



Future of MIW from the LCS Platform

24 October 2011

RDML Jim Murdoch, USN
PEO LCS

Distribution Statement A: Approved for Public Release; Distribution Unlimited. (11/16/2011). This Brief is provided for Information Only and does not constitute a commitment on behalf of the U.S. government to provide additional information and / or sale of the system.



Littoral Combat Ship



- Optimized for warfighting in the littoral
 - Unique designs for unique environment
 - Fast, maneuverable, shallow draft
- Targeted at critical capability gaps
 - Reconfigurable single mission focus
 - Mines, small fast surface craft, diesel submarines
- Modular open systems architecture
 - Onboard sensors, weapons, command & control
 - Offboard unmanned air, surface, and underwater vehicles
- Naval and Joint Force multiplier
 - Provides operational flexibility
 - Fully netted

LCS 1 variant

Lockheed Martin Prime

Shipyard: Marinette Marine, Wisconsin
Steel semi-planing monohull



LCS 2 variant

General Dynamics Prime (LCS 2 & 4)/
Austal USA Prime (LCS 6 AF)
Shipyard: Austal USA, Alabama
Aluminum Trimaran





LCS Production



- LCS 1 (FREEDOM) and LCS 2 (INDEPENDENCE) are Delivered and undergoing Post Delivery, Test and Trials
- LCS 3 (FORT WORTH) and LCS 4 (CORONADO) will deliver next year with good cost and schedule performance
- LCS 5 (MILWAUKEE) and LCS 6 (JACKSON) are under construction
- LCS 7 (DETROIT) and LCS 8 (MONTGOMERY) are under contract
- MCM (2) and SUW (2) Mission Packages delivered and in testing
- PEO LCS will procure 4 Ships and 3 Mission Packages in FY12



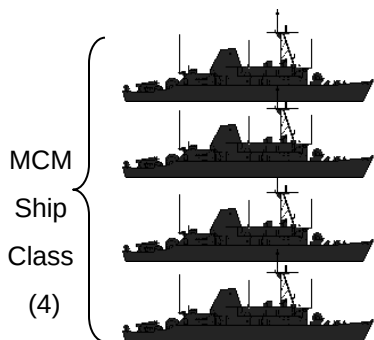
MCM Transition Legacy To LCS



Current Fleet Mine Countermeasures Capability



LHD (Large Deck Amphibious Ship)



LSD (Amphibious Ship) w/ EOD & Marine Mammal Systems

Manpower ~ 2,300 Sailors
Sailors in Minefield: ~360
Area Coverage Rate



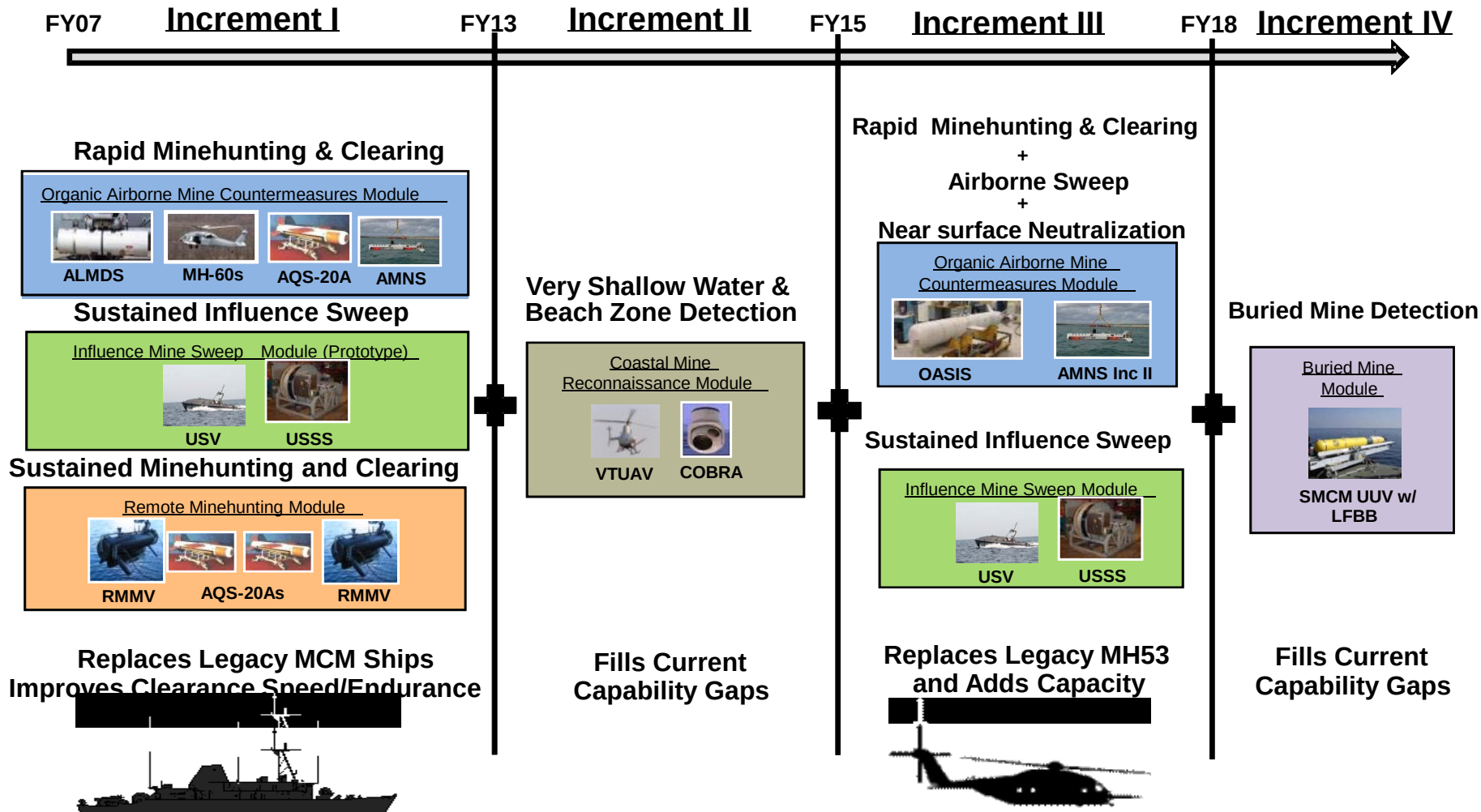
LCS w/ MCM Mission Package



Manpower ~ 390 Sailors
Sailors in Minefield: 0
Improved Area Coverage Rate



MCM Mission Package Capabilities





MCM MP – Developmental Testing (DT) Accomplishments



- Successfully executed first simultaneous offboard systems mission
 - Remote Minehunting System (RMS) and MH-60S with AN/AQS-20A
- Executed Organic Airborne Mine Countermeasures (OAMCM) Missions
- Active Crew/Detachment Participation
- Executed RMS Launches & Recoveries
- MCM Situational awareness off-ship successfully executed from ship to Shore-based Command Center via GCCS-M
- Timed all test mission evolutions including MCM MP on-load



MCM MP Developmental Testing on LCS 2 in Progress



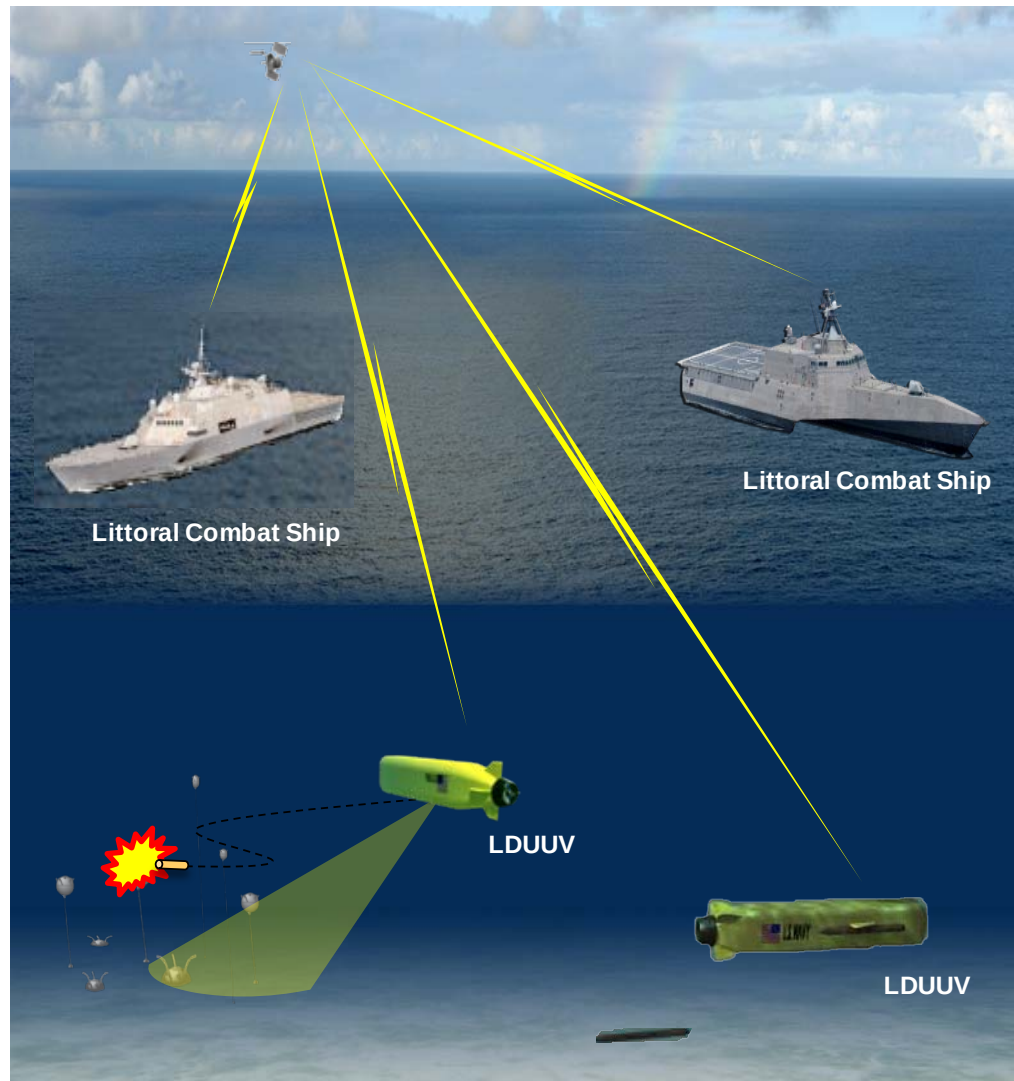
Focus for Future Mine Warfare in LCS



- Integrated Testing
 - Ensure Key Performance Parameters are synchronized and appropriate for systems and Mission Packages
 - Ensure that PEO LCS and partners are working together to support LCS requirements, integration and improve test and evaluation efforts
- Fleet Introduction
 - Position sailors, ship, mission modules, maintenance processes to meet the challenge
 - Embarking on a new set of capabilities, training /career path challenges and loss of current MIW expertise
- Future Technology, enabled by Open Architecture - Commonly Controlled, Multi – Faceted Unmanned Systems
 - USVs
 - LDUUV

LDUUV

- PMS406 establishes LDUUV PoR, leveraging the LDUUV Innovative Naval Prototype development from ONR
- AoA Scope and Tasking Directive development in progress
- Expect RFP in FY14
- LDUUV is able to be launched from a variety of platforms to include LCS
- LDUUV missions include IPOE, ASW, Above-water ISR, Mine Countermeasures (detect to engage), and Offensive Mining





Questions

