NDIA Expeditionary Warfare Operations Conference 13 October 2016



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Overall Brief: UNCLASSIFIED



UNCLASSIFIED THANK YOU!

>Key accomplishments over the last year

- ESB-3: Delivered
- LPD 26: Delivered and Commissioned
- LPD 27: Christened
- LPD 28 and LHA 8: Awarded
- RQ-21: 1st system delivered (FRP approved)
- MK18 Mod 2: Program of Record











We stay committed to finding the best solutions for the Warfighter



N95 Program Priorities

- Promote amphibious force structure & readiness (capacity, maintenance, modernization)
- Ensure effective F-35B integration
- Recapitalize our legacy surface and airborne mine countermeasures capability
- Recapitalize surface connectors to prevent gaps
- Effectively shepherd UONS/Fastlane systems
- Achieve Navy Expeditionary Combat Enterprise (NECE) wholeness/readiness
- Support alignment of service-common Naval Special Warfare (NSW) capabilities
- > Field, support mature alternative platform (ship) capability
- > Optimize expeditionary manpower & training

Priorities are aimed at investing in technologies to secure the future



How We Will Fight

> Expeditionary Forces are an <u>Asymmetric</u> Force

- We must be the asymmetric threat to future enemies
- We're not building a 21st century Marine Corps to refight Iwo Jima
- Never send a Sailor or Marine into a "fair" fight

> Expeditionary Forces are part of an Integrated Naval Force: "Green in Support of Blue"

- Old assumptions must be revised. CS-21, New USMC Operating Concept
- Joint Strike Fighter—5th Generation aviation deployed aboard LHDs in 2018
- Tilt-rotor enabled amphibious force. Range and speed create options.
- Distributed Lethality / Distributed Maritime Operations / "Kill Webs"
- Expeditionary Advanced Bases

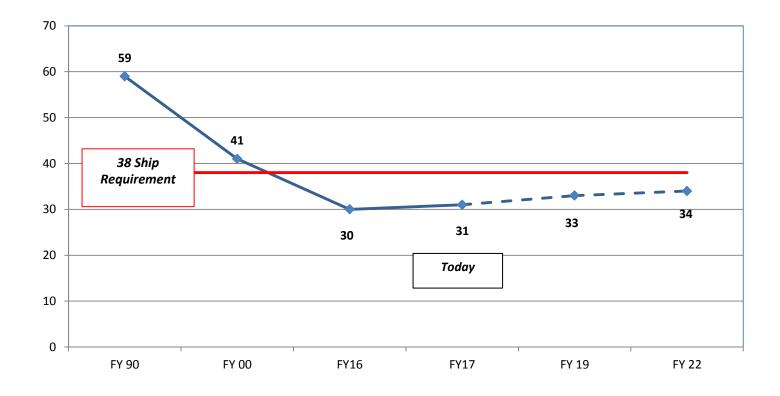
> Forward deployed Expeditionary Forces embody and enable Distributed Operations

- Ready to respond, to form an aggregated Naval Force in crisis or contingency
- Maintaining access, building partner capability and mutual Interoperability
- Gaining experience–Humanitarian Assistance / Disaster Relief (HA/DR) = Expeditionary Logistics
- Reassurance & Deterrence Demonstrating capability, readiness and interest

We must bring Navy and Marine Forces together into a true Naval Campaign

Amphibious Ships: Numbers (Still) Matter

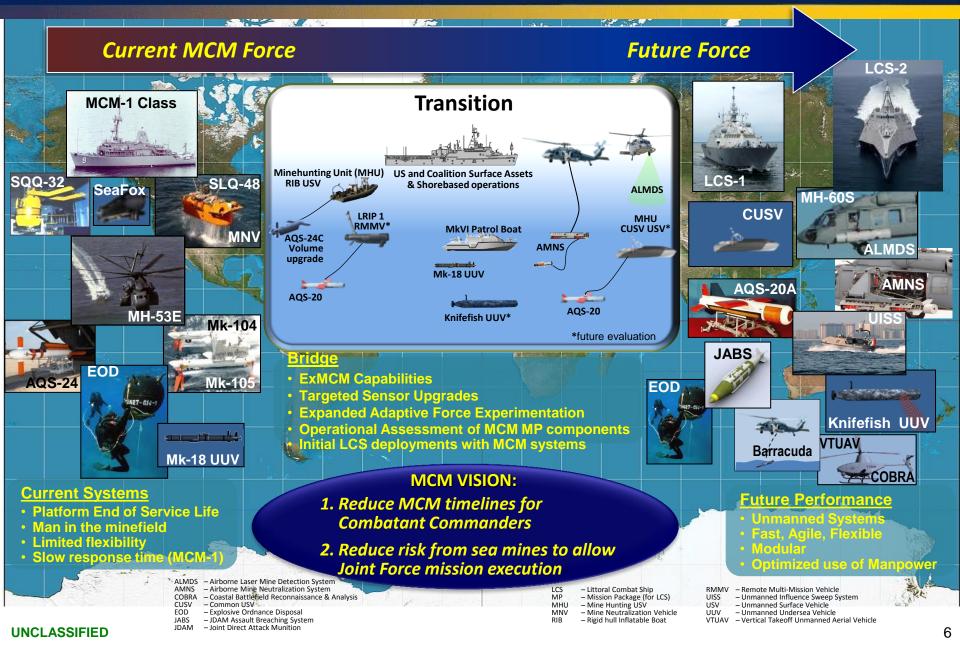
- "The Chief of Naval Operations and Commandant of the Marine Corps have determined that the force structure requirement to support a 2.0 MEB lift is 38 total amphibious assault ships." – SecNav/CNO/CMC memorandum, Jan 2009
- "...Frankly, we need about 50 amphibious gray hulls to get done what we need to around the world today." ADM Greenert, Navy League's Sea Air Space Exposition, Apr 2014
- "...We'd like to have 50 amphibious ships today to answer all of the demands. Those are workhorse ships." Secretary Sean Stackley, ASN RDA, HASC Seapower Hearing, July 2014
- > "...If we could meet all the [COCOM] requirements, it would take 50 ships." Gen Neller, SASC testimony, Sep 2016



Demand continues to outpace capacity



Mine Countermeasures Roadmap





MCM Programmatic Challenges

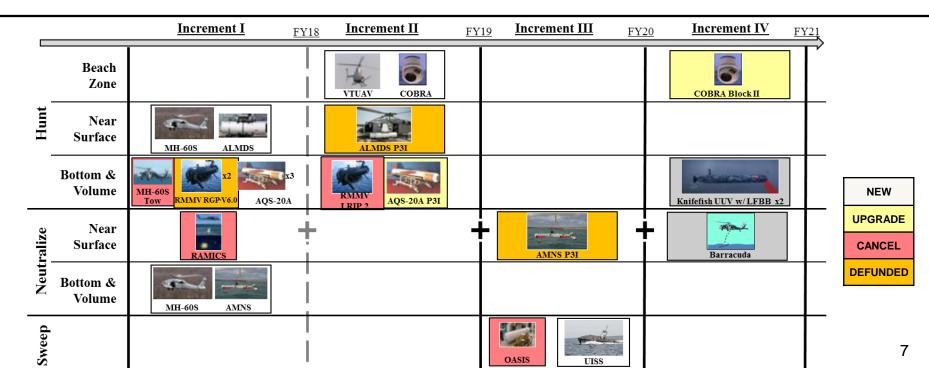
Canceled and defunded components while maintaining the same requirements

Delivery strategy often misunderstood

- Use of "Increments" full system capability is achieved only with final increment
- Each increment adds requirements to existing systems to meet MP ACRS

Platform Integration

- Example: RMMV designed for DDG, "Come as you are" to LCS
- Lack of underway integration prior to test
- "Platform Agnostic"



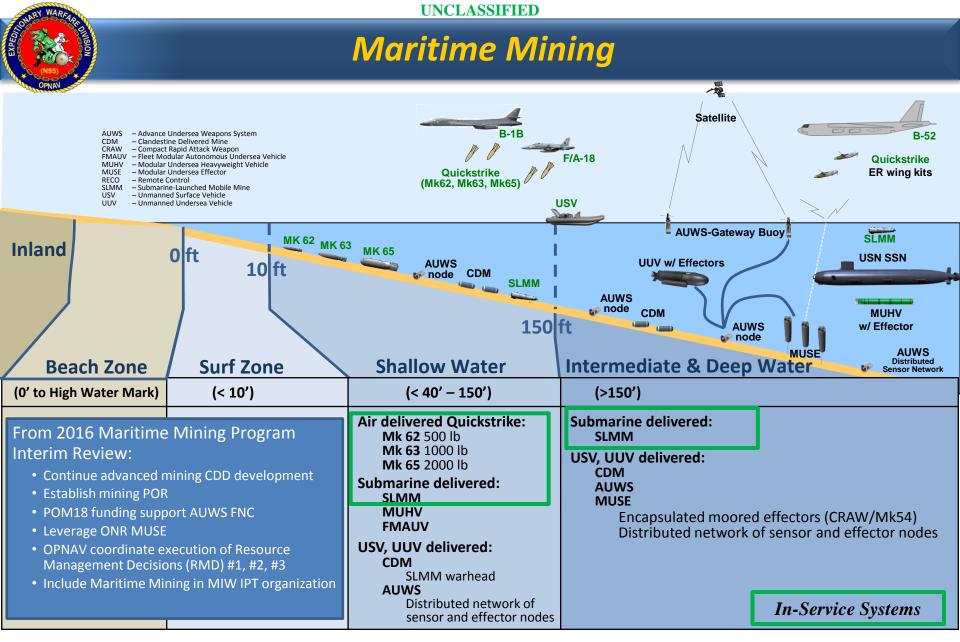


MCM Transition Roadmap

Imperatives:

- Bring capacity and capability (and operational experience) to the Fleet before the sundown of legacy systems (FY24/25)
- Decrease coverage timelines and manage risk using unmanned technology
- > 2016 Independent Review Team (IRT) Implementation Plan:
 - FY 17 IOC for airborne systems
 - System operational performance verified through TECHEVAL
 - FY 17-18 MCM Mission Package (MP) Testing
 - Continue to exercise the end-to-end detect to engage sequence w/ all mission package components
 - Shift to CUSV as tow platform, using RMMV as near-term surrogate
 - Decide on MP composition to support FY20 (IND) /21 (FRE) IOC
 - CONOPS validation and tactical integration
 - Fleet Sailor evaluation and operational feedback
 - Manage fiscal hurdles

Provide Capability and Capacity to the Fleet in Time for Legacy Sundown



Developing Game-Changing Capabilities



Opportunities in Mine Warfare

Abundance of ideas from numerous partners

- Multi-national collaboration
- Industry
- Labs (Government and Academia)
 - Resourcing drives need for coordination
 - Leverage data exchange and capability development
 - Widely varied environments and threats require multiple technologies and tactics

User Experimentation process

- RPED Opportunity to equip the fleet faster
- Use lessons learned to inform future decisions and CONOPS development

Venues for learning and experimentation

- Industry opportunities to demonstrate systems in realistic environments
 UNMANNED WARRIOR 16
 - IMCMEX
 - Ship to Shore Maneuver Exploration and Experimentation (S2ME2)
 - Fleet Exercises (ex. RIMPAC, Bold Alligator)

Mine Warfare is a Team Sport



