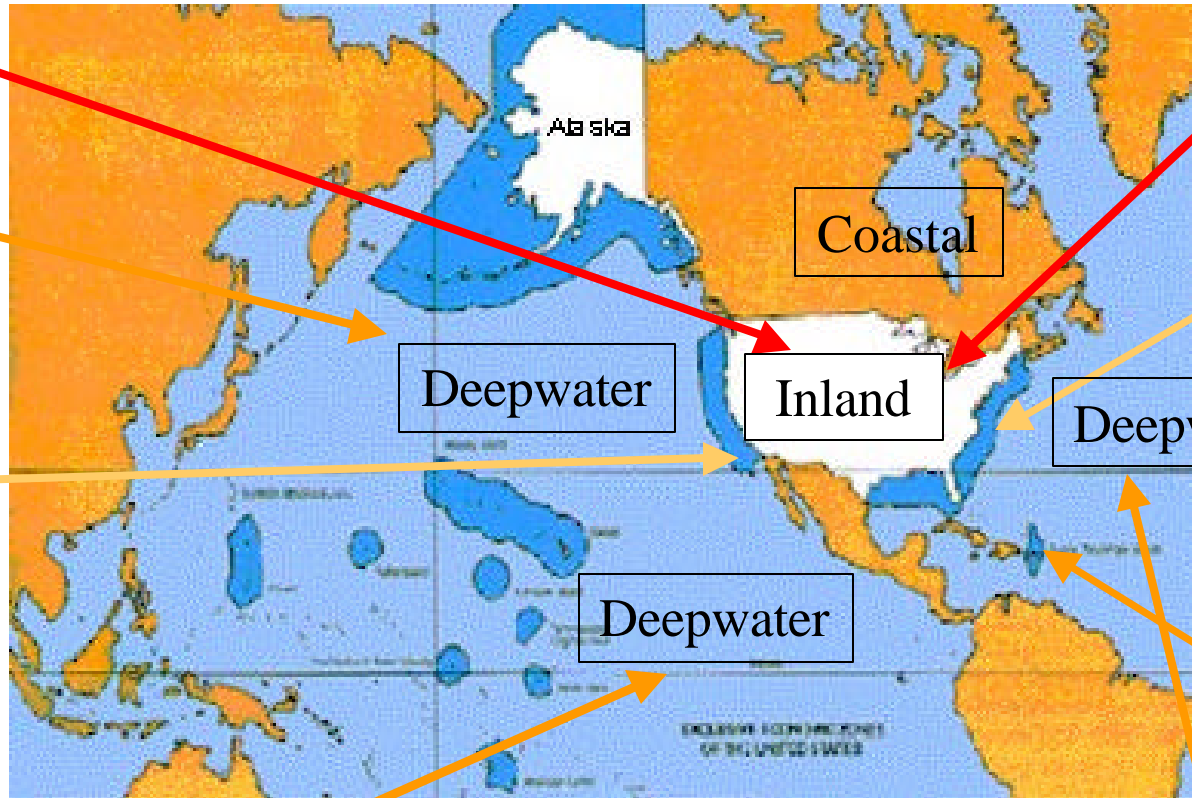




USCG Deepwater Project MMA - 2 May 2001

COAST GUARD MISSION AREAS



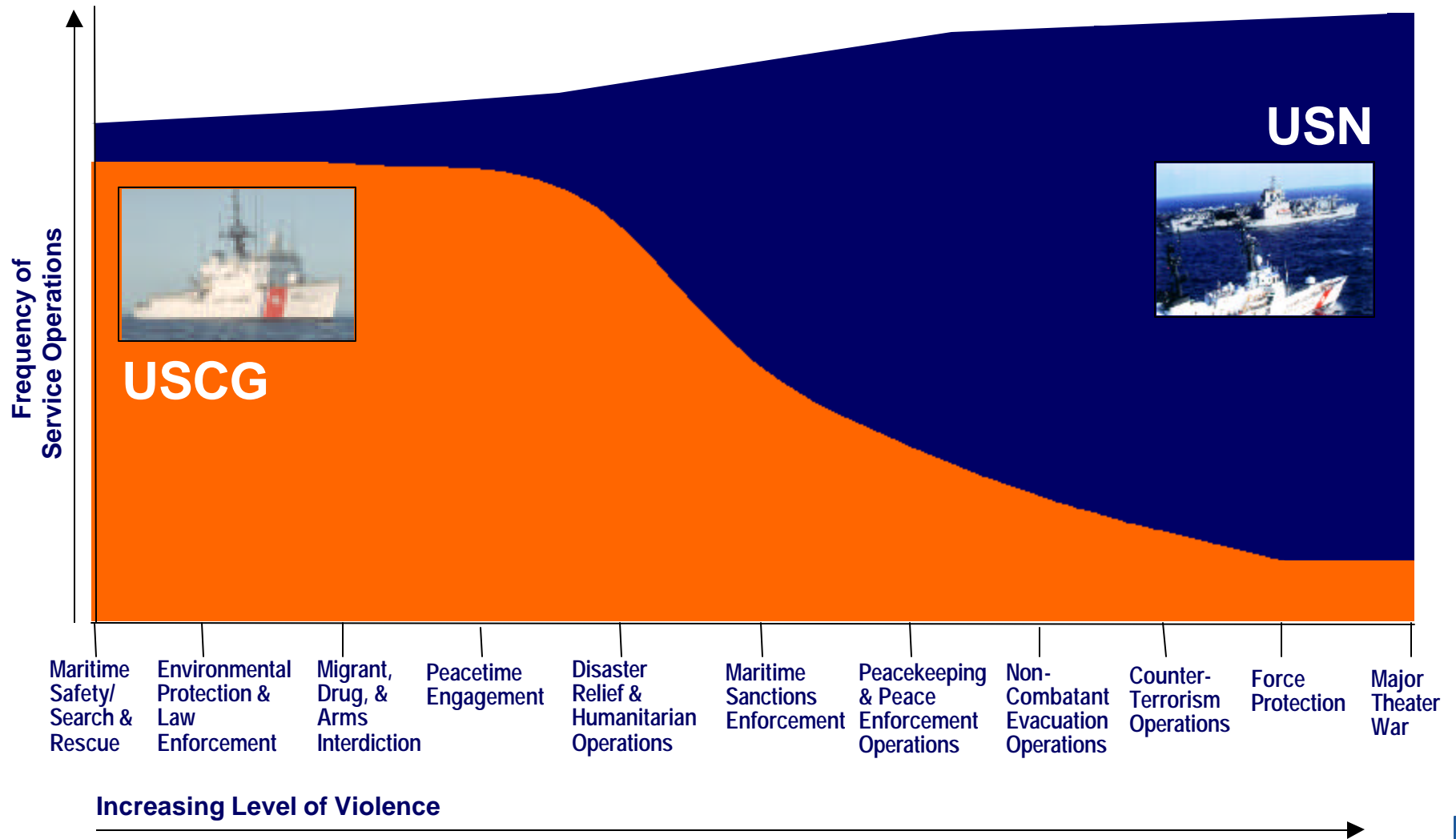
AMERICA'S MARITIME SECURITY CHALLENGES



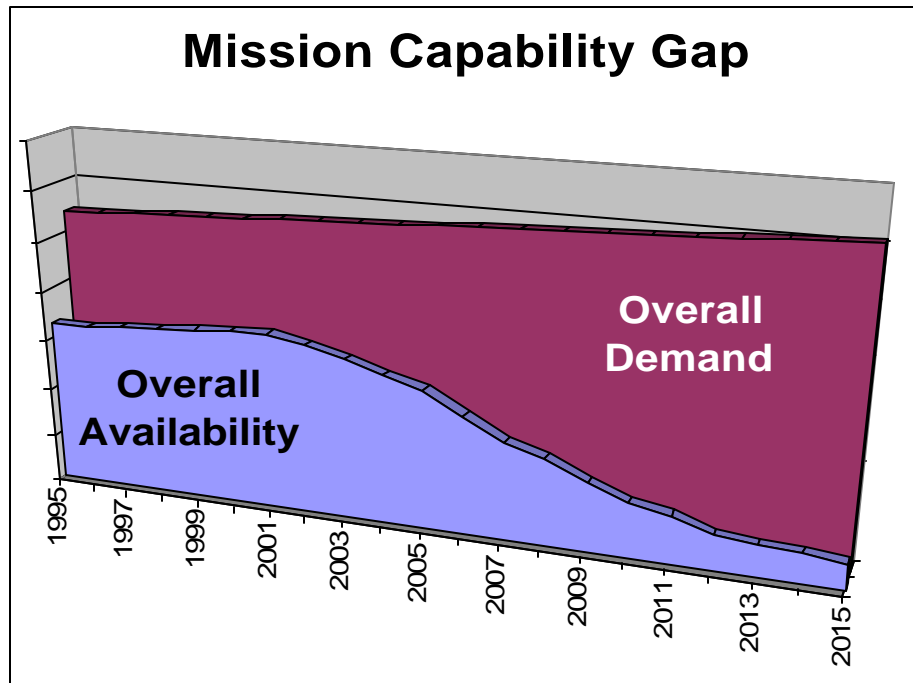
USCG / USN MISSION COMPARISON



Spectrum of Coast Guard - Navy Missions



PROBLEM: WIDENING GAP



International Trends:

- Doubling World Population
- Declining Fish Stocks
- Post Cold War Regional Conflicts
- Tripling of International Commerce



Increasing National Demand - the nation's demand for Coast Guard services already exceeds available resources and demand is projected to increase.



Decreasing USCG Capability - the Coast Guard's Deepwater fleets are antiquated and have significant operational limitations.

DIMINISHING CAPABILITIES AGAINST GROWING THREATS



- **Personnel Force Strength**

- Recruiting

- Retention



- **Personnel Force Rising Costs**

- **Rising Asset Maintenance Costs (Exceeding Budget Growth)**



- **Asset Block Obsolescence**

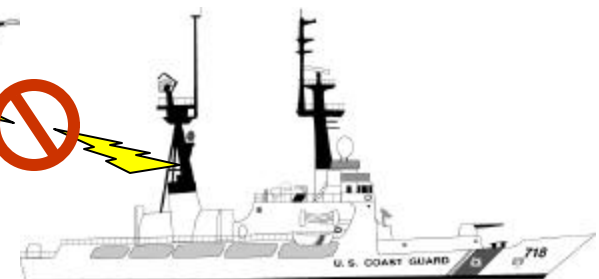
- **Technological Obsolescence**



- **Poor “Intra” Coast Guard Operability**



- **Poor Interoperability with DOD, allies, and other Federal Agencies**



LEGACY DEEPWATER ASSETS



2005



2002



1997

National Defense

Maritime LE



2008

- 93 Cutters
- 206 Aircraft
- C4ISR Network
- \$1.1B USD



2007

Maritime Safety

Resource Protection



2005



2013



2004

TRADITIONAL ACQUISITION STRATEGY

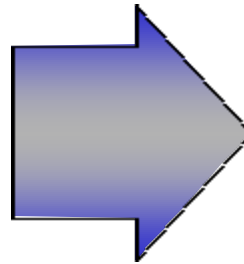


- Platform Focus

327'



Commissioned: 1936-1937
Number: 6
Crew: 147
Speed: 19.5 kts
Displacement: 2,656 fully loaded



270'



Commissioned: 1983-1991
Number: 13
Crew: 100
Speed: 19.5 kts
Displacement: 1780 fully loaded

- Shortcomings

- Cost increases required significant trade-offs
- Interoperability

SOLUTION: AN INTEGRATED DW SYSTEM



We provided Industry:

- **System Performance Specification**
(E.g. Total maritime situational awareness, interoperability w/ DoD, NATO, etc.)
- **Modeling & Simulation Master Plan**
(E.g. Environment, threats, legacy asset conops/conlog, etc.)
- **Funding guidance**
(AC&I + OE)

Industry is providing us:

- **Integrated System**
- **Capabilities of system components**
- **Phased implementation plan**

Selection Criteria:

- **Maximize operational effectiveness**
- **Minimize total ownership costs**

DEEPWATER INDUSTRY TEAMS



Litton/Avondale Industries

Boeing-McDonnell Douglas Corporation

John J. McMullen & Associates, Inc.

DAI, Inc.

Raytheon Systems Company

Science Applications International Corporation

Marinette Marine Corporation

Sikorsky Aircraft Corporation

Soza & Company, Ltd.

Bath Iron Works

AMSEC

Fuentez Systems Concepts, Inc.

Gibbs & Cox, Inc.

Clark Atlanta University

Rockwell Collins

Lockheed Martin Naval Electronics and Surveillance Systems

Lockheed Martin Aeronautical Systems

Lockheed Martin Electronics Platform Integration - Owego, NY

Lockheed Martin Global Telecommunications

Lockheed Martin Management and Data Systems

Sanders, a Lockheed Martin Company

Litton Ingalls Shipbuilding

Litton/PRC, M. Rosenblatt & Son

Bell Helicopter Textron, Inc.

Halter-Bollinger Joint Venture, L.L.C.

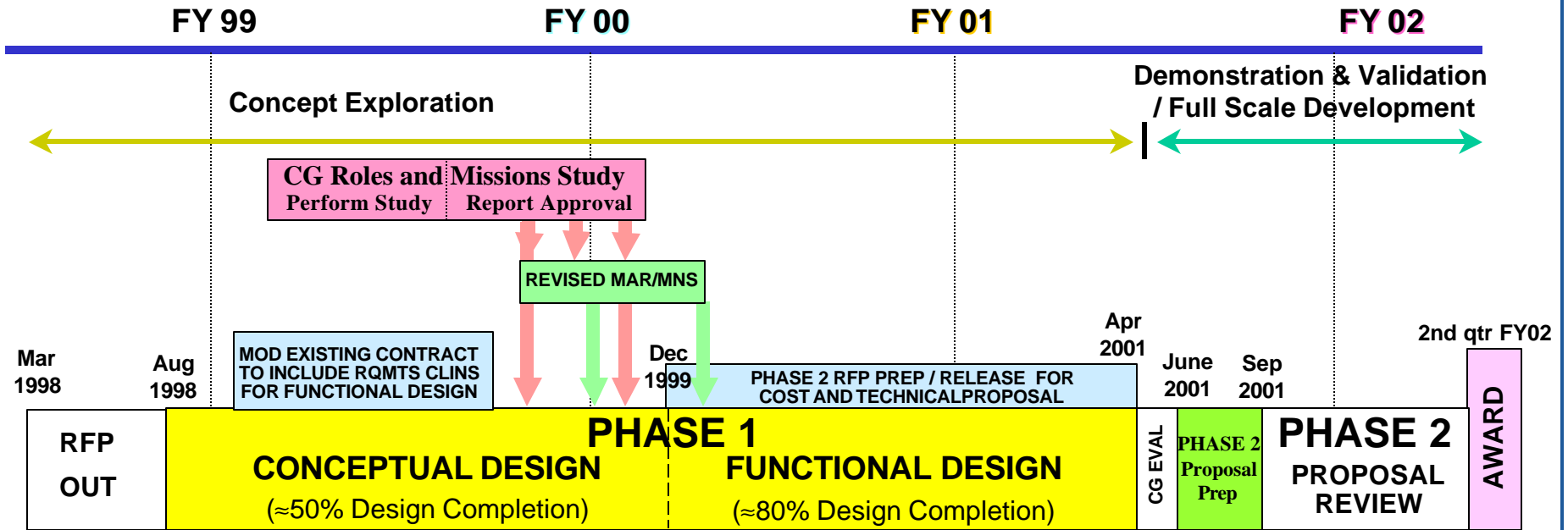
Acquisition Logistics Engineering

L-3 Communications East

PROSOFT

Whitney, Bradley & Brown, Inc.

DEEPWATER PROJECT SCHEDULE



Conceptual Design Deliverables

- Sep 98 - Integrated Master Plan/Schedule
- Dec 98 - Alternatives Report
- Mar 99 - Analysis of Alternatives
- Apr/May 99 - IDS Concept Design
- Jun/Jul 99 - C4ISR Architecture; Logistics Plan; Performance Specs
- OCT 99 - Asset Concept Design; Env Impact; LCC Estimate; Traceability Matrix; Implementation Plan
- Dec 99 - Final Concept Design Presentation; Artist Renditions

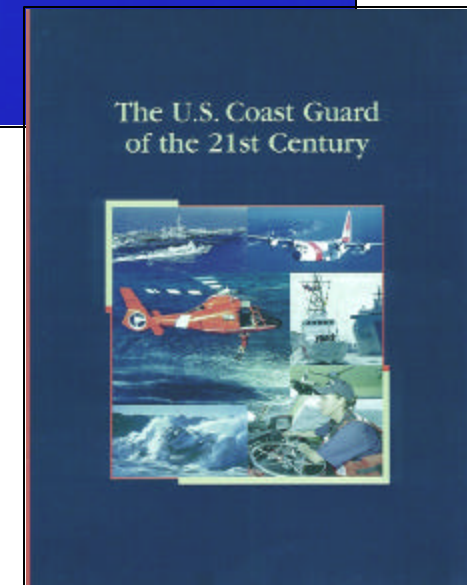
Functional Design Deliverables

- Updated Integrated Master Plan
- Updated Integrated Master Schedule
- Configuration Management Plan
- Concept of Operations Plan
- Air & Surface Asset Designs
- C4ISR Architectures
- Reviews
- Integrated Product Data Environment
- Logistics Plan
- Total Ownership Cost
- Life Cycle Cost Estimate
- Affordability Analysis
- Implementation Plan
- Requirements Verification
- Environmental Impact Characteristics
- Electronic Modeling Data

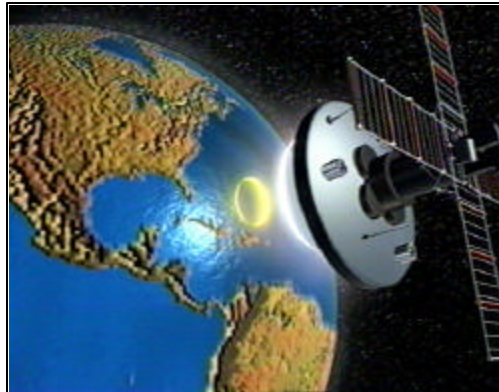
NATIONAL PRIORITY / INTERAGENCY TASK FORCE



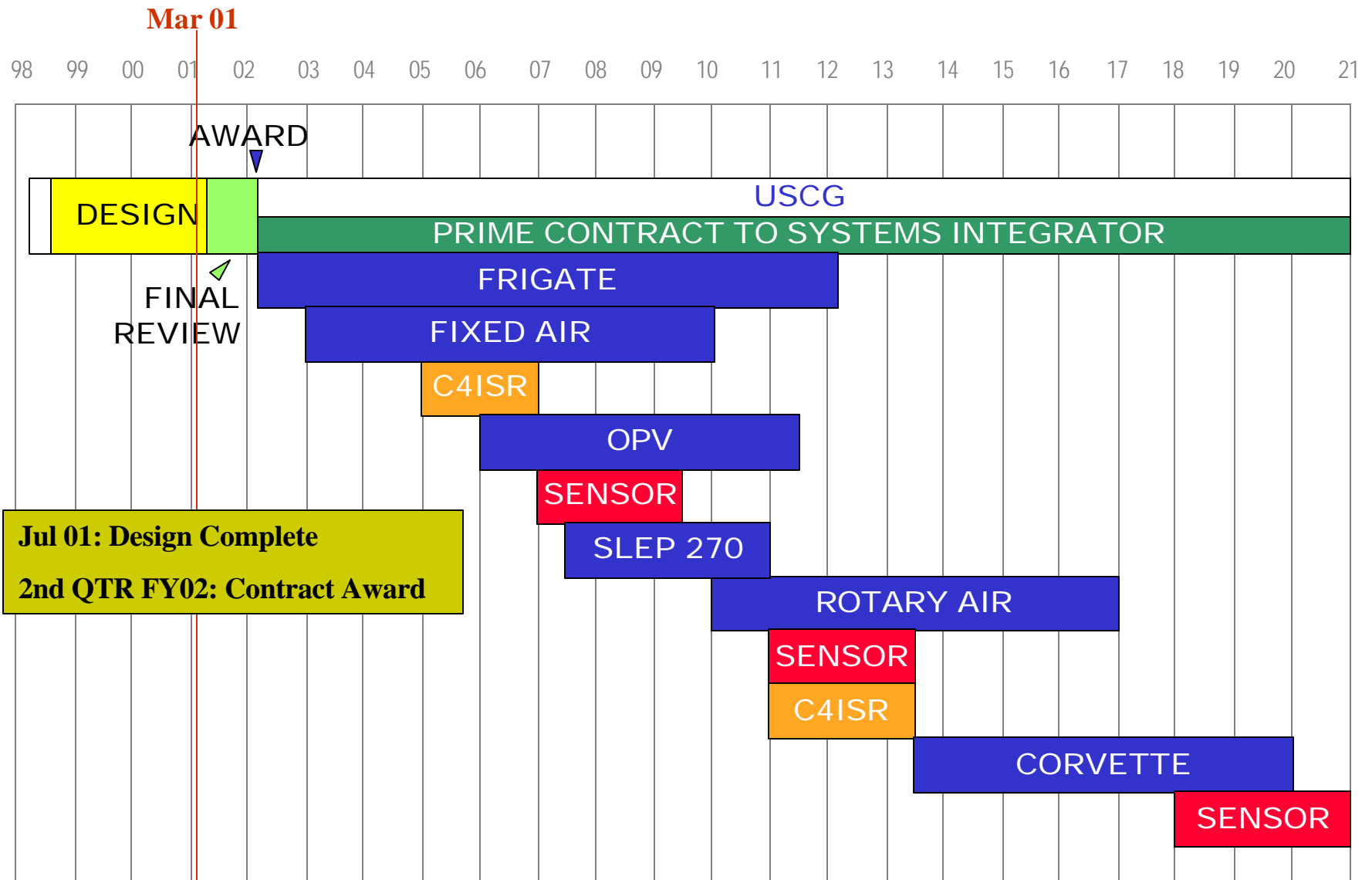
- The Coast Guard's roles and missions support national policies and objectives that *will endure* into the 21st century.
- The recapitalization of the Coast Guard's Deepwater capability is a *near-term national priority*.
- The Deepwater acquisition project is a sound approach to that end and the Interagency Task Force strongly *endorses its process and timeline*.
- The nation today faces numerous threats... a situation *likely to worsen* during the next two decades.



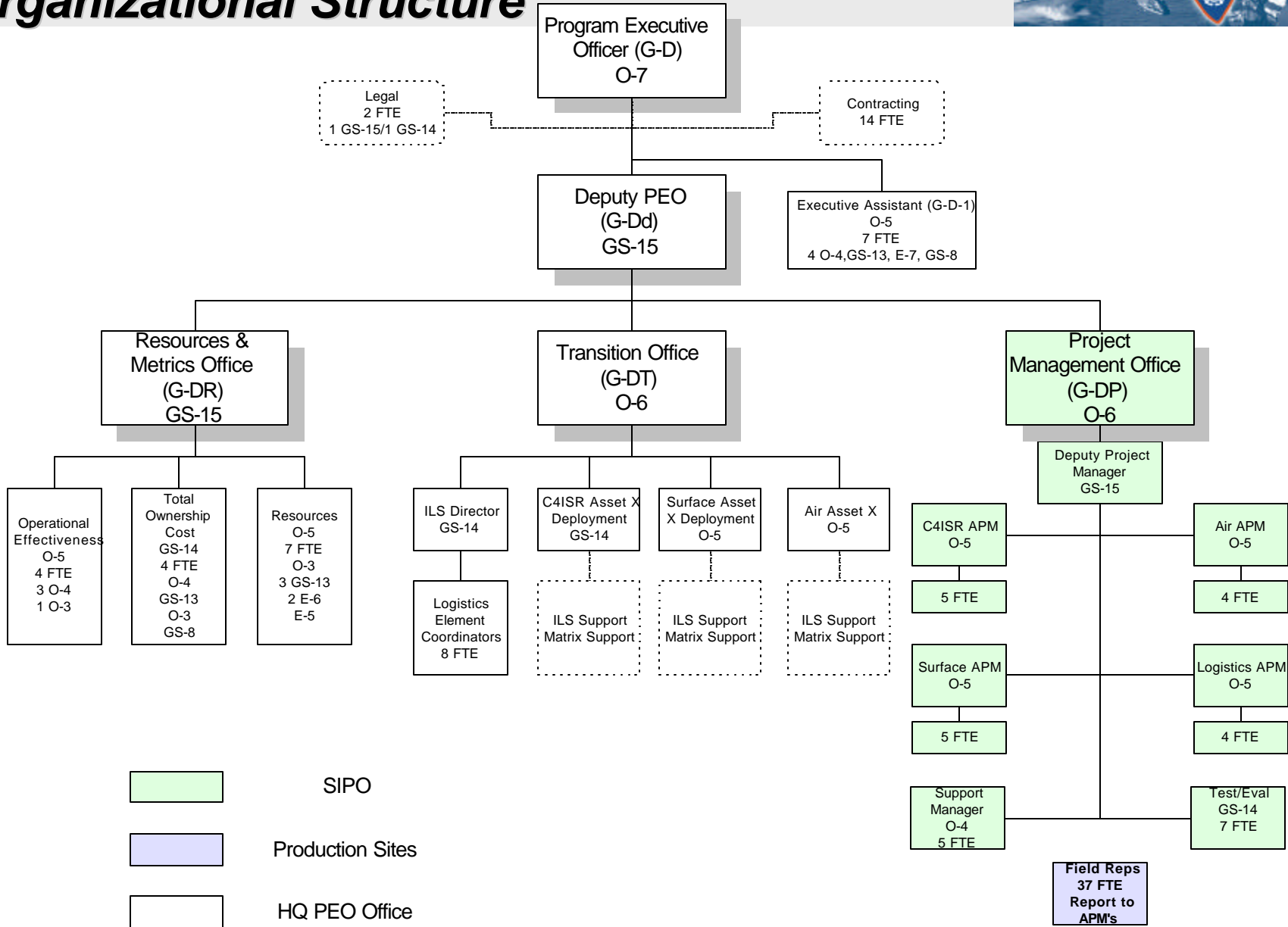
REALM OF THE POSSIBLE



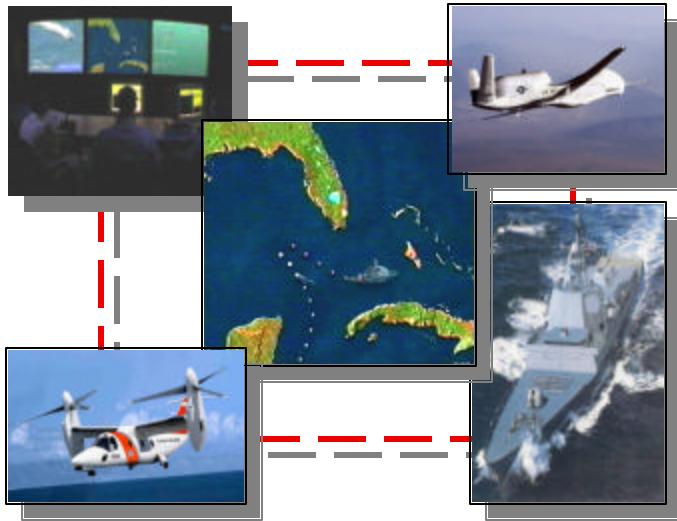
NOTIONAL DEEPWATER TIMELINE



PEO Proposed Organizational Structure



OUTCOMES



- 21st-C network-centric operations
- Affordable interoperability with DoD

- Very marketable family of ships



Litton
Avondale Industries
BOEING
LOCKHEED MARTIN
SAIC Science Applications
International Corporation
An Employee-Owned Company

- Great opportunities for international partnerships

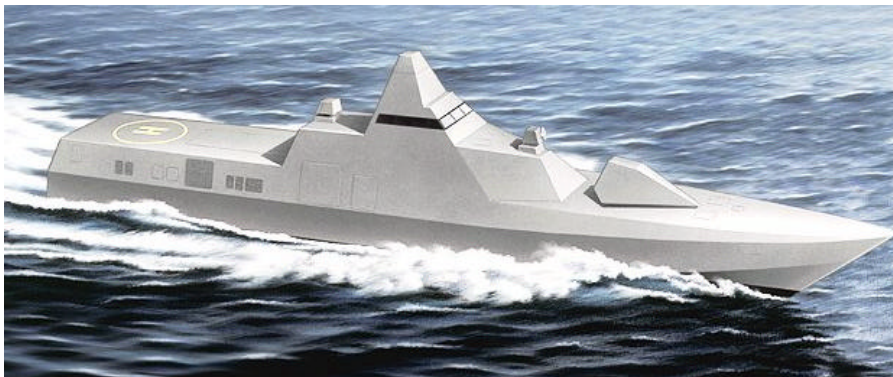
3 New Classes of Vessels



National Security Cutter (Frigate)



OPV



Medium Cutter (Corvette)

Defense Industry Projections of Future Demand in World Frigate/Corvette/OPV Market

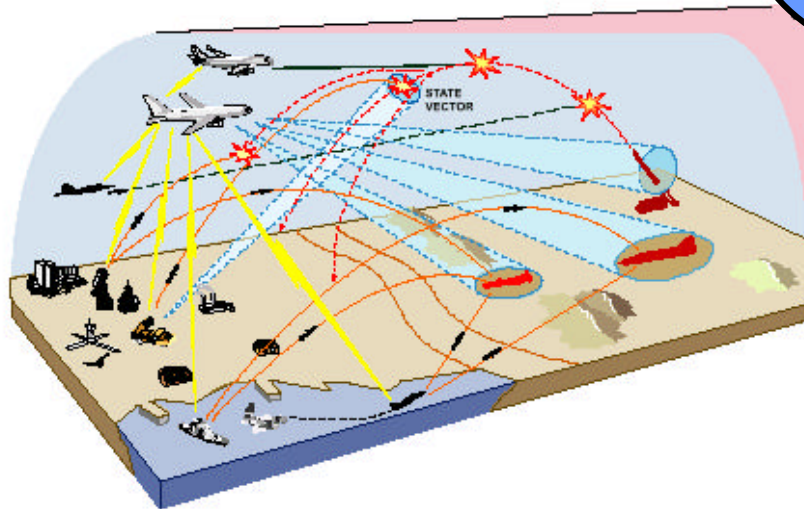
Period: 2000-2017
Programs: 66
Vessels: 297
Value: \$62.2 billion

Key Benefit: Interoperability



“The IDS shall maintain simultaneous real time voice, video and data communications with DOD, other federal agencies...North Atlantic Treaty Organization (NATO), similar coalitions and potential partners...in accordance with applicable standards.”

--per *Deepwater System Performance Specification*



**Integrated
Deepwater
System**

DII-COE Compliance

**New DoD C4ISR
Architecture
Framework v2.0**

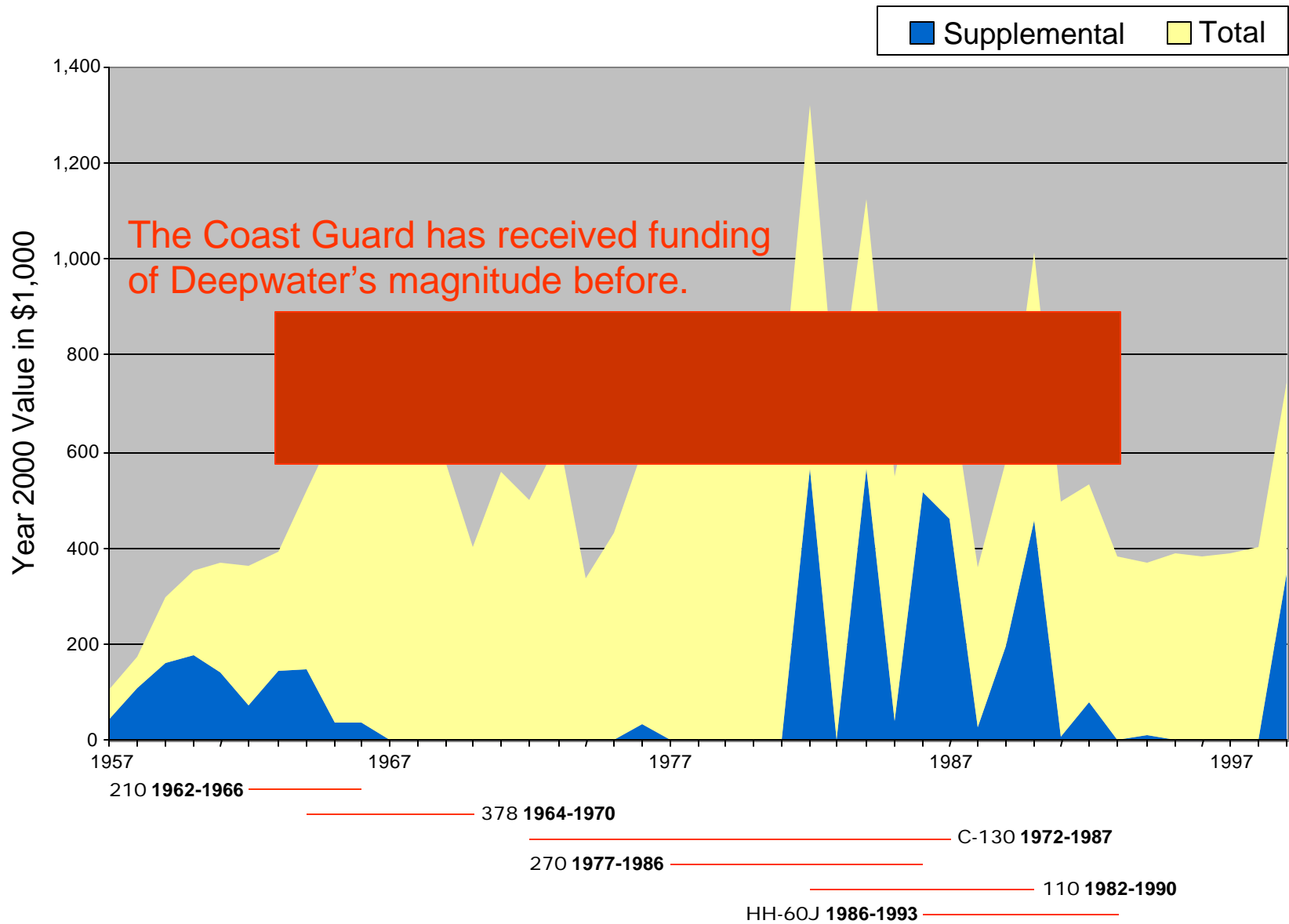
DEEPWATER FUNDING



	FY98	FY99	FY00	FY01	FY02	FY03	FY04 ...
Request	\$5M	\$28M	\$44.2M	\$42.3M	\$350M	\$535M	\$535M
Approp	\$5M	\$24.8M	\$44.2M	\$42.3M	TBD	TBD	TBD
Industry	\$3M	\$18M	\$25.2M	\$15.3M	\$300M*	\$500M*	\$500M*

* Planned industry funding

AC&I FUNDING HISTORY





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