

**Program Executive Office
Command, Control, Communications,
Computers and Intelligence (PEO C4I)**

PMW 760 Ship Integration Program Office Overview

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**Information Dominance
Anytime, Anywhere...**





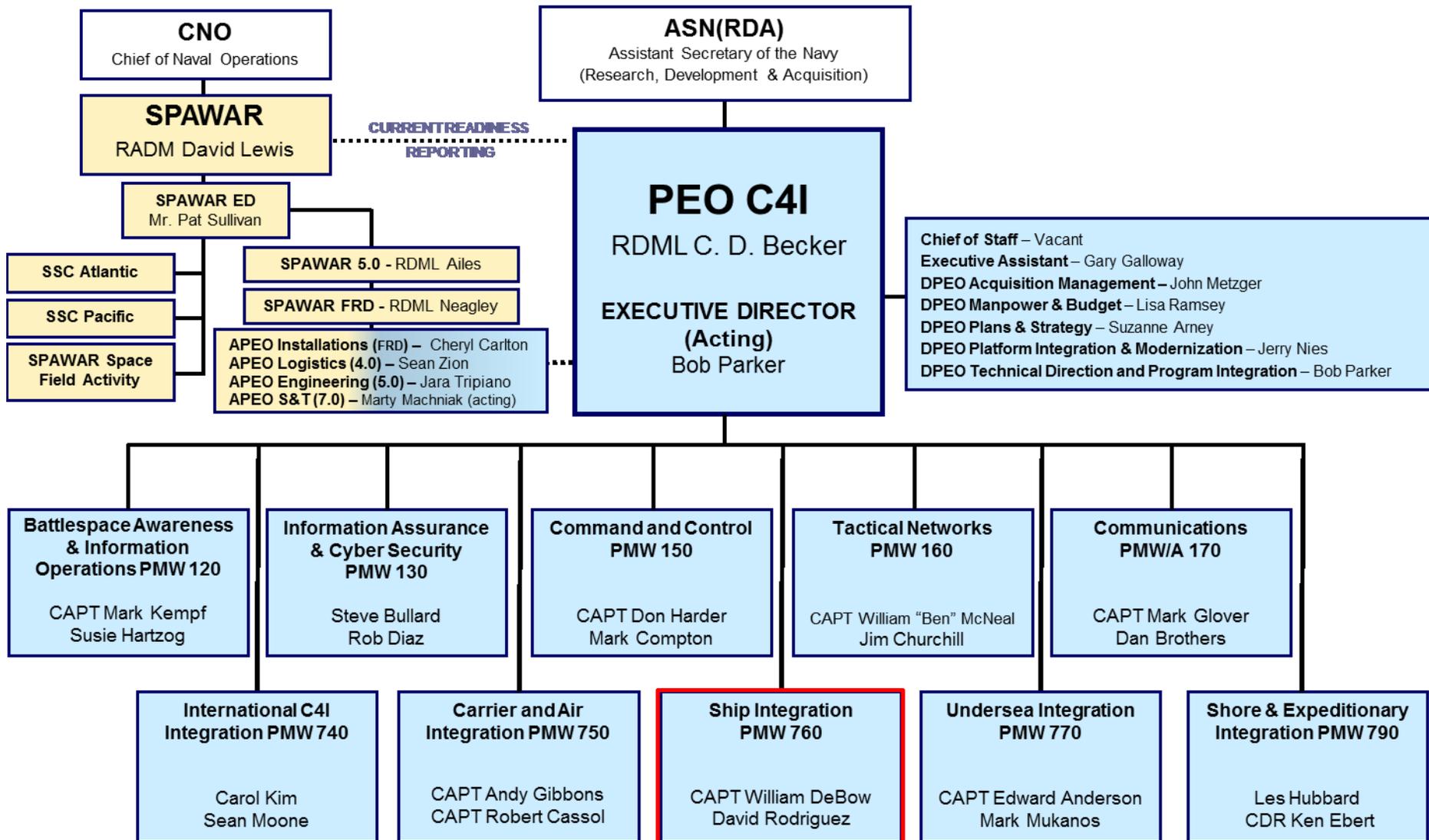
Agenda



- Organization
- Mission Focus Areas
 - New Ship Construction (NEWCON) C4I
 - C4I Modernization
 - AEGIS MOD / AEGIS BMD / AEGIS Ashore
 - C4I Capability Build Integration
- Critical Stakeholders



PEO C4I Organizational Structure

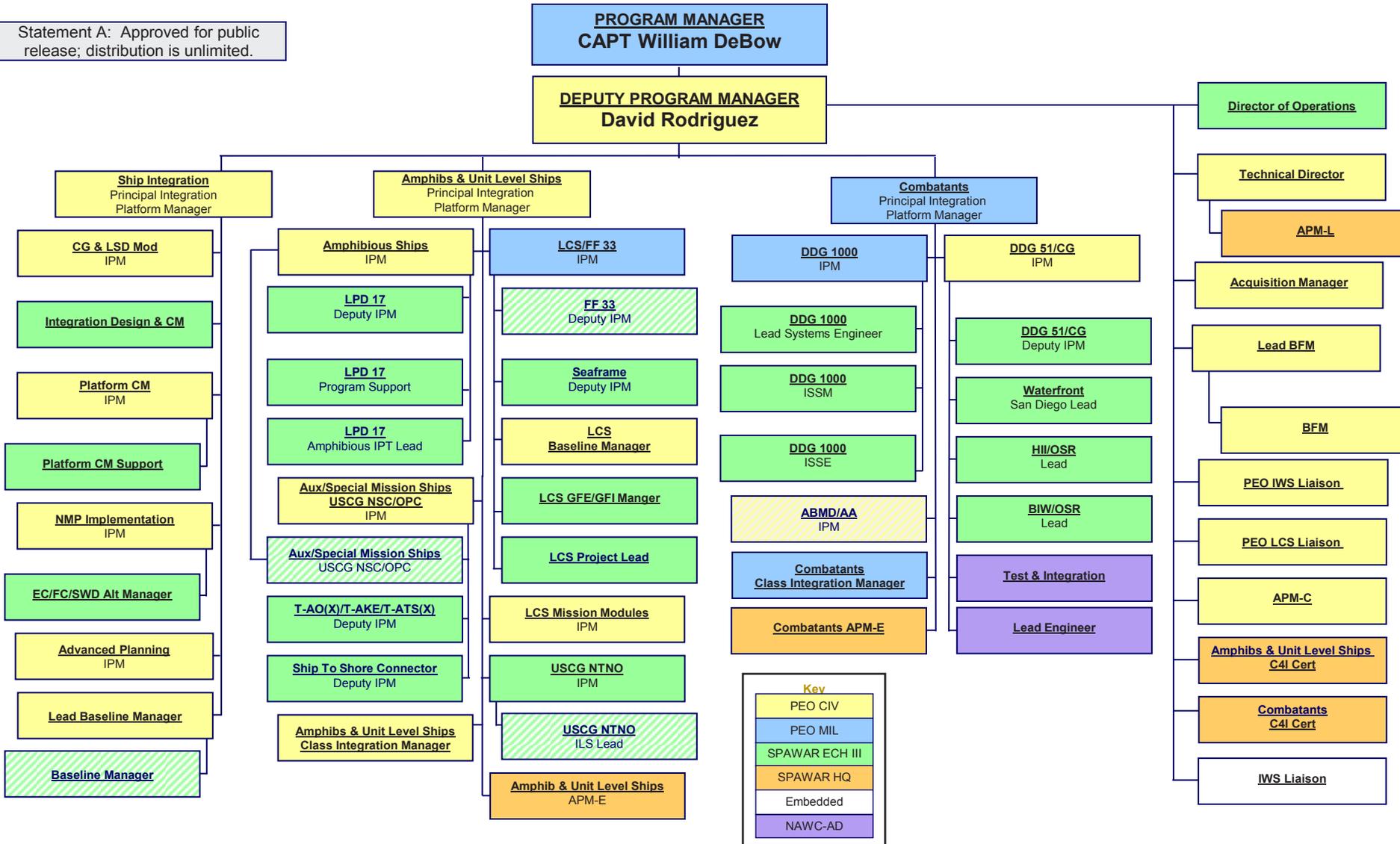




PMW 760 Organization Chart



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PMW 760 Mission Overview

What We Do



- NEWCON C4I Suite Planning, Integration, Test & Delivery
- Modernization C4I Suite Advanced Planning & Install Planning
- AEGIS Ashore / BMD
- C4I Capability Build Integration

FY15/16 Priorities:

1. C4I System of Systems (SoS) Baseline Configuration Management
2. C4I SoS End-to-End Test and Evaluation
3. C4I SoS End-to-End Training
4. Life Cycle Support of C4I SoS seams



New Construction Overview

Budgeting & Planning

3 New Classes; 32 Hulls

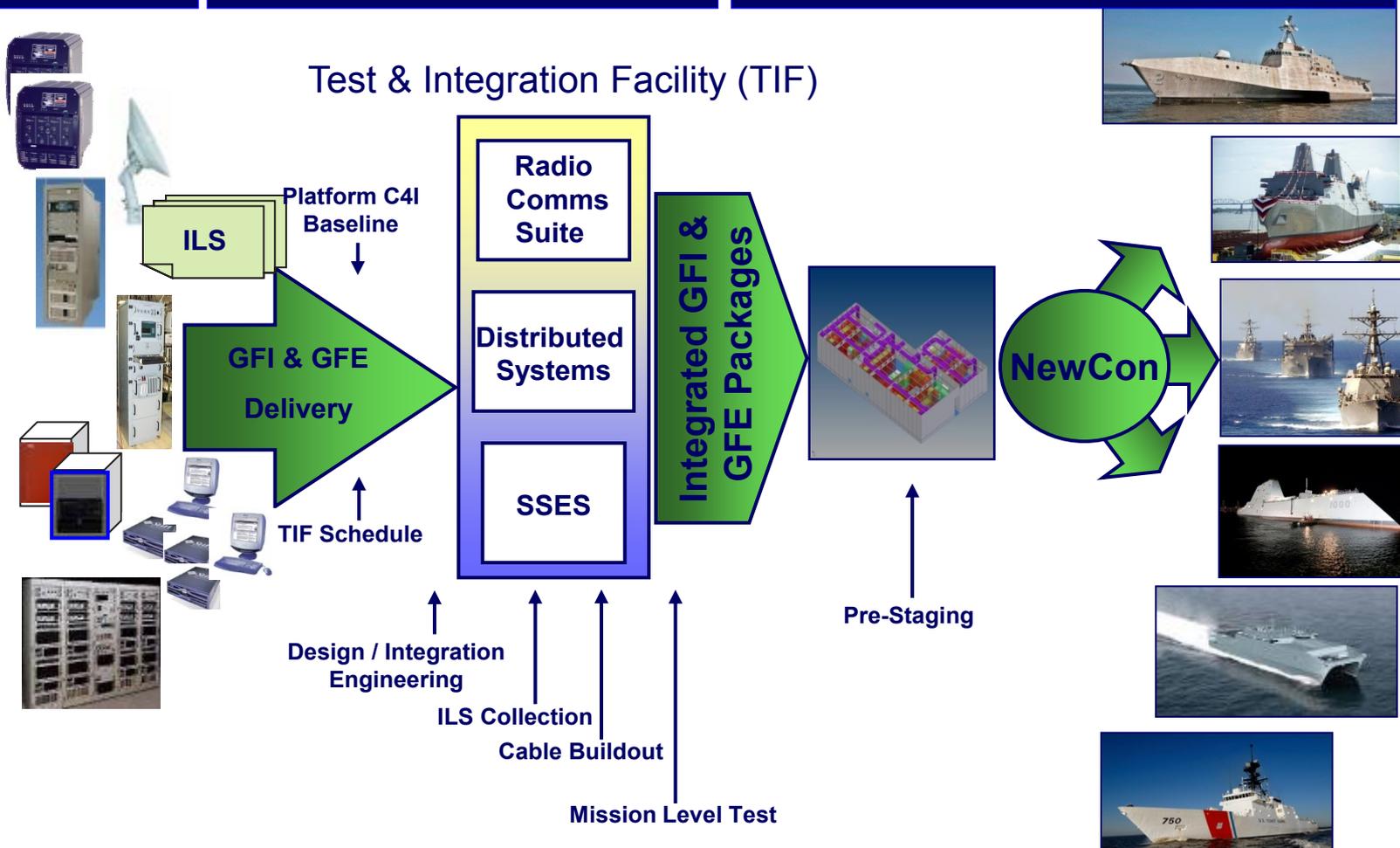
Design & Integration

18 Hulls

Delivery & Acceptance

4 Hulls

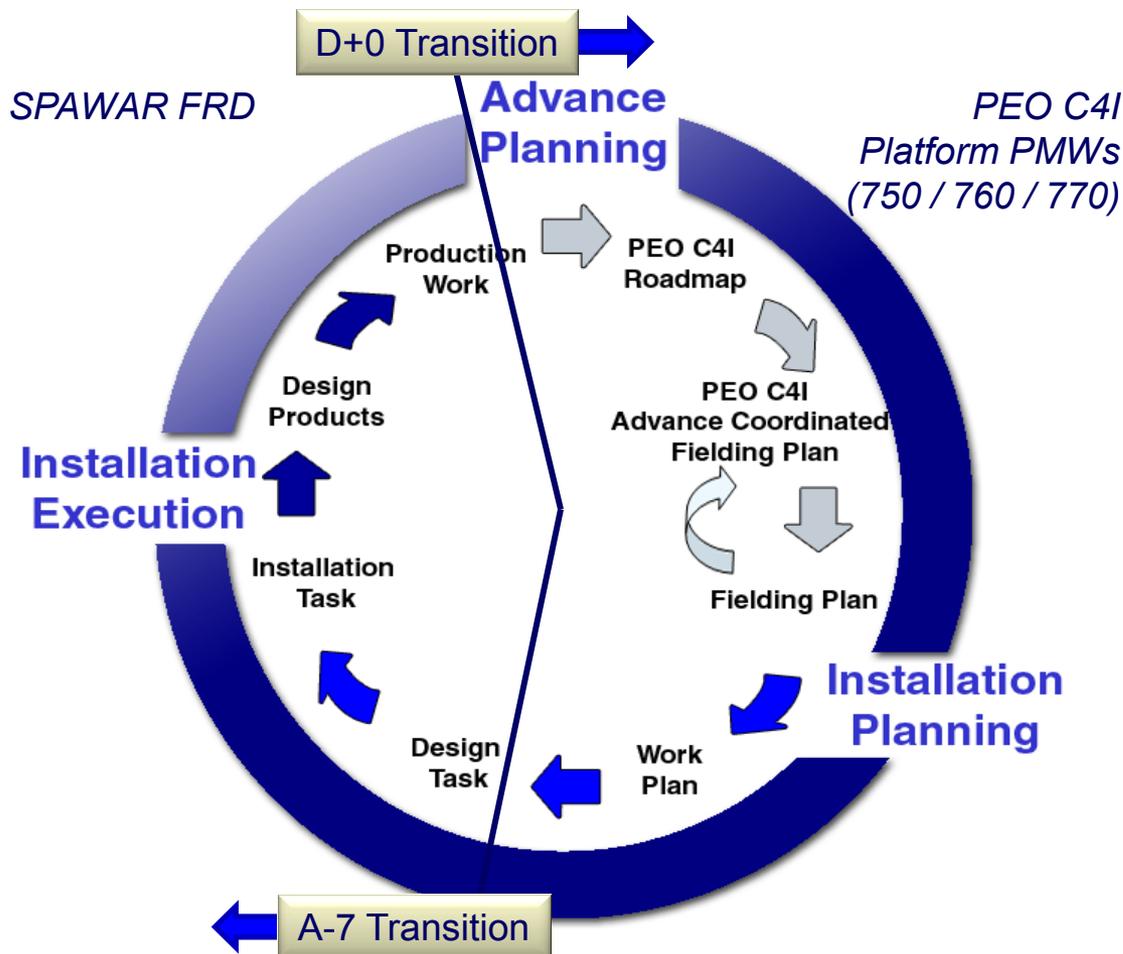
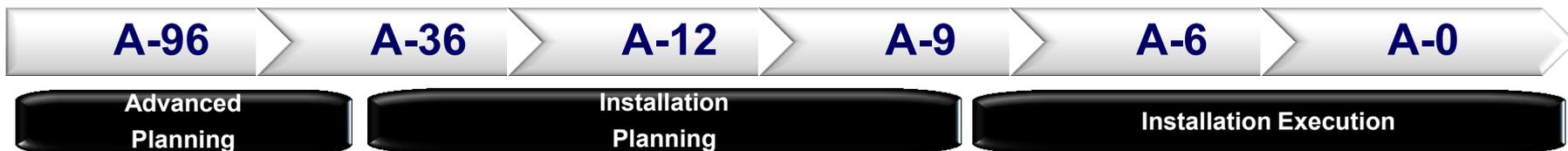
- Determine Requirements
- Align Requirements To C4I Roadmap
- Capability Gap Analysis
- Analysis of Alternatives
- Propose Solutions
- Establish initial C4I Baseline
- Cost Estimates
- Assess C4I BL Risk
- Support Platform Acquisition and contracting Strategy



GFI: Government Furnished Information
GFE: Government Furnished Equipment



Modernization Overview



PMW 760 Role:

- Plan all upcoming ship installs into CNO and other avails
- Provide direct interface to NAVSEA "One Book" modernization planning efforts
- Act as the Platform C4I Baseline Configuration Manager
- Transition planned installs to Fleet Readiness Directorate (FRD) for installation execution



AEGIS MOD / AEGIS BMD



- AMOD: C4I Integration lead to PEO IWS and PEO Ships for AEGIS Modernization (AMOD)
 - ACB 12, ACB 16, ACB Next
 - Develop C4I fielding plans for Cruiser Modernization (CGMOD) and Destroyer Modernization (DDGMOD) upgrade requirements
 - Point of entry to IWS 1.0 for all systems of systems integration activities
- ABMD: Deliver integrated PEO C4I products to AEGIS Ballistic Missile Defense (ABMD) program and Missile Defense Agency (MDA)
 - Leverages role of C4I Integration lead for AEGIS Modernization (AMOD)
 - Provide technical oversight to Product PMWs supporting BMD mission requirements
 - Document and formalize AEGIS BMD requirements
 - MDA / PEO C4I Top Level Design Document (TLDD)



AEGIS Ashore



- AEGIS Ashore (AA) is a Navy-led, MDA-funded, procurement effort
- Utilizes PEO C4I programs of record and afloat configuration to implement AEGIS BMD capability in a shore environment in support of Phase II of Presidential Directive (European Phased Adaptive Approach – EPAA)
 - Configuration is based on DDG-113 AWS / C4I architecture
 - PMW 760 is PEO C4I lead (PARM) for this effort
- PEO C4I representative to Navy BMD Enterprise (NBMDE)
 - NBMD Review Board provides integrated Navy position to EXCOMM, makes Enterprise recommendations and communicates Enterprise priorities
- Participate as voting member to the Review Board and C3I (C2) Cross Functional Team (CFT)
 - CFT achieves synergy with MDA and Services and leverages SMEs to develop issues and recommendations



C4I Baselines



Design and Integration “Wholeness” Efforts

- PMW 760 will instill System of Systems (SoS) engineering, testing, training, ILS and Configuration Management rigor into delivery of C4I Baselines
- SoS Systems Engineering Benefits
 - Reduced installation time and cost
 - Validated capability ISO integrated systems (e.g., combat systems)
 - Reduced variance in fielded baselines
 - Integrated and repeatable end-to-end tests
 - Timely and relevant end-to-end training
 - Increased Fleet reputation
- CSRR is the PEO C4I model for Platform PMW systems integration
- PEO IWS’s Advanced Capability Build (ACB) delivery is the model for AMOD (BL 9C.2) and AEGIS Ashore
- PMW 760 utilizing CSRR / ACB concepts for Platform C4I Design & Integration
- Pursuing Combat Systems engineering expertise to deliver C5I integrated solutions – IWS and MDA

C4I Capability Baseline Target	Class	Date
DDG BMD Baseline 1.X	DDG Class	FY18
CG Baseline 1.X	CG Class	FY18
LPD Baseline 1.X	LPD 17 Class	FY17
LPD NEWCON Baseline	LPD 17 Class (NEWCON)	FY22*
LSD Baseline 1.X	LSD Class	FY18
FF Baseline 1.X	FF 33 Class (NEWCON)	FY22*

* GFE Delivery In-Line to NEWCON



Align PMW 760 with Standard Acquisition Philosophy



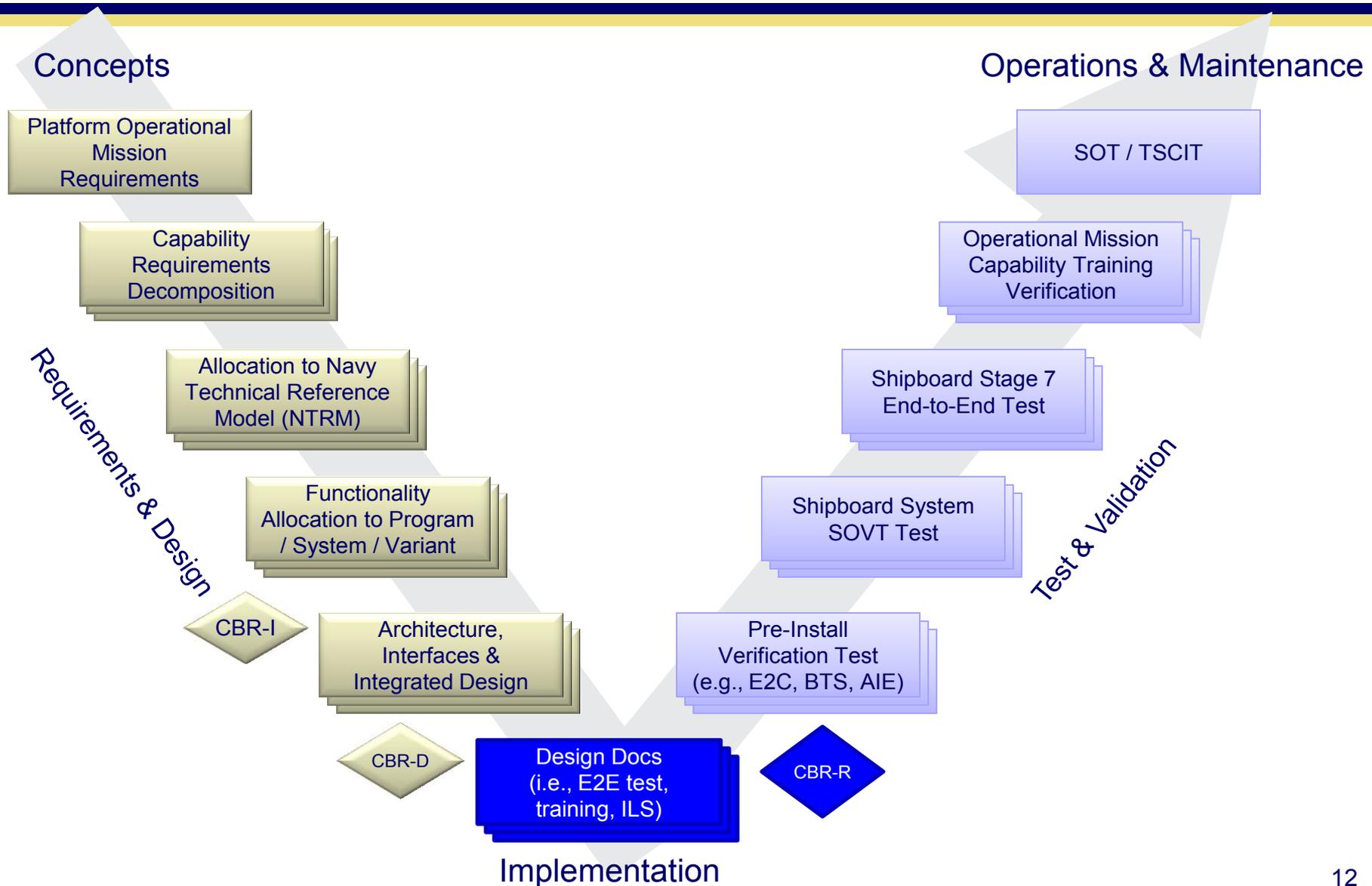
- Long Term (Strategic)
 - Evaluate establishment of ACAT Program of Record for C4I Capability Baselines to support New Ship Construction and C4I Modernization
- Near Term
 - Establish Configuration Management of SoS C4I Capability Baselines and Builds
 - Use existing configuration control structures, governance, and fielding strategies
 - Identify SW/HW, logical flow, and network configuration data in support of cybersecurity
 - SoS Test and Evaluation strategy and plans
 - Pre-install (i.e., Developmental) Testing
 - SOVT
 - SOT
 - Total Ship C5I Interoperability Test (TSCIT); end-to-end SoS testing
 - SoS Training
 - Institute Life Cycle Support
 - Address seams for materials / systems used to complete or standardize the SoS C4I Capability Builds

Aligns to PEO C4I Strategic Objective 1.3 & SPAWAR Strategic Objective 1.1



C4I Baselines and Capability Builds

Systems Engineering Methodology





Critical Stakeholders

New Construction

PEO Ships
PEO LCS
PEO IWS
MDA/AA AEGIS Ashore

OPNAV N96
OPNAV N95

Product PMW 100s	PMs, DPMs APMs APM-Es APM-Is
FRD 100	
Shipbuilders	



Fleet Modernization

SEA04
SEA21
MDA/AB BMD
CNSF / SWE
CYBERFOR

OPNAV N2/N6

Product PMW 100s	PMs, DPMs APMs APM-Es APM-Is
FRD 100	
FRD 200	
Planning Yards	



PMW 760 Contract Laydown



Contract	Awarded	Scope	Small Business Impact
Ship Integration Program Office (PMW 760) Program Management & System Engineering	Dec 2011	<ul style="list-style-type: none"> • Program / Project Management • Acquisition • Systems Engineering • Contract Management • Logistics • Administrative Support 	Large Business Prime; Small Business Targets
Navy Modernization Plan (NMP) Implementation Support	Feb 2011	<ul style="list-style-type: none"> • Modernization/Execution (Design Center) SCD / FID Review 	Small Business Prime
AEGIS BMD & AEGIS Ashore Assured C4I Systems Engineering	Jan 2013	<ul style="list-style-type: none"> • Systems Engineering • Program Management • Configuration Management • Logistics 	Small Business Prime
Enterprise Platform Integration Contract (EPIC)	Feb 2008	<ul style="list-style-type: none"> • Integration • Engineering • Configuration Management • Procurement • Fabrication / Assembly • Test / Inspection • Installation (New Construction) 	Large Business Prime; Small Business Targets
C4I Testing, Integration, and Installation (CTII) Contract	Sep 2014	<ul style="list-style-type: none"> • Same as EPIC; follow-on 	Large Business Prime; Small Business Targets



Summary



- Primary POC between Surface Warfare Enterprise (SWE) Fleet customers and PEO C4I
- Coordinates with stakeholders to plan and manage C4I Baselines / capabilities of platforms throughout the lifecycle (NEWCON and In-Service)
- Provides advanced planning, installation planning, and execution of C4I Installations on Surface Ships
- Provides tested/integrated C4I Capabilities to Surface NEWCON platforms
- Provides integrated C4I capabilities to AEGIS Ashore