

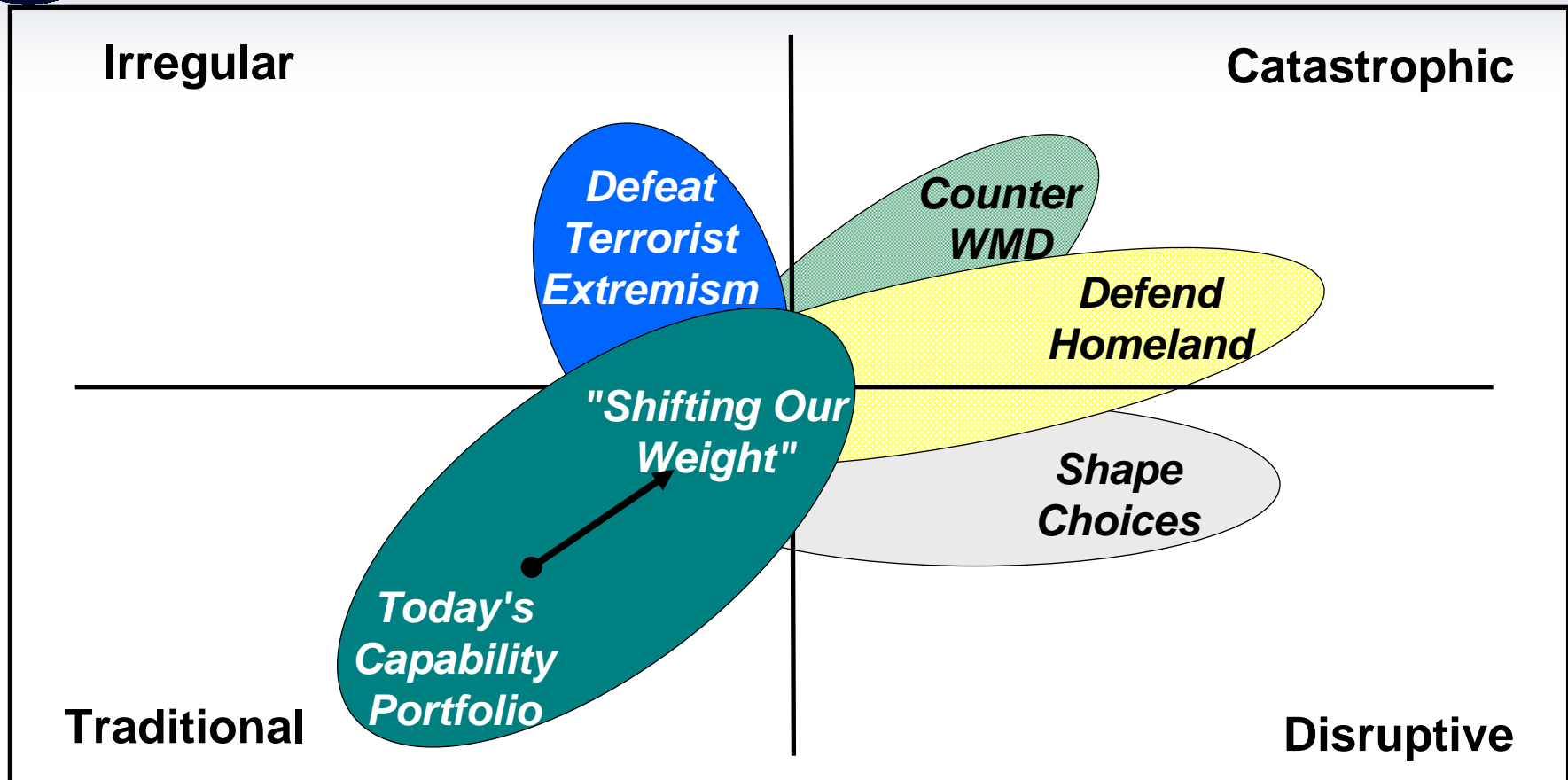
# ***Force Structure*** ***~~Un~~Certainty***



***VADM Terry Etnyre***  
***25 October 2006***



# QDR 2006: Shifting Focus



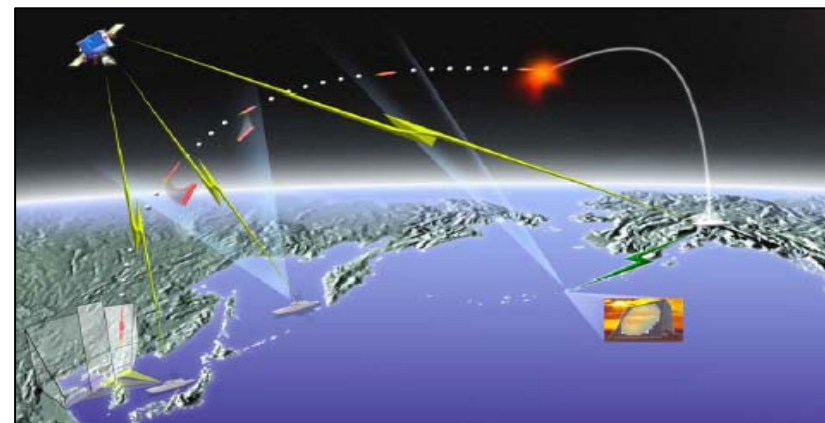
*"This is a different world we're in today. It's unconventional instead of conventional; it's asymmetric instead of symmetric; it's irregular instead of regular; and it is so different for us that we need to...learn to fight this battle as effectively as we were successful with respect to the Cold War."*

Secretary Rumsfeld, April 2006 <sup>2</sup>



# Issues and Challenges

- Uncertain threats
  - MCO...The Long War...Tomorrow's Focus?
- Define Requirements
  - Prevent Requirements Creep
- What is the Right Mix?
  - Capabilities must meet the threat
- Resources
  - Must Control Costs





# Future Fleet: 313 Ship Navy

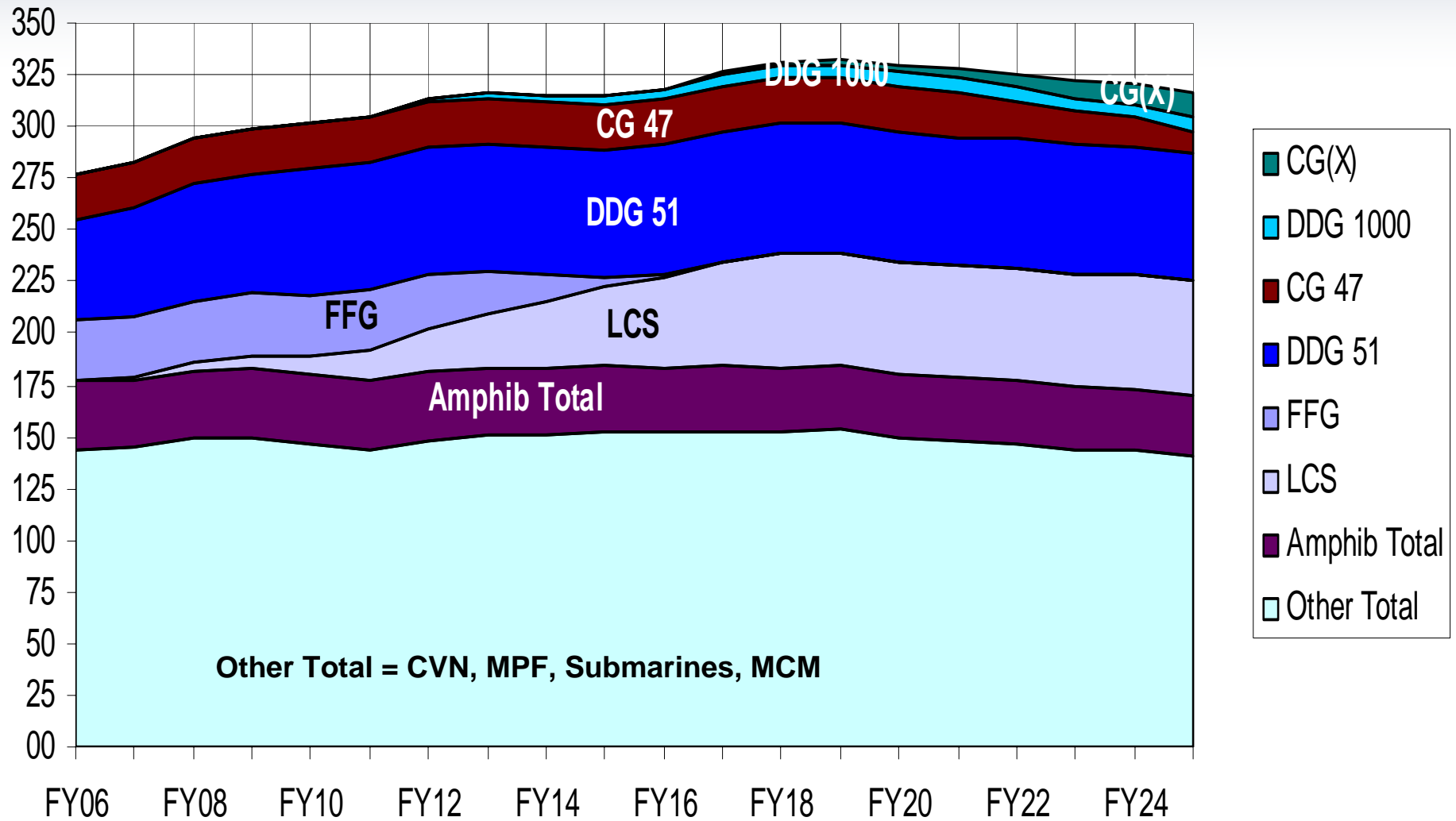
Type/Class	Required
Aircraft Carriers	11
Surface Combatants	88
Littoral Combat Ships	55
Attack Submarines	48
Cruise Missile Submarines	4
Ballistic Missile Submarines	14
Expeditionary Warfare Ships	31
Combat Logistics Force	30
Maritime Prepositioning Force (Future)	12
Support Vessels	20
<b>Total Naval Force</b>	<b>313</b>



***Balances Capability with Affordability***



# The Right Mix





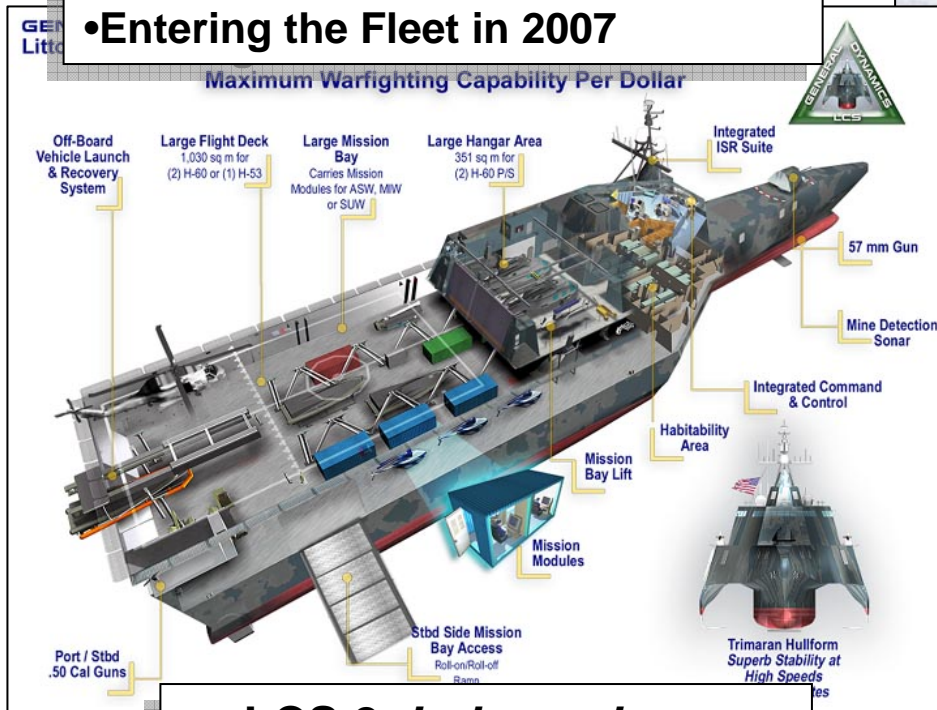
# Capable and Affordable: LCS

- Access to the world's littorals
- Spiral Development
- 50 knot maximum speed
- Reconfigurable Mission Modules
- Optimally Manned Crew
- Entering the Fleet in 2007

**LCS 1, Freedom  
Lockheed-Martin Design**



## Maximum Warfighting Capability Per Dollar



**LCS 2, Independence  
General Dynamics Design**

**LCS will have an immediate impact in the Global War on Terror**



# LCS Design Concept



Fast, Maneuverable, Shallow Draft Hull



Total Ship Computing Environment



Air & Watercraft Capability

C4I  
Navigation  
Self Defense  
Radar  
Vehicle Control  
Maint & Support

Core Systems



Core Crew



SEAFRAME

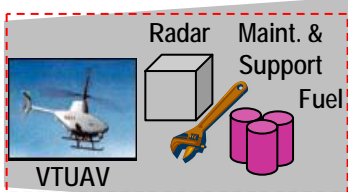
LCS



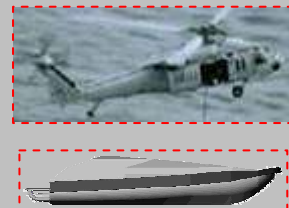
MISSION PACKAGE

Core Capabilities

Interface



Mission Systems



Mission Modules



Mission Crew

Focused Capabilities  
MIW  
ASW  
SUW



# Affording the Future Fleet

- Navy Strategic Plan
  - Focus on Capabilities
  - Build to the Requirement
- Modernization
  - Prevent early retirement
- Sea Enterprise
  - Transformation
  - Navy Enterprise Construct



***Meeting warfighting requirements at an affordable price  
and acceptable level of risk***





# Modernization

## Mission Life Extension Upgrades CG Baselines 2,3,4

### BMC4I

CEC (Variant)  
SGS A/C (B/L 2)  
CDLMS (B/L 2)

### AIR DOMINANCE

7 PH 1C computer program  
COTS computing plant  
Radar and Display upgrades  
VLS Modifications

### FORCE PROTECTION

ESSM  
CIWS BLK 1B  
SPQ-9B (ASMD)  
SARTIS  
SQQ-89A(V)15 (B/L 3 & 4)

### GUN WEAPON SYSTEM

(2) 5 inch/62 Guns  
MK-160 Gun Computing System  
OSS

### HM&E

All Electric Mods  
Smart Ship Upgrades  
Structural Modifications  
Quality of Service Upgrades

B/L 2=CG52-58  
B/L 3=CG59-64  
B/L 4=CG65-73

**Getting full service lives from existing ships is a critical enabler in affording our future**

**Avoiding early-retirement requires commitment to keeping these ships relevant**

## DDG-51 Class

### AIR DOMINANCE

CIC Display Upgrades  
Open Architecture Computing Plant  
VLS Mods (ESSM)  
AWS CR-3 Computer Program  
Multi-Mission SIGPRO  
SPY-1D Transmitter Upgrades  
Multi-Mission BMD  
IABM (SIAP)  
SM6/NIFC-CA (IOC FY14)  
FCS STAMO Upgrades  
CEC

### C4I

NAVSSI BLK 4  
IFF Mode 5

### FORCE PROTECTION

CIWS-1B  
NULKA  
SEWIP  
SSTD (ATT) – IOC FY13  
MK 54 Torpedo/DFCI  
SQQ-89A(V)15 w/MFTA

### HM&E

Full IBS Upgrade  
MCS/DCS Upgrades  
GEDMS  
Wireless Communications  
Digital Video Surveillance  
Quality of Life Upgrades  
Advanced Galley  
Mission Life Extension Upgrades

### GUN WEAPON SYSTEM

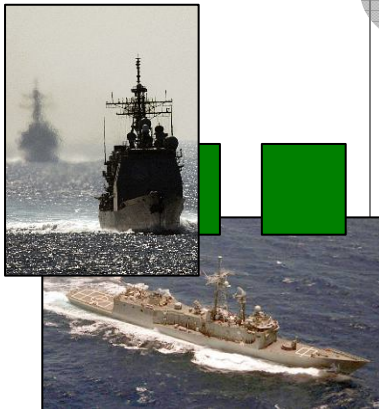
MK-160 Mod X Gun  
Computing System



# Surface Force Transformation

**CNSF Mission: *Deliver trained, highly effective, and technologically capable Surface forces that are certified across a full spectrum of warfare areas...***

**Today's  
SURFACE  
FORCE**



**Surface Warfare  
Enterprise**

Personnel

Maintenance/  
Modernization

**SURFOR TRANSFORMATION**

Training

Logistics

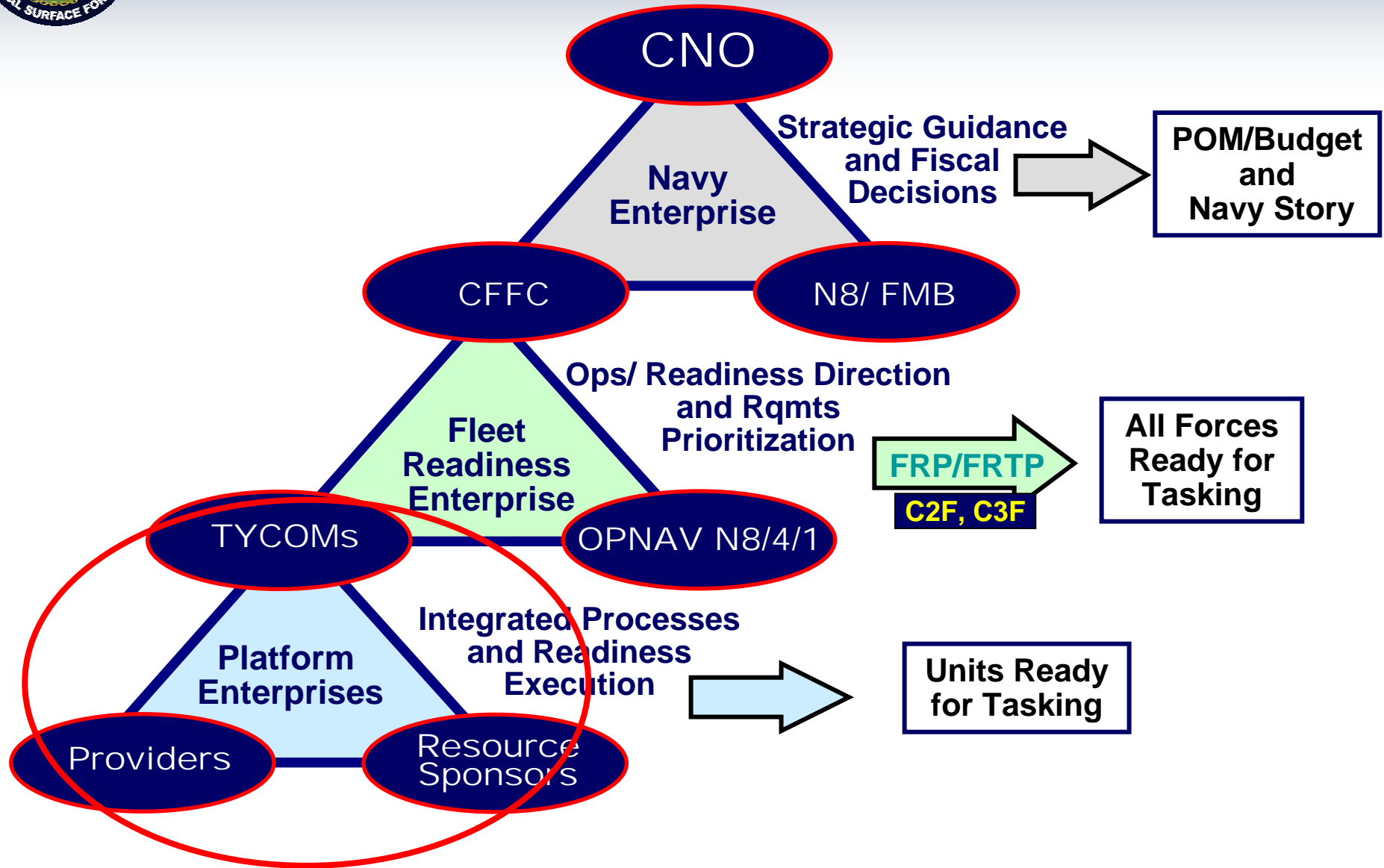
**Warships Ready For Tasking**

**SURFACE  
FORCE of the  
Future**





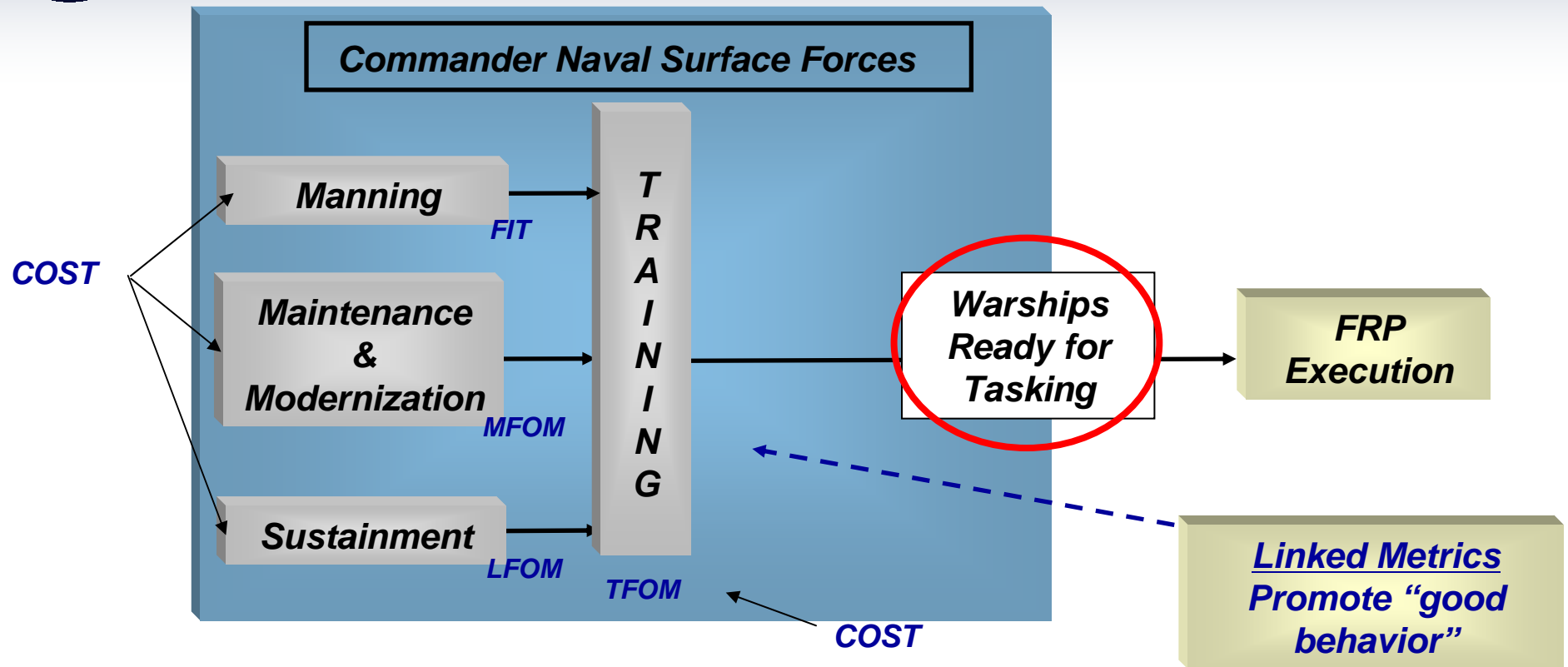
# Navy Enterprise Construct



**Output = Readiness / Cost**



# Surface Warfare Enterprise



**For each process, measure output vs. demand, and measure cost**

**Productivity is Key**



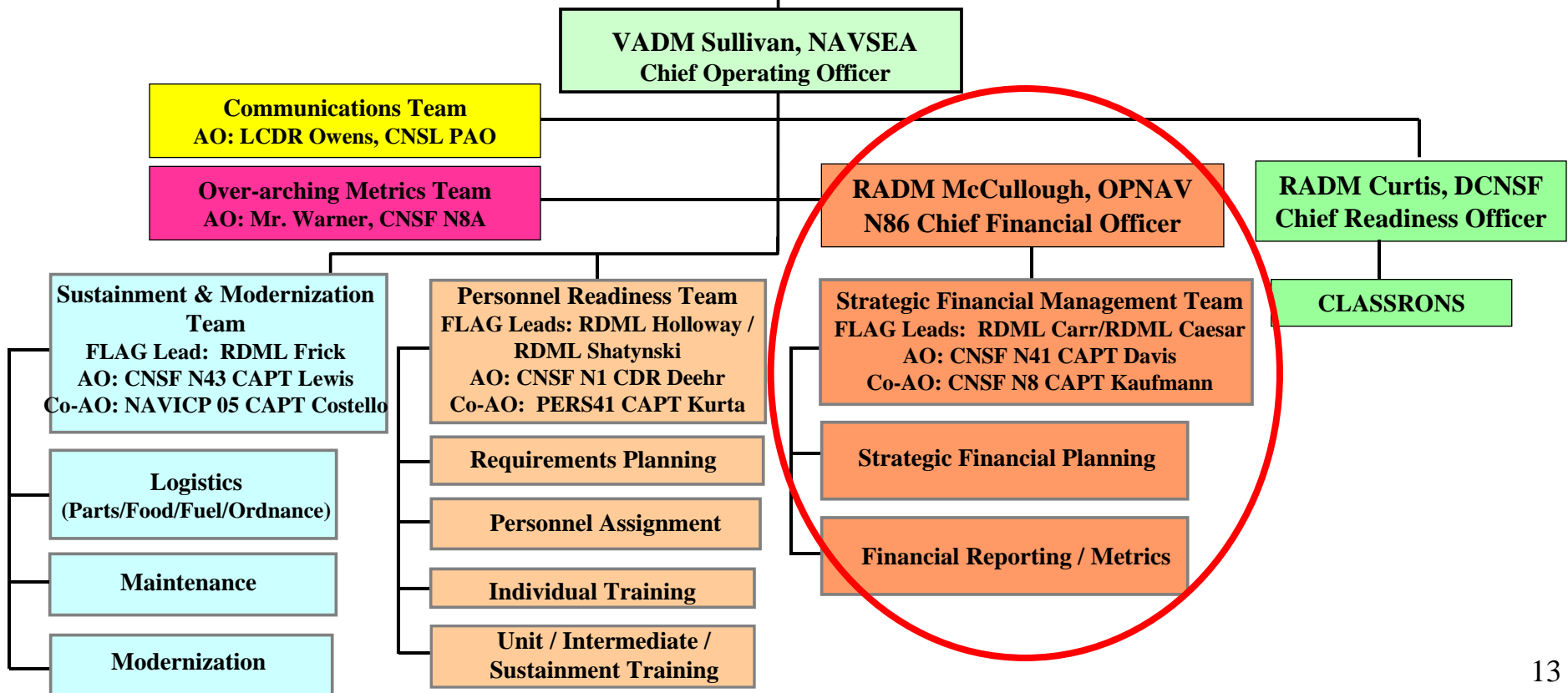
# SWE Oversight

## \* EXCOMM

- \*VADM Sullivan, NAVSEA
- \*RADM Curtis, DCNSF/CNSL
- \*RADM McCullough, OPNAV N86
- \*MGEN Benes, OPNAV N85
- \*RADM Hamilton, PEO SHIPS
- \*RDML Campbell, OPNAV N43B

## SWE Board of Directors (BOD)

- \*VADM Etnyre, CNSF
- RADM Thompson, OPNAV N41
- RADM Nowakowski, INSURV
- RADM Stone, NAVSUP
- RADM Reilly, MSC
- RADM Hugel, SEA 04
- RDML Orzalli, RMC Commander
- RDML Holloway, PERS4
- RDML Carr, OPNAV N86F
- RDML Frick, PEO IWS
- RDML Goddard, V-NAVSEA
- RDML Shatynski, CNSF
- RDML Pottenger, MSFSC
- RDML Buzby, OPNAV N86B
- RDML Deets, NNWC
- Jeff Klein, SPAWAR
- James Thomsen, PEO LMW







# *A Fleet for the Future*

- 30 Year Shipbuilding Plan
  - 313 Ships
  - Provides Structure and Stability
  - Balances Capability and Affordability
- Affording the Future
  - Control Costs
  - Modernization
  - Enterprise Approach



***Balanced, Rotational, Forward Deployed, and Surge Capable***

# *Discussion*

