

# *The Integrated Deepwater System Program*

*7 April 2004*



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Program Executive Officer



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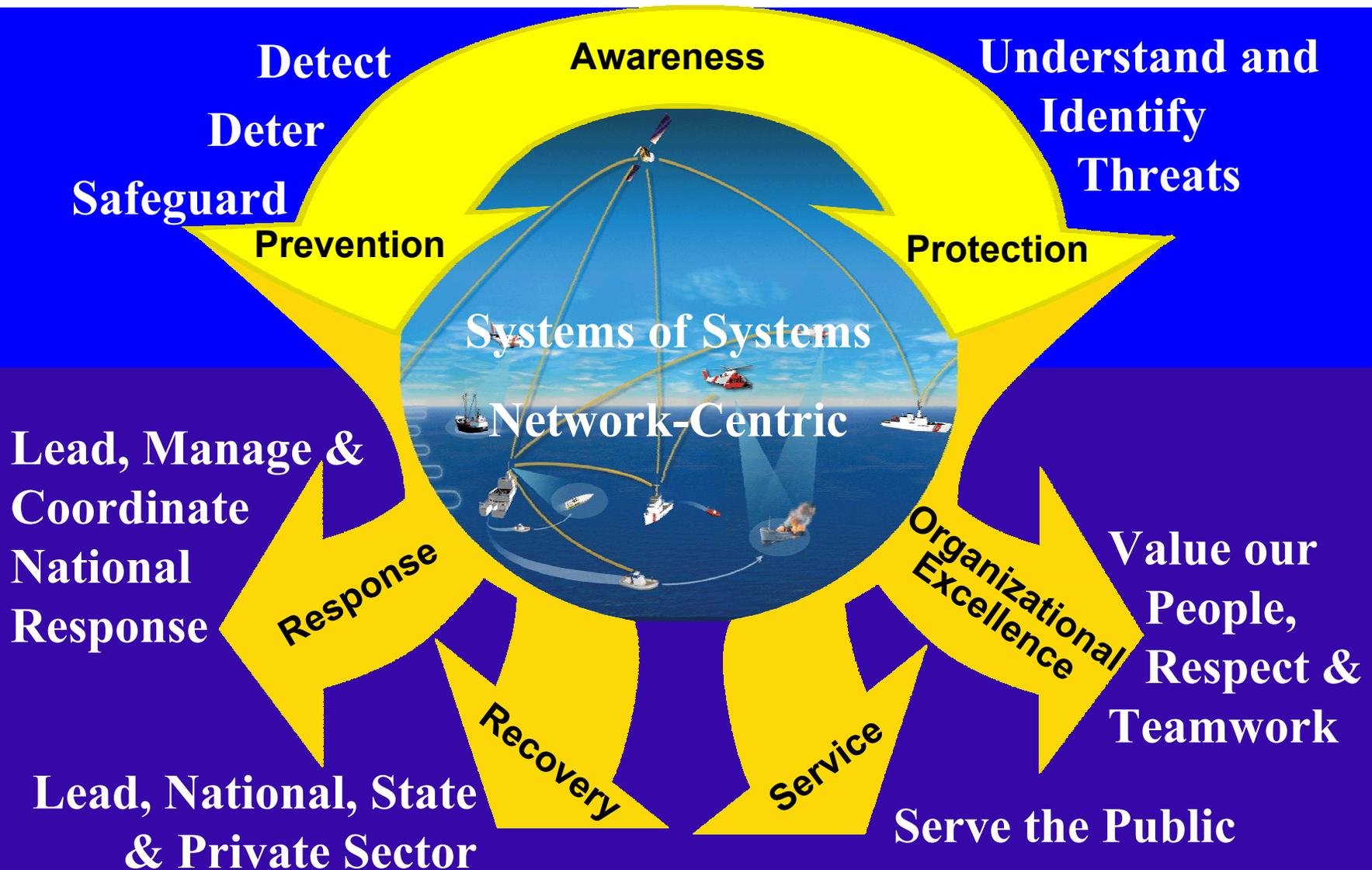


# **Agenda: Updates and Challenges**

- **Overview**
- **Budget History**
- **Asset Status**
- **Challenges**
- **Conclusion**

**“The need is real and the time is now”**

# DHS Strategic Plan



# FY03 – FY05 Budget

IDS Budget Categories	FY03 Appropriation	FY04 Appropriation	FY05 Appropriation
	\$M	\$M	\$M
Aircraft	163.2	142.7	147.3
Surface Ship	198.9	302.6	354.3
C4ISR	23.7	101.4	53.6
Logistics	17.8	45.4	39.9
Systems Engineering and Integration	43.4	42.1	45.0
Government Program Management	27.8	34.0	38.0
<b>Total Capital Acquisition</b>	<b>(A) 474.9</b>	<b>668.2</b>	<b>678.0</b>

(A) \$478.0M was appropriated, but a 00165 recession resulted in \$474.9M being available for obligation



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# The Status of IDS Assets

Concept & Technology Development Phase

Capability Development and Demonstration Phase

Production and Deployment Phase



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# Surface Implementation: Summary



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123' Patrol Boat



Offshore Patrol  
Cutter

- Funding in FY04 and FY05 request provide design and development of NSC lead ship and building second NSC
- Construction expected to begin summer 2004; first NSC scheduled to be delivered late 2006
- Naval Operational Capability (NOC) incorporated into design along with post 9/11 design changes
- Delivery ceremony for MATAGORDA held 5 Mar 04
- METOMPKIN, PADRE, ATTU & NUNIVAK at Bollinger
- Goal is to accelerate FRC
- Funding in FY04 to commence OPC design
- Requirements change decision memo pending
- Potential for international partnering



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# Air Implementation: Summary



**Maritime Patrol Aircraft (MPA)**

- MPA completed successful Preliminary Design Review (PDR)
- Delivery of first two stock CASA aircraft scheduled for early 2006 with mission modification to the aircraft completed by late 2006; FY05 funding request supports missionization of 3<sup>rd</sup> MPA
- Ongoing effort to determine optimal mix of HC-130 and the CASA to provide the ability to meet the overall system requirements



**Vertical recovery and Landing Unmanned Air Vehicle (VUAV)**

**HITRON**

- Vertical take-off-and-landing unmanned aerial vehicle (VUAV), and other enhancements to legacy assets.
- VUAV Design and development costs funded in FY04; FY05 request includes purchase of two VUAVs
- Use of Force Helicopters (armed) option exercised Jan 04 for one year period



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# Legacy HH-65 Re-engining

- Re-engining project will restore HH-65 to safe and reliable operations
- Significant operational restrictions are in place to mitigate risks
- 15 Jan 04 Integrated Coast Guard Systems (ICGS) directed to identify and implement the re-engining project solution within 150 days
- Request for Information (RFI) issued on 29 Jan 04; industry responses received
- ICGS selected Turbomecca as the sub-contractor on 12 March 2004
- Project cost is approximately \$250M and will be completed in the shortest time possible (24 months if funding is available) in order to minimize operational impacts... timeline constrained by availability of engines
- FY04 Appropriation allocated \$67.7M for Other Aircraft Contracts/Legacy Sustainment. \$10M had already been provided for the HH-60 avionics upgrade before the HH-65 decision was made
- Long-term plan is still to convert the HH-65 to the Multi-mission Cutter Helicopter (MCH)



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# C4ISR Summary

- **MATAGORDA delivered**
- **9 of 13 Legacy 270s have been upgraded**
- **Conducted SIPRNET out of Hemisphere Test aboard CGC TAMPA**
- **378 Step 1 designed finalized and CG/ECP/SHIPALT approved for Ship #1**
- **Completed CAMSLANT upgrade design**
- **Developed & executing integrated plan to mitigate misalignment of C4ISR increment & NSC design schedules**



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# Logistic Summary

- LIMS I-0 – Go Live
- Awarded 4 operational support DTOs
  - Supporting – CAMSLANT, 270 Upgrades, MATAGORDA, SRP
- Begin Logistics Systems Requirements Review
- Completed facilities analysis of D11 aviation stations
- Outreach – Change Management
  - Conducted 3 Field Presentations
- CAMS/Legacy ILS support transitioned from the Interim Plan to Final ILS Plan
- System Lead Human System Integration (SIPO) Addition
- Successful TLC and provisioning Guidance Conference for NSC
- PDR with CASA. Four Logistics Action Items
- TAMPA CASREP support
- Addition of LCEs



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# Challenges and Opportunities

- **Legacy Asset Sustainment**
- **GAO/IG Audits**
- **National Fleet Interoperability**
- **Maritime Domain Awareness**

# Legacy Asset Sustainment

- In the first two years of the contract our legacy assets are in far worse shape than expected
- The decision of the Commandant to quickly re-engine the HH-65 helicopter based on safety and performance issues.
- The 110-foot patrol boats, to be upgraded and extended to 123 feet, are experiencing systemic problems with hulls
- The Coast Guard is experiencing legacy asset failures requiring increased Deepwater legacy asset sustainment funding which will reduce funding available for recapitalization
- Total Legacy Asset Sustainment funded/requested to date is \$140M more than planned



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# Government Accounting Office (GAO) Deepwater Audits

## Five Audits Ongoing:

1. Program Management Audit Draft Report delivered to Coast Guard 2 Feb 04
2. GAO Appropriations Audit focusing on fund allocation and requirements changes in progress
3. GAO HH-65 Re-engining Audit shifted focus to Deepwater
4. DHS IG Airborne Use of Force Helicopter (HITRON) Audit reviewing contract in progress
5. DHS IG HH-65 re-engining requirements and timeframe



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# Interoperability: National Fleet

- Common subsystems installed in the LCS and Deepwater vessels.
  - Vertical launch unmanned air vehicle (UAV)
  - Open systems architecture
  - Seamless interoperability.
- Deepwater leverage Navy Research & Development
  - Capture evolving technologies
- Broad Area Maritime Surveillance (BAMS)
- Economies of Scale
  - Combat systems
  - Technology insertion



Offshore Patrol Cutter



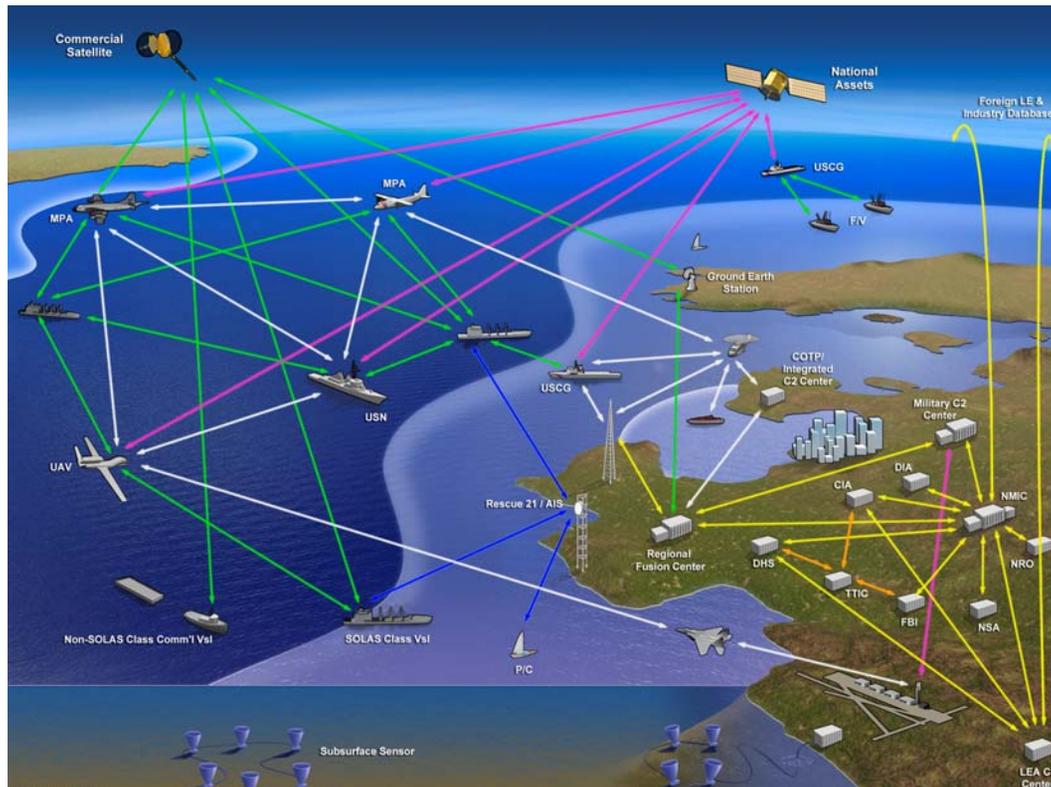
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# Maritime Domain Awareness

Enhancing Maritime Domain Awareness through fully interoperable network-centric architecture



*Integrates the power of System of Systems with net-centric technology*



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