



Navy Acquisition and Open Architecture

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Outline

- ASN RDA Mission and Goals
- Our Changing Environment
- Attributes of our Future Systems
- Open Architecture Business Model
- Open Architecture Business Practices
- Partnership with Industry
- Success Stories





ASN (RDA) Mission

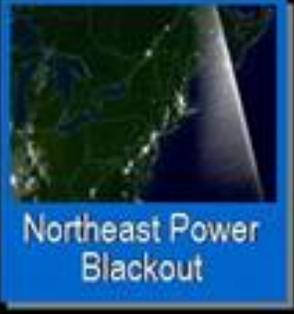
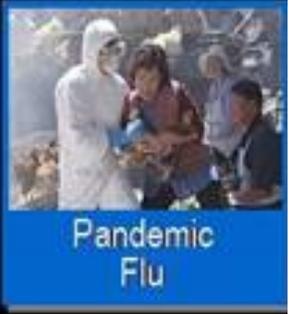
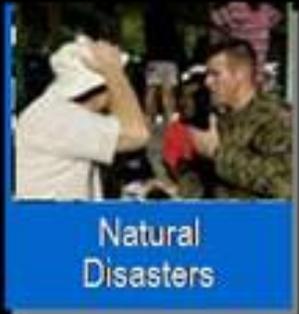
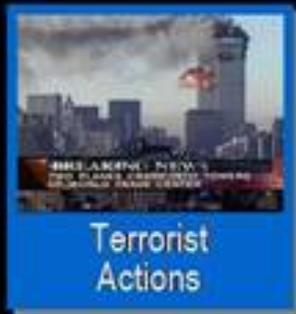
To provide weapons, systems and platforms for the men and women of the Navy/Marine Corps that support their missions *and* give them a technological edge over our adversaries.



ASN (RDA) Goals

- Expedite GWOT acquisition programs as much as possible without compromising safety.
- Reduce volatility in current acquisition programs.
- Develop an investment/transition strategy for Science and Technology (S&T) to ensure future technological edge.
- Lead the Acquisition Enterprise component of the Naval Enterprise, in collaboration with OPNAV/HQMC and the fleet.





Desired Attributes of our Future Systems

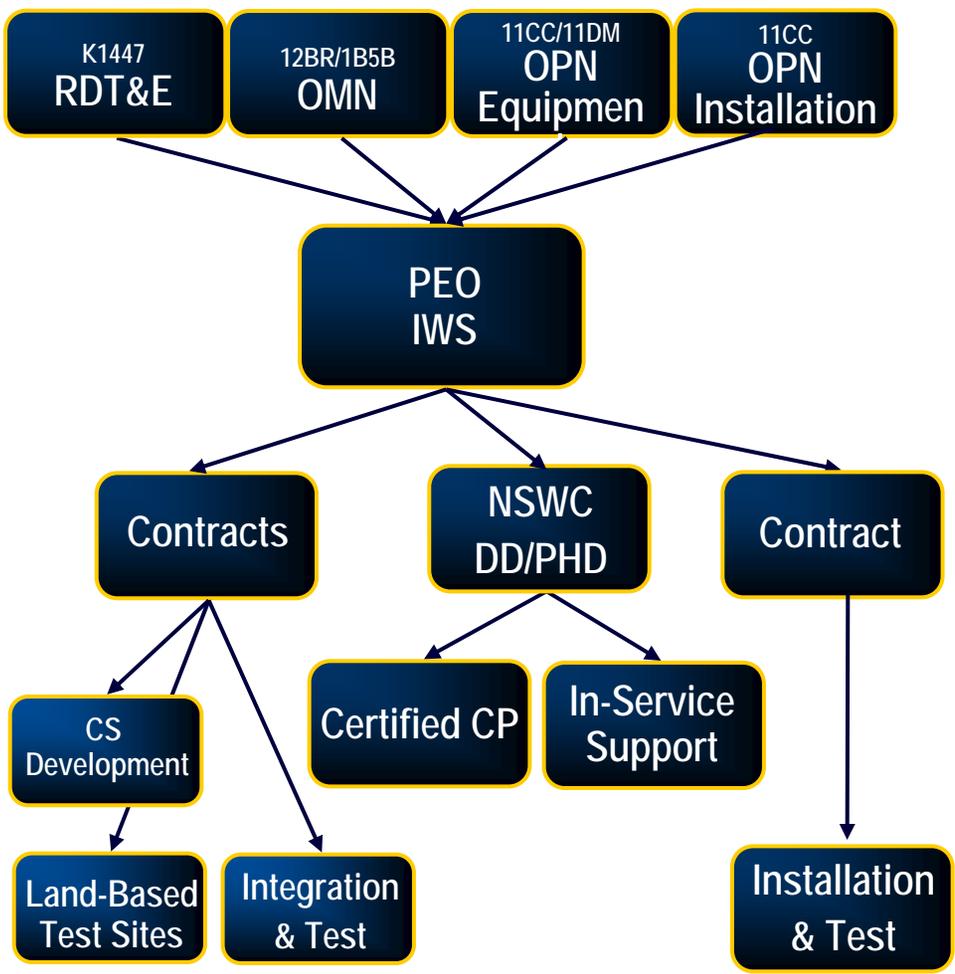
- Develop and field systems that are:
 - Adaptable
 - Multi-Mission
 - Modular
 - Reconfigurable
 - Reusable
 - Affordable
- Open Architecture is the answer to many of these goals



Recommended Approach to Aegis Fleet Modernization

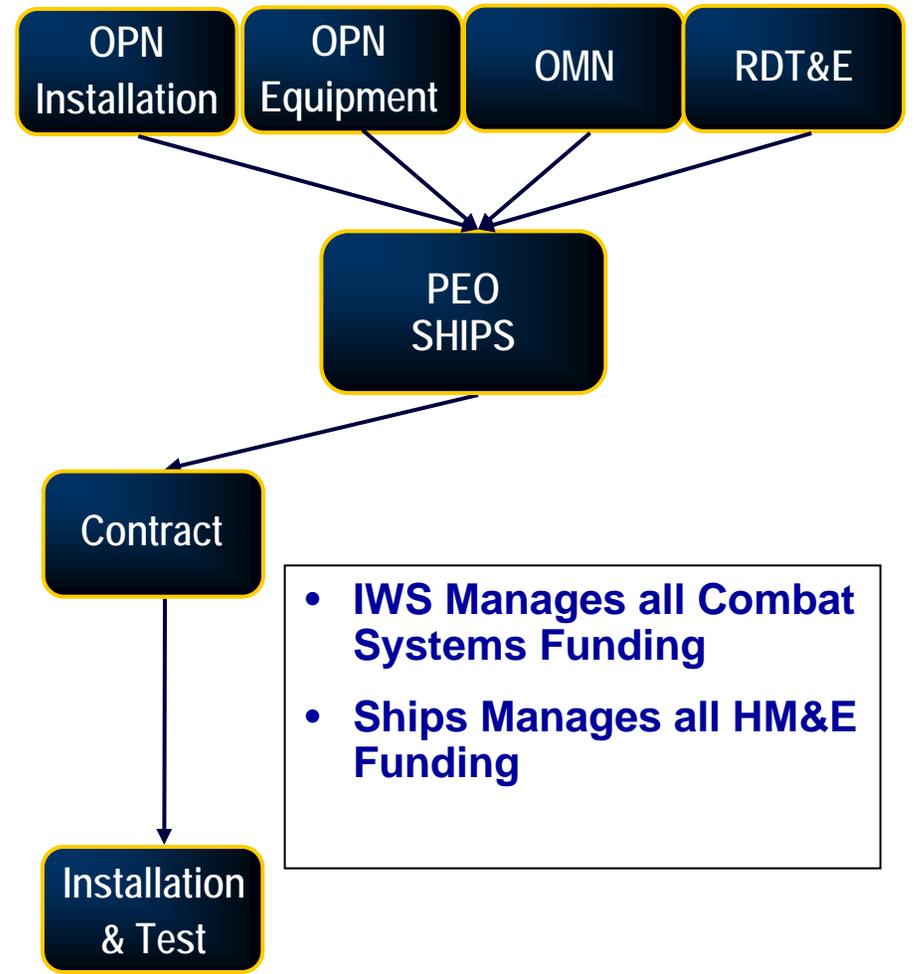
Combat System Funding

SEA01 to IWS



Hull, Mechanical, Electrical Funding

SEA01 to Ships



- IWS Manages all Combat Systems Funding
- Ships Manages all HM&E Funding

Products



Open Architecture Business Model

- We must adopt open architecture practices, opening our business models to
 - Using commercial standards as much as possible
 - Decoupling and reusing components
 - Opening competition on replacement components to third parties
 - Allowing new capabilities to be added with minimal dependency on integrators



Open Architecture Business Practices

- We must changes our contracts to:
 - Include OA requirements from our Program Managers Contract Guidebook
 - Obtain Government Purpose Rights (GPR) when the business case warrants
 - Award collaboration among multiple players
- We need internal business models to appropriately reflect accountability





Partnership with Industry

- Challenges/Benefits:
 - Increases Competition
 - Allows Small Business to Compete
 - Changes Lead Systems Integrator Role
- To Be successful, our partnership must be based on :
 - Accountability
 - Transparency
 - Trust
 - Shared Risk
 - Measure Performance



Reducing Time to Field Capabilities



Challenge

- E-2 mission computing system was obsolete by the time of fielding
- System was not adaptable to new requirements

OA Implementation

- Transitioned to commercial computing environment
- Restructured Software to achieve modularity
- Adopted model driven architecture to enhance software reuse



Developing Agile Solutions



Challenge

- Develop a modular, scalable architecture for the Sub Tactical Combat System that is independent of the hardware and operating system

OA Implementation

- Separated hardware from software
- Software built to middleware
- Required use of common-off-the-shelf products
- Required early and often design disclosure



Looking Forward

- We need to:
 - See successes in new areas
 - Collaboration in available centers
 - Develop a win-win strategy with industry



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Our Mission: *To provide weapons, systems and platforms for the men and women of the Navy/Marine Corps that support their missions and give them a technological edge over our adversaries.*

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