



Ordnance Safety & Security Activity

NDIA 2007

Munitions Executive Summit *“Sustaining Industrial Readiness”*

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Agenda

- Introduction
- Current SMCA Investment
- Sea Basing
- Navy Initiatives
- Joint Participants
- Challenges to Community
- Summary





Introduction

- SEA-00V assigned NAVSEA responsibilities including technical authority for:
 - ✓ Weapons and Ordnance Safety
 - ✓ Performing platform/strike force interoperability engineering and certification



Explosives Safety Authority

Section 172 of Title 10, United States Code

- *Requires DoD to establish and maintain an explosives safety program*

DoD Directive 6055.9

- *Requires services to maintain an explosives safety program*

SECNAVINST 5100.10H

- *Directs CNO/CMC to establish safety programs*

OPNAVINST 8020.14/MCO P8020.11

Explosives Safety Policy

NAVSEA Serve as DON Technical Authority for Expl Safety


NAVSEAINST 5450.117

Assigns Technical Authority to NOSSA

OP-4, OP-5, WSESRB, HERO, ESI, SOP, QUAL/CERT...



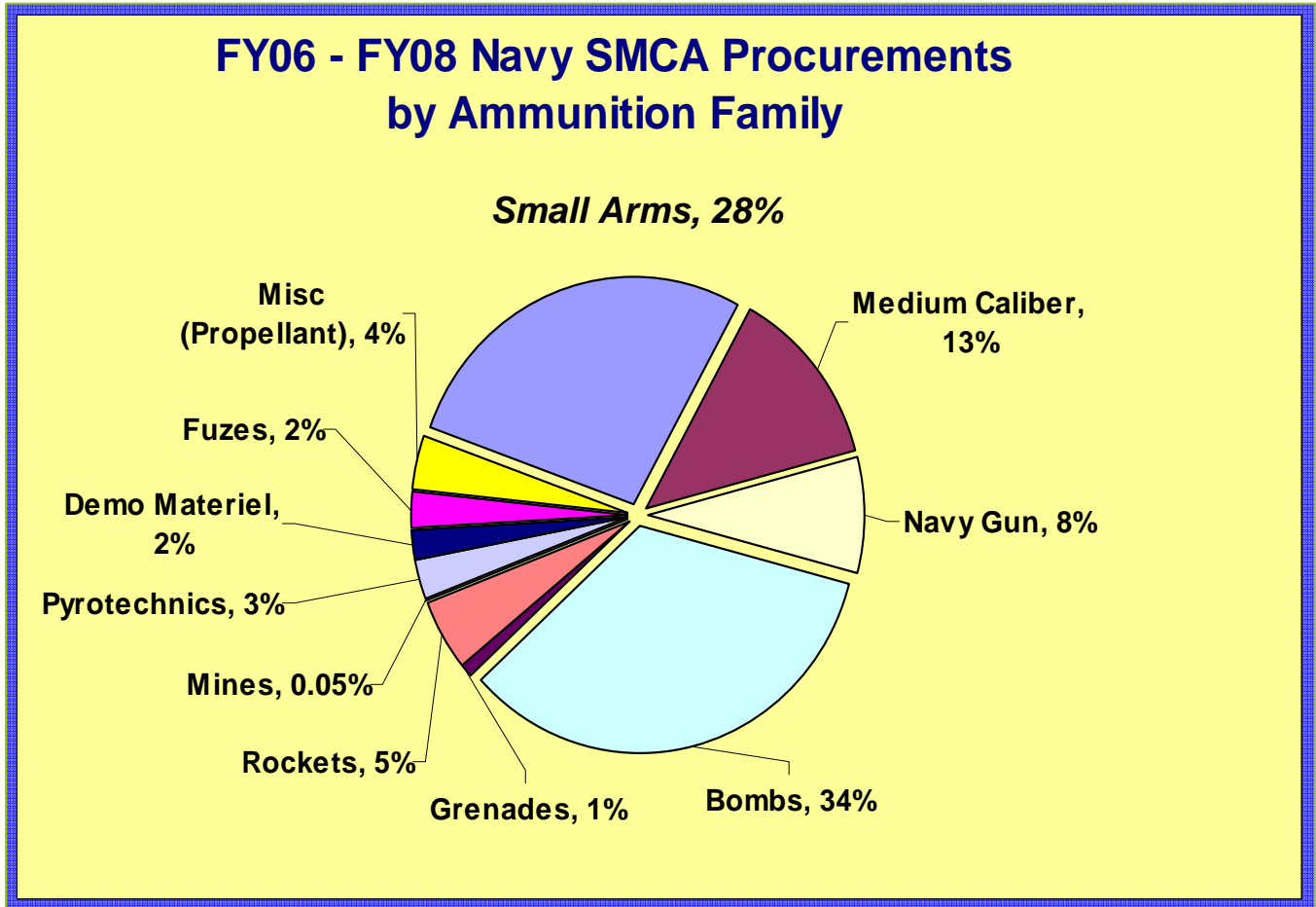
DoN - Wide Explosives Safety Program

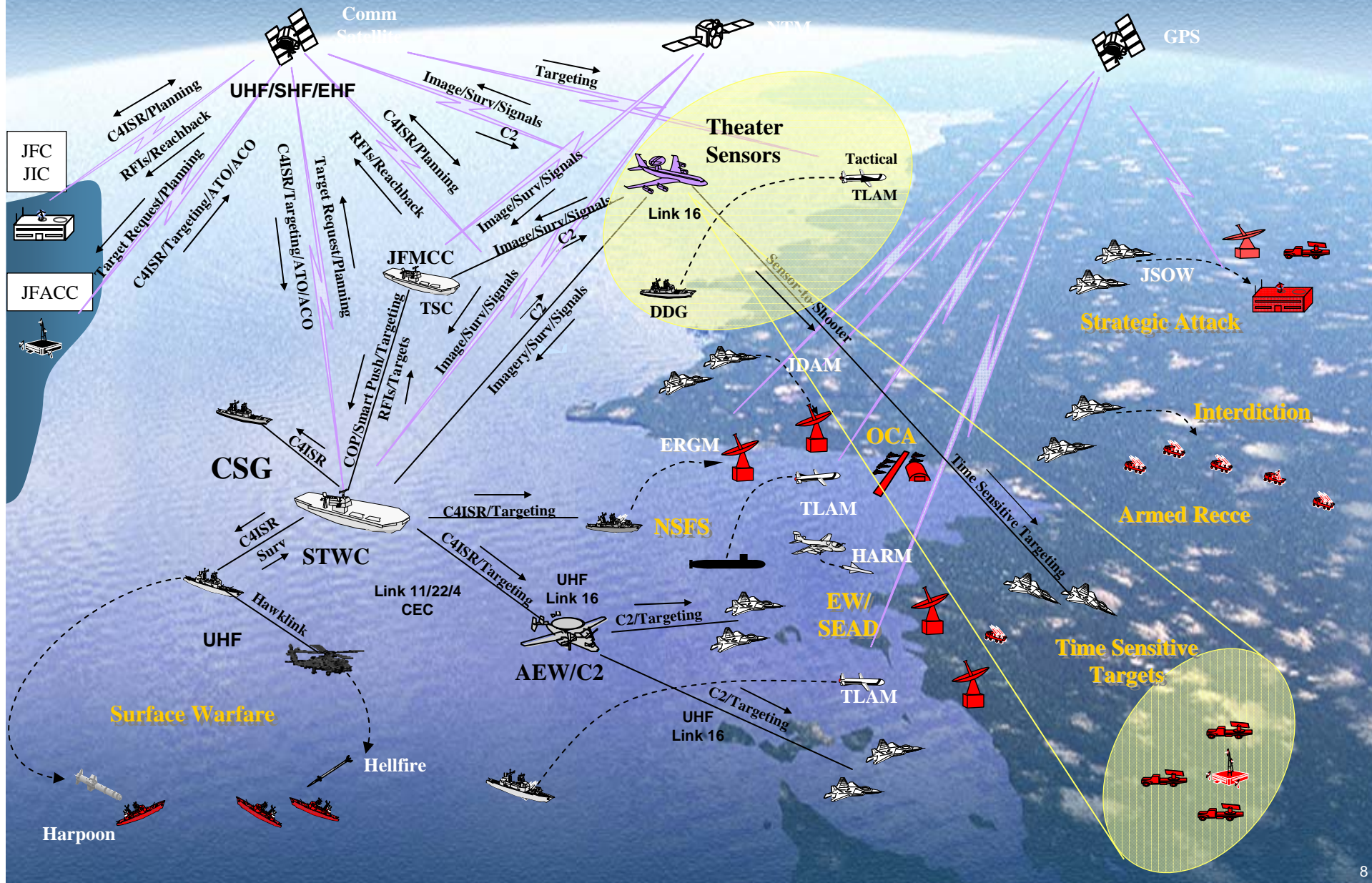
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- ✓ **WSESRB**
 - ✓ **Ship Weapons Integration**
 - ✓ **Site Approval**
 - ✓ **Publications**
 - ✓ **HERO**
 - ✓ **Lightning/Grounding**
 - ✓ **Standard Operating**
 - ✓ **Procedures**
 - ✓ **Hazard Classification**
 - ✓ **Reviews/Assists Afloat**
 - ✓ **Inspections Ashore**
 - ✓ **Waivers/Exemption Review**
 - ✓ **AMHAZ Board**
 - ✓ **Explosives Safety Training**
 - ✓ **Qualification/Certification Program**
 - ✓ **Ordnance Transportation Safety**

Current SMCA Investment

- Today's requirements

- ✓ GWOT
- ✓ Annual training
- ✓ RDT&E
- ✓ International Programs





Sea Basing

- Enhanced operational independence and support for joint forces provided by networked, mobile, and secure sovereign platforms operating in the maritime domain.
 - Aviation
 - Amphibious assault
 - Ballistic Missile Defense
- Future Technologies
 - International data-sharing networks
 - Heavy equipment transfer capabilities
 - Intra-theater high-speed sealift
 - Improved vertical delivery methods
 - Integrated joint logistics
 - Rotational crewing infrastructure
 - Enhanced sea-based joint Command/Control



Sea Basing

New Development

- Maritime Prepositioning Force (Future) - MPF(F)
 - MLP, LMSR, T-AKE, LHA, T-AKR
- JHSV
- LCS
- DDG 1000



Navy Initiatives

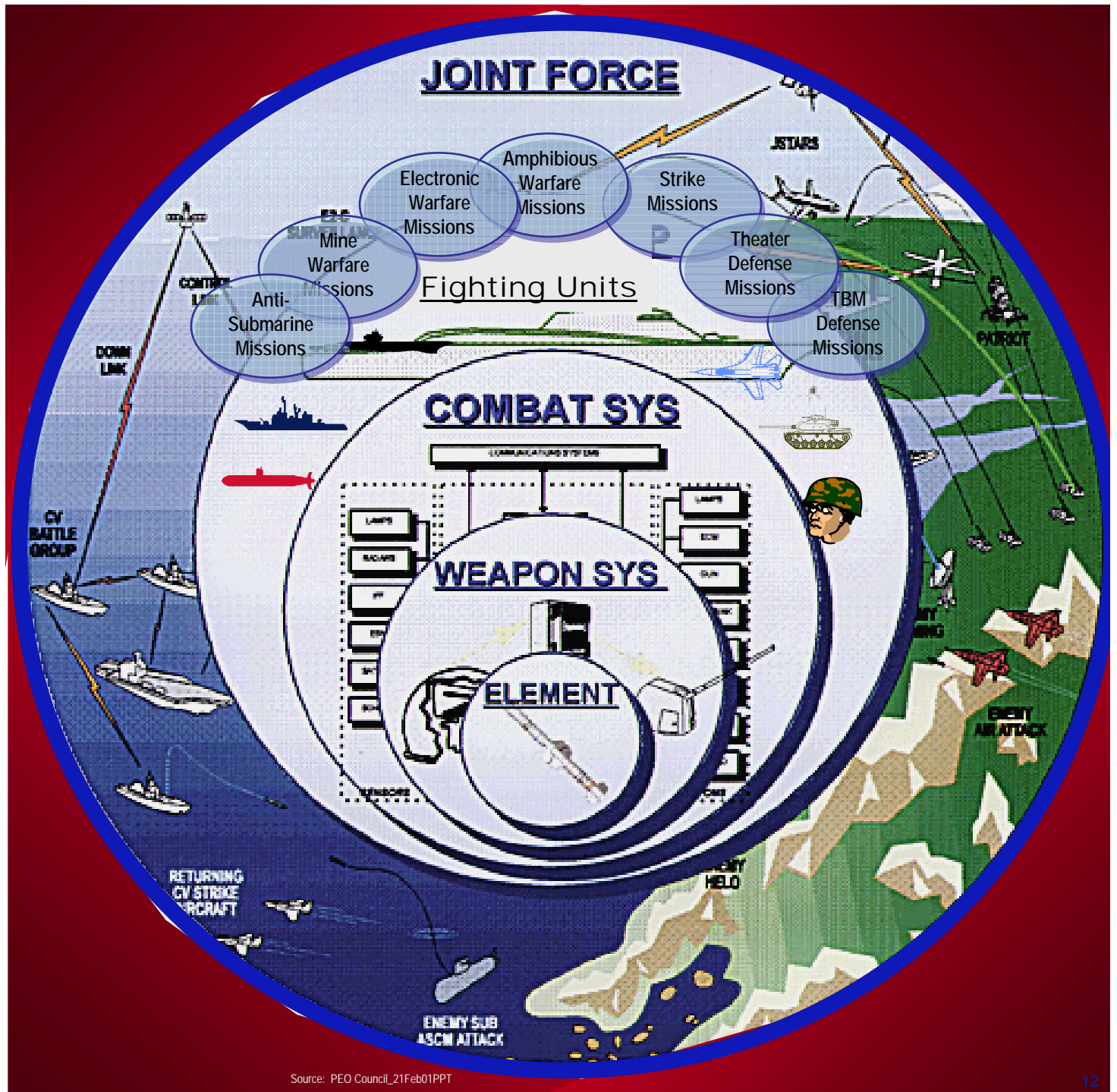
- **Operations**
 - **GWOT**
 - Anti-terrorism/Force Protection measures
 - Shore installations and naval vessels
 - Transit Protection System
 - Remotely Operated Small Arms Mount (ROSAM)
 - USNS Stockham
 - **Ballistic Missile Defense**
 - AEGIS SM-III
 - Sea-mobile Kinetic Energy Interceptor
 - **Armed helo operations aboard naval vessels**
 - **Future shipboard build-up of amphibious assault systems**



Joint Force level operations

Safe Weapons in joint warfighting environments

System & Safety Engineering



Joint Participants

- **Acquisition**
 - JHSV
 - Non-Line-Of-Sight (NLOS) system w/57MM Gun aboard LCS
 - Joint Common Missile
- **Operations**
 - AT/FP
 - C-RAM
 - Ballistic Missile Defense
 - AEGIS SM-III defense
 - Joint Warfighting/Training
 - JSWORD Memorandum of Agreement



Net-Centric Weapons





Challenges to Community

- **Ensure safety approach addresses ‘system of systems’ operations**
 - Common understanding of attributes constituting a safe weapon
 - Operating environment, transportation, storage, demil
 - Open architecture of systems
 - Keeping pace with technology – standards obsolescence

Summary

Heavy reliance on ammunition wholesale base for annual training and contingency re-supply

Increased readiness and survivability through Joint Service shipboard environment testing/characterization efforts

Joint Design and Development of Today's Weapon Systems and Platforms is Paramount for Joint Force interoperability