The PEO IWS organization is aligned to develop, procure and deliver Enterprise Warfighting Solutions for Surface Ships.

PEO IWS has life cycle responsibilities for combat system performance, design management, systems engineering, installation, integration, test, maintenance and disposal.

**INNOVATION**
- APLs
- Industry
- NSWC
- NUWC
- ONR
- SBIR/SST
- DARPA
- Aegis BMD

**DELIVERY**
- 238 USN Ships
- 78 USCG Ships
- 25 Nations
- PEO IWS executes $5B - $6B annually

**INNOVATION**

<table>
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<tr>
<th>Program</th>
<th>Control</th>
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<tr>
<td>Direct</td>
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<td>MilPers</td>
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In 2010 PEO IWS initiated the Accelerated Mid-Term Interoperability Improvement Project (AMIIP) to address Fleet concerns about force-level interoperability.

“As we upgrade older systems and ships to meet the increasingly sophisticated threats of the 21st century, the Accelerated Mid-Term Interoperability Improvement Project helps maintain viability of the Fleet by improving the track picture in a battle group.”

Assistant Project Manager, PEO IWS Track Management
Objectives

- PEO IWS aims to achieve consistent correlation between Cooperative Engagement Capability (CEC) and Tactical Data Link (TDL) tracks on all CEC units with AMIIP.

- AMIIP Focus:
  - Correcting fleet identified interoperability issues across all systems in a single systems engineering effort

- AMIIP Goals:
  - Alleviate major interoperability deficiencies
  - Transition from a functional air defense picture (requiring extensive manual intervention) to an automated clear air defense picture
Modernization

In-Service
- BIL 5
  - CG 60, 62-64 (AAW)
  - DDG 51, 57, 64, 66, 74, 75, 78 (AAW)
  - MIL-SPEC Computers
    - 13 CGs & 28 DDGs
- BIL 6
  - CG 59, 65, 66, 68, 69, 71 (AAW)
  - DDG 79-90 (AAW)
  - MIL-SPEC/COTS
    - Hybrid Computers
    - 2 CGs & 12 DDGs
- BIL 7.1.3
  - DDG 91-102
  - AAW
- BIL 7.1R
  - DDG 103-112
  - AAW
- BIL 7.2 (FY 14)
  - 22 DDGs
- BIL 8
  - CG 52-58
  - AAW
- BIL 9
  - CG 59, 60, 62, 71 (AAW)
  - DDG 51-53, 57, 65, 69 (IAMD)
  - DDG 113-118 (IAMD)
  - AEGIS Ashore (BMD)

AEGIS Modernization

Future
- ACB 16
  - IAMD Sensor Integration
  - DDG 119-121
  - SPY-1
  - SPG-9B
  - CIWS
- ACB Next
  - SPY-1
  - AMDR

Complex Capabilities Meeting COCOM Requirements

Addresses Today’s Operational Environment
Evolving to Meet Next Generation Threats and Complex Environments

Improved Battle Group Networks (Link-16, CEC)
Improved Area Air Defense Clutter Environments
Simultaneous Raids Across Multiple Mission Areas
NIFC-CA, IAMD, (BMD 5.0)

Integrated AAW & Improved Situational Awareness
BMD Capability with Adjunct Computers
All COTS Combat Management System Computers
Partners

- Space and Naval Warfare (SPAWAR) Systems Center
- NAVSEA Engineering Directorate (SEA 05)
- Naval Surface Warfare Centers (NSWC)
- John Hopkins University Applied Physics Laboratory (JHU/APL)
- Industry
Team

- The AMIIP team is a coalition of multiple Program Offices:
  - PEO IWS
  - PEO C4I
  - NAVAIR

- Engineers from AEGIS AWS, SSDS, E2-C, CEC, CDLMS, and SGS collaborated to identify system of system design issues, correct deficiencies and incorporate new designs.
Improvements

- AMIIIP provided interoperability improvements for AEGIS Baselines 8.1.1, 7.1R, 6.3, SSDS and E2C Hawkeye

- Improvements include:
  - Developing a new attribute enhanced correlation (AEC) algorithm for all systems’ use
  - Developing a new J-Series message to ensure Link 16 and CEC synchronization
Testing

- A key component of the AMIIP development strategy is rigorous testing and evaluation including Trident Warrior 2012 an at-sea demonstration with
  - 1 CVN, 1CG, 4 DDGs, 8 F/A 18s, 3 E2Cs, 2 KC-10s,
  - Over 500 air presentations
  - Time to certify reduced by 6 months

- Development testing of the computer program builds began in JAN 2012
  - Included multi-site land and air based testing
  - AMIIP final certification planned for APR 2013
  - Fleet delivery of the AMIIP starting the summer of 2013

- Single Integrated Air Picture (SIAP) Metrics were used and additional metrics were developed to compare and assess the AMIIP changes
Success

- TRIDENT WARRIOR 2012 was an unequivocal success
  - Provided a significant and far-reaching improvement in Fleet Interoperability Readiness

- The rapid development, testing and fielding of these interoperability improvements will provide a significant at-sea warfighting improvement across the entire US Navy
Questions?