



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

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- 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...*



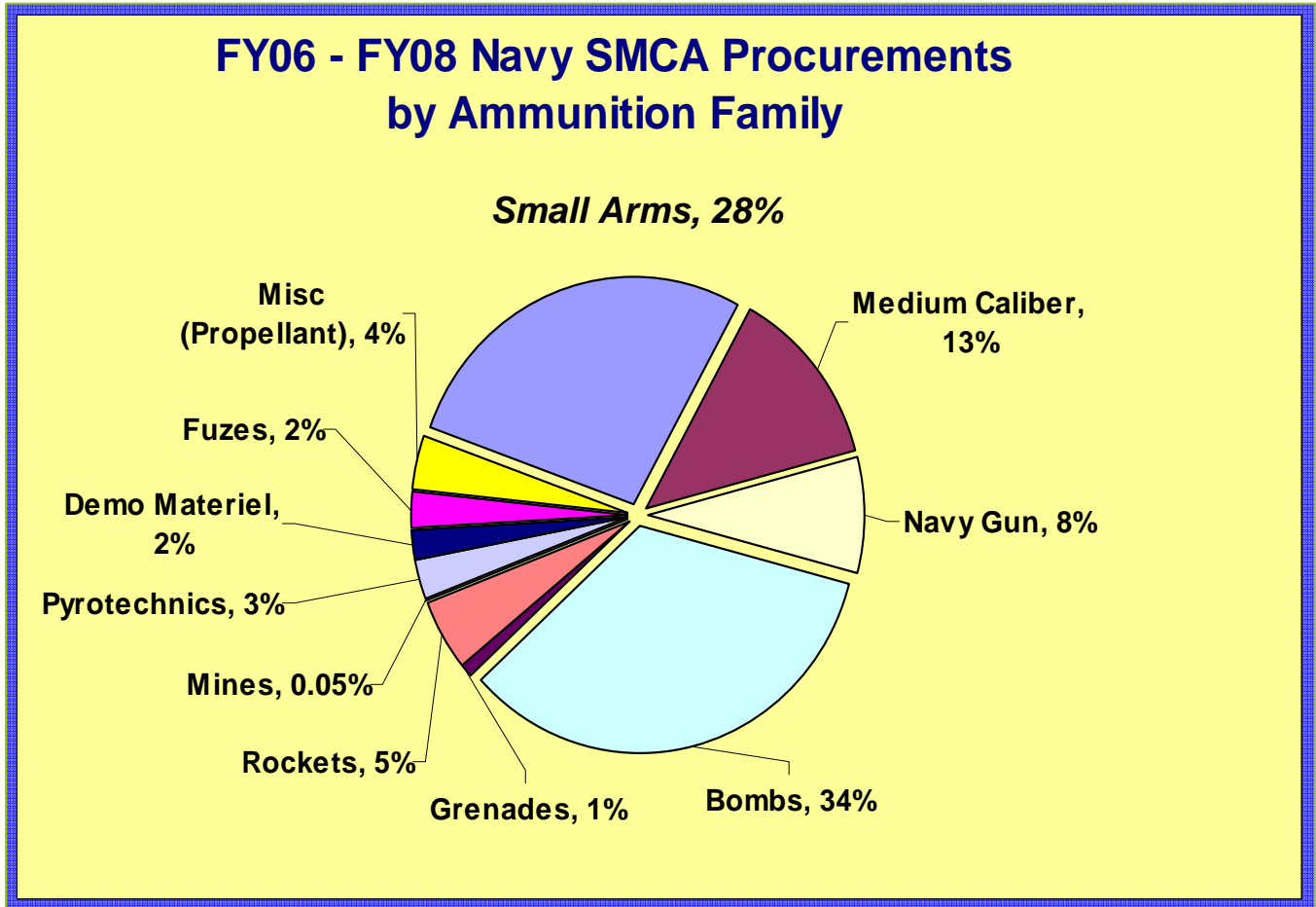
# DoN - Wide Explosives Safety Program

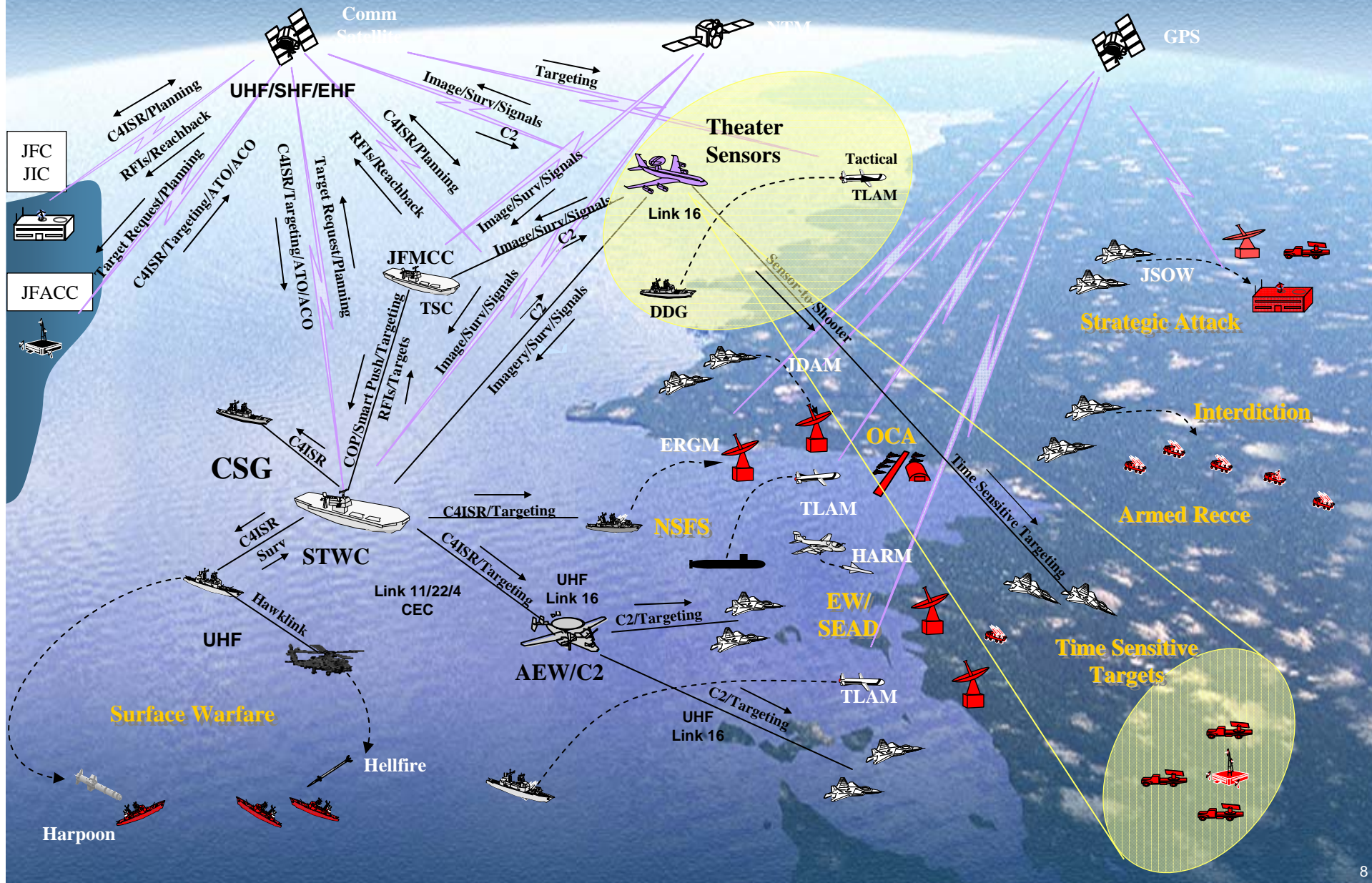
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- ✓ **WSESRB**
  - ✓ **Ship Weapons Integration**
  - ✓ **Site Approval**
  - ✓ **Publications**
  - ✓ **HERO**
  - ✓ **Lightning/Grounding**
  - ✓ **Standard Operating**
  - ✓ **Procedures**
  - ✓ **Hazard Classification**
  - ✓ **Reviews/Assists 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

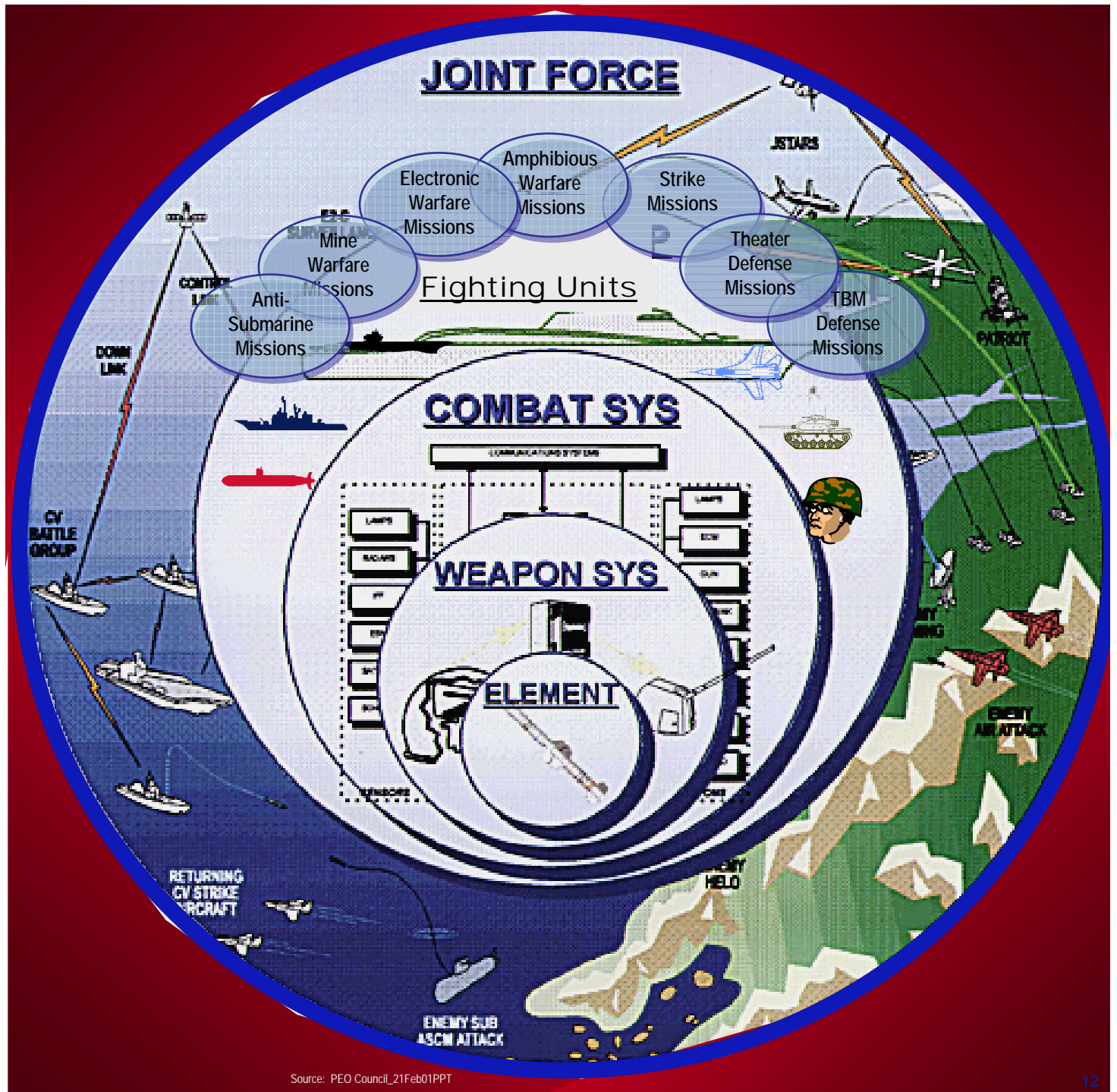
- **Operations**
  - **GWOT**
    - Anti-terrorism/Force Protection measures
      - Shore installations and naval vessels
      - Transit Protection System
      - Remotely Operated Small Arms Mount (ROSAM)
    - USNS Stockham
  - **Ballistic Missile Defense**
    - AEGIS SM-III
    - Sea-mobile Kinetic 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

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- **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

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**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**