEW	PDF (2.66 MB)
3-01.2-01	Aegis Core Tactics (U) (Document is under review)	PDF (2.25 MB)
3-01.3-01	Self-Defense Engagement Guidance for ACDS Block 1 Configured Ships (U)	PDF (531 KB)
3-01.4-01	(Draft) Tactical Employment of AN/SWY-3 SDSMS (U) NEW	PDF (1.25 MB)
3-01.2-98	QRCC/SSDS Mk 1 Overview and Tactics for LSD 41/49 Class Ships (U)	PDF (2.69 MB)
3-01.3-98	AN/SYQ-17 RAIDS Employment Guide for FFG 7 Class Ships (U)	PDF (963 KB)
3-01.4-98	Tactics to Counter Closely Spaced Multiple Target Stream	PDF (1.93 MB)

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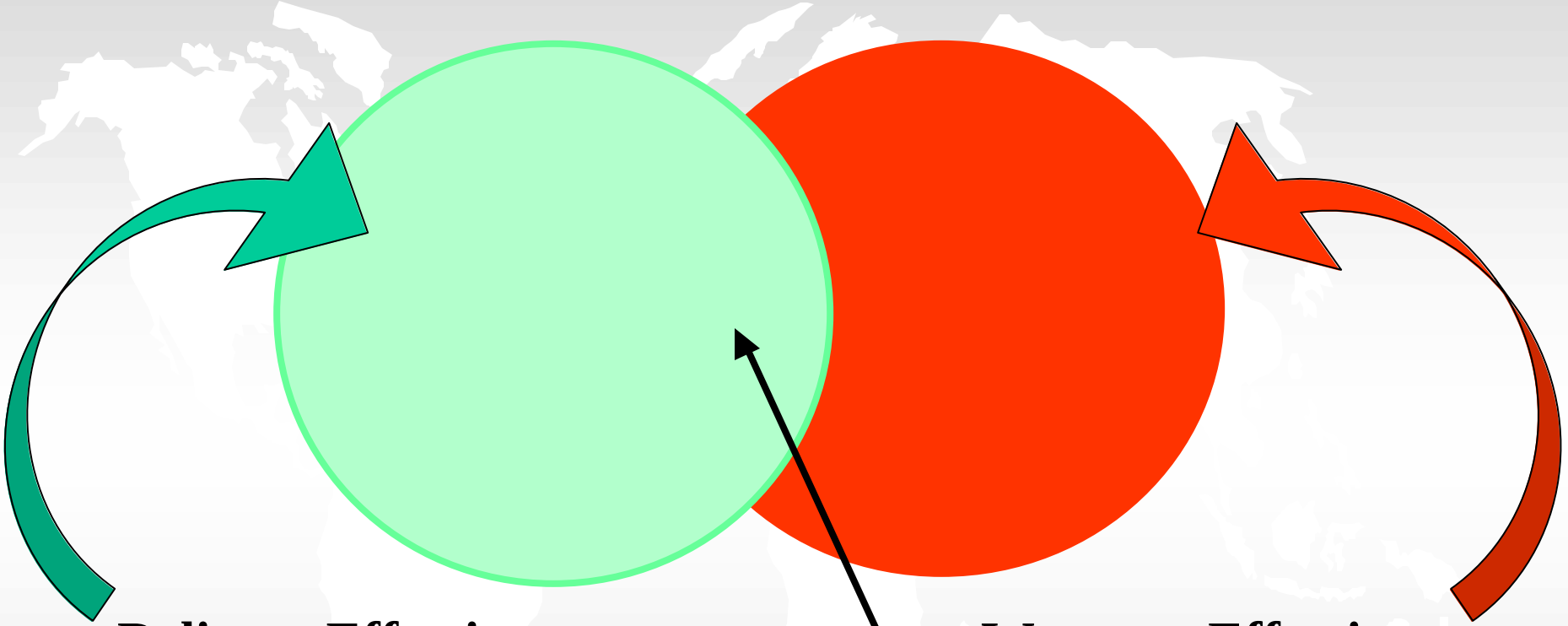
Tactical Analysis

- SWDG based programs
  - Structure and Planning
  - Tactics Development
  - Execution and Data Collection
  - Reconstruction
  - Analysis
  - Data Archival
  - Reporting
- All programs in comprehensive restructuring - <u>to apply current thought processes and technology</u>
- Providing a test bed for emergent technologies

Tactical Analysis (Cont.)

- Reconstruction: Transitioning to state-of-the-art systems that provide adequate fidelity.
- Analysis:
  - Allow standard analysis processes to be automated.
  - Provide tools to break out of the “spreadsheet and logs” mentality.
  - Develop method to quantify tactical performance.
- Archival: Provide a means to retain and manipulate 30 years of data
- Reporting: Replace five-part messages with SIPRNET/ CD based reports and deliver them within 90 days

USN ASUW Capability Assessment



Delivery Effectiveness

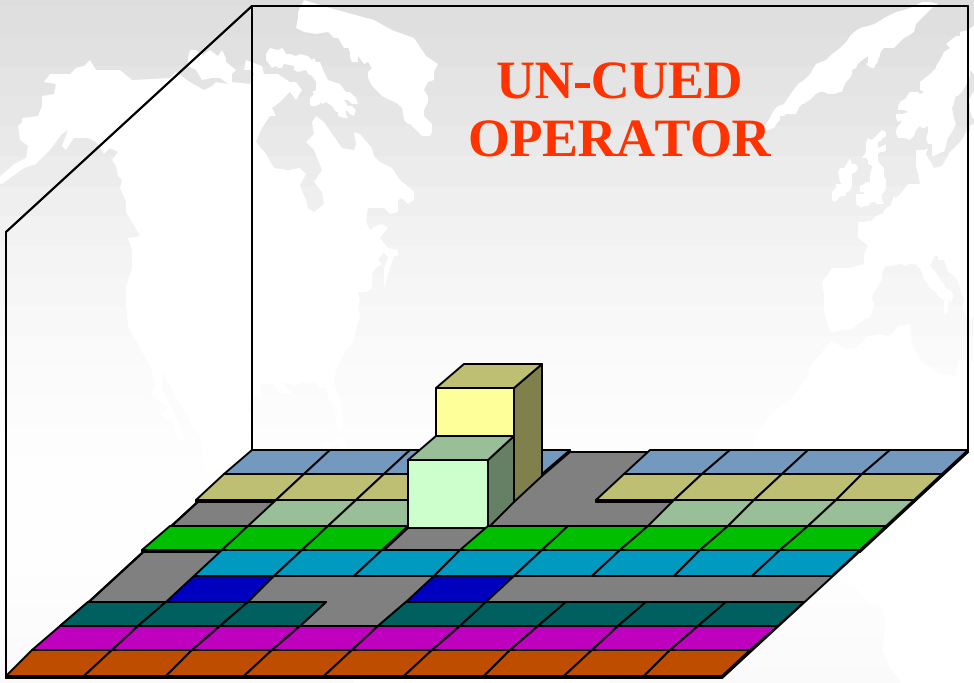
- Tactics
- Tactical Proficiency
- Delivery platform characteristics

Weapons Effectiveness

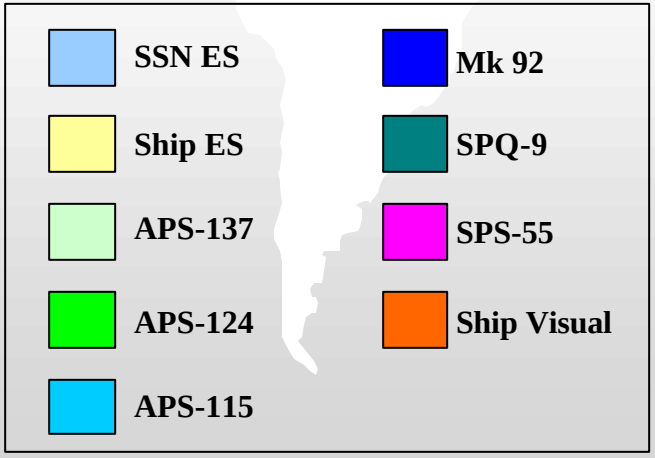
- JMEMs
- CNA

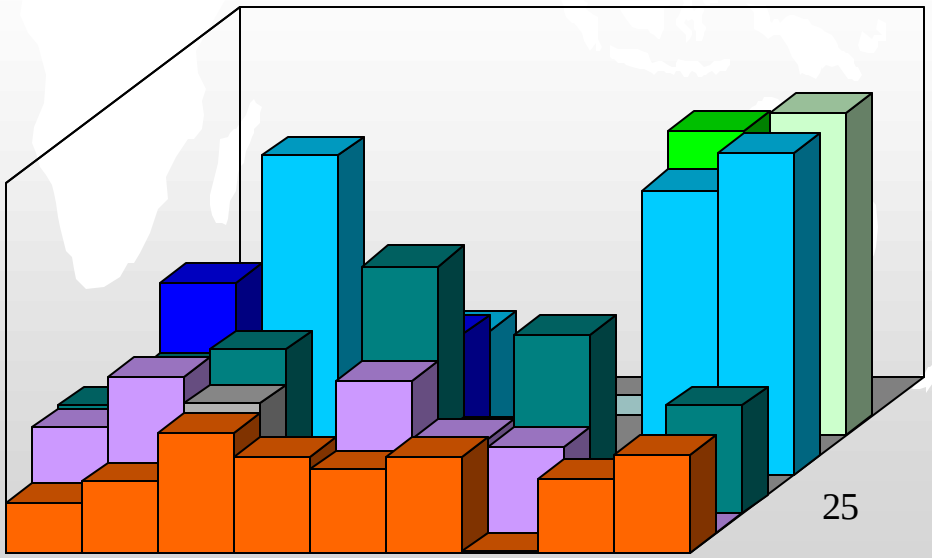
ASUW Assessment

Why Training is the Key to Success



Sixth Fleet AOR
50% Probability of Detection
NON-ACOUSTIC SENSORS





Unified Warrior Missile Exercise Results

- 25 Missiles shot at 20 targets
- Highlights
  - Stream Raid tactics validated
  - 6 SM2 successful intercepts
  - 1 successful NATO Seasparrow RIM-7P++ warhead kill against Exocet
  - ENTERPRISE Battle Group completed all missile quals
- Lowlights
  - 7 NATO Seasparrow RIM-7P++ shots without data
  - Improper procedures prolonged engagements
  - No Standard Missile SM2 BLK IIIB /SM1 BLK VI performance evaluation
  - 2 serious equipment problems discovered
  - 2 unallocated missiles fired

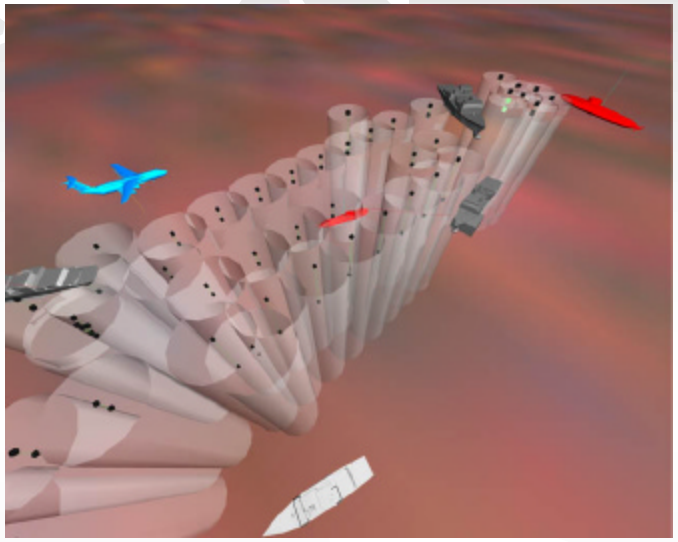
Unified Warrior Results

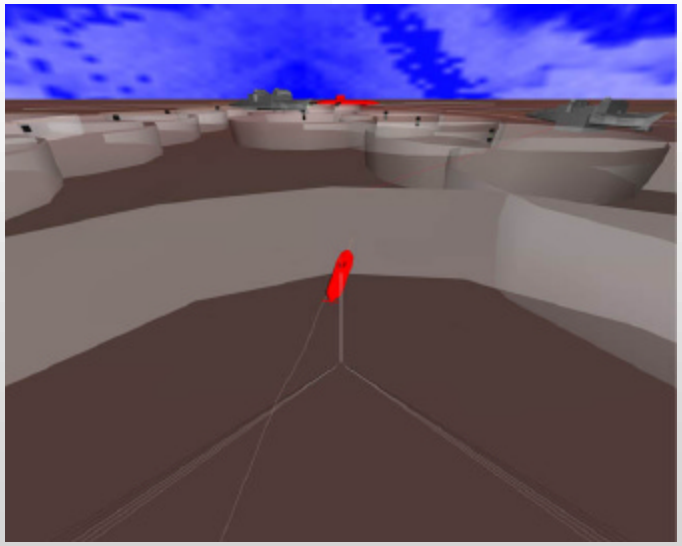
USN Only -- “Real Targets” versus BQMs

EXOCET/KORMORAN MISSION RATIO

BQM MISSION RATIO

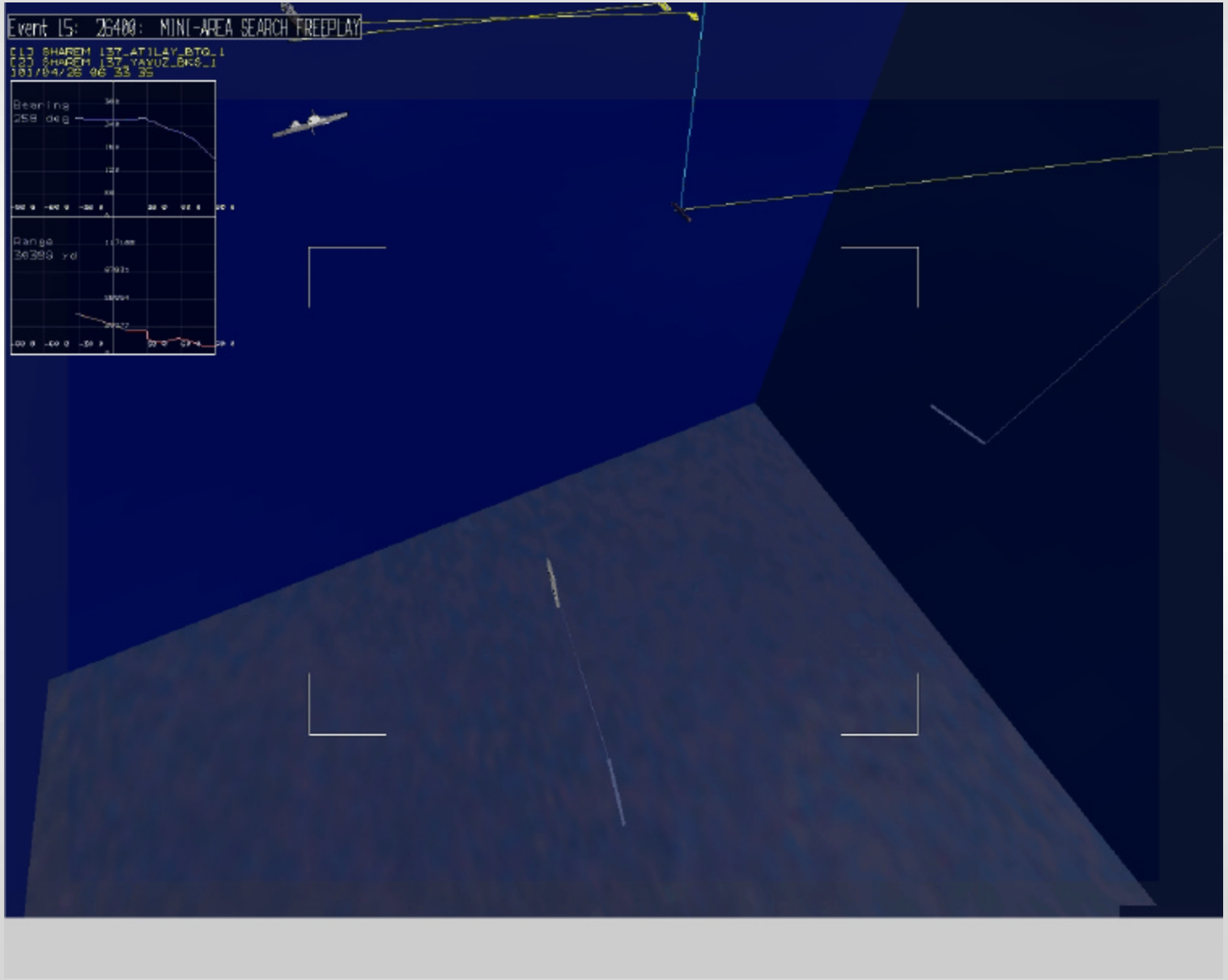
Multi-dimensional User-oriented Synthetic Environment (MUSE) Application





- **Rational:**
  - Enhanced cueing methodology for the analyst.
  - Accomplish additional analysis requirements.
  - Provides alternative method of data presentation.
- **MUSE:**
  - Developed by Sandia Laboratory for nuclear weapons industry.
  - Provides multi-dimensional display of exercise data with an emersive environment.
  - Allows collaborative analysis.

Mini-Area Search Freeplay 2 Video



Questions?