The Overall Classification of this Briefing is:
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National Maritime Domain Awareness Efforts

NDIA

Strike, Land Attack & Air Defense Symposium

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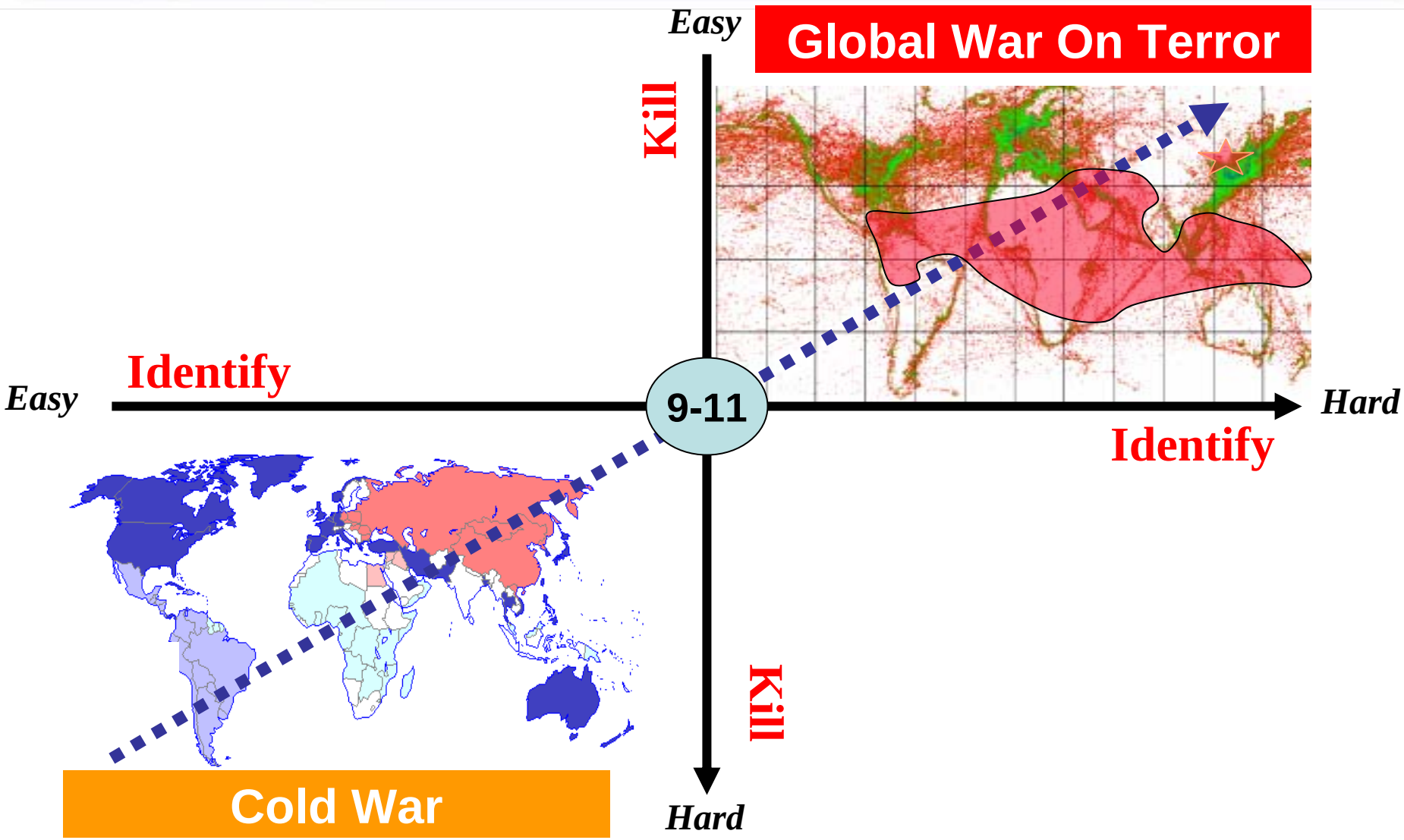
April 25, 2006

The New Competitive Landscape



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Global Challenges to Maritime Security

- Terrorism
- Organized crime
- Piracy
- Drug smuggling
- Human smuggling and slavery
- Illegal weapons movement/proliferation
- Exclusive Economic Zone (resource) exploitation
- Illegal fishing
- Trade disruption
- Illegal migration
- Search and Rescue
- Environmental attack

Nations find their well-being challenged by these common threats to Maritime Security

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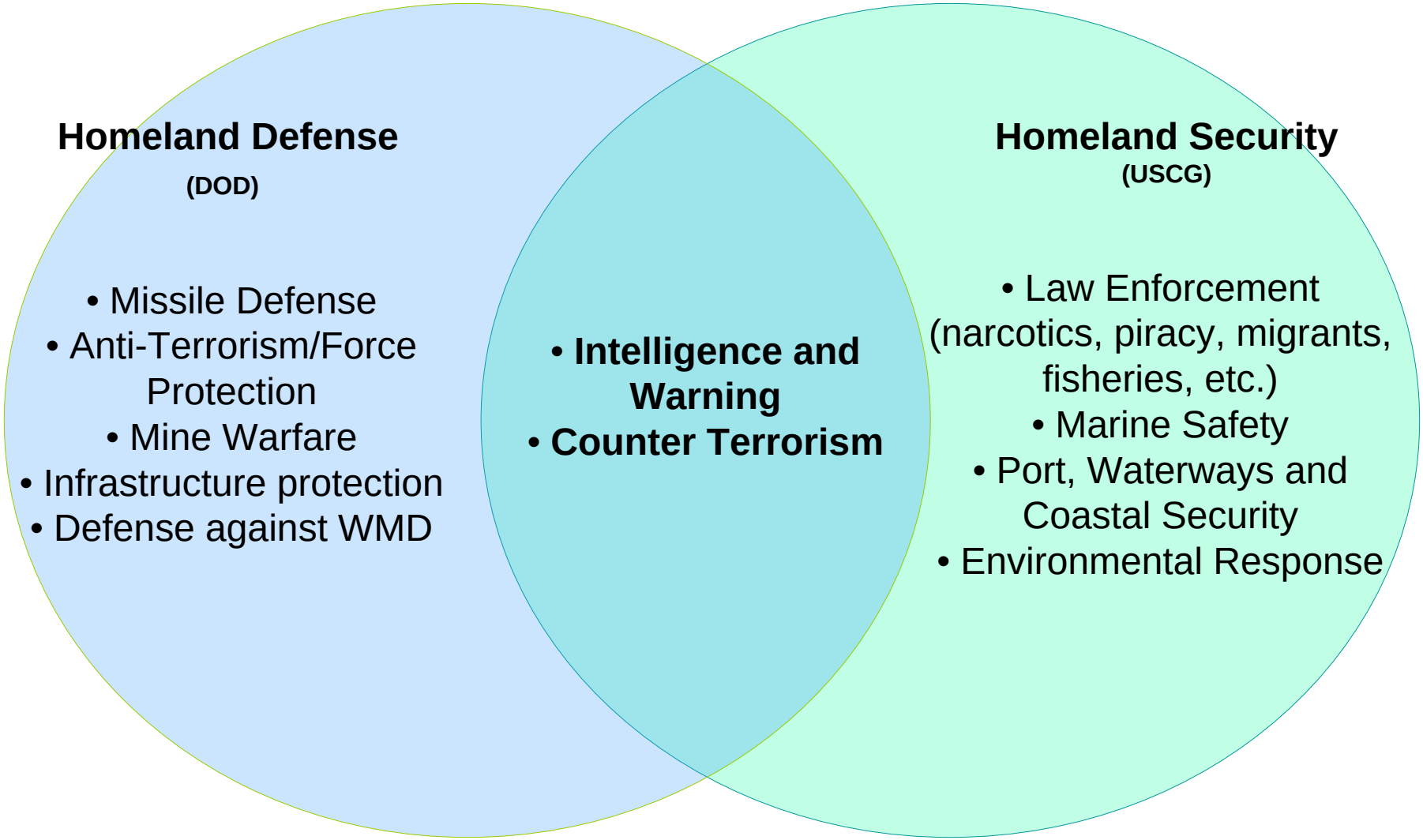
M-HLD / M-HLS Missions



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National Strategy for Maritime Security

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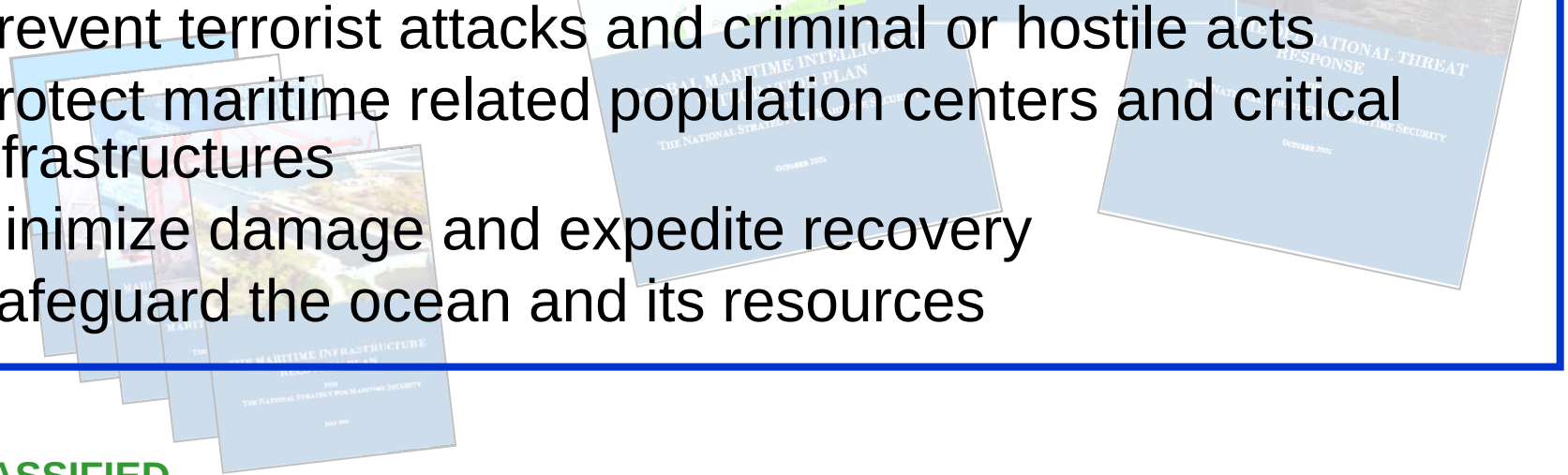
National Strategy for Maritime Security

Strategic Principals

- Preserving the freedom of the seas
- Facilitate and defend commerce
- Facilitate the movement of desirable goods and people across our borders, while screening out dangerous people and materials

Objectives

- Prevent terrorist attacks and criminal or hostile acts
- Protect maritime related population centers and critical infrastructures
- Minimize damage and expedite recovery
- Safeguard the ocean and its resources



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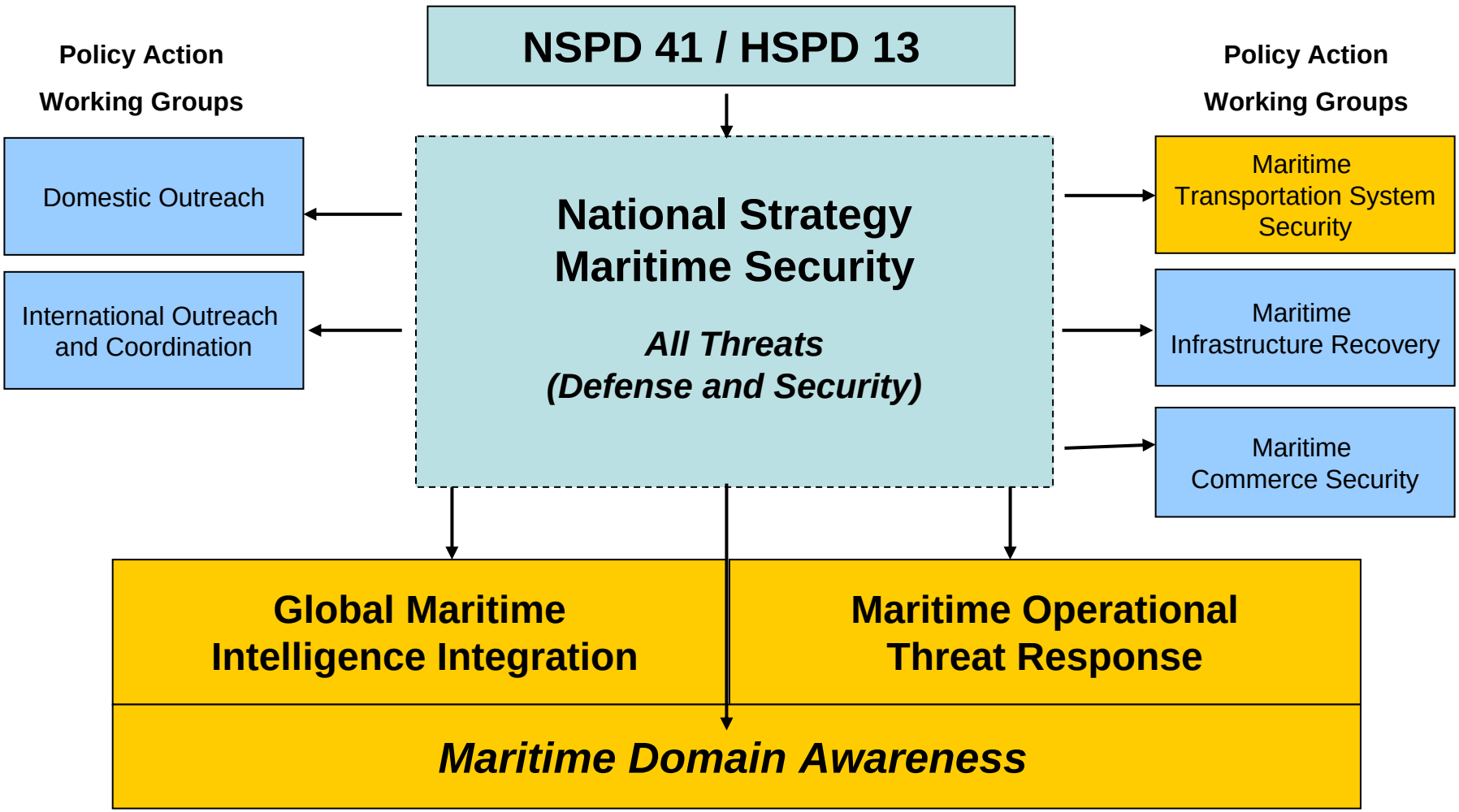
Maritime Security Policy and MDA



Requires Unity of Effort

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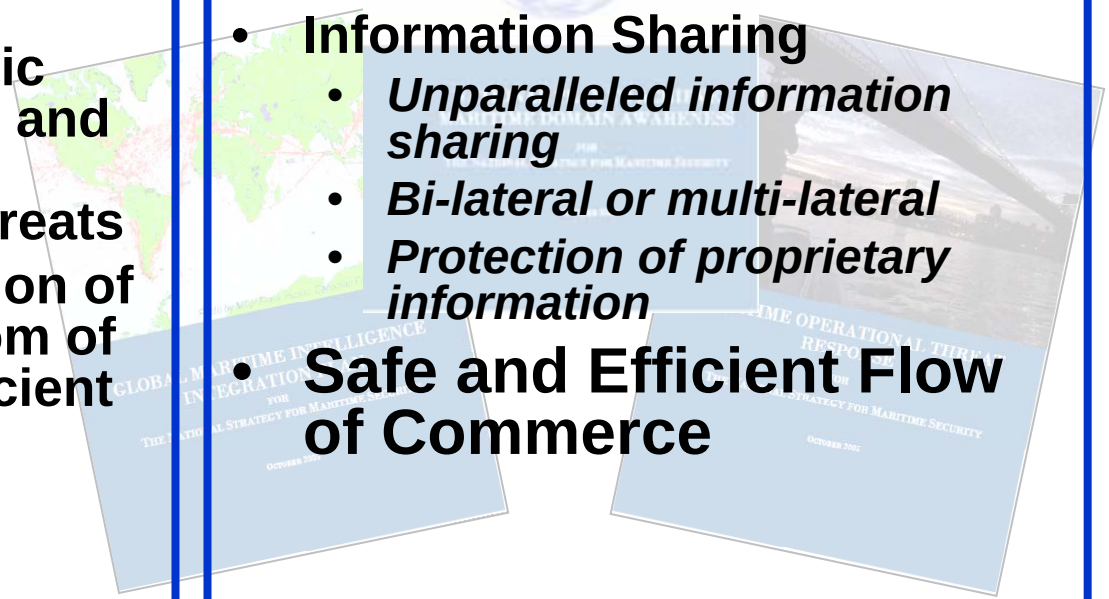
National Plan to Achieve MDA

Goals

- Enhance transparency in the maritime domain to detect, deter and defeat threats as early and distant from US interests as possible
- Enable accurate, dynamic and confident decisions and responses to the full spectrum of maritime threats
- Sustain the full application of the law to ensure freedom of navigation and the sufficient flow of commerce

Guiding Principals

- Unity of Effort
  - *Coordinated effort*
  - *Mutual interest*
  - *Stakeholders cooperation*
- Information Sharing
  - *Unparalleled information sharing*
  - *Bi-lateral or multi-lateral*
  - *Protection of proprietary information*
- Safe and Efficient Flow of Commerce



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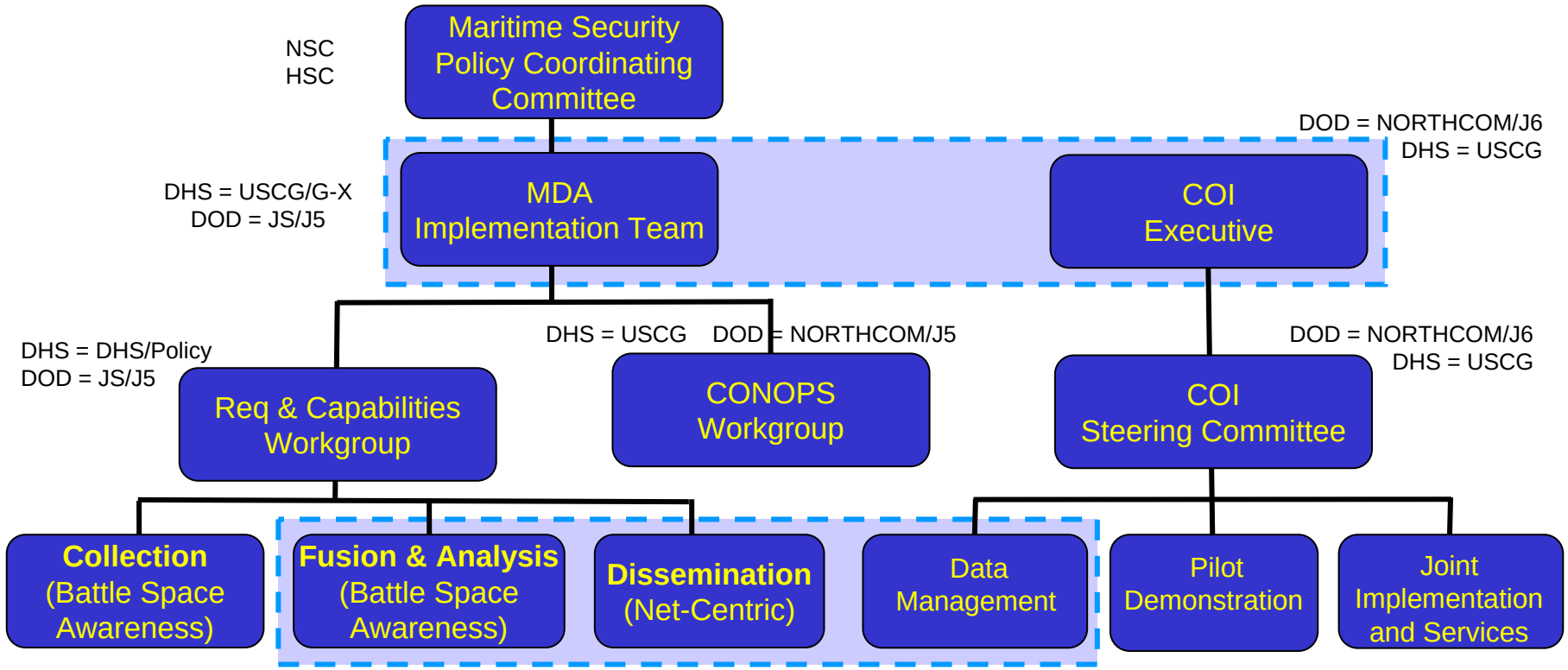
National MDA-IT & DS COI



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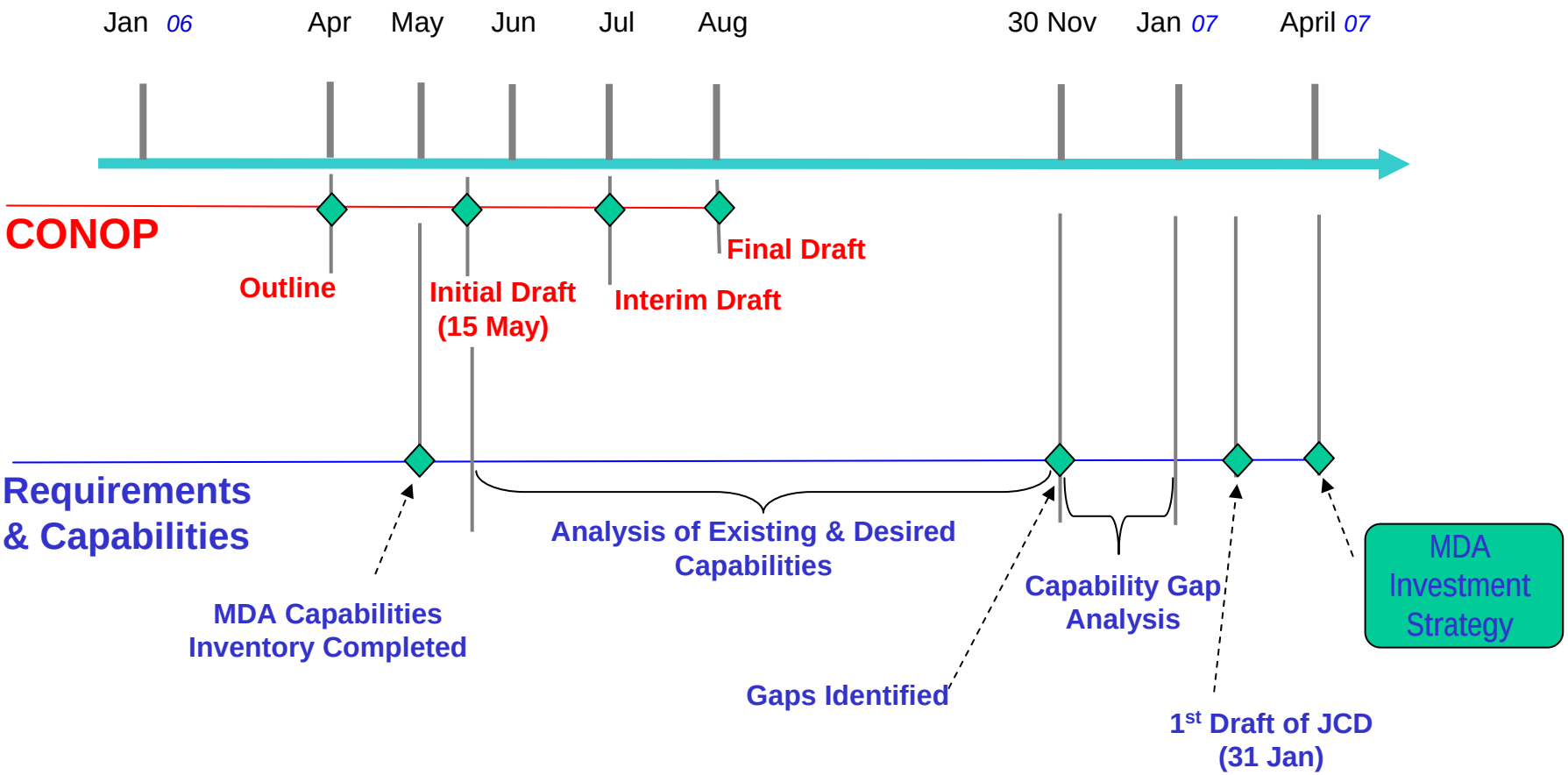
MDA-IT Timeline



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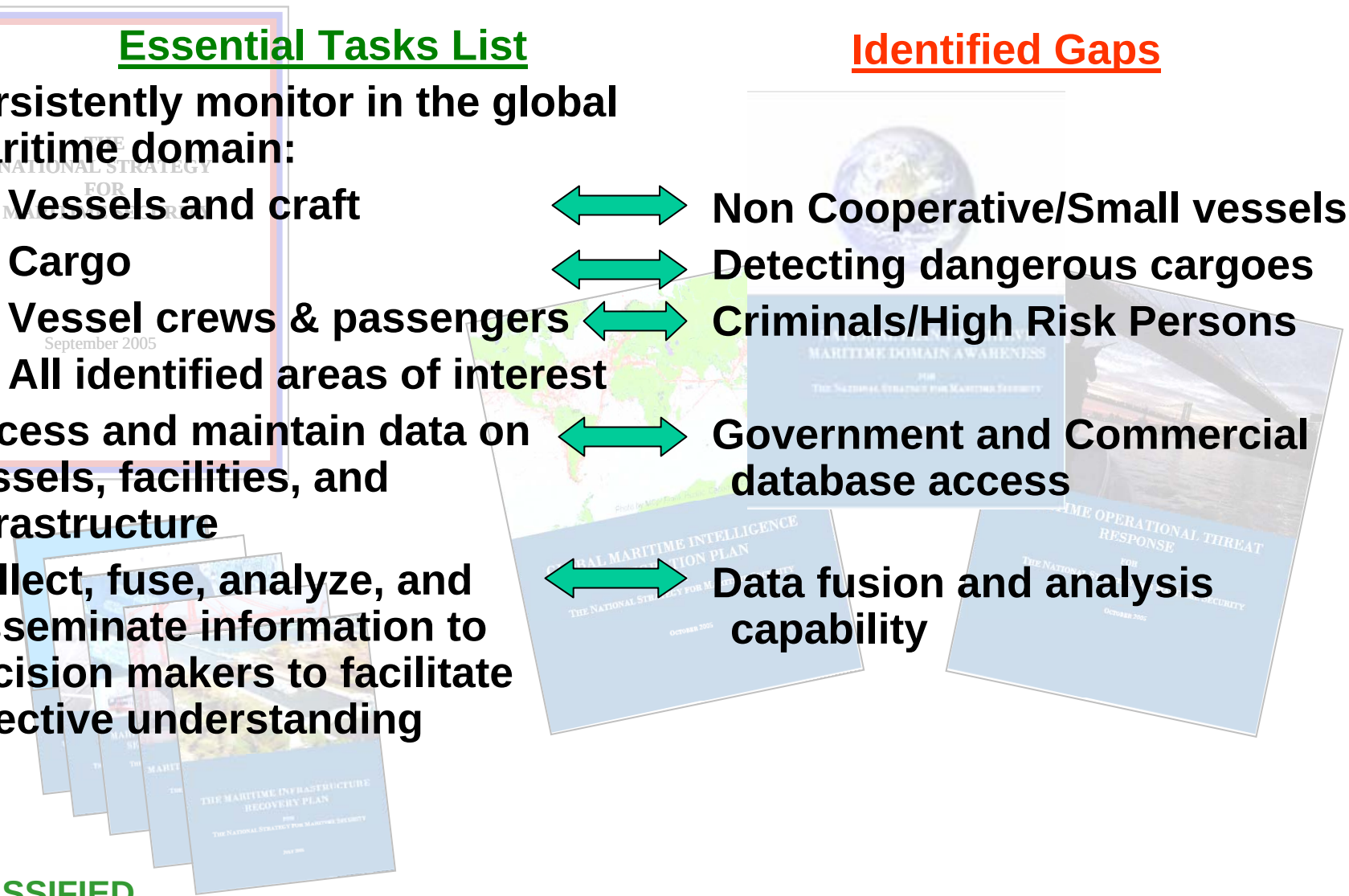
MDA Objectives & Gaps

National Plan to Achieve MDA

Essential Tasks List		Identified Gaps
• Persistently monitor in the global maritime domain:		
– Vessels and craft	⟺	Non Cooperative/Small vessels
– Cargo	⟺	Detecting dangerous cargoes
– Vessel crews & passengers	⟺	Criminals/High Risk Persons
– All identified areas of interest		
• Access and maintain data on vessels, facilities, and infrastructure	⟺	Government and Commercial database access
• Collect, fuse, analyze, and disseminate information to decision makers to facilitate effective understanding	⟺	Data fusion and analysis capability



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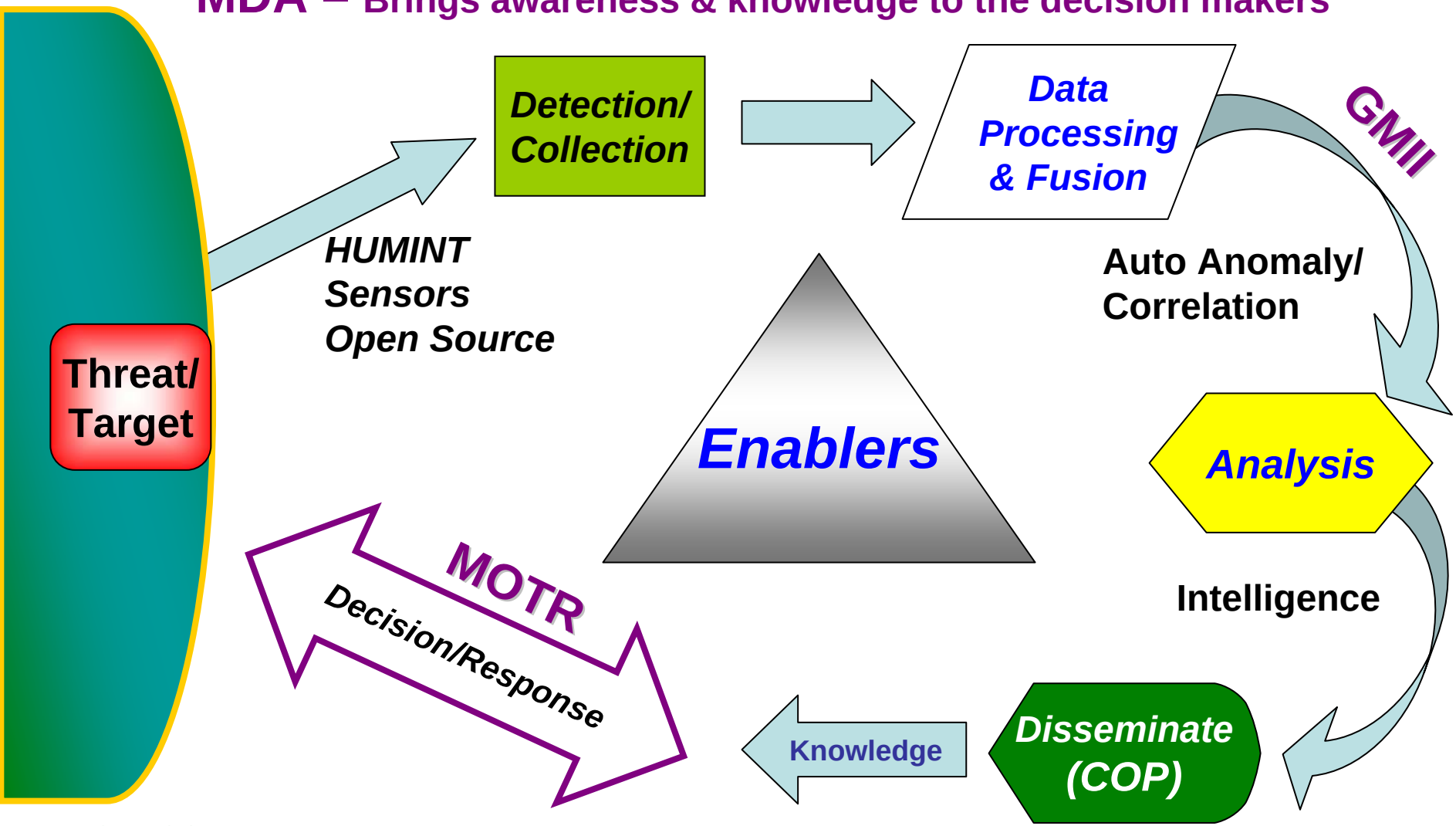
MDA Knowledge Process Cycle

MDA – Brings awareness & knowledge to the decision makers



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Maritime Domain Awareness

Observables	*Collect*	*Fuse*	*Analyze*	*Disseminate*	Decide/Act
• Vessels • People • Facilities • Cargo • Infrastructure • Sea lanes • Threats • Friendly forces • Weather	• Sensors • Operators & field personnel • Intel. agencies • Open source • Private sector data • Law Enf • Intl Sources	• Tracks w/ tracks • Data w/ data • Tracks w/ Data	• Anomaly Detection • Pattern Recog & analysis • Compare w/ rules • Research tools	• Networks • Displays (COP/UDOP) • Command Centers	• Strategic • Operational • Tactical

Situational Awareness

Current & Predictive Intelligence

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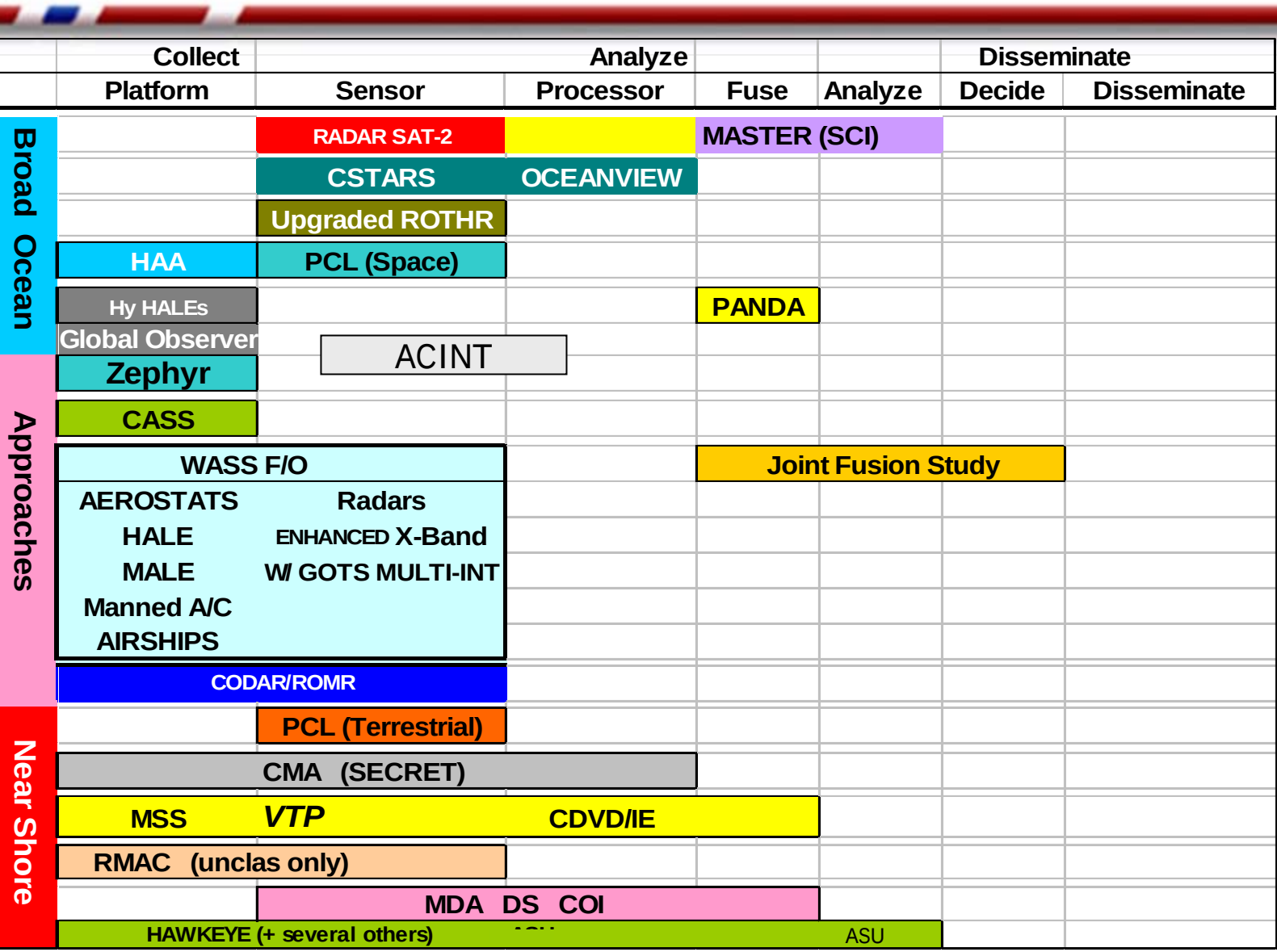
Systems Under Development or Consideration



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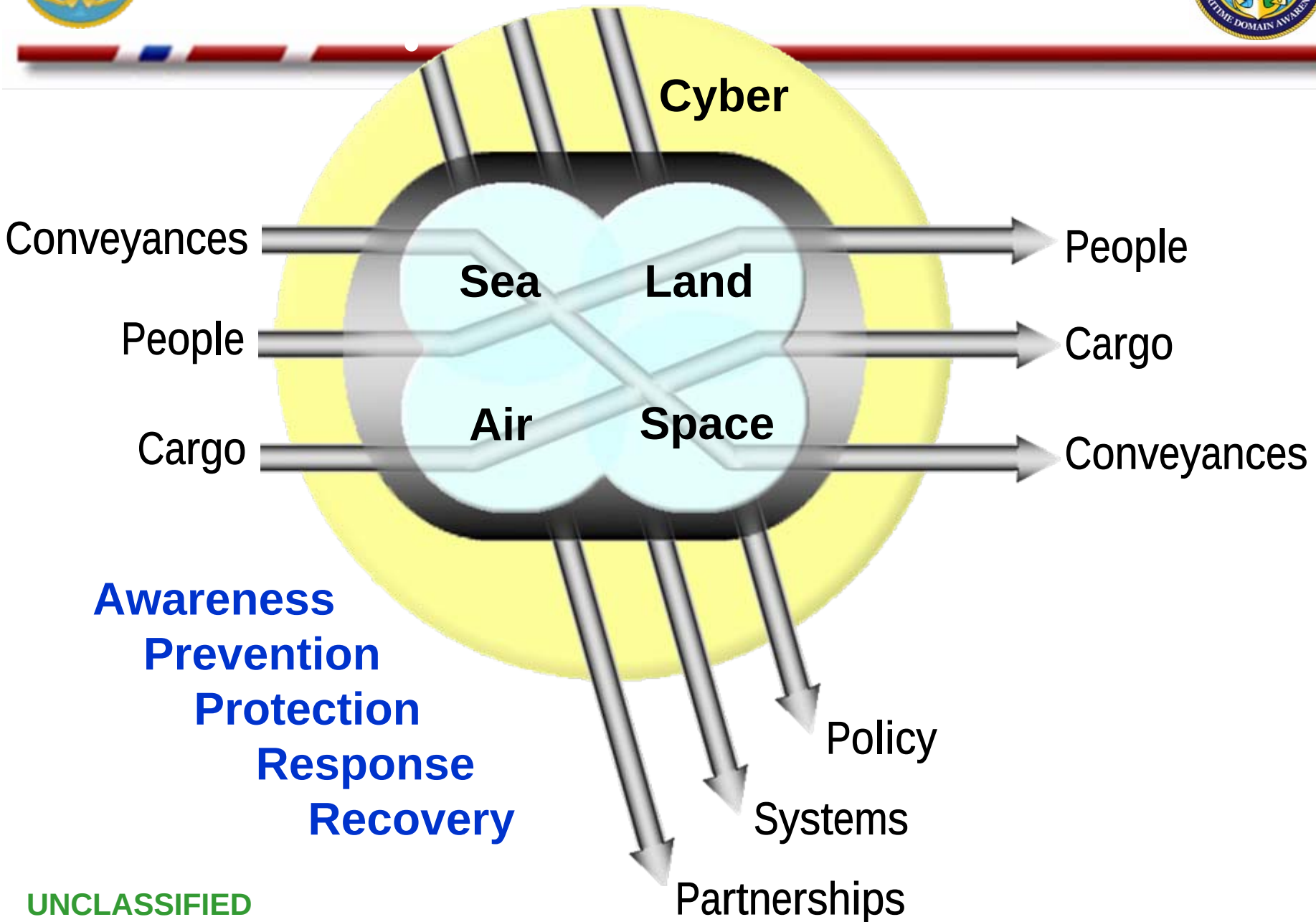
All Domain Awareness



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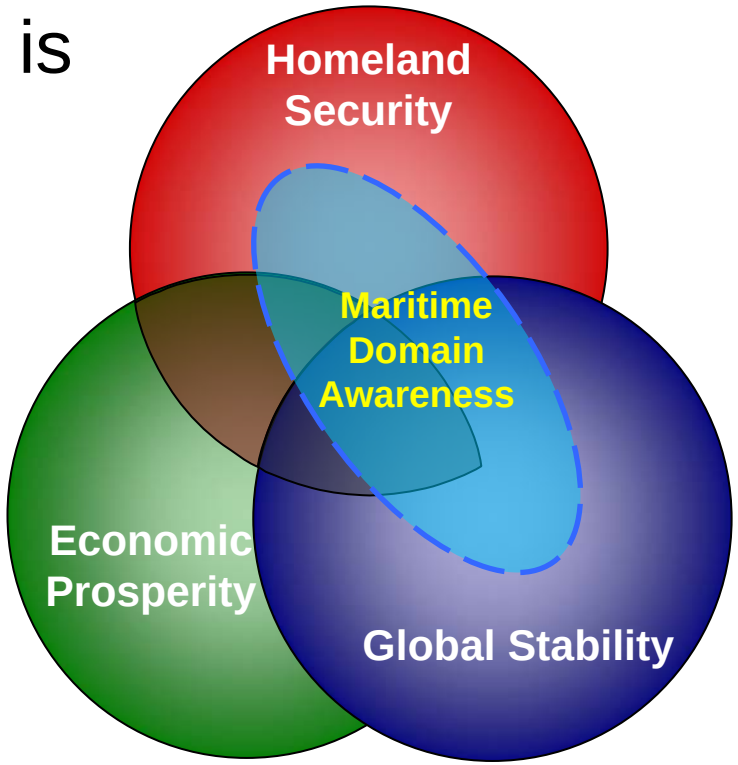
Maritime Domain Awareness

The Bottom Line

- Maritime Domain Awareness is a critical enabler for Maritime Security
- Maritime Security is a critical enabler for Global Stability
- Global Stability is a critical enabler for Economic Prosperity



MDA is about Global Security, Stability and Economics

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U.S. DEPARTMENT OF HOMELAND SECURITY

UNITED STATES COAST GUARD
SEMPER PARATUS
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