



Expeditionary Warfare Conference

Rear Admiral Bill Galinis
Program Executive Officer, Ships

October 26, 2017

Strategic Alignment



SECNAV Priorities:

People
Capabilities
Processes



ASN(RD&A) Pillars:

Getting the Requirements Right
Making Every Dollar Count
Performing the Plan
Minding a Healthy Industrial Base
Strengthening Acquisition Workforce

PEO SHIPS ✦ NAVSEA 21 ✦ CNRMC

Design, acquire, modernize, and support the current and future Surface Fleet for the United States Navy from cradle to grave. We translate warfighter requirements into combat capability, enabling our Nation and its Partners to project presence in peace, power in war, and assured access anytime.



NAVSEA Priorities:

On-Time Delivery of Ships & Submarines
Culture of Affordability
Cybersecurity
Design for Talented People
Design for HVL Environment



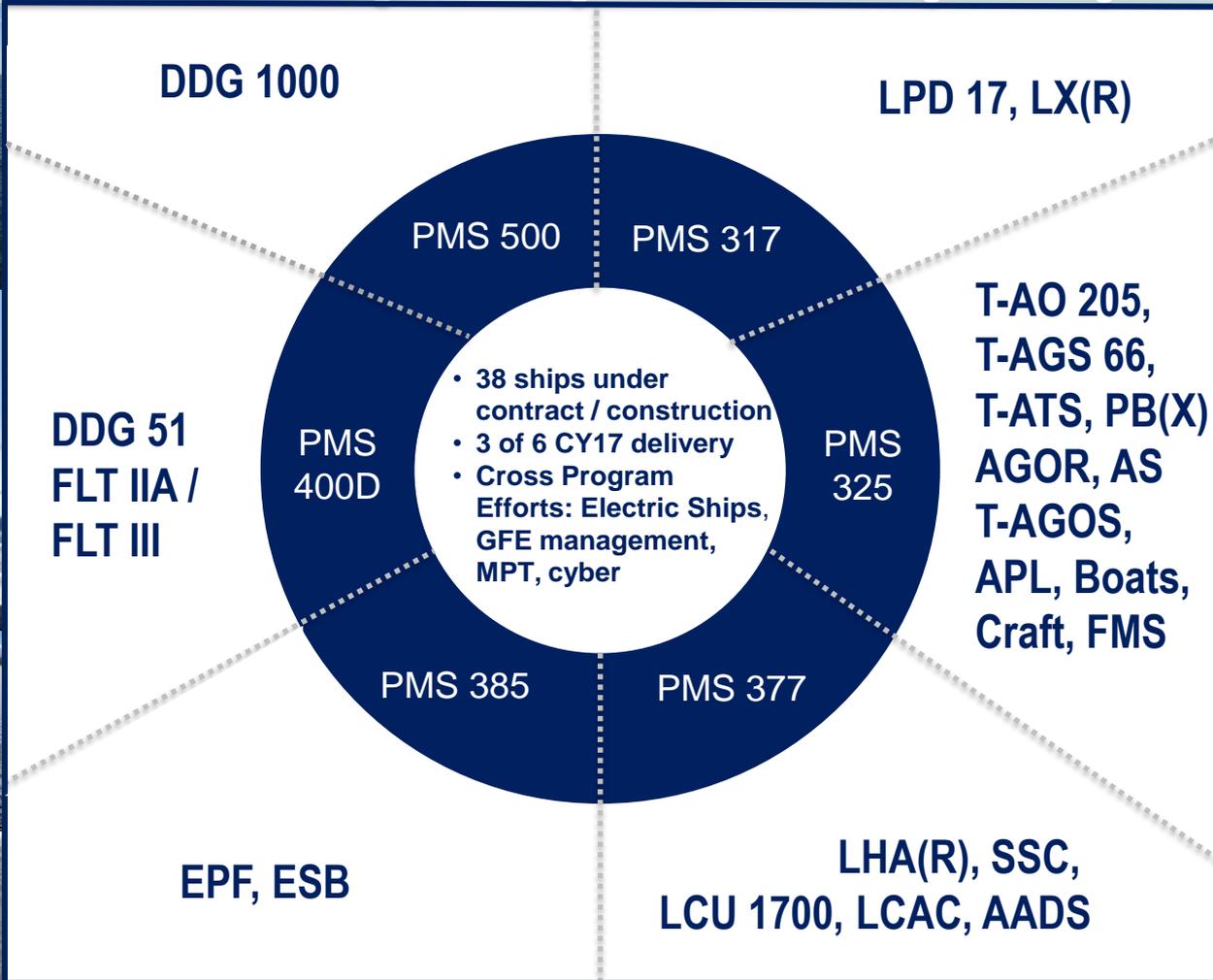
CNO Lines of Effort:

Strengthen Naval Power
Achieve High Velocity Learning
Strengthen our Navy Team
Expand and Strengthen our Network of Partners

PEO Ships Portfolio



7 ACAT I, 2 ACAT II, 5 ACAT III, 1 ACAT IV, 30 NON-ACAT, FMS
\$74B managed through FYDP including backlog





Expeditionary Warfare Conference

Colonel Samuel Mowery
*United States Marine Corps
Team Ships Senior Advisor*

October 26, 2017



- **Naval Expeditionary Warfare Engineering Integrated Product Team (NExWE IPT) forum recent topics:**
 - **Lithium ion battery storage, use, and charging**
 - **F-35 integration**
 - **Special Access Program facility**
 - **Thermal spray nonskid (also an MV-22 issue)**
 - **Training simulators (also an AV-8B issue)**
 - **Weapons storage**
- **Working on the packaging (bundling) of ship alterations and change designs to maximize work completed during avail periods**

“Marines must prepare to ‘fight to get to the fight.’”

--General Neller at 2017 Modern Day Marine



PMS 385
Strategic and Theater Sealift
Program Office

Expeditionary Warfare Conference
October 26, 2017

Mr. Clif Mitchell
Deputy Program Manager



Delivering Ships



Expeditionary Fast Transport - EPF

(formerly JHSV)

<u>Ship Name</u>	<u>Delivery Date</u>
EPF 1	
USNS SPEARHEAD	5 Dec 12
EPF 2	
USNS CHOCTAW COUNTY	6 Jun 13
EPF 3	
USNS MILLNOCKET	21 Mar 14
EPF 4	
USNS FALL RIVER	15 Sep 14
EPF 5	
USNS TRENTON	13 Apr 15
EPF 6	
USNS BRUNSWICK	14 Jan 16
EPF 7	
USNS CARSON CITY	24 Jun 16
EPF 8	
USNS YUMA	21 Apr 17



Expeditionary Transfer Dock - ESD

(formerly MLP)

<u>Ship Name</u>	<u>Delivery Date</u>
ESD 1	
USNS MONTFORD POINT	14 May 13
ESD 2	
USNS JOHN GLENN	12 Mar 14

Expeditionary Sea Base - ESB

(formerly MLP AFSB)

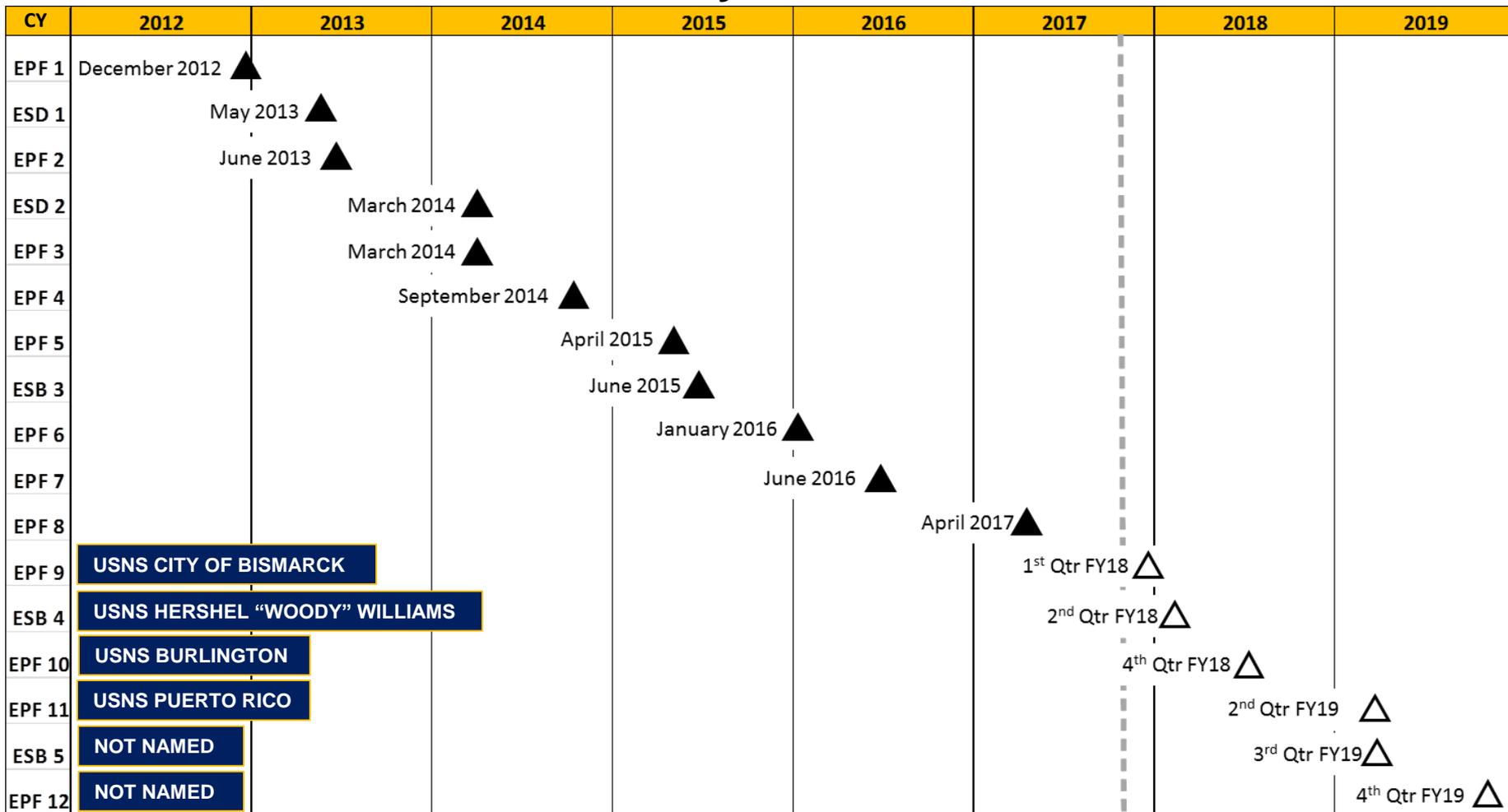
<u>Ship Name</u>	<u>Delivery Date</u>
ESB 3	
USNS LEWIS B. PULLER	12 Jun 15
Commissioned USS	17 Aug 17



It's All About Ships

PMS 385 has delivered 10 Battle Force ships in less than 4 years

Delivery Schedule





Accelerated Acquisition – USS LEWIS B. PULLER (ESB 3)



British Petroleum Tanker



Mobile Landing Platform (MLP)



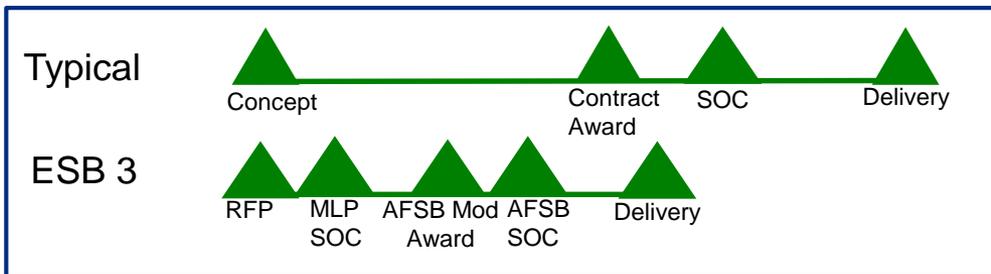
Expeditionary Transfer Dock (ESD)



Expeditionary Sea Base (ESB)

Fast Tracked Capabilities Implementation

- Awarded MLP 3 DD&C to NASSCO Feb 2012
- MLP 3 SOC Feb 2013
- MLP AFSB CDD JROC Approved Mar 2013
- AFSB Mod Design Award Jun 2013
- AFSB Mod SOC Mar 2014
- ESB 3 (MLP AFSB) Delivered Jun 2015
- SOF Modification Installation Start Oct 2016
- Post PSA/SOF Backfit Test and Trials Apr 2017
- ESB 3 Forward Deployed Jul 2017
- ESB 3 USNS to USS Conversion Aug 2017



From AFSB Concept Approval to Capability Delivery into the Fleet – 4 years



USS LEWIS B. PULLER (ESB 3) Ready for Fleet Tasking



USNS LEWIS B. PULLER sailed away 10 July 2017; commissioned USS 17 August 2017



ESB SOF Backfit Capabilities



CH-47



MH-60



MV-22



Blackjack



AH-6



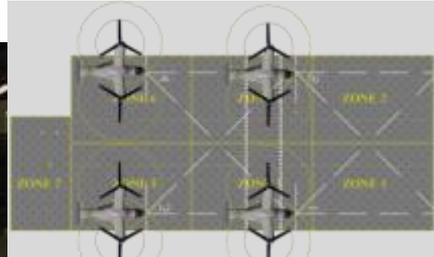
Fire Scout (ESB 4)



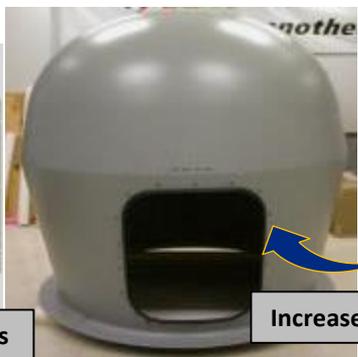
MOGAS



TEU Slots/Services



4 - Level 1/Class 2 Aviation Operating Spots



Increased Bandwidth



Expeditionary Fast Transport – EPF in the Fleet

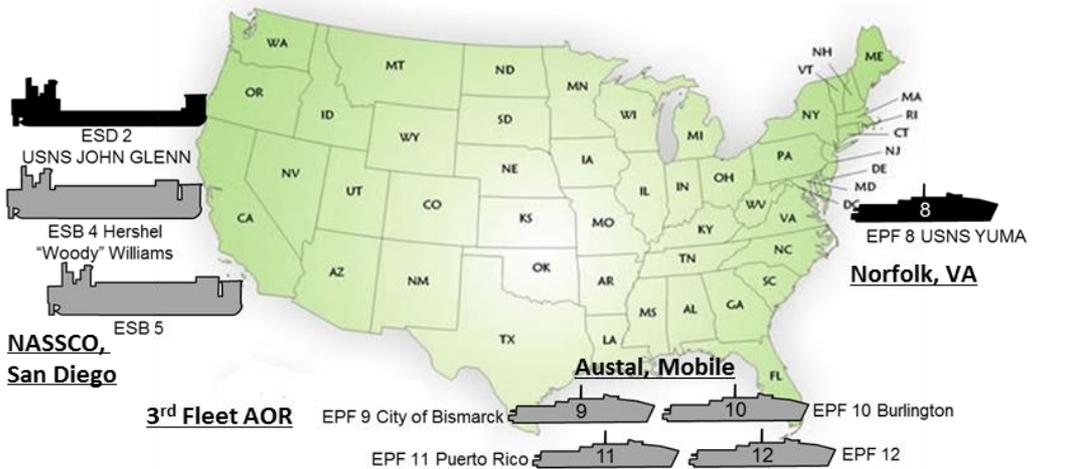


EPF 1-8 in service; 9-12 deliveries planned every 8 months (EPF 11/12 awarded Sept 2016)

DISTRIBUTION STATEMENT A: Approved for Public Release; Distribution is Unlimited



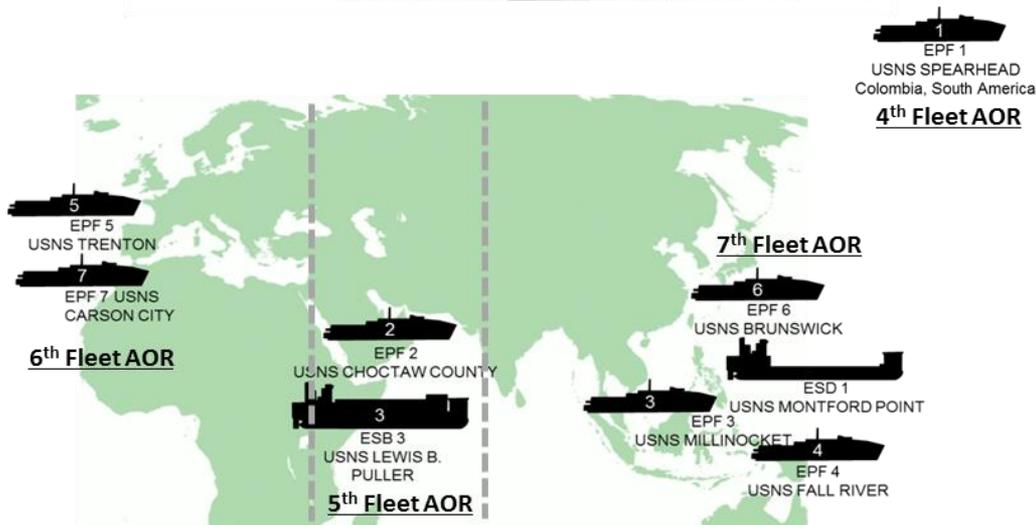
PMS 385 Ships Around the World



Navy Exercising Flexibility in Support of Additional Missions:

- Intelligence, Surveillance and Reconnaissance
- Humanitarian Assistance/Disaster Relief
- Theater Security Cooperation
- SOF Support
- Counter-Piracy Operations
- Mine Countermeasure Ops
- Counter- Illicit Trafficking

... and more



- Delivered
- Under Construction
- Under Contract



LPD 17 / LX(R) Shipbuilding Programs



October 26, 2017

**National Defense Industrial
Association**

*22nd Expeditionary Warfare
Conference*



Program Manager, PMS 317

CAPT Brian Metcalf



Ship Status



- **LPD 26 – USS John P. Murtha**
 - Finish PSA/OWLD Feb 2018
 - Deploys 2019
- **LPD 27 – Portland**
 - Delivered Sep 2017
 - Sailaway to SDGO Dec 2017
 - Commissioning Apr 2018
 - PSA Winter 2018-2019
- **LPD 28 – Fort Lauderdale**
 - ~8% complete, Keel Ceremony Oct 2017
 - Delivers Sep 2021
- **LPD 29 – TBD**
 - In negotiations, Award DEC 2017
 - First steel cut, Delivers ~ 2023

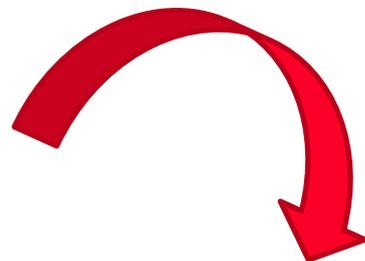




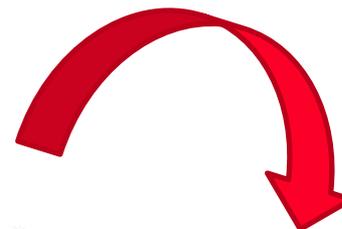
Capability Transition



LPD 17-27



LPD 28 & LPD 29 – Comply with LPD ORD



LX(R) – Comply with LXR CDD





HM&E Comparison



Components	LPD 17	LPD 28/29	LX(R)
Main Propulsion Diesel Engines	Traditional Governor MPDE air shutoff Detached MPDE LO Pumps	Common rail fuel injection (29) MPDE air shutoff not required (29) Attached MPDE LO Pumps (29)	
Aviation and Well Deck Cranes	Folding Boom crane (flight deck) Well Deck Bridge crane (well deck)	Mobile crane (flight deck) Mobile crane (well deck)	
Small Boats	Legacy Arrangement Crane not CCA capable Rescue Boat Pocket Calley Davit	Larger Boat Valley Crane not CCA capable Rescue Boat Pocket Calley Davit	Relocated / higher capacity crane with longer outreach – CCA capable No Rescue Boat Pocket Navy Standard Davit
MOGAS rack	Legacy Design	Legacy Design	Redesign (fusible link) and relocation
Li-Ion Facility	Not incorporated	Not incorporated	Incorporated
Troop + Surge	699 + 101	650 + 0	552 + 78
Well Deck	None implemented	Ramp modification for SSC New line up markings Removed 400 Hz LCAC Power Connection	



HM&E Comparison



Components	LPD 17	LPD 28/29	LX(R)
SSDGs	5	4	
AC Plants	LPD 17-25: 7x 200 Ton LPD 26-27: 3x 200 Ton 2x 375 Ton (HES-C)	3x 375 Ton (HES-C)	
RO	3	2	
DBAC	3	2	
Stern Gate Actuation	Hydraulic	Electric	
Vehicle Square	24,600 sq ft	20,900 sq ft	
Cargo Cube	34,000 cu ft	28,000 cu ft	
JP-5 Capacity	310,000 gal	360,000 gal	310,000 gal



Combat System Comparison



Components	LPD 17	LPD 28/29	LX(R)
Command, Control, Decision	SSDS MK2 MOD 2B BFTT	SSDS MK2 MOD 2E ATD	
Weapons, EW, & Decoys	SLQ-32B(v)2 NULKA w/CHAFF S & Wt. Reservation (VLS)	SLQ-32(v)6 SEWIP Delete CHAFF Delete VLS S&W Reservation	
Radars	SPS-48G	EASR (29)	



C4I Comparison



Components	LPD 17	LPD 28/29	LX(R)
Command & Control	MOS CDLMS	MOS Mod C2PS Tech Refresh	
Networks	SWAN CENTRIX CVIS NAVSSI	CANES (Unclass, GENSER) CANES (Secret REL) CVDS/VIDS/VCR GPNTS	
Comms	HF DAG (4 DMR) DMR (9 - UHF SATCOM, UHF LOS, VHF LOS)	HF DAG (2 DMR) DMR (7 - UHF SATCOM, UHF LOS, VHF LOS) Antenna Reservation (EMUT)	Reservations (Iridium, BFT, Blackjack, ICOP)
ISR	SCI Networks SINGARS	CANES (SCI) SINGARS (via DMR)	
Support	TV-DTS	Antenna Reservation (TV-DTS)	



Survivability Features



Components	LPD 17	LPD 28/29	LX(R)
Counter Measure Wash Down System	Hard Piped CMWD system	Hose-clip style system utilizing existing fire main/ hose stations	
Radar Cross Section (RCS)	Full RCS features.	Stick mast. Deleted upper stern gate. Deleted Boat deck enclosures and RAM tiles.	
Collective Protection	4 zones	1 zone (safe haven concept)	
Degaussing	Advanced Degaussing System (Copper)	NexGen Advanced Degaussing System (high temp superconducting)	
Smoke Ejection System	Yes	Deleted	

Amphibious Warfare Program

PEO Ships (PMS377)



NDIA Expeditionary Warfare: Distributed Expeditionary Operations in a Contested Environment

Tom Rivers
Program Manager
26 October 2017

22nd Annual
Expeditionary
Warfare Conference



PMS377 Active Programs



LHA 8 (BOUGAINVILLE)



LHA 7 (TRIPOLI)



LHA 6 (USS AMERICA)



**OJ-731C/KSQ
Computer Workstation**

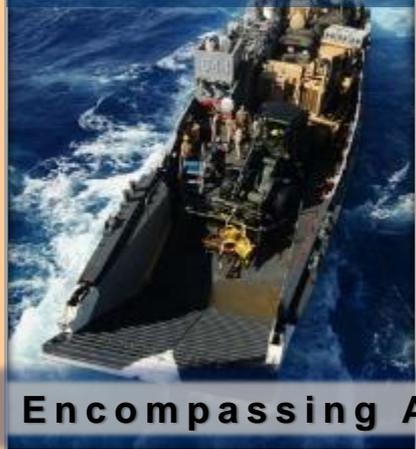


AADS

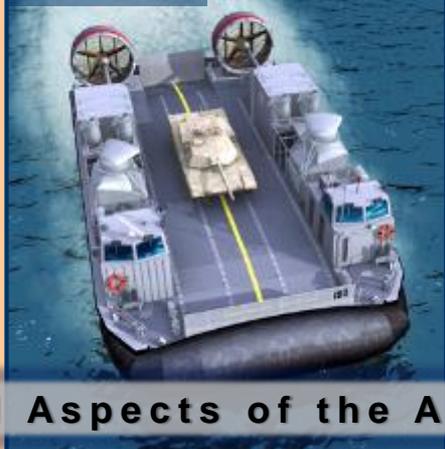
Acquisition Responsibilities

Pre-Systems Acquisition Systems Acquisition Sustainment

LCU 1700



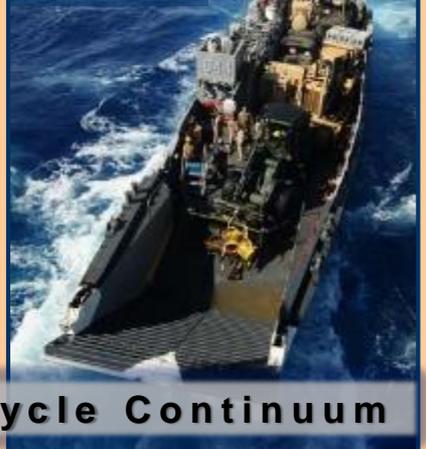
SSC



**LCAC / LCAC
SLEP**



LCU



Encompassing All Aspects of the Acquisition and Life Cycle Continuum

Lift



TROOPS

Marines



CUBED

Cargo



SQUARE

Vehicles





Amphibious Assault Ship



**MULTI
PURPOSE**

**GENERAL
PURPOSE**

LHD

LHA

*Cornerstone
of the ARG / ESG*

SURVIVABILITY

VEHICLES

CARGO

TROOPS

SEA PORT

LIFT

AIR PORT

SPECIAL OPS

**POWER
PROJECTION**

MEDICAL

**COMMAND &
CONTROL**

FORCE PROTECTION

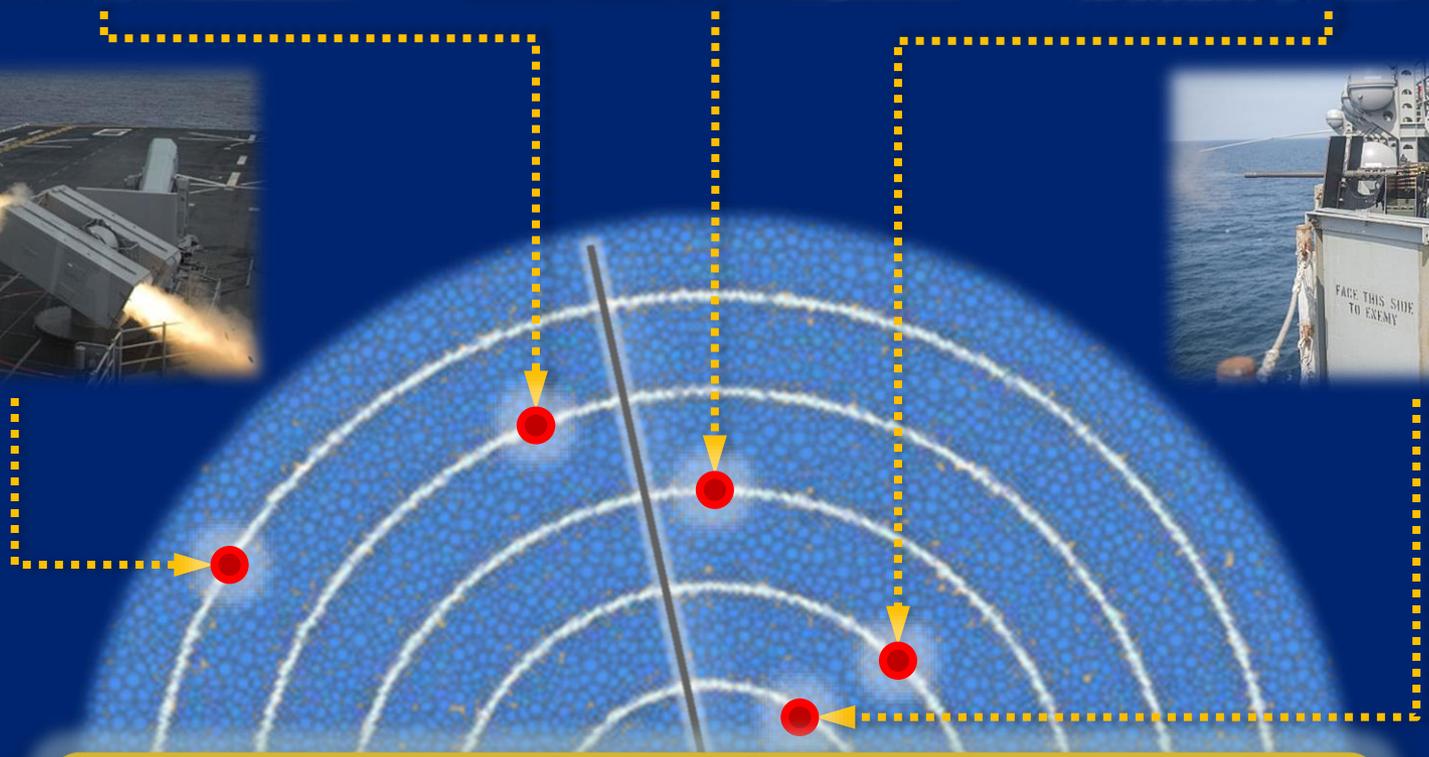
FORWARD PRESENCE

Project Power

Maintain Presence



Force Protection



Multi-layered Defense



Command & Control



**Significant C5I Capability
Sea - Air - Land**



Medical



	FLT 0	FLT 1
Medical ORs	2	2 (+1)
Dental ORs	4	4
ICU Beds	26	24

LHA FLT 0 to FLT 1



FLT 1 Maintains Full Aviation Capability



FLT 1 Adds Well Deck





LHA FLT 0 to FLT 1



TROOPS



VEHICLES



CARGO



	troops	vehicles	cargo
FLT 0	1,687	11.7K ft ²	160 tons
FLT 1	1,462	16.2K ft ²	132 tons



TRIPOLI Christened



Ingalls Shipbuilding
A Division of Huntington Ingalls Industries

Christening
TRIPOLI (LHA 7)
SEPTEMBER 16, 2017

★

MRS. LYNNE MABUS
SPONSOR



81% Complete

Congressional LHA 9 Acceleration Study



LCU 1610 to LCU 1700

TROOPS



VEHICLES



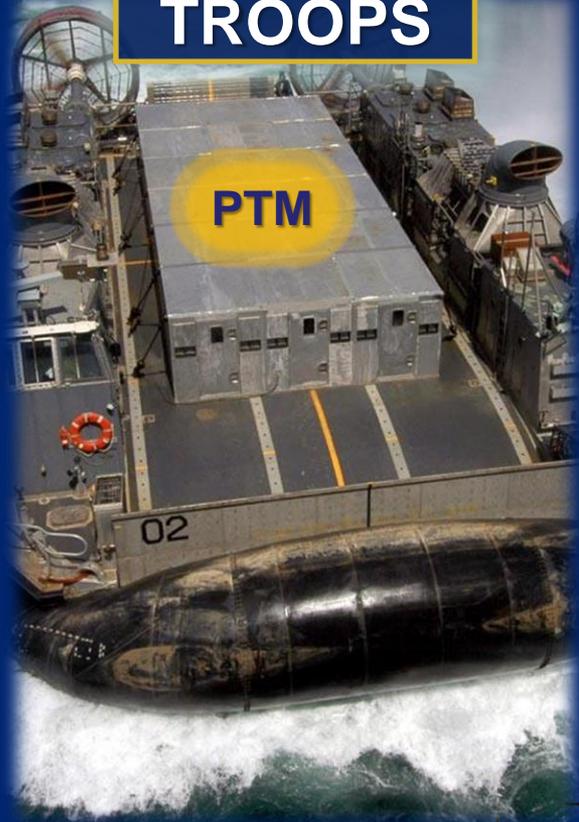
CARGO



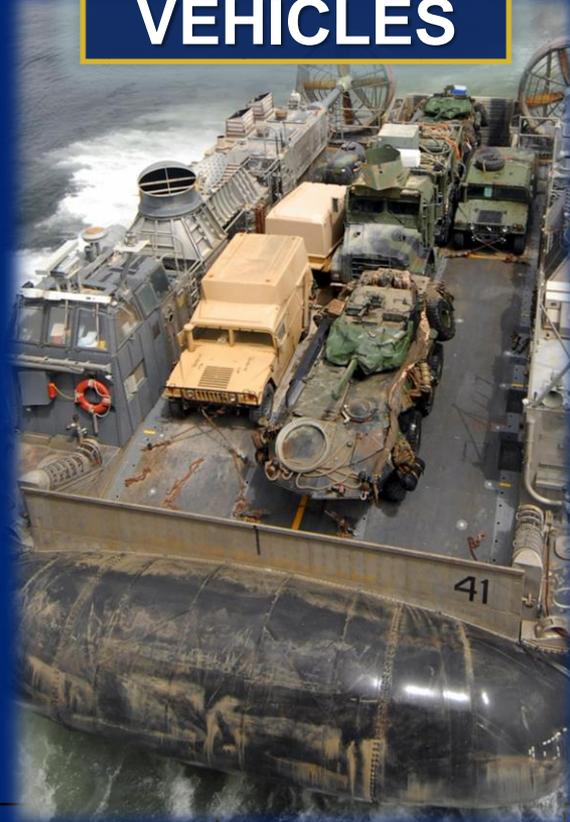
	troops	M1A1	cargo weight
LCU 1610	350	1*	140* tons
LCU 1700	350	2	170 tons

LCAC to SSC

TROOPS



VEHICLES



CARGO



troops

M1A1

cargo weight

LCAC

15

1*

60 tons

SSC

26

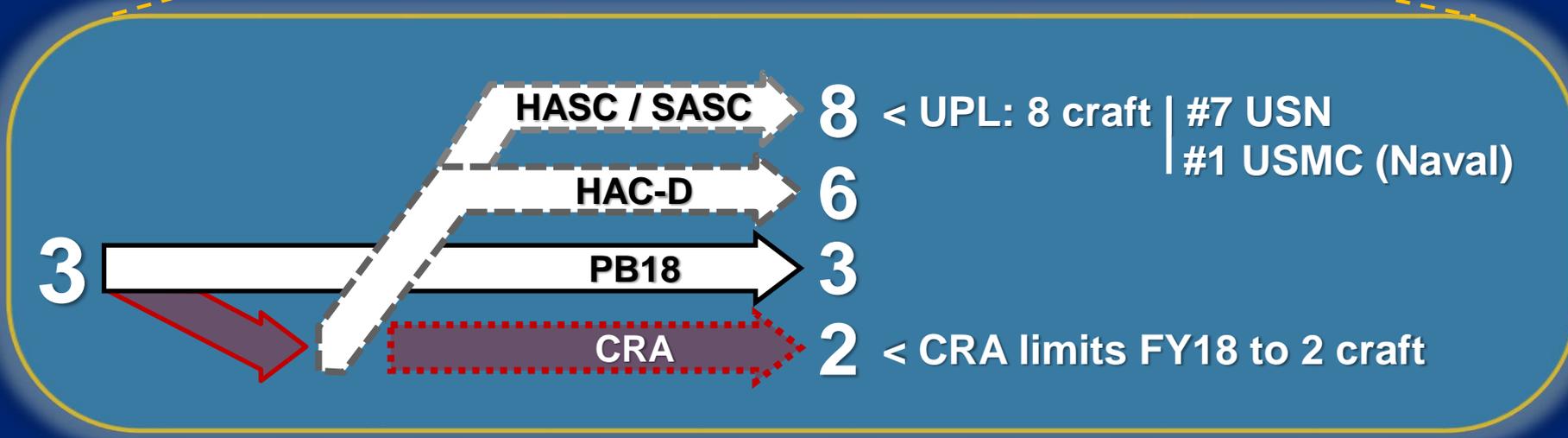
1

74 tons



Landing Craft Procurement

FY16		FY17	FY18	FY19	FY20	FY21	FY22
1	LCU	0	1	2	4	4	4
	SLEP	4*		1			
	SSC	2	3	5	5	5	5





LHA
USS America



LSD
USS Pearl Harbor



LPD
USS San Diego

PEO Ships Q & A Session

Pacific Ocean | 2017