



# Maritime Domain Awareness

## Lesson 1.2

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## Lesson 1.2 Learning Objectives

Upon successful completion of this lesson, the student will be able to:

- Define the Maritime Domain and Maritime Domain Awareness (MDA)
  - Goals
  - Data/Information sharing challenges
- Identify the following elements of MDA:
  - Threats
  - Stakeholders
  - Vessels and other objects
  - Vessel classification
- Understand the threats and challenges facing your local maritime area



## Maritime Domain Awareness

- All areas and things on or adjacent related to the following:
  - Sea
  - Ocean
  - Other Navigable Waterway
- To include all maritime-related activities, infrastructure, people, cargo, and vessels and other conveyances



3

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- The maritime domain is defined as all areas and things of, on, under, relating to, adjacent to, or bordering on a sea, ocean, or other navigable waterway, including all maritime-related activities, infrastructure, people, cargo, and vessels and other conveyances.



## Maritime Domain Awareness

- The effective understanding of anything associated with the maritime domain that could impact:
  - Security
  - Safety
  - Economy
  - Environment



4

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- Maritime Domain Awareness (MDA) is defined by the International Maritime Organization (IMO) as the effective understanding of anything associated with the maritime domain that could impact security, safety, an economy, or the environment.



## Elements of MDA – Threats

- Security
  - Piracy
  - Armed Robbery
  - Terrorism
- Safety
  - Smuggling Drugs/Weapons/People
  - Search and Rescue
  - Accidents at Sea
- Economic
  - Illegal, Unreported, and Unregulated (IUU) Fishing
- Environmental
  - Oil Spills
  - Illegal Dumping





## Elements of MDA – Possible Stakeholders Include

- Navies and/or Coast Guards
- Fisheries
- Ports and Harbor (i.e. Port Authority)
- Maritime Rescue Coordination Centers (MRCC)
- Maritime Police
- Environmental Protection Agencies
- National Security Agencies
- Departments of Justice
- Energy Agencies and/or Petroleum Non-Government Organizations (NGOs)
- Drug Enforcement Agencies
- Others



## Elements of MDA – Objects on Water

- Large vessels (> 300GT)
  - Cargo (Bulk, Container, Hazardous)
  - Tankers (Chemical, Oil, Other)
  - Military, Cruise ships
  - Assigned an International Maritime Organization (IMO) Number
- Medium vessels
  - Fishing (Trawlers, Longliners, Motherships, Tuna)
  - Passenger ships
  - Patrol vessels





## Elements of MDA – Objects on Water

- Small vessels

- Wooden canoes
- Fiberglass boats
- Speed boats
- Sail boats
- Dhows



- Others

- Oil rigs
- Buoys
- Debris (sunken ships, reefs, rocks, etc.)





## Elements of Maritime Domain – Details of Objects

- Owner (flag country, registry, etc.)
- Crew (nationality, criminal records, etc.)
- Cargo (hazardous, illegal, weapons, drugs)
- History (high-risk vessels, detained previously, previous inspections)
- Current activity (fishing, transport, etc.)
- Current and historical position (vessel tracks, ports visited)
- Dynamic information (speed, heading)



## MDA – Importance of Information Sharing

- Approximately 80% of global trade is moved via maritime transportation
- Threats to economy, security, and safety from the maritime environment
  - Maritime terrorism threats
  - Piracy and armed robbery attacks



10

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## MDA – Importance of Information Sharing

- Issues which begin in one country often affect another
- One country may lack resources to maintain MDA
- Sharing information and ensuring all nations have effective MDA is critical
- Regional partnerships provide benefits of good MDA to all participants





## Discussion - MDA Challenges/Threats to Your Country

- Specific MDA challenges
  - Port security
  - IUU fishing
  - Piracy/Armed Robbery
  - Small boats
  - Illegal Smuggling
  - Others?
- What are some approaches used to address these challenges?
  - More effective port/high security zone monitoring
  - Increased use of transponders on vessels
  - Increased data sharing between agencies and regions
  - More effective/frequent patrols



## SeaVision Maritime Domain Awareness Summary

- Maritime Domain Awareness
  - The effective understanding of anything associated with the maritime domain that could impact security, safety, an economy, or the environment
- Sharing information
  - Ensuring all nations have effective MDA is critical



Questions?

