

# Depot Contributions to Weapons Readiness

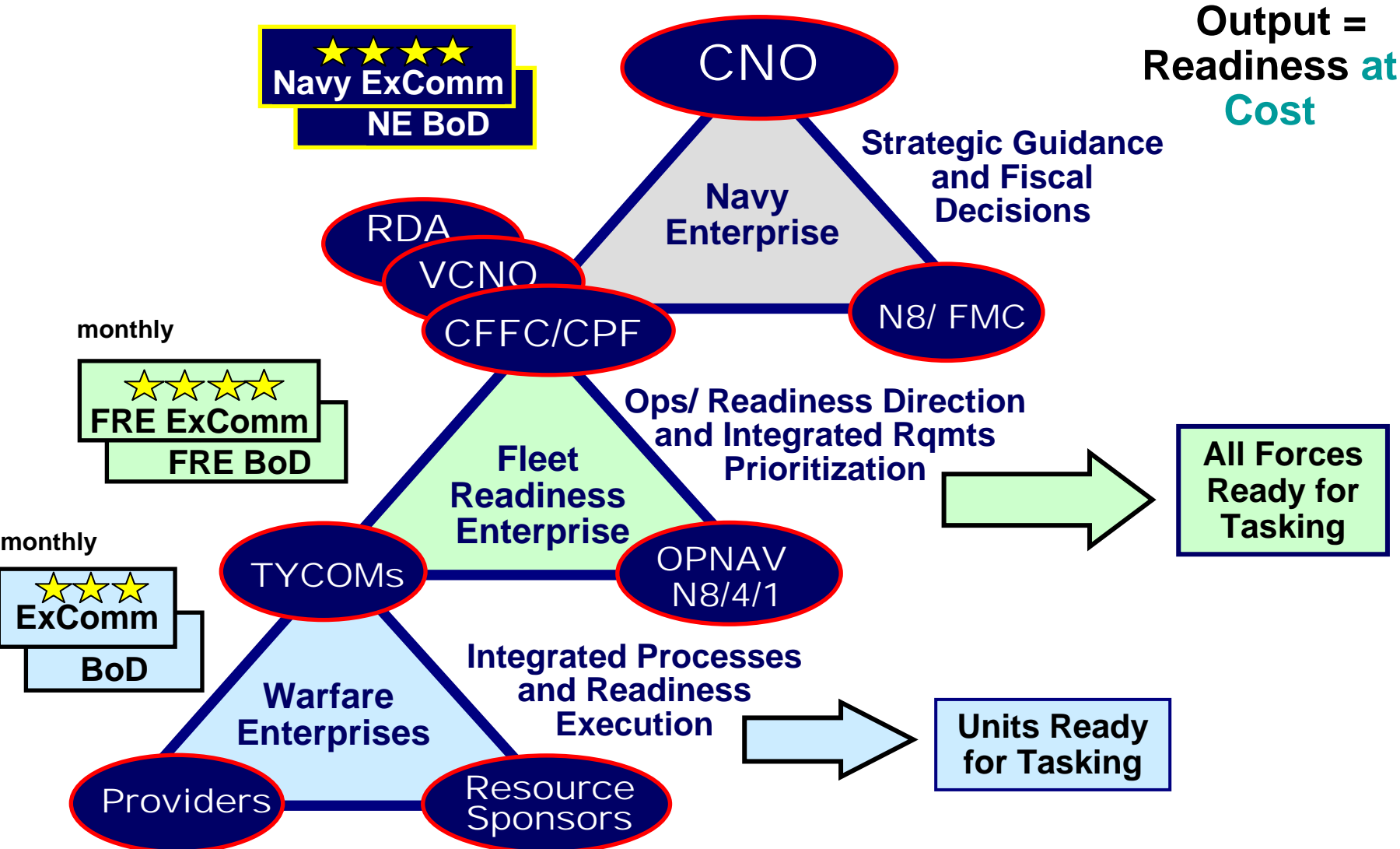
Ship Depot Maintenance

- Portsmouth Naval Shipyard
- Norfolk Naval Shipyard
- Puget Sound NSY & IMF
- Pearl Harbor NSY & IMF

2006 DoD Maintenance Symposium

RDML(S) Joseph F Campbell, CNO, N43B

# ENTERPRISE CONSTRUCT

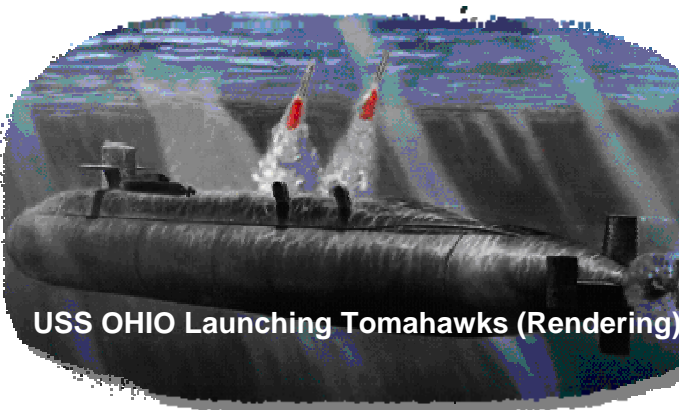


# SSGN NSY Depot Level Maintenance & Modernization

USS OHIO SSGN 726	USS FLORIDA SSGN 728	USS MICHIGAN SSGN 727	USS GEORGIA SSGN 729
ERO started: November 2002	ERO started: August 2003	ERO started: March 2004	ERO started: March 2005
Conversion started: November 2003	Conversion started: April 2004	Conversion started: January 2005	Conversion started: October 2005
Returned to Fleet: February 2006	Returned to Fleet: May 2006	Returns to Fleet: December 2006	Returns to Fleet: September 2007



USS FLORIDA Leaves NNSY for Sea Trials

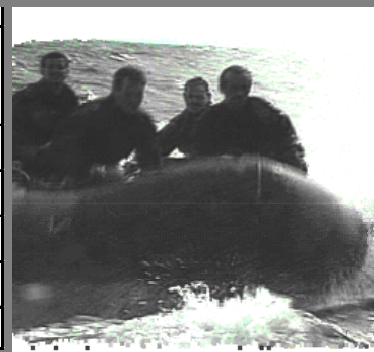


USS OHIO Launching Tomahawks (Rendering)

*“Ohio’s return to service is truly monumental. In the span of a little more than three years, we have taken a proven weapon system and completely changed its operating paradigm. Now Ohio will conduct missions that will have a direct impact on the on-going global war on terrorism and, because of its payload capacity, Ohio and the other three SSGNs will free up Navy assets in the near future. SSGNs are truly force multipliers.”*

**Rear Adm. William H. Hilarides  
Program Executive Officer (Submarines)**

CNO Scheduled Availabilities	Work Packages Completed	Material Requisitions Delivered
USS OHIO (SSGN 726)	1,964	12,872
USS MICHIGAN (SSGN 727)	1,720	17,425
USS FLORIDA (SSGN 728)	1,442	14,246
USS GEORGIA (SSGN 729)	1,753	15,875
<b>FY05 TOTALS</b>	<b>6,879</b>	<b>60,418</b>



Avail	NSY MDs	Contracted MDs	Avail MDs
USS OHIO (SSGN 726)	119,872	6,503	126,375
USS MICHIGAN (SSGN 727)	188,219	8,573	196,792
USS FLORIDA (SSGN 728)	120,377	4,151	124,528
USS GEORGIA (SSGN 729)	150,545	16,287	166,832
<b>FY05 Totals</b>	<b>579,013</b>	<b>35,514</b>	<b>614,527</b>

# “Providing More Maintenance for the Manday”

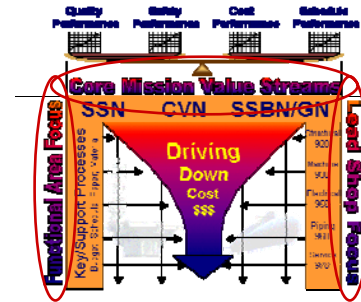
## CPI Goals: Cost    Schedule    Quality    Safety

CP ≥ .95  
(Allowances/  
Expenditures)

SP ≥ 1.0  
Meet Key  
Events &  
CNO End  
Date

20% Reduction  
in Deficiency  
Rate

5% Reduction  
in Lost  
Workday  
Accident Rate



USS HARRY S. TRUMAN (CVN-75) FY06 DPIA

## Focused Lean Initiatives to Get There:

One Naval  
Shipyard Lean  
Transformation

NAVSEA  
Lean Release  
1.0

### Support

1. Hotwork/Firewatch Process
2. New Work Authorization Process
3. Resource Allocation Process
4. Method of Prioritization
5. Topside Work Control/Tagout
6. Supervision/Direct Support Services
7. Waterfront ANDON Services
8. Bundled Services
9. Work In Progress Controls

### Execution

1. Shafting
2. Hull/Sea Valves
3. Reboiler Retube
4. Blow Down Trunks
5. Reserve Feed Tanks
6. A/C Conversion
7. Smart Carrier

“Connecting the Dots”  
Between Lean Initiatives  
and  
Cost Reductions  
to the Customer

### Carrier Cost Performance (CP)

CVN 71 (FY04): .86

CVN 75 (FY06): .90

Total Cost Avoidance: **\$7.8M**

### CVN Shaft Overhaul

CVN 65 (FY02): 3,584MDs

(OT: 1575MDs)

CVN 75 (FY06): 2,432MDs

(OT: 438MDs)

Total Cost Reduction: **\$800K**

(OT Reduction 1137MDs)

# Lean Results: USS ALABAMA

## Puget Sound NSY & IMF

### *FRE Reduction*

#### *ERO Cost Reductions From USS HENRY M. JACKSON*

<i>SWLIN</i>	<i>Description</i>	<i>MD Red.</i>
861L06	N Proj Mgt	1,385
901I01	NN Proj Mgt	4,414
903I11	NN Planning	3,607
902I21	Temp Services	549
904A11	Gen Services	2,660
Various	Work	<u>11,255</u>
	Total:	23,870

- D-5 Conversion portion also reaped benefits from pro-rated SWLINs

### *Contributing Lean RIEs:*

- *Job Planning Cell*
- *Work Packaging Cell*
- *Material Logistics*
- *Material Kitting Cell*
- *Tooling*
- *Supv WIP Control*
- *Andon (Trouble Desk)*
- *Tank Cells*

# USS SAN FRANCISCO



**Emergent Repair – A Core Readiness Function**

# Naval Shipyard Welders Ready for Readiness



**2005: Norfolk Naval Shipyard workers in Kuwait to up-armor Army trucks**



**2006: A 14-member team from Navy shipyards across the country helping the Maintenance Center Albany prepare 89 LAV-A2s for armor protection before the vehicles get shipped to Marines in Iraq. Includes 3 reservists under SURGEMAIN**



**One Shipyard is Working Beyond the Shipyard**