

# ***6<sup>th</sup> Annual IAMD Symposium: Acquisition of Navy IAMD Capabilities***



***“Sea Power to the Hands of Our Sailors”***

**RDML Jon A. Hill**

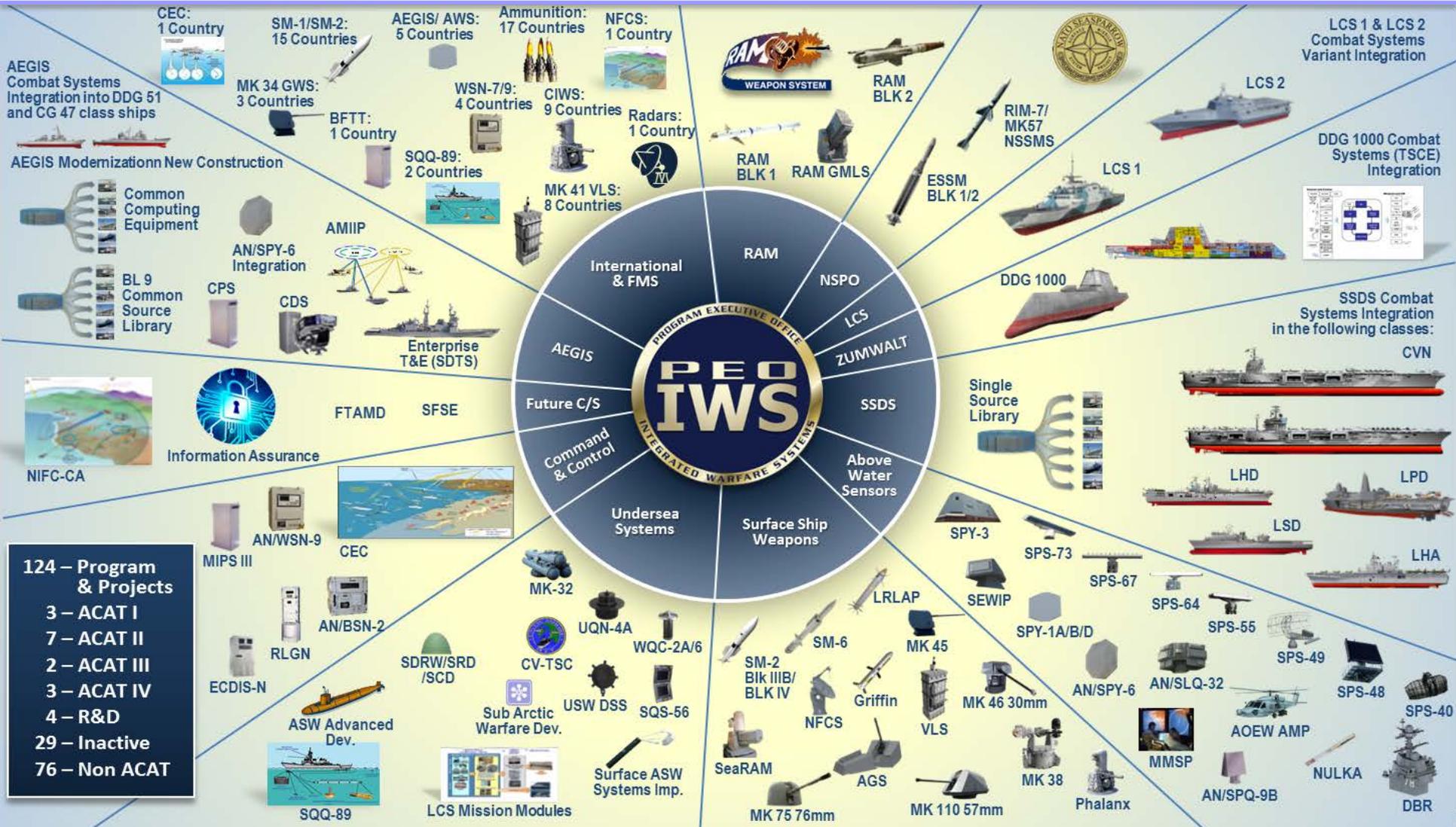
**25 June 2015**





# PEO IWS Overview

## Programs & Projects



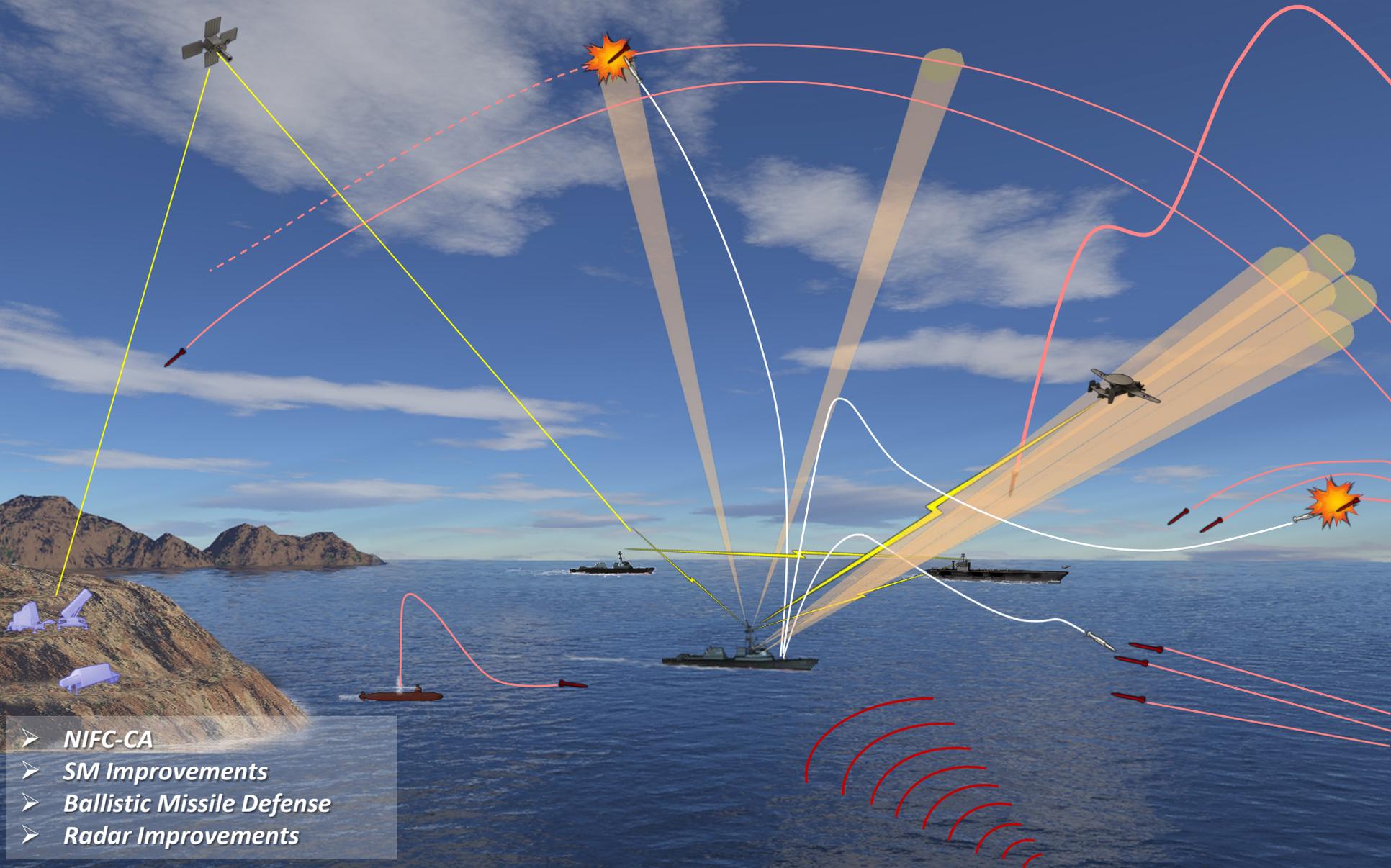
- 124 – Program & Projects
- 3 – ACAT I
- 7 – ACAT II
- 2 – ACAT III
- 3 – ACAT IV
- 4 – R&D
- 29 – Inactive
- 76 – Non ACAT

**Mission:** To develop, deliver, and sustain operationally dominant combat systems to Sailors and Marines: "Sea Power to the Hands of our Sailors"



# Navy IAMD Capabilities

*Providing an Advantage for Today's Forward Deployed Navy*



- NIFC-CA
- SM Improvements
- Ballistic Missile Defense
- Radar Improvements



# U.S. Navy IAMD Foundation

## AEGIS Baseline 9

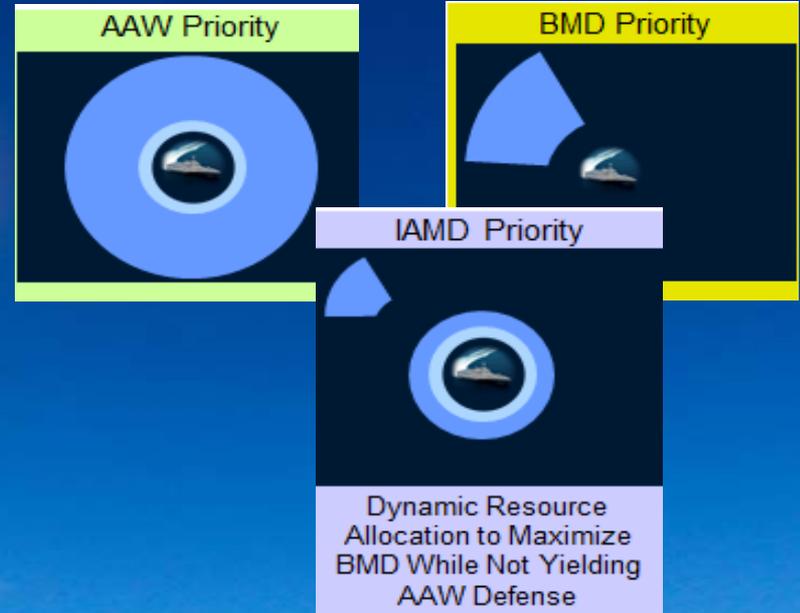
AEGIS Common Source Library			
Modernized Air Defense Cruisers	AEGIS Ashore	Modernized IAMD Destroyers	New Construction IAMD Destroyers
			
<p><b>BL 9A Capability:</b></p> <ul style="list-style-type: none"> <li>• Naval Integrated Fire Control-Counter Air (NIFC-CA)</li> <li>• SM-6</li> <li>• Interoperability Improvements</li> </ul>	<p><b>BL 9B Capability:</b></p> <ul style="list-style-type: none"> <li>• BMD 5.0 Capability Upgrade</li> <li>• SM-3 Block IA, IB</li> <li>• Remote Launcher</li> </ul>	<p><b>BL 9C Capability:</b></p> <ul style="list-style-type: none"> <li>• Integrated Air and Missile Defense (IAMD)</li> <li>• BMD 5.0 Capability Upgrade</li> <li>• SM-3 Block IA, IB and Sea Based Terminal Increment I</li> <li>• Naval Integrated Fire Control-Counter Air (NIFC-CA)</li> <li>• SM-6</li> <li>• Interoperability Improvements</li> </ul>	
Base Computer Program	Code Reuse 99%	Code Reuse 97%	Code Reuse 99%
<p>✓ ESSM ✓ SM-2 ✓ SM-6</p> <p>Development Demo AEGIS Light Off At-Sea DT/CSSQT Cert OT</p> <p>In Progress</p>	<p>✓ SM-3</p> <p>Development Breaking Ground AEGIS Light Off INSURV Transfer to Navy Navy Acceptance TCD</p>	<p>✓ ESSM ✓ SM-2 ✓ SM-6 ✓ SM-3</p> <p>Development Demo AEGIS Light Off At-Sea DT/CSSQT Cert OT</p> <p>In Progress</p>	<p>Development Eng Assessment AEGIS Light Off At-Sea DT/CSSQT Cert OT</p>



# Enabling the Sailor

## Dynamic Radar Resource Management

- Mission Priority Modes
- AAW Search Frame Time Management
- Scheduling and Prioritization Rules
- BMD Waveform / Data Rate Management



## Real-Time Performance Assessment and Mission Display

--- Threat Parameters ---

Threat Type :  Specific  User Defined

Target X

Modify

Duct Height :  m

Engagement Type: Auto SM

Calculate Reset

Last Calculated: 21902Z Nov 09

By: RSC

--- Threat Profile ---

Altitude

Range

Current Mission Priority:

--- Coverage Analysis ---

Depth of Fire Legend

A  B  C

Last Updated: 21902Z Nov 09

--- Radar Performance ---

BMD Search

BMD Track

Last Updated:

Close



# AEGIS Baseline 9 IAMD Success



USS JOHN PAUL JONES  
PAU-2  
(AW Target)

FEB 2014

✓ **FIRST LIVE FIRE IN IAMD MODE**



USS JOHN PAUL JONES  
FTM-25  
(BMD Target)

OCT 2014

✓ **FIRST IAMD LIVE FIRE**

★  
FEB 14

★  
JUN 14

★  
OCT 14

★  
FEB 15

★  
FIRST IAMD FDNF

USS JOHN PAUL JONES  
CSSQT

JUN 2014

✓ **FIRST IAMD  
TRACKEX**



USS BARRY  
FTX-19

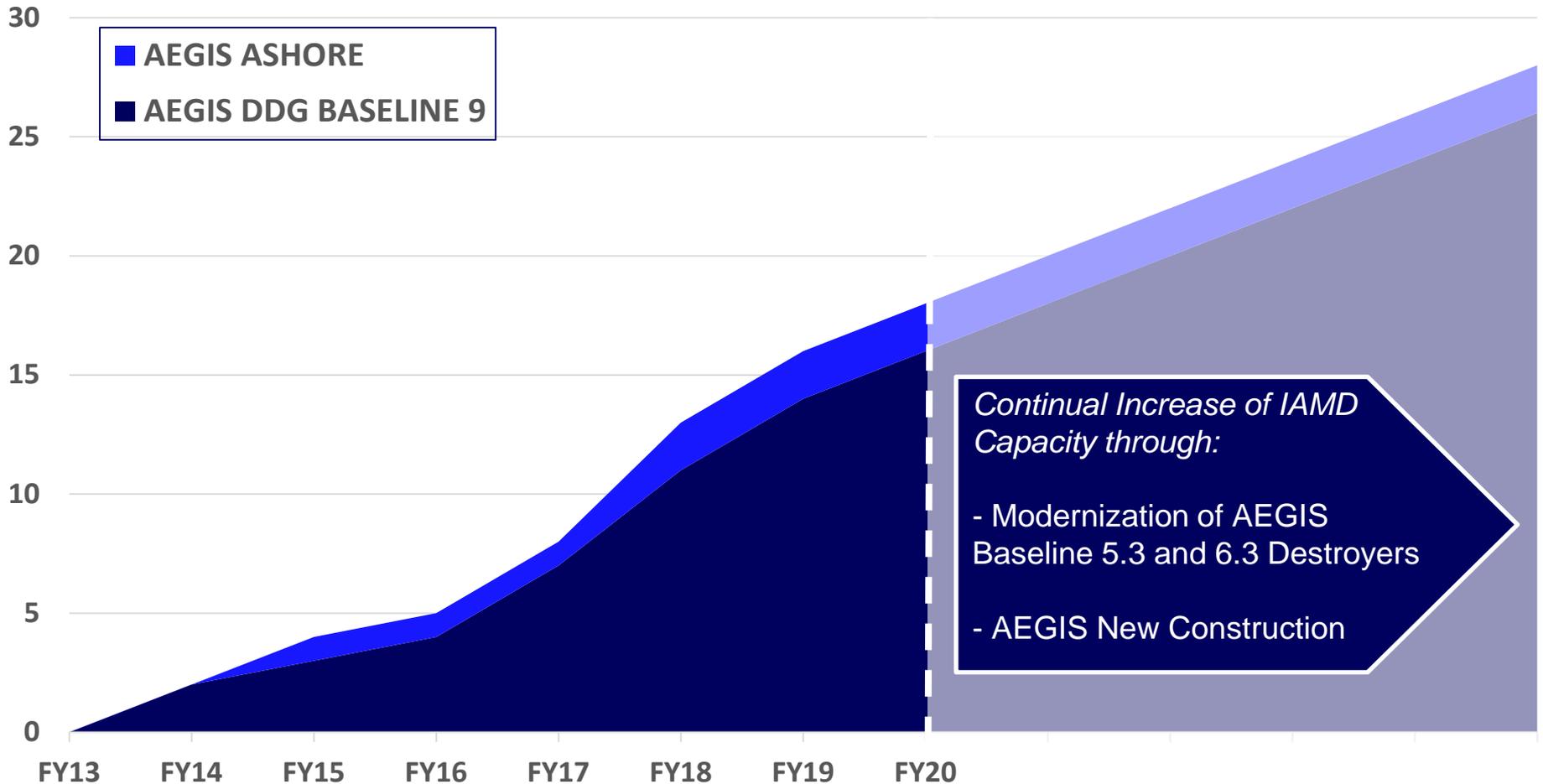
FEB 15

✓ **MULTIPLE FIRING  
UNITS WITH DWES**





# Increasing IAMD Capacity

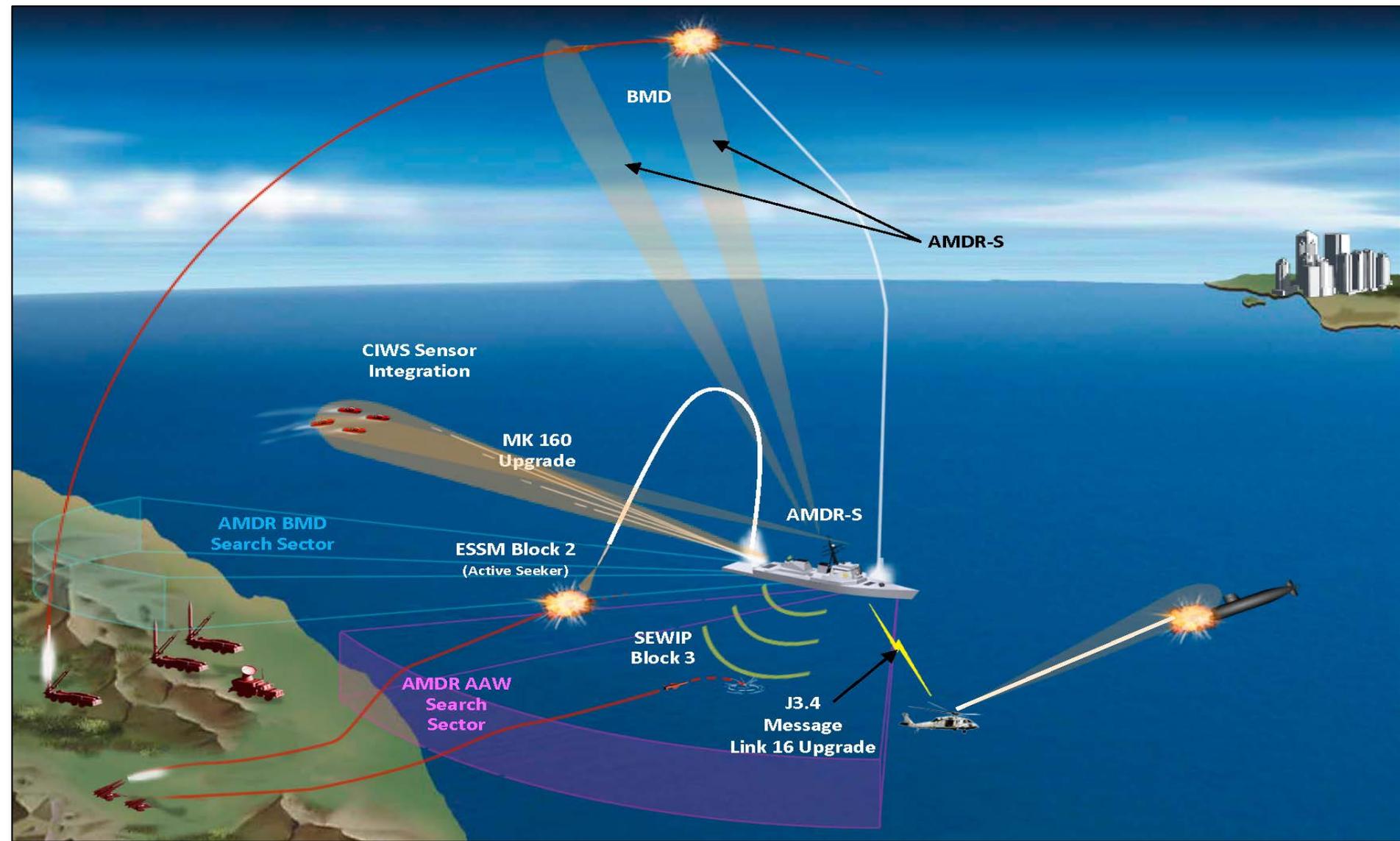


***AEGIS Meeting the Increasing Demand for IAMD Capability and Capacity***



# Future: DDG Flt III with AMDR-S

## Expanding the IAMD Capability with Multi-Beam Design





# Conclusion

- U.S. Navy IAMD Program is in development with continual increasing capability
- AEGIS Baseline 9 is the successful foundation for future Navy programs
- AEGIS delivers sea control and power projection against the Anti-Access/Area Denial opponent



***AEGIS ENABLES INCREASING IAMD AND JOINT FORCE ACCESS***



***“Sea Power to the Hands of Our Sailors”***