



# 11th Expeditionary Warfare Conference

*Joint Expeditionary Operations in an  
Uncertain World*

*23-26 October 2006*

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**(N85)**







# Naval Challenge

*The challenge for the Navy and Marine Corps today is to remain capable of traditional naval missions while simultaneously enhancing our ability to conduct non-traditional missions in order to ensure that naval power and influence can be applied at and from the sea, across the littorals, and ashore, as required.*

*- Naval Operations Concept, 2006*





# *Service Challenges*

## **Strategic Landscape**

- **The Long War**
- **Emboldened Adversaries**
- **Potential of Major Conflict**



## **Naval Expeditionary Capabilities Required**

- **Guiding principles...Speed, Access, and Persistence**
- **Flexible, Scalable, Sustainable, Affordable**

## **Program Challenges**

- **Resource limits**
- **Valid requirements underfunded**
- **Development Process...integrated but cumbersome**





# *Expeditionary Program Snapshot*

## **Amphibious Force**

- **2 Marine Expeditionary Brigade Assault Echelons**
- **2 Marine Expeditionary Brigade MPF(F) + MPS**
- **LPD-17**
- **LSD Modernization Plan**
- **JMAC/LCAC-X**
- **ERGM – reliability testing FY08**





# MPF(F) Squadron

## Amphibious Assault Ship (T-LHA)



- Lightship Displacement: 30,862 MT
- Landing Spots: 9/ship      No well-deck
- Personnel: 3000/ship
- Ship Speed: 22kts

## Multi-Purpose Amphibious Assault Ship (T- LHD)



- Lightship Displacement: 28,540 MT
- Landing Spots: 9/ship      3 LCAC
- Personnel: 3000/ship
- Ship Speed: 22kts

## Large Medium-Speed Roll-On/Roll-Off (LMSR)



- Lightship Displacement: 36,289 MT
- Landing Spots: 2/ship
- Personnel: 345/ship (+500surge)
- Ship Speed 24 kts

## Auxiliary Cargo and Ammunition Ship (T-AKE)



- Lightship Displacement: 25,700 MT
- Landing Spots: 1/ship
- Personnel: 194/ship
- Ship Speed 20 kts

## Legacy MPS

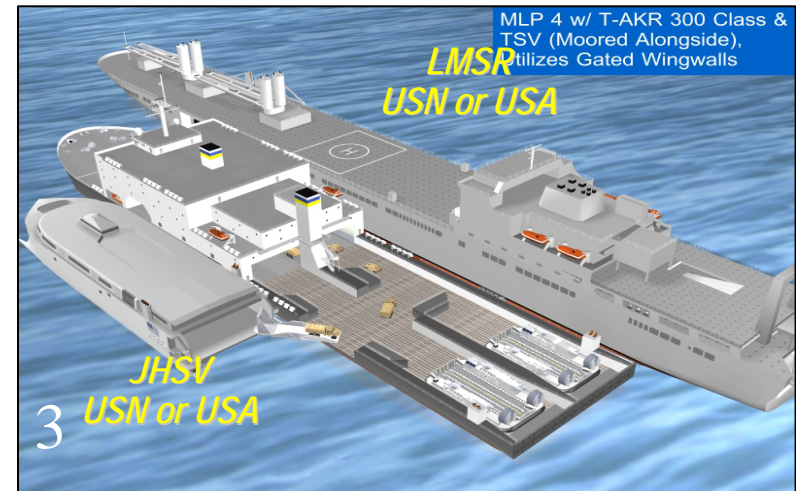


- Lightship Displacement: 19,900 MT
- Landing Spots: 1/ship
- Personnel: 127 berths/ship
- Ship Speed 17 kts

**Joint...**  
**Potential universal interfaces for Navy and Army ships and small craft**

## Mobile Landing Platform (MLP)

- Light Ship Displacement: 28,423 MT
- Landing Spots: 1/ship      6 LCAC
- Personnel: 850 /ship
- Ship Speed 20kts



**Supports rapid closure, assembly, employment, sustainment and reconstitution**

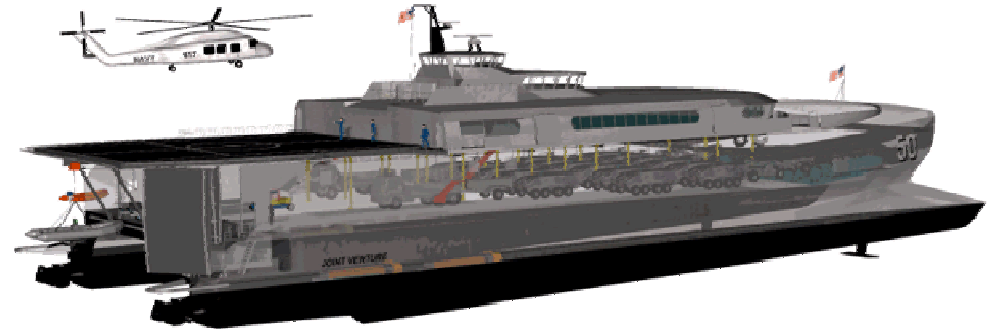




# Joint High Speed Vessel (JHSV)

## Guiding Principles

- Joint program
  - One vessel design
  - One crewing strategy
  - One maintenance strategy
  - One supportability strategy
- Not a combatant
  - commercial non-developmental



## Program Highlights

- Army-Navy program
- Capitalize on experiments
- Non-developmental approach
- Lead ship - FY08 (FY10 delivery) – ~20 year life
- Missions:
  - War on Terrorism
  - Theater Security Cooperation Program
  - Marine Expeditionary Brigade or Brigade Combat Team lift & Sustainment
  - Force Closure
  - Sea Basing Support

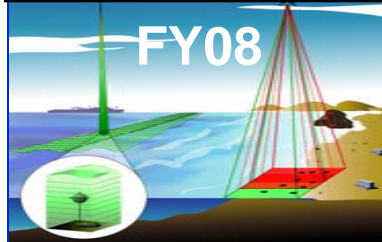
## Key Characteristics

- |   |                  |                     |
|---|------------------|---------------------|
| • High Speed  | 35 – 45 kts      | } “Iron Triangle” * |
| • Intra-theater (loaded range)                                | 1,200 nm         |                     |
| • Medium-lift (payload)                                       | 600 – 700 st     |                     |
| • Self-deploying (unloaded range)                             | 4,700 – 5,200 nm |                     |
| • Net-ready (common C4I suite)*                               |                  |                     |
| • Aviation Capability*  |                  | * Cost drivers      |
| – Threshold: one H-60 flight deck spot, space for 1 hangar    |                  |                     |
| – Objective: one CH-53K flight deck spot, space for 2 hangars |                  |                     |
| • Able to operate from austere ports                          |                  |                     |

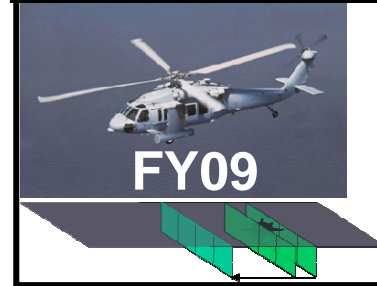


# Mine Warfare – Legacy to Organic

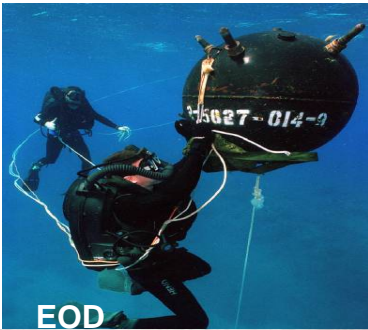
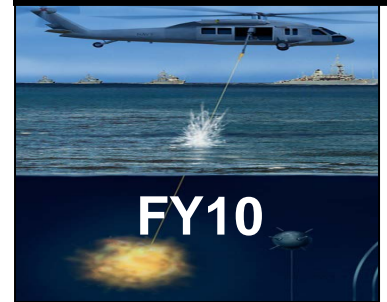
Coastal Battlefield Reconnaissance & Analysis System



Airborne Laser Mine Detection System



Rapid Airborne Mine Clearance System



Today

MCM Class

Transition To Organic



LCS OMCM

LCS-1 Commissioned Sept 2006

Remote Mine Hunting System & AN/AQS-20A



FY07

Airborne Mine Neutralization System



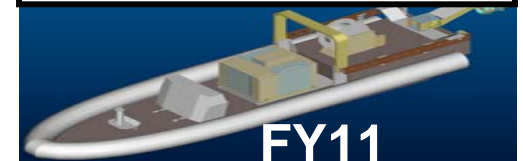
FY09

SCULPIN Unmanned Underwater Vehicle



FY06

Unmanned Surface Vehicle & Organic Airborne and Surface Influence Sweep



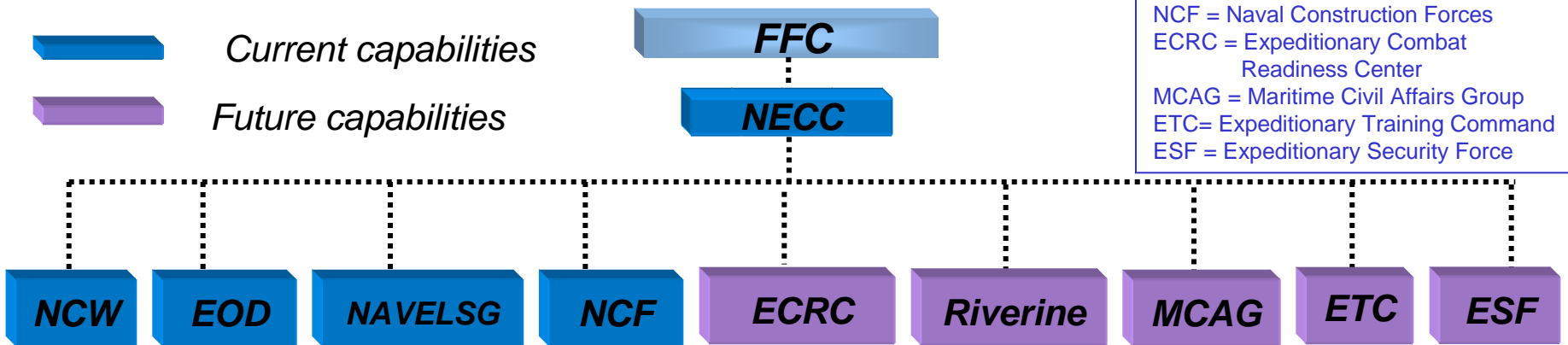
FY11



# Navy Expeditionary Combat Command

**CNO Guidance 2006: establish a more effective maritime protection strategy – green and brown water**

NCW = Naval Coastal Warfare  
EOD = Explosive Ordnance Disposal  
NAVELSG = Naval Expeditionary Logistics Support Group  
NCF = Naval Construction Forces  
ECRC = Expeditionary Combat Readiness Center  
MCAG = Maritime Civil Affairs Group  
ETC = Expeditionary Training Command  
ESF = Expeditionary Security Force



## New capabilities required

- Level III visit, board, search, and seizure (VBSS)
- Expanded maritime interdiction operation (MIO)
- Expeditionary training – to host nations by Expeditionary Training Command (ETC) & to sailors by Expeditionary Combat Readiness Command (ECRC)
- Maritime expeditionary security force (MESF)
- Civil affairs - Military Civil Affairs Group (MCAG)
- Riverine (3 Riverine Squadrons)







## *Way Ahead*

- **Partnership—OPNAV, Fleet Forces, ONR, Industry, Congress and American Public**
- **Complex Problems—require unique approaches-modularity, portfolio of systems, spiral development, risk**



# *Back Up Slides*





# Seabasing Future Naval Capabilities (FNC)

