



U.S. NAVY MARINE DIESEL ENGINES AND THE ENVIRONMENT

2002 Diesel Engine Emission Reduction Workshop

25-29 August 2002
San Diego CA

Presented by
Messrs Michael Osborne
and
Jonathan DeHart



AOE 10



CG 49



YTB 791



PBL

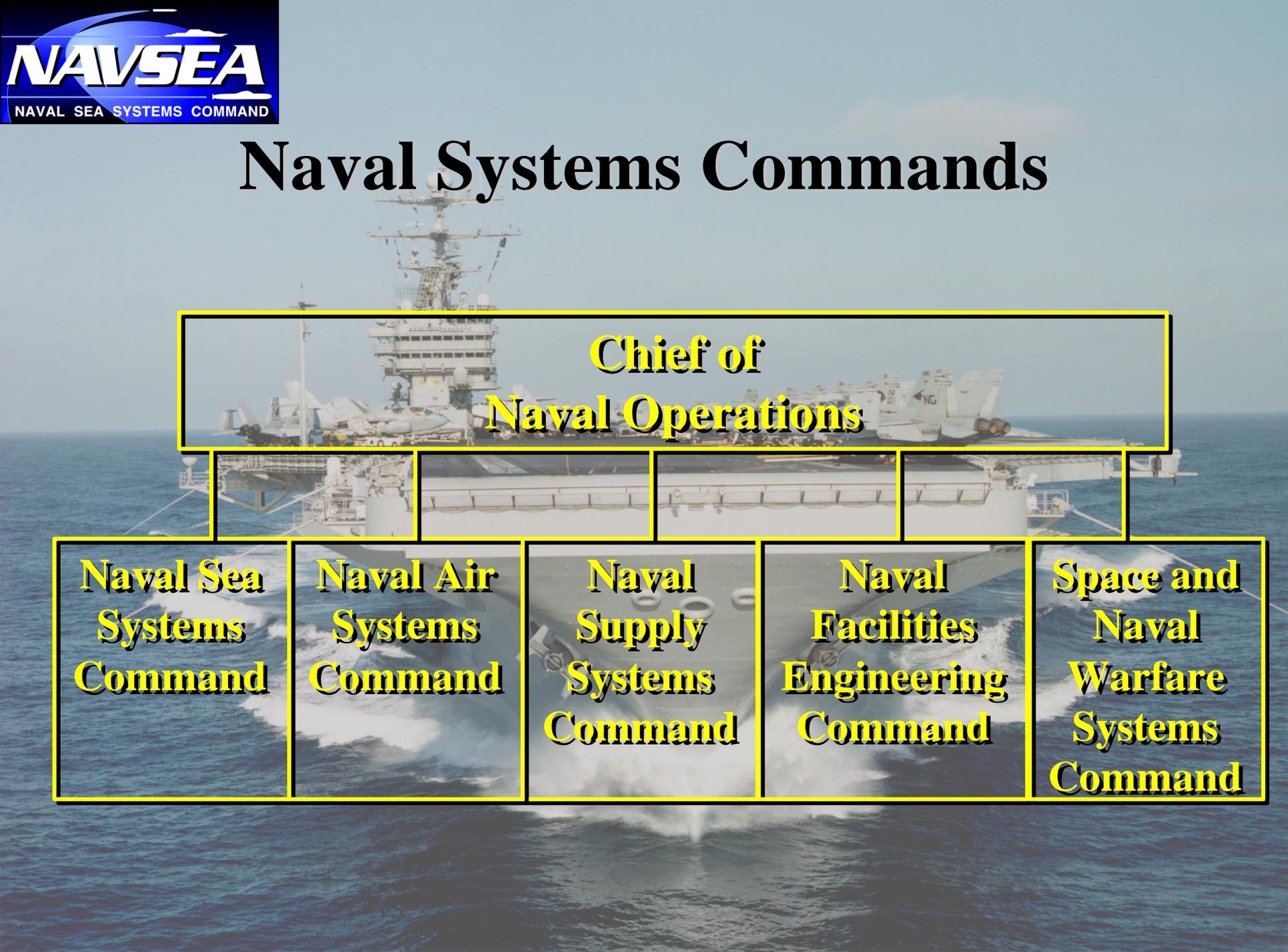


Agenda

- Who We Are and What We Do
- Unique Navy Needs
- Navy Environmental Technologies
- Emerging Issues
- Future Plans



Naval Systems Commands



**Chief of
Naval Operations**

**Naval Sea
Systems
Command**

**Naval Air
Systems
Command**

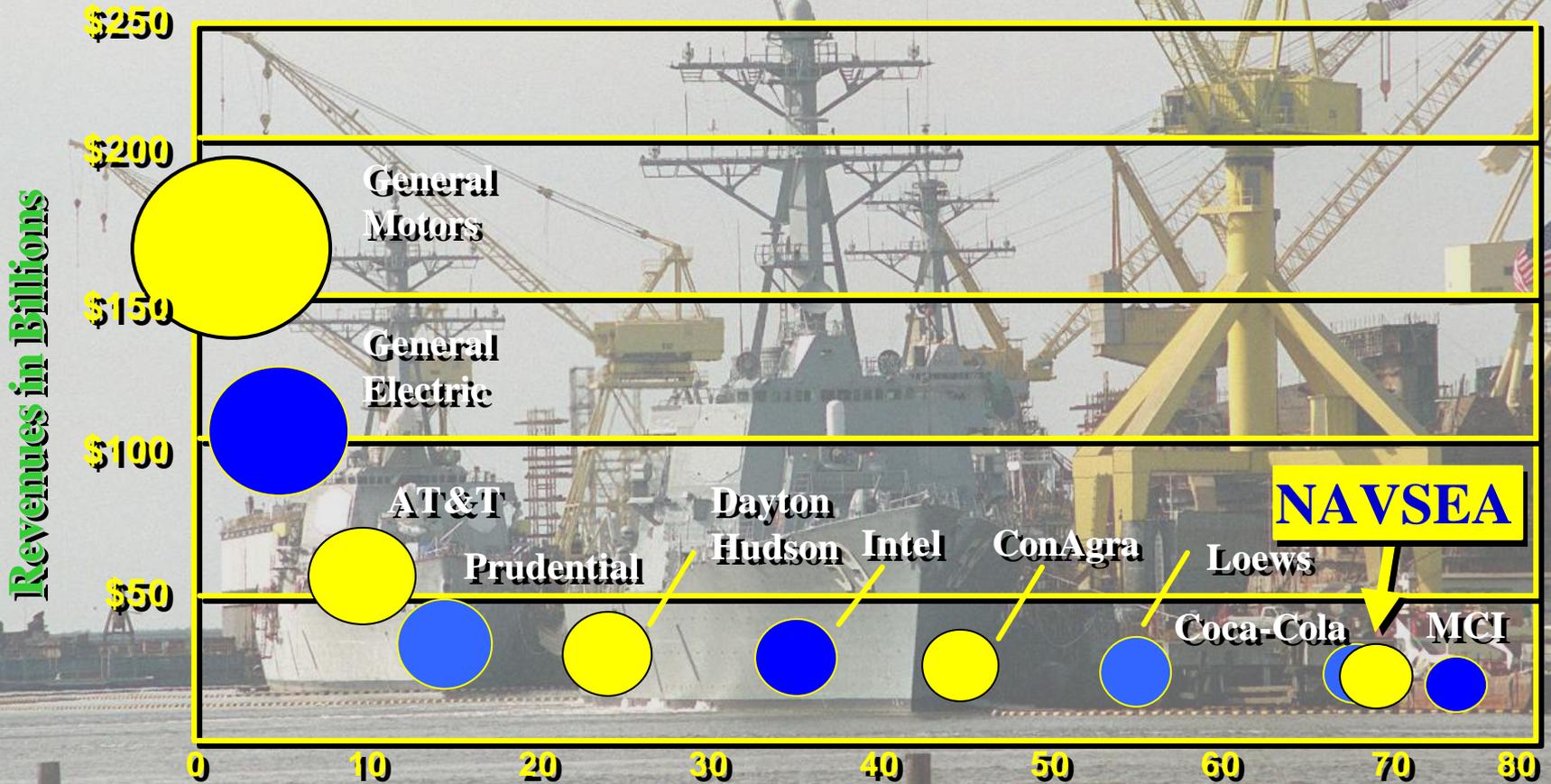
**Naval
Supply
Systems
Command**

**Naval
Facilities
Engineering
Command**

**Space and
Naval
Warfare
Systems
Command**

NAVSEA Today

Business Comparison



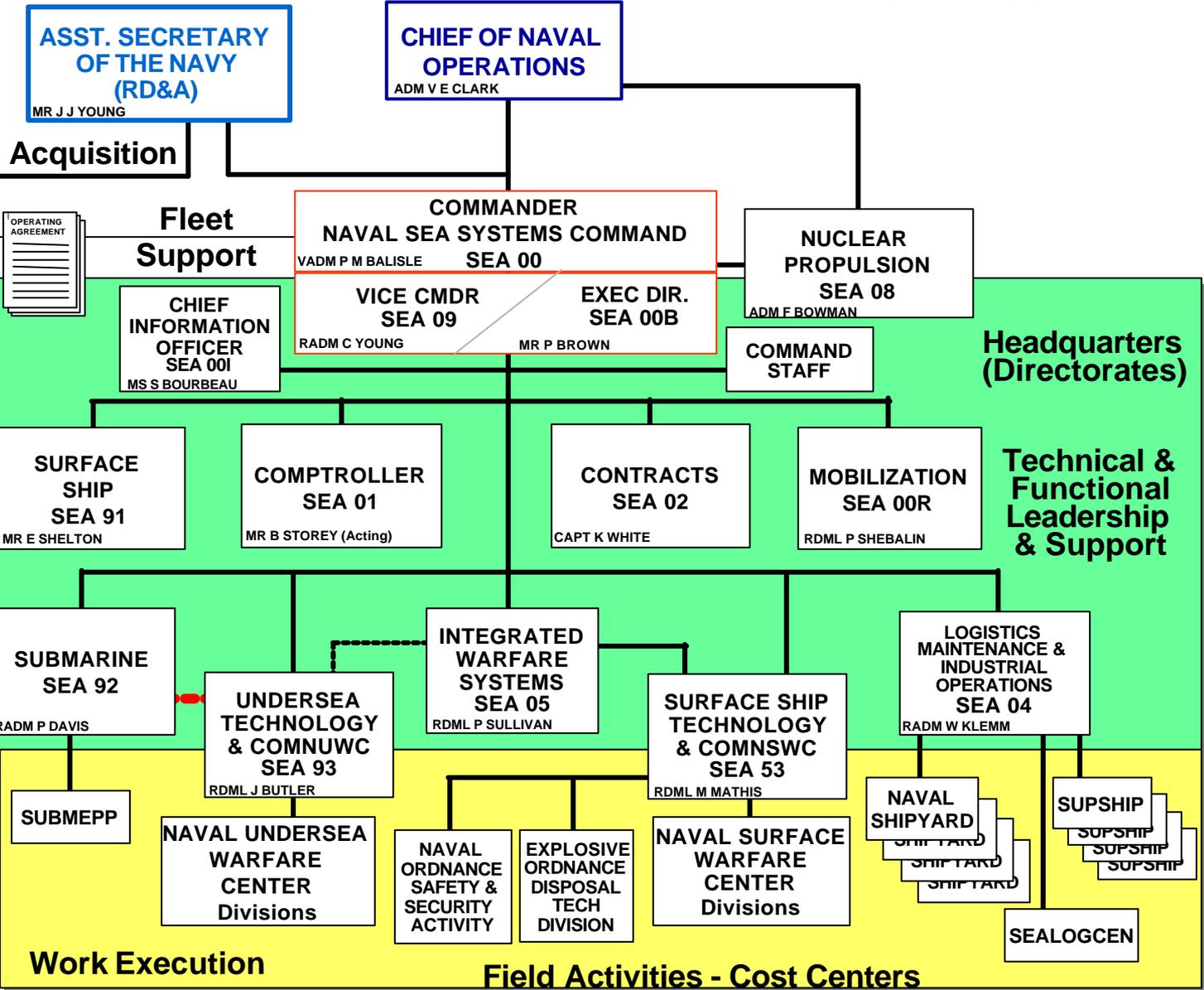
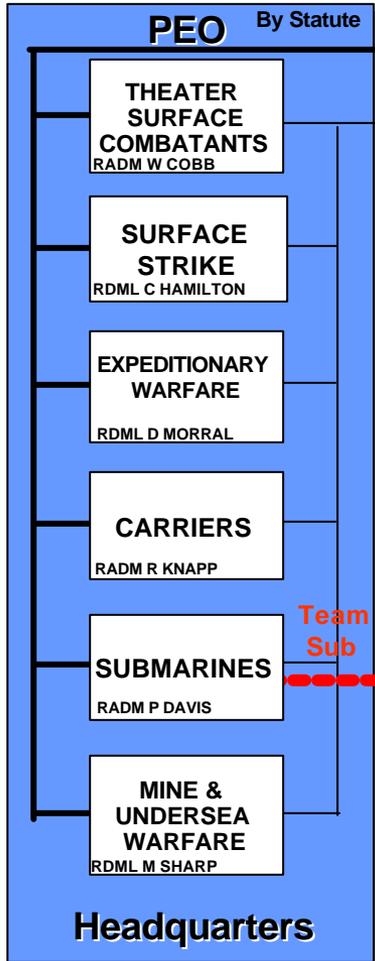
Fortune 500 Rank of Selected Companies



Naval Sea Systems Command

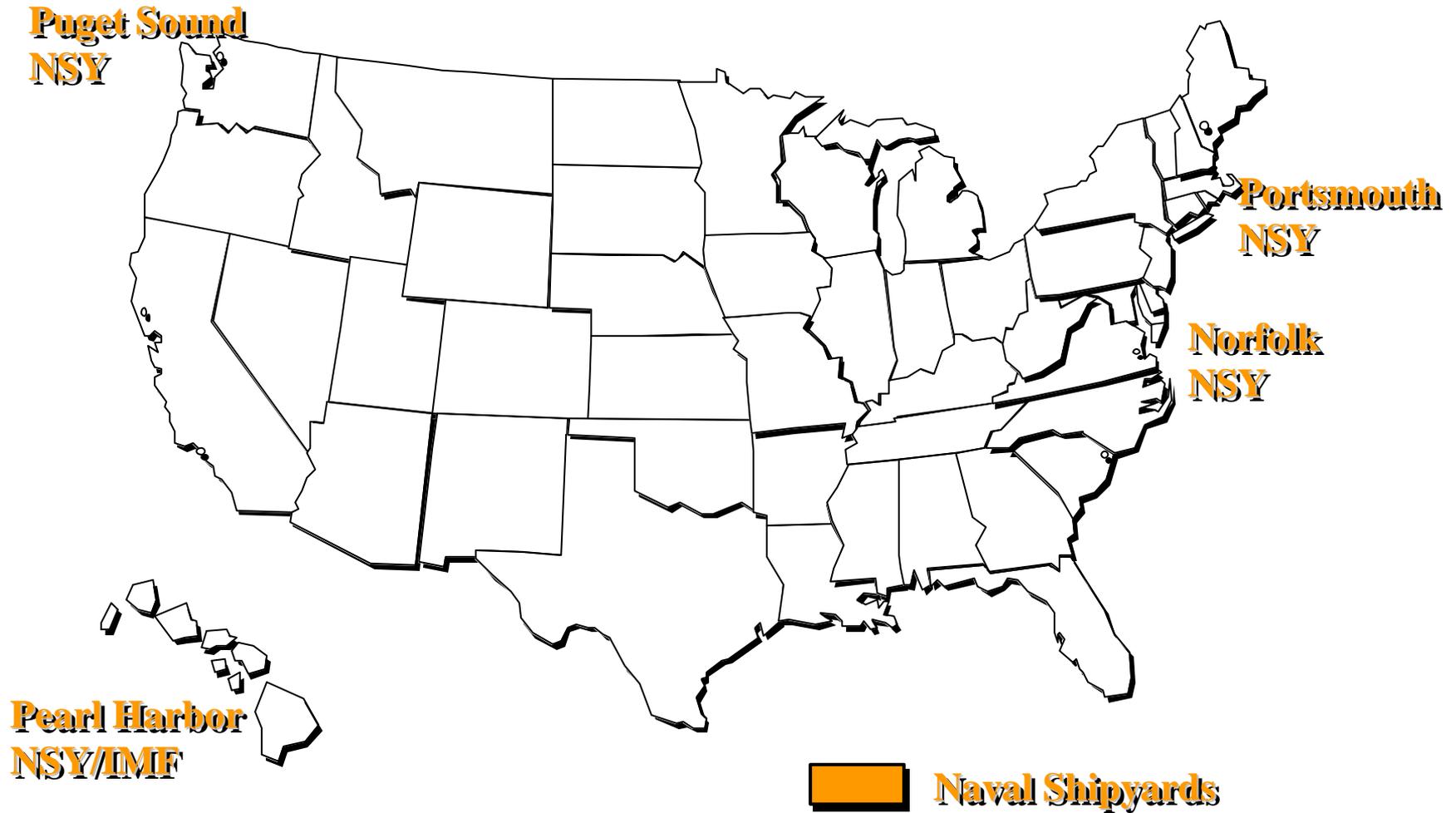
June 2002

Major Product Lines



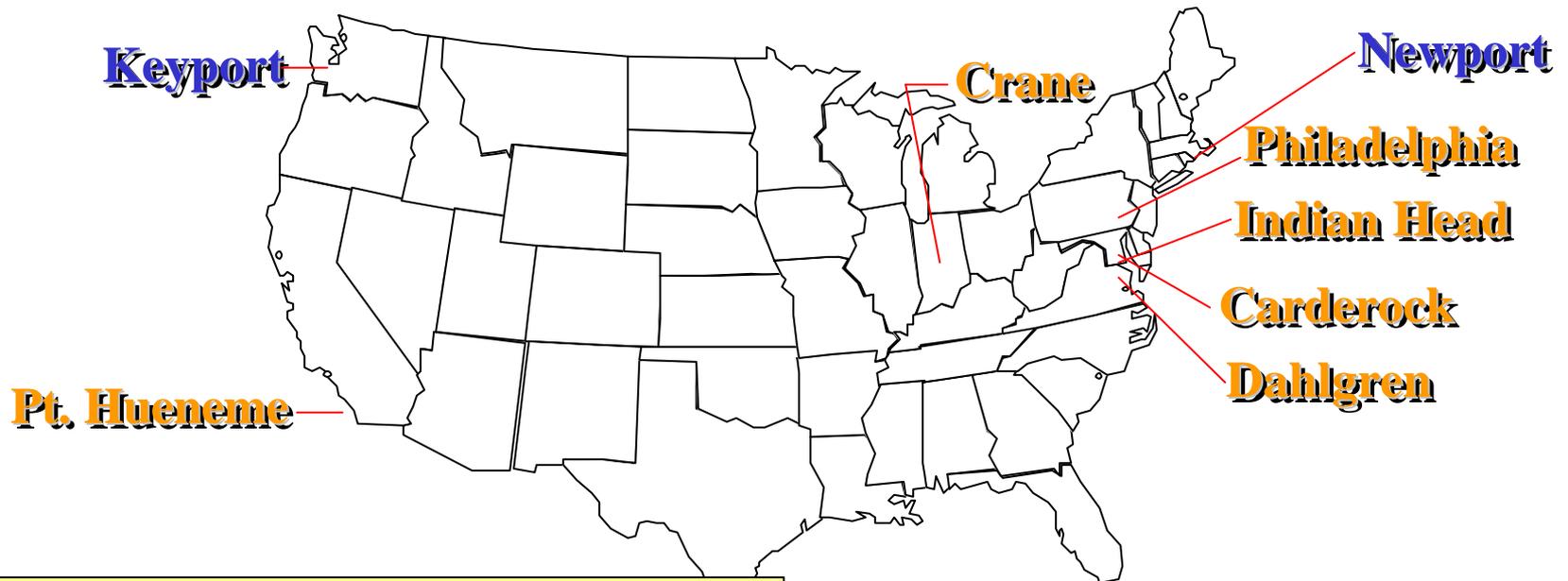


Naval Shipyards





Naval Surface and Undersea Warfare Centers



Surface Warfare Centers operate RDT&E, engineering, and Fleet support centers for

- Ship hull, mechanical and electrical systems
- Surface ship combat systems
- Coastal warfare systems
- Other offensive and defensive systems associated with surface warfare

Undersea Warfare Centers operate RDT&E, engineering, and Fleet support center for

- Submarines
- Autonomous underwater systems
- Offensive and defensive weapons systems associated with undersea warfare







Super Dvora





Russian FAC



XFPB W/ MM 15 Missiles



Halter "Mk V-A"
Mirage





Halter Mk V-A



France "La Fayette" Class
Guided Missile Frigate





U.S “Sea Shadow “
Test Platform