

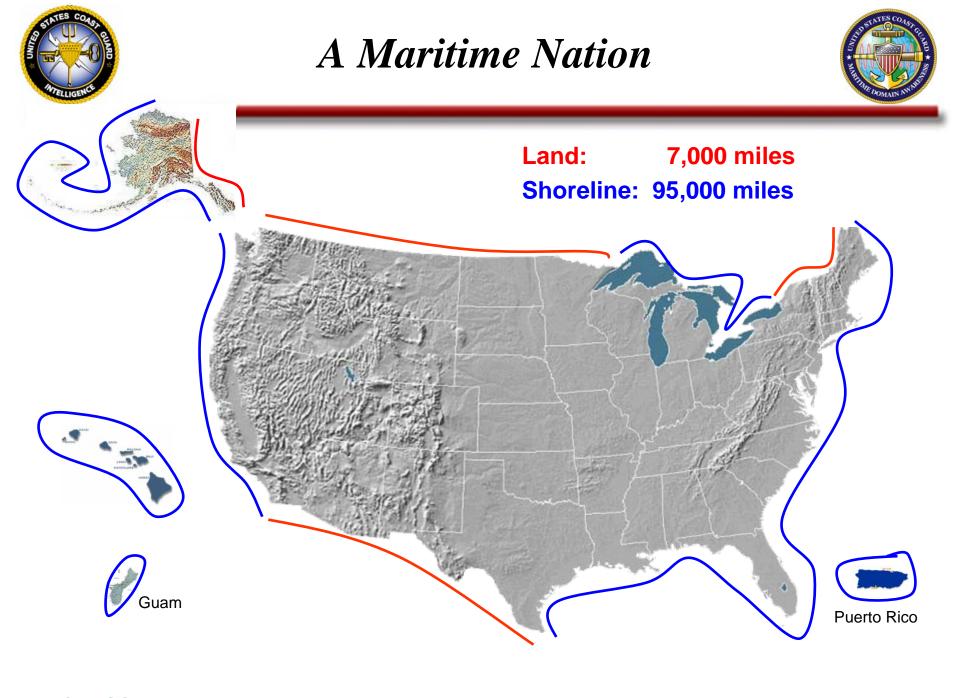
MDA Day 2007, New Orleans



Maritime Domain Awareness

National ConOps

D. A. Goward
Director, Maritime Domain Awareness
Program Integration, United States Coast Guard





A Maritime Nation







A Maritime Nation



- 95% of U.S. foreign trade
- 8,000 foreign vsls, 50,000 port calls/yr
- \$800 Billion in freight per year
- 361 commercial ports
- 186 Million passengers per year







- 17 Million recreational vsls
- 70% of population is coastal
- Key Infrastructure & Services





A Maritime Nation







Why MDA is Essential



Value of transparency

Deter, Detect, Prevent, Respond

All Threats/ All Hazards/ All Missions

- Asymmetric Threats
- Safety, Security, Stewardship
- Many Partners

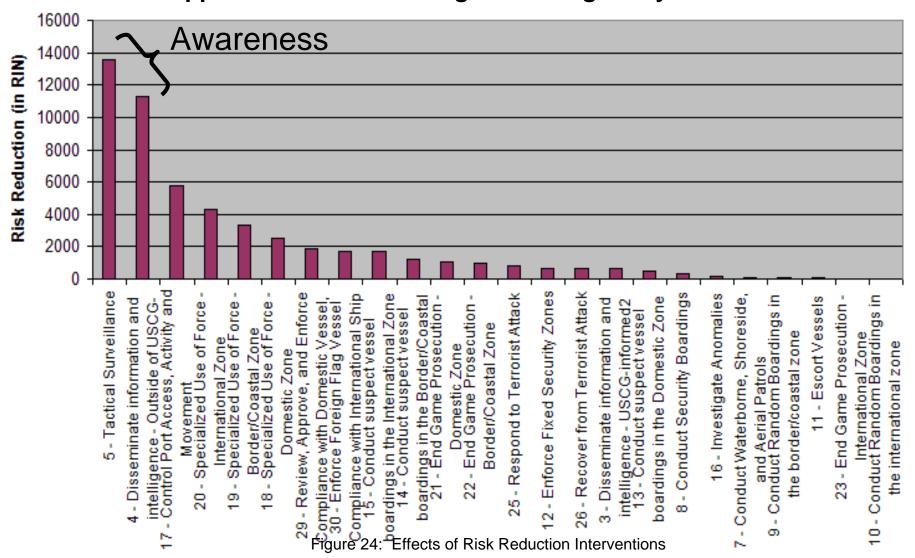
Coalition Warfare/ Unity of Effort



Essentiality of Awareness



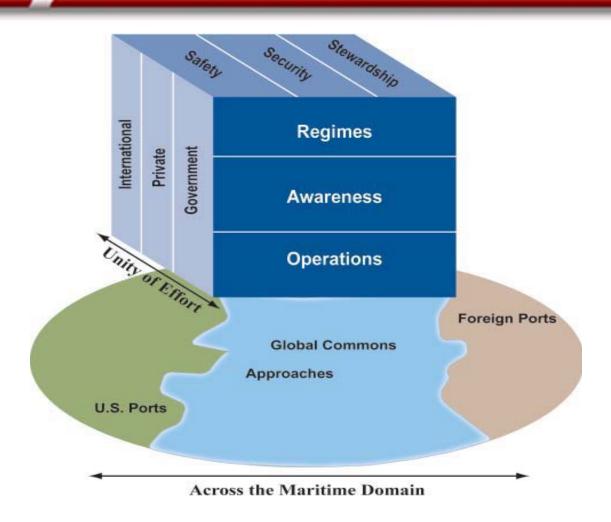
Appendix D – CMT Strategic Planning Analysis Results





Maritime Governance Strategic Triad







MDA Pre-9/11



- 1998 Coast Guard 2020 -- Strategic Plan
- 2000 Special Interest Vessel Program
- 2001 NSC involvement and Interagency MDA TF
- 2001 Maritime Security Strategy and MDA White Papers
- 2001 (Aug) ADM Loy article on MDA



MDA Post-9/11



- 2002 USCG MDA Project Officer
- 2003 Competing USCG Projects
- 2003 USCG MDA PIO & Steering Committee
- 2004 National MDA Summit & Senior Steering Group
- 2005 NSMS & National Plan to Achieve MDA
- 2006 GMII Director, 2007 GMSA Director
- 2007 DoD Executive Agent for MDA (SecNav)



Important Terms & Concepts



- Maritime Domain Awareness
- Global Maritime Intelligence
- Global Maritime Situational Awareness
- Common Operational Picture
- User Defined Operational Picture
- Services Oriented Architecture
- Federal Governance Structure
- Enterprise Hubs



Maritime Domain Awareness (MDA)

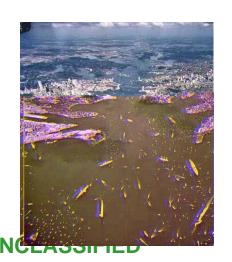








"...the effective understanding of anything associated with the global Maritime Domain that could impact the security, safety, economy, or environment..."









Maritime Domain Awareness (MDA)



MDA = GMI + GMSA

GMI: Global Maritime Intelligence

- Predictive threat warning and cueing
- Response to decision maker requests



Cued Intel, IC Products...

GMSA: Global Maritime Situational Awareness

- Unclassified
- Identify/understand trends
- Anomaly detection
- "Maritime Normal"

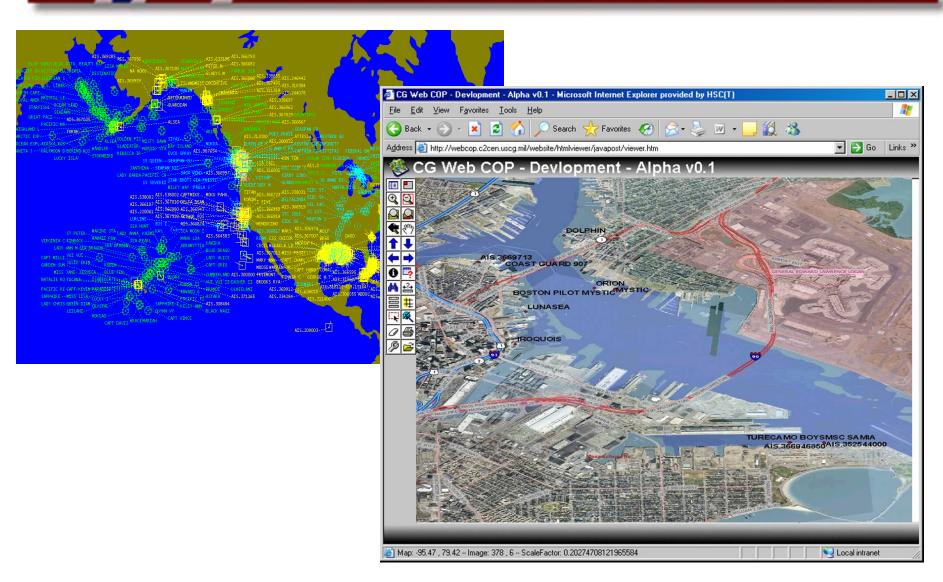


Persistent monitoring, Anomaly Detection...



COP & UDOP







COP vs UDOP



Common Operating Picture

- One picture/view
- Central analysis
- High bandwith
- Point to point sharing
- Difficult to modify

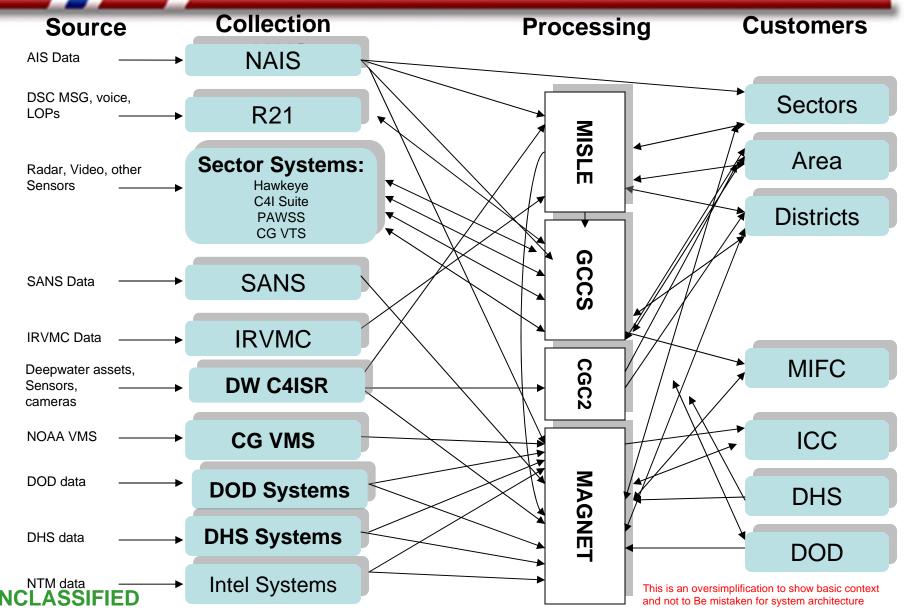
User-Defined Operating Picture

- Standard data, infinite pictures/views
- Access to raw data/Everyone an analyst
- Only needed info transmitted
- Community data sharing
- Easy to add users, applications



Current Point-to-Point Data Sharing





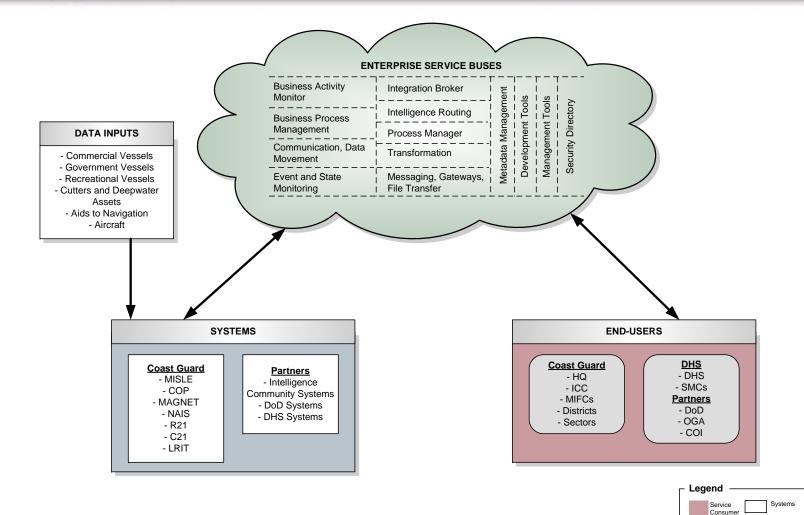


Services Oriented Architecture



User Group

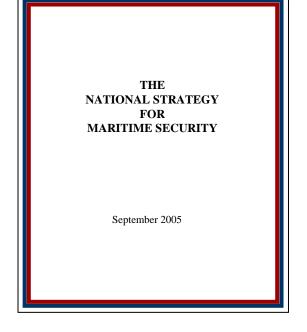
Service





Federal MDA Governance



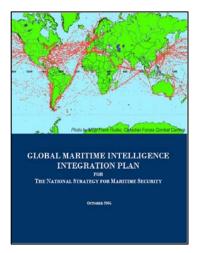


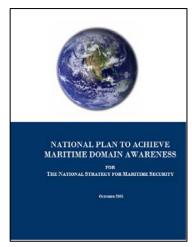


"Maritime Domain Awareness...

a key national security requirement...

requires integrating all-source intelligence, law enforcement information, and open-source data from the public and private sectors...

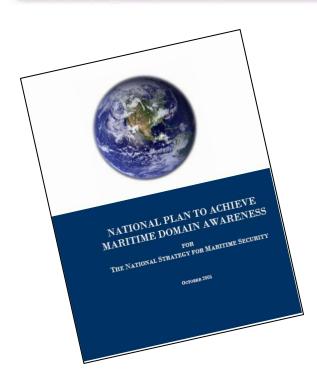






National Plan to Achieve MDA





Goals

- Enhance transparency
- Enable accurate, dynamic and confident decisions and responses
- Freedom of navigation and flow of commerce

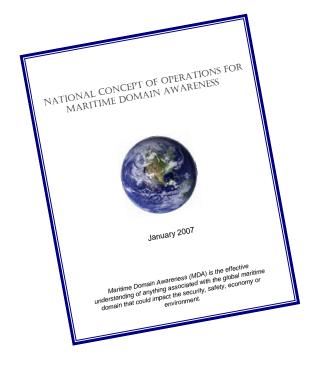
Objectives

- Persistently monitor the global maritime domain
- Access and maintain data on vessels, cargo, facilities, people and infrastructure
- Collect, fuse, analyze, and disseminate information
- Access, develop and maintain MDArelated mission performance data



Concept of Operations for MDA





At a minimum the CONOPS will detail:

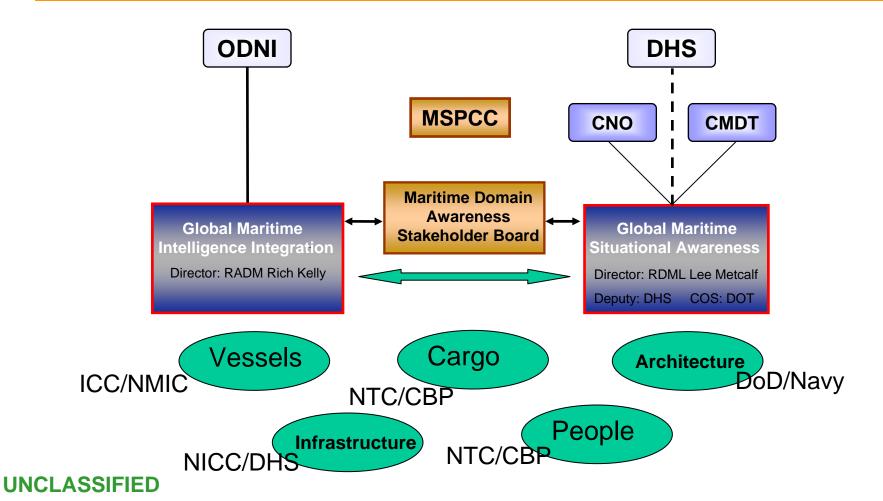
- Interagency Coordination
- Shared Situational Awareness
- Support MOTR
- Integration with GMII



National MDA Structure



A federal, interdepartmental and interagency leadership structure





Enterprise Hubs





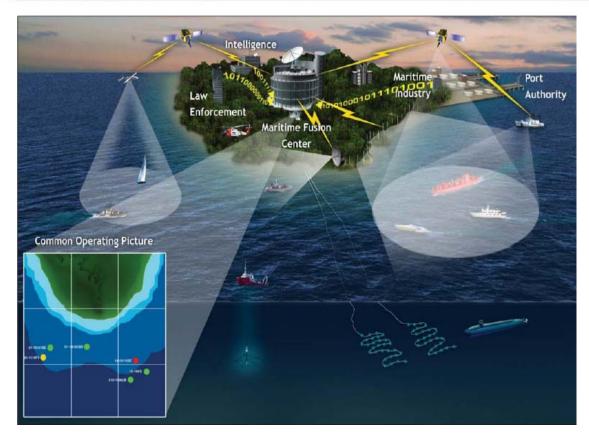
Inventory & Catalog Facilitate Sharing

Coordinate Information Flow Identify Gaps



The Goal – Level 3





National Maritime Picture

Understand:

- 1. What happened
- 2. What is happening
- 3. What will happen next

