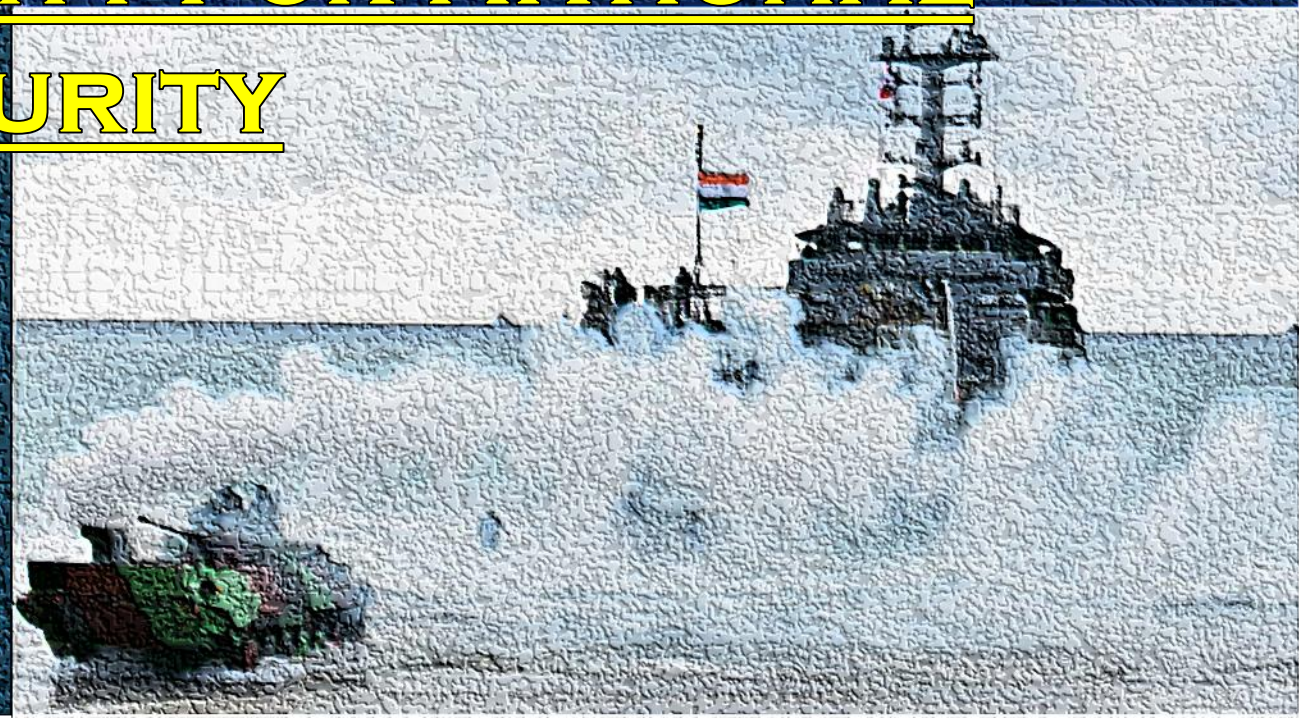




# MARITIME SECURITY FOR NATIONAL SECURITY





# **SCOPE**

**Introduction**

**Maritime Interests**

**Need for Maritime Security and Opportunities**

**Maritime Threats and Challenges**

- **Traditional Threats**
- **Non-Traditional Threats**

**Way ahead-Implementing the Strategy**

**Discussions**





# INTRODUCTION



# INDIA'S GEOGRAPHY

Red Sea

South china sea

## MARITIME TRADE HISTORY

- ❖ More Than 6000 Years Old
- ❖ More Than 1000 Passengers
- ❖ 27% of GDP in 1700 AD
- ❖ 3% by 1947



# SEA TRADE

A large cargo ship is shown from a high angle, sailing on a dark blue ocean. The ship's hull is white, and it has a long, flat deck. The ship is moving towards the right side of the frame, leaving a white wake behind it. The sky is a pale blue with some light clouds.

**2.6 Billion Tons in 1970**

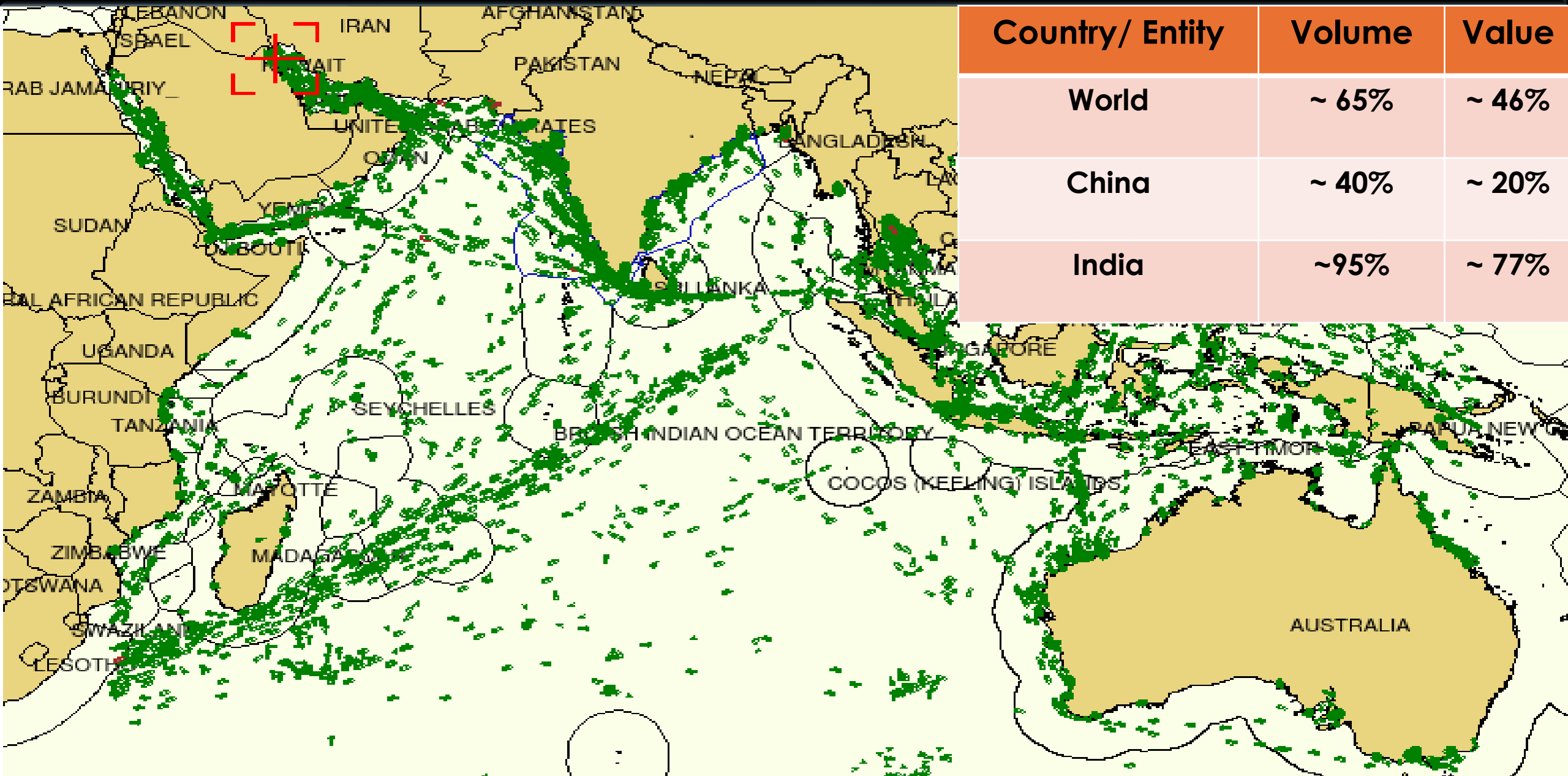
**12.3 Billion Tons in 2023**

**12.5 Billion Tons in 2025**

**95% Trade by Volume**



# TRADE FLOW IN IOR





The background of the slide is a photograph of a maritime scene. In the foreground, there is a dark, choppy sea. In the middle ground, several large ships are visible, including a prominent oil rig or offshore platform on the right side. The sky is a deep blue with some lighter, wispy clouds. A large, dark blue rounded rectangle is superimposed over the center of the image, containing the text 'MARITIME INTERESTS' in yellow.

# **MARITIME INTERESTS**



# **MARITIME RESOURCES**

**11098 KM COAST LINE**

**EEZ-2.3 MILLION SQ KMS**

**85000 SQ KM OF DEEP SEA MINERAL EXPLORATION**



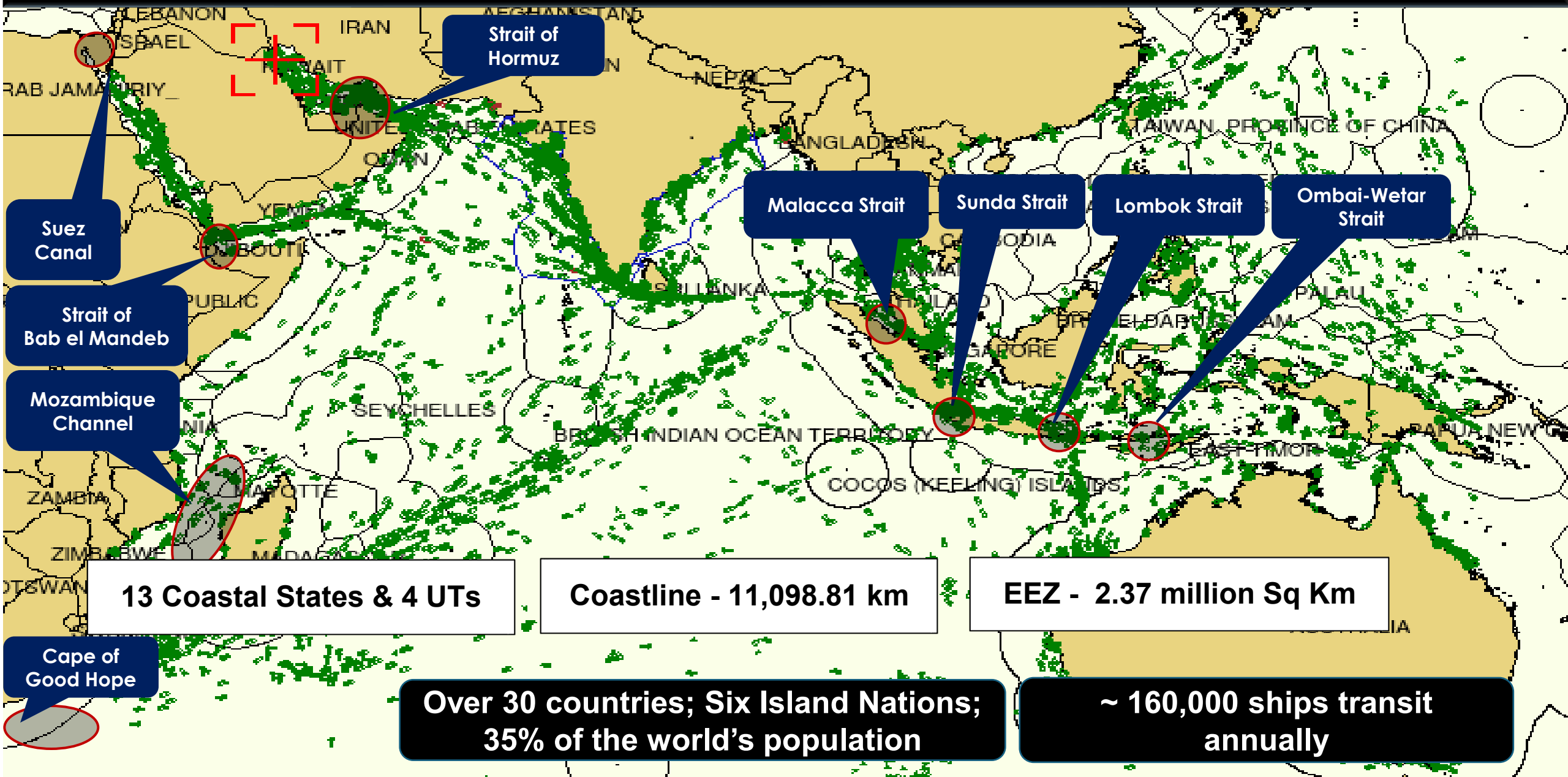
# **INDIA'S NATIONAL MARITIME INTERESTS**

## **MARITIME INTERESTS**

- ❖ **Protect India's sovereignty and territorial integrity against threats in the maritime environment**
- ❖ **Promote safety and security of Indian citizens, shipping, fishing, trade, energy supply, assets and resources in the maritime domain**
- ❖ **Pursue peace, stability and security in India's maritime zones, maritime neighbourhood and other areas of maritime interest**
- ❖ **Preserve and project other national interests in the maritime dimension**



# INDIAS MARITIME INTERESTS - SHIPPING DENSITY - IOR





# INDIA'S NATIONAL MARITIME INTERESTS

## ADVANTAGES OF GEOGRAPHY

- ❖ 13 Coastal States and Union Territories
- ❖ 60% of GDP
- ❖ 12 Major Ports and 200 Minor Ports
- ❖ 3 Lakh Sea Farers
- ❖ Second Largest Fish Producing Nation



The background of the slide features a sunset over a dark, choppy ocean. The sky is a mix of deep blue and orange, with a bright sun low on the horizon. Several offshore oil rigs are visible as dark silhouettes against the horizon line.

# **NEED FOR MARITIME SECURITY AND OPPORTUNITIES**



# **OPPORTUNITIES**

**Trade Security**

**Energy Security**

**Ship Building**

**Expanding Blue Economy**

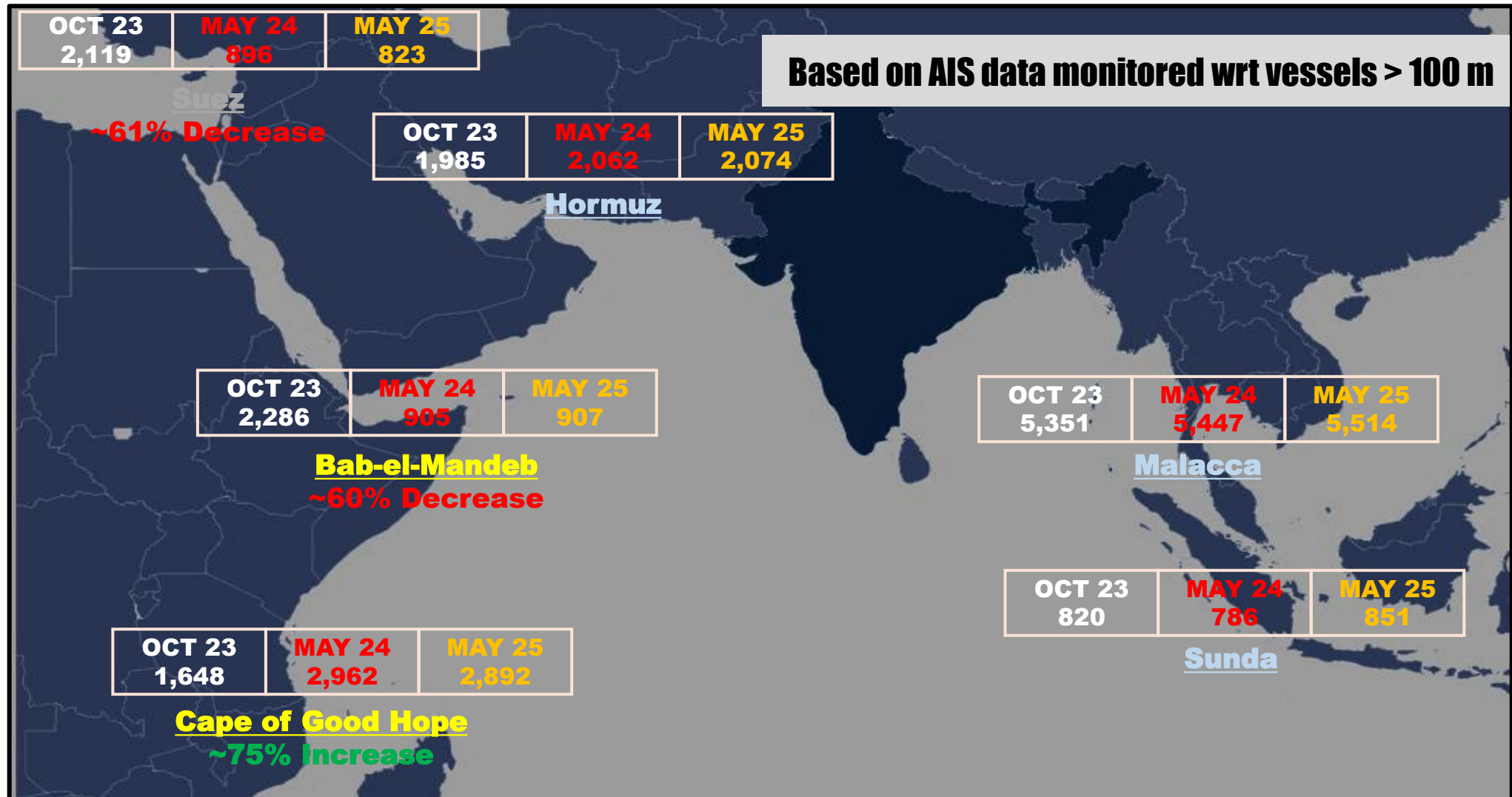
**Regional Leadership and International Cooperation**

**Technological advancements**

**National Initiatives**



# TRAFFIC THROUGH CHOKE POINTS



PRE-CONFLICT vs MAY 24 vs MAY 25



# **OPPORTUNITIES**

**Trade Security**

**Energy Security**

**Ship Building**

**Expanding Blue Economy**

**Regional Leadership and International Cooperation**

**Technological advancements**

**National Initiatives**

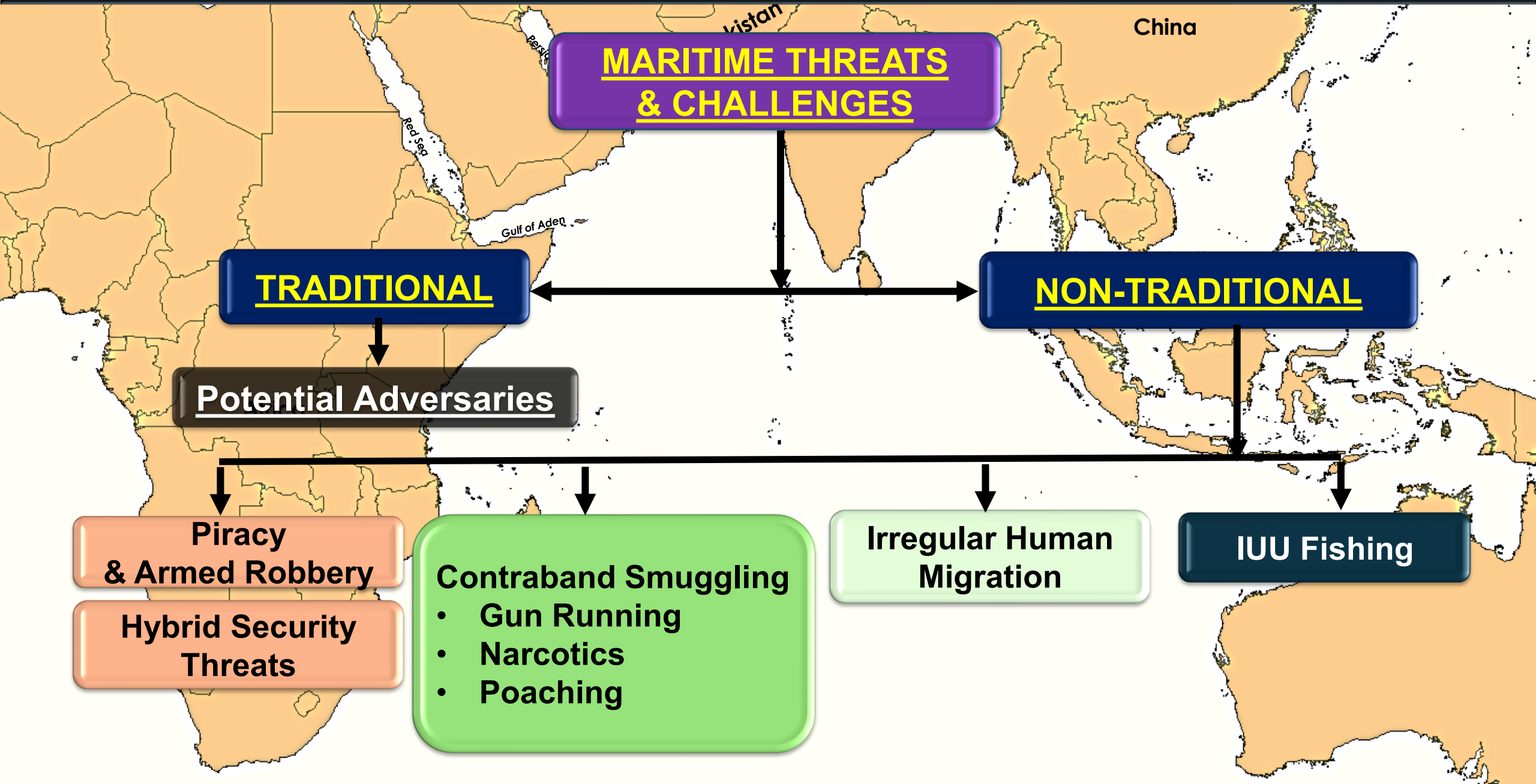




# MARITIME THREATS & CHALLENGES



# MARITIME THREATS & CHALLENGES





# **CHALLENGES**

**National Security and Territorial Integrity**

**Sphere of Influence 2.0**

**Economic Risks - Just in Time Logistics**

**Suez Blockade and Red Sea Crisis**

**Non Traditional Security Threats**

**Vulnerability of Critical Infrastructure**



# **MILITARY MODERNISATION BY CHINA**

**2014 – 24 : 156 units @ 15.6 year**

**Surpassed US Navy in 2020, as the largest Navy in the World**

**Young Fleet with Potent Weapons/ Sensors**

- **Two Aircraft Carriers commissioned**
- **Sea trials of 3<sup>rd</sup> Carrier in progress**
  - **80000 T**
  - **40/ 45 Fighters**





# CHINESE PRESENCE IN IOR

## Deployment Trends

Sustained presence of PLA (N) Anti Piracy Escort Force in Gulf of Aden commenced in 2008

On an average 6-7 ships/ Surge of upto 10 warships, 01/ 02 Submarine every year



Kunming



Jianggang Shan





# PAKISTAN NAVY

Employment of terror as an instrument of state policy

State sponsored non-state actors committing acts of terrorism (26/ 11 Mumbai, Pahalgam attack)

Aggressive capability development despite economic woes (*Hangor* class submarines)

Volatile internal security environment – BLA/ TTP





# PROJECTED GROWTH : 2030

## Planned for inductions:-

- 04 Major Combatants
- 04 FACs
- 08 Auxiliaries

08 Yuan Class Submarines under various stages of production

10/ 11 AIP Submarines





# **CHALLENGES**

**National Security and Territorial Integrity**

**Sphere of Influence 2.0**

**Economic Risks - Just in Time Logistics**

**Suez Blockade and Red Sea Crisis**

**Non Traditional Security Threats**

**Vulnerability of Critical Infrastructure**



The background of the slide features a photograph of an offshore oil rig on the ocean. The rig is a complex of dark metal structures with several tall derrick-like towers. The water is a deep blue with visible ripples. The sky above is a lighter blue with soft, white clouds. A large, dark blue rounded rectangle is superimposed over the middle of the image, containing the title text.

# **NON-TRADITIONAL THREATS**

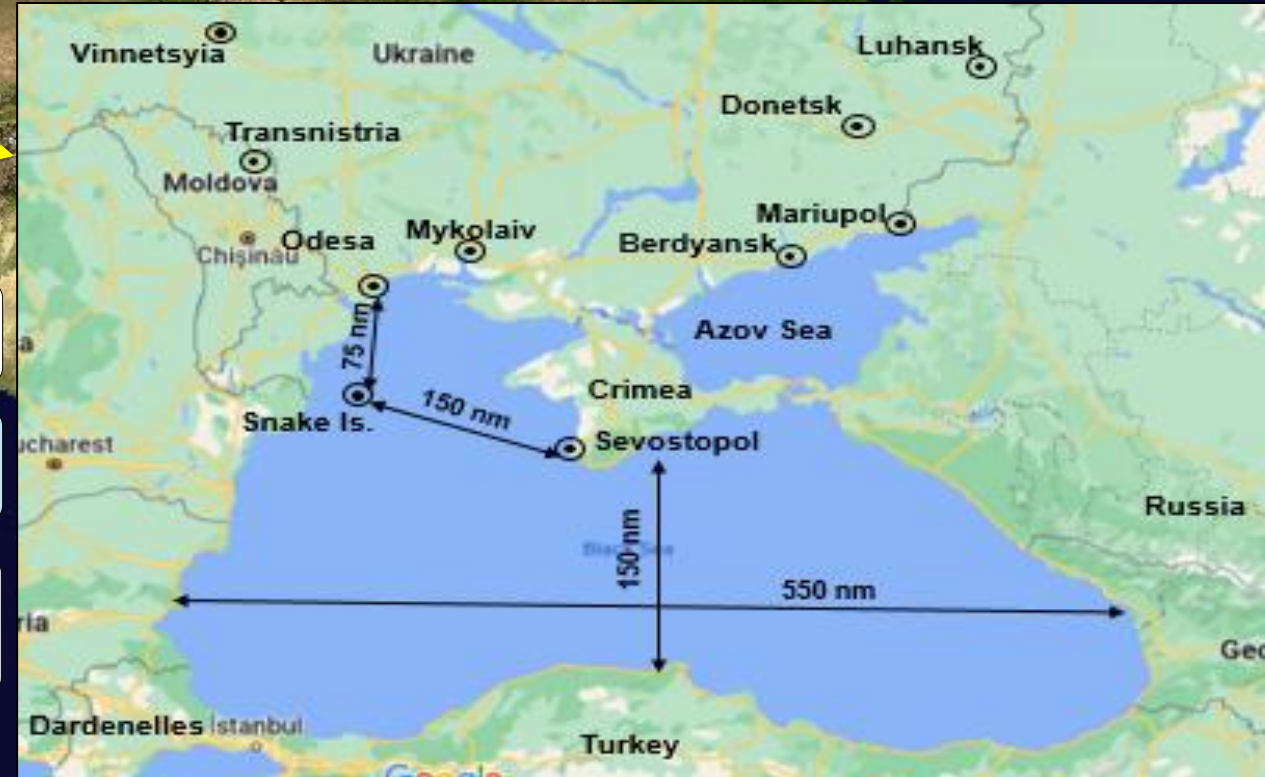


# RUSSIA UKRAINE CONFLICT: WEF FEB 22

Long Drawn Conflict

Employment of Low Cost Uncrewed Systems

Missile Warfare: Robust A2/ AD Systems,  
LACMs, MANPADs





# ISRAEL - HAMAS CONFLICT : WEF OCT 23

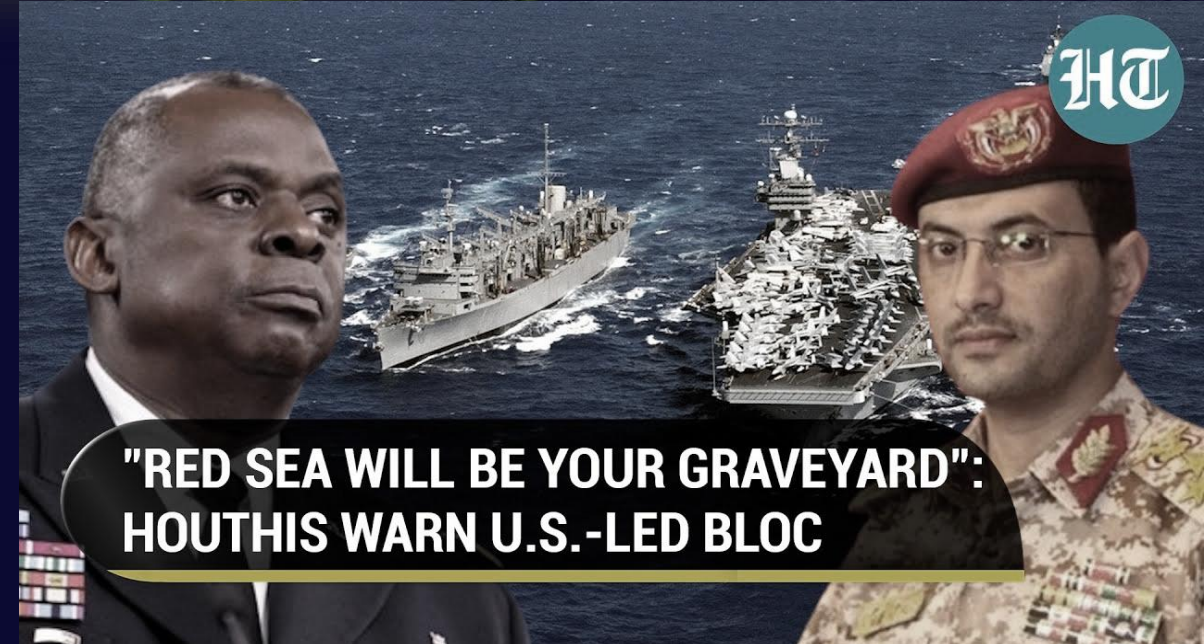


**Expansion of Non-state Actors' Capabilities**

**Kinetic Spill-over in Maritime Domain**

**Threat to Trade, Commerce & Safety of Seafarers**

**MNF Recalibrating Indo-Pacific Strategy**



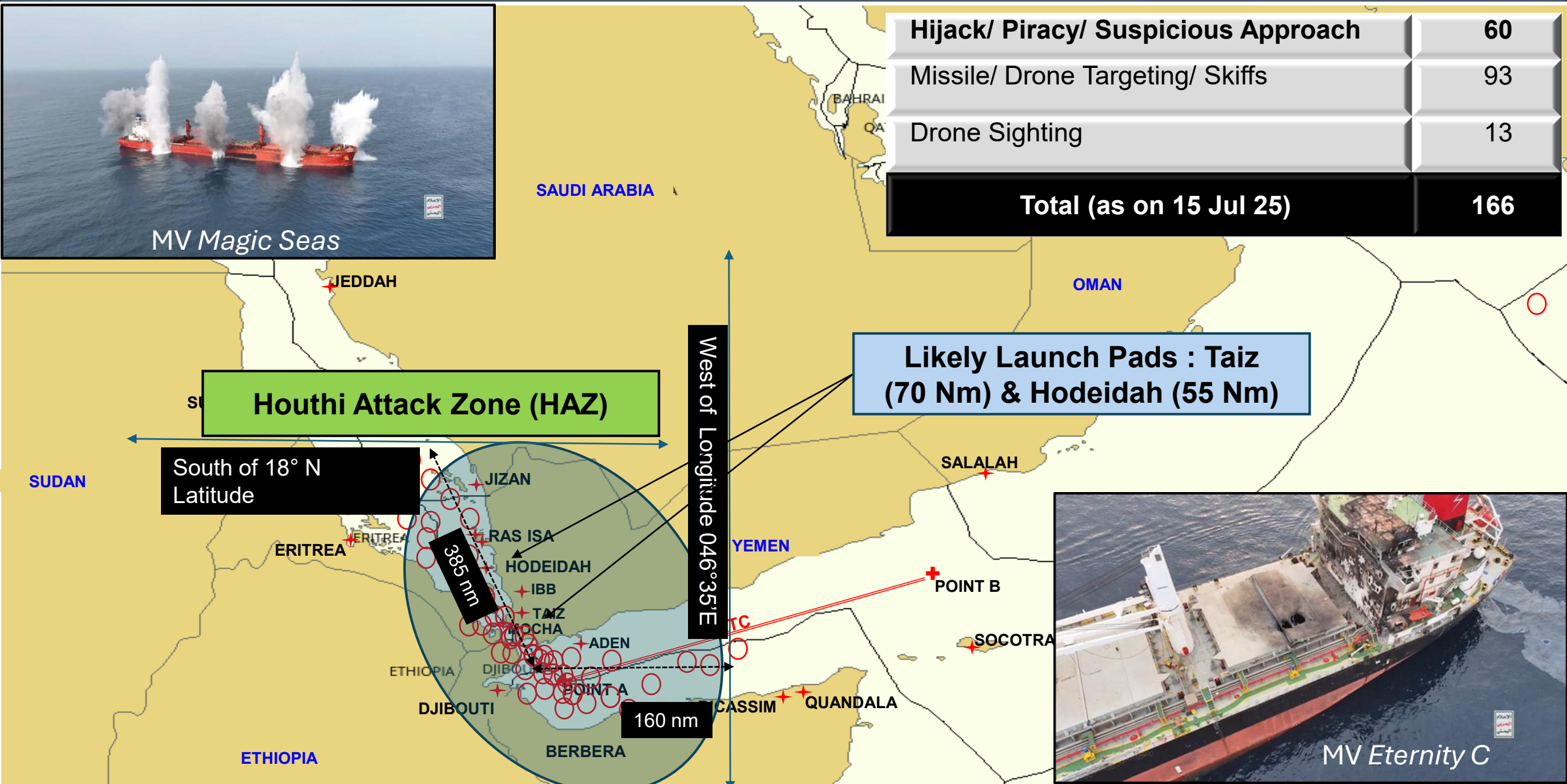


# HOUTHI ATTACKS



MV Magic Seas

Hijack/ Piracy/ Suspicious Approach	60
Missile/ Drone Targeting/ Skiffs	93
Drone Sighting	13
<b>Total (as on 15 Jul 25)</b>	<b>166</b>



MV Eternity C



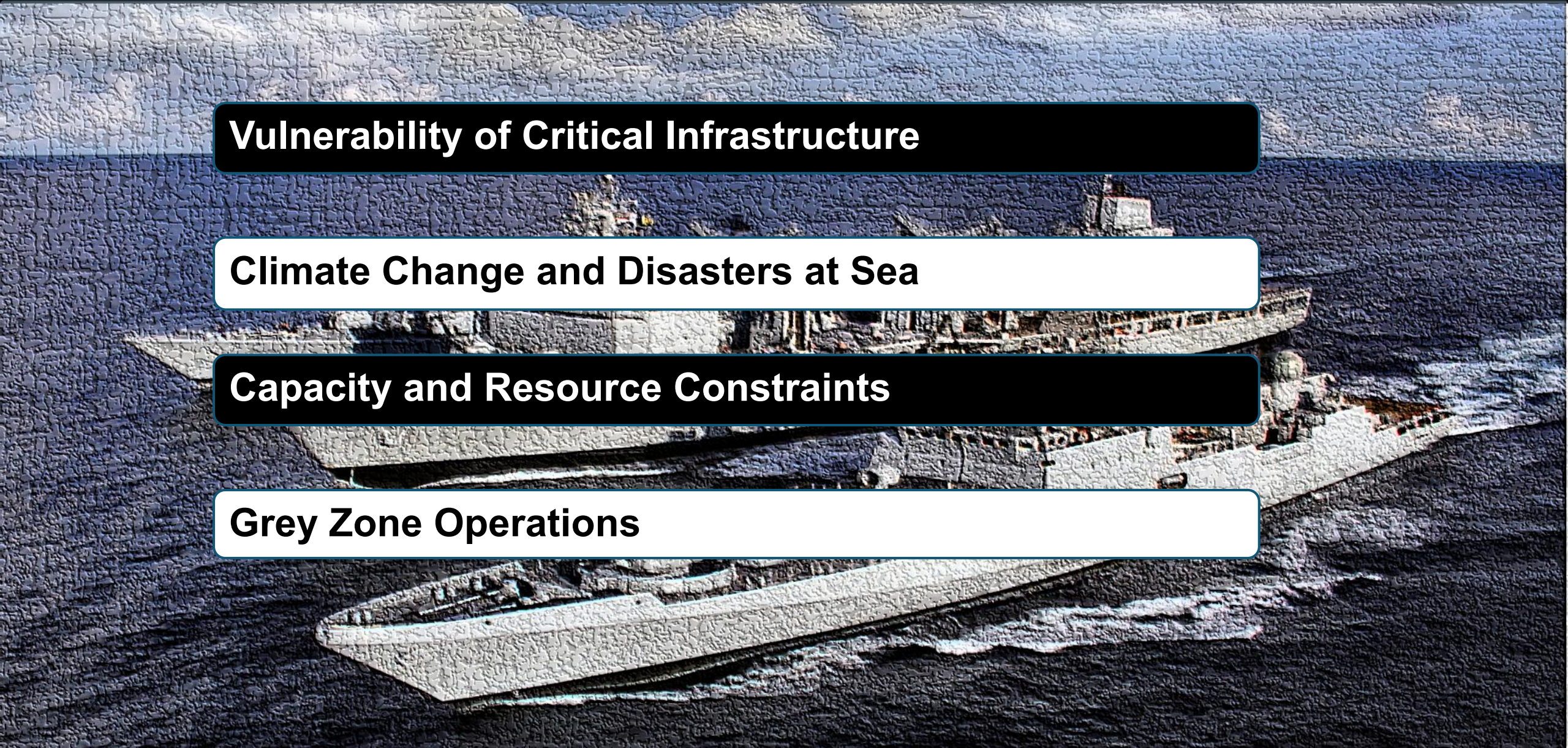
# CHALLENGES

**Vulnerability of Critical Infrastructure**

**Climate Change and Disasters at Sea**

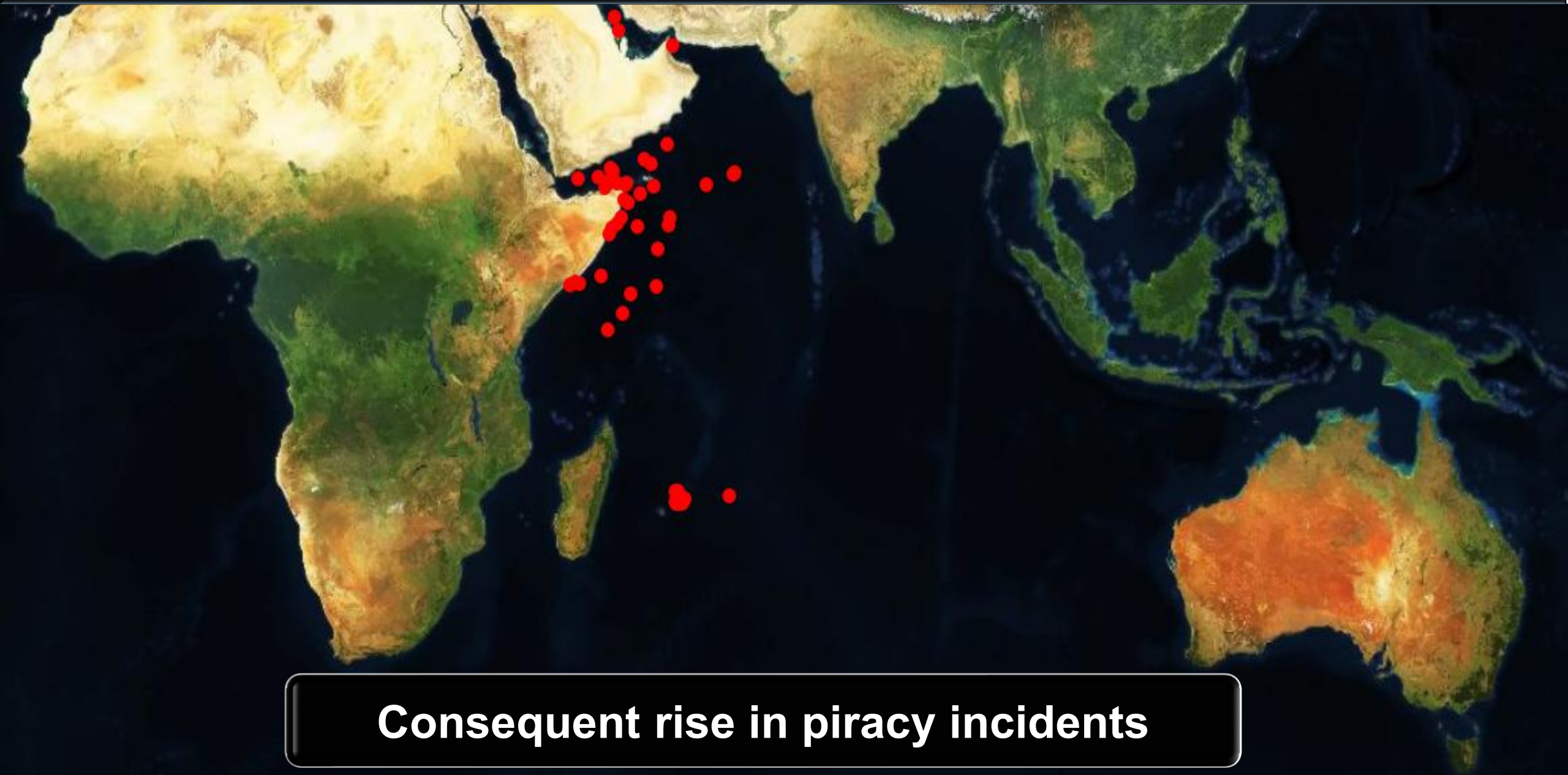
**Capacity and Resource Constraints**

**Grey Zone Operations**



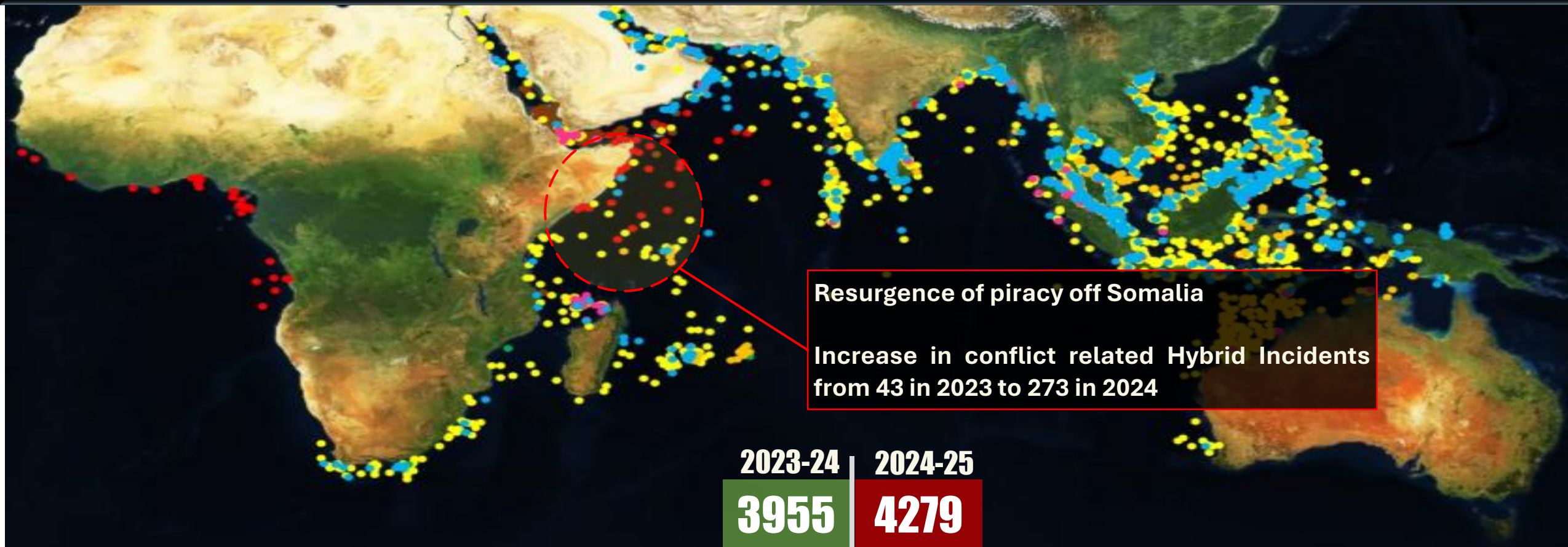


# HEAT MAP OF PIRACY INCIDENTS





# MARITIME SECURITY INCIDENTS – AS ON 31 MAR 25



227

PIRACY AND ARMED ROBBERY

809

ILLEGAL, UNREPORTED AND  
UNREGULATED FISHING

1717

MARITIME INCIDENTS

1077

CONTRABAND SMUGGLING

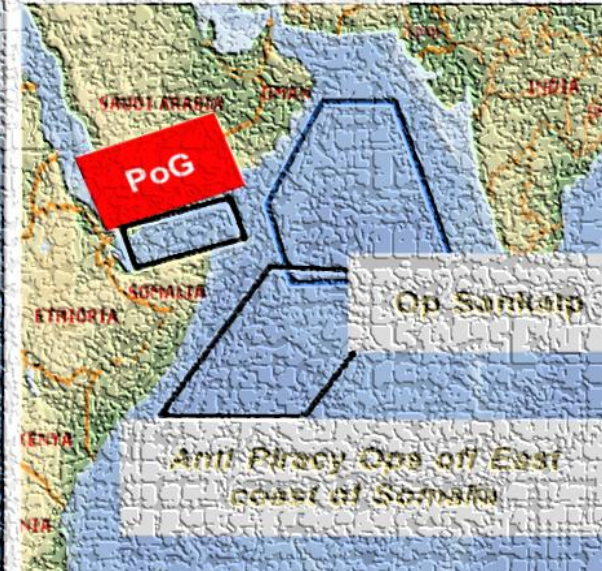
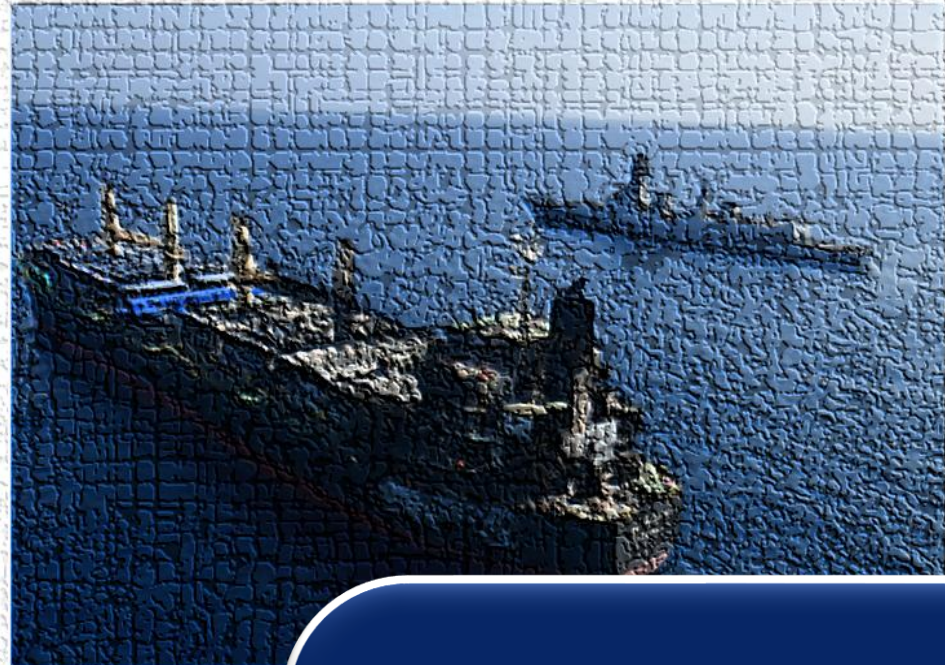
176

IRREGULAR HUMAN MIGRATION

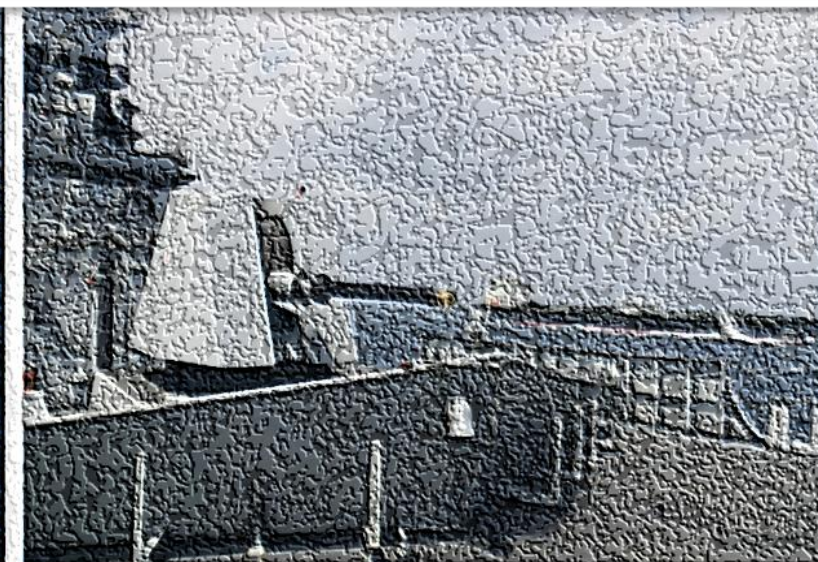
273

MARITIME SECURITY THREATS  
(HYBRID)



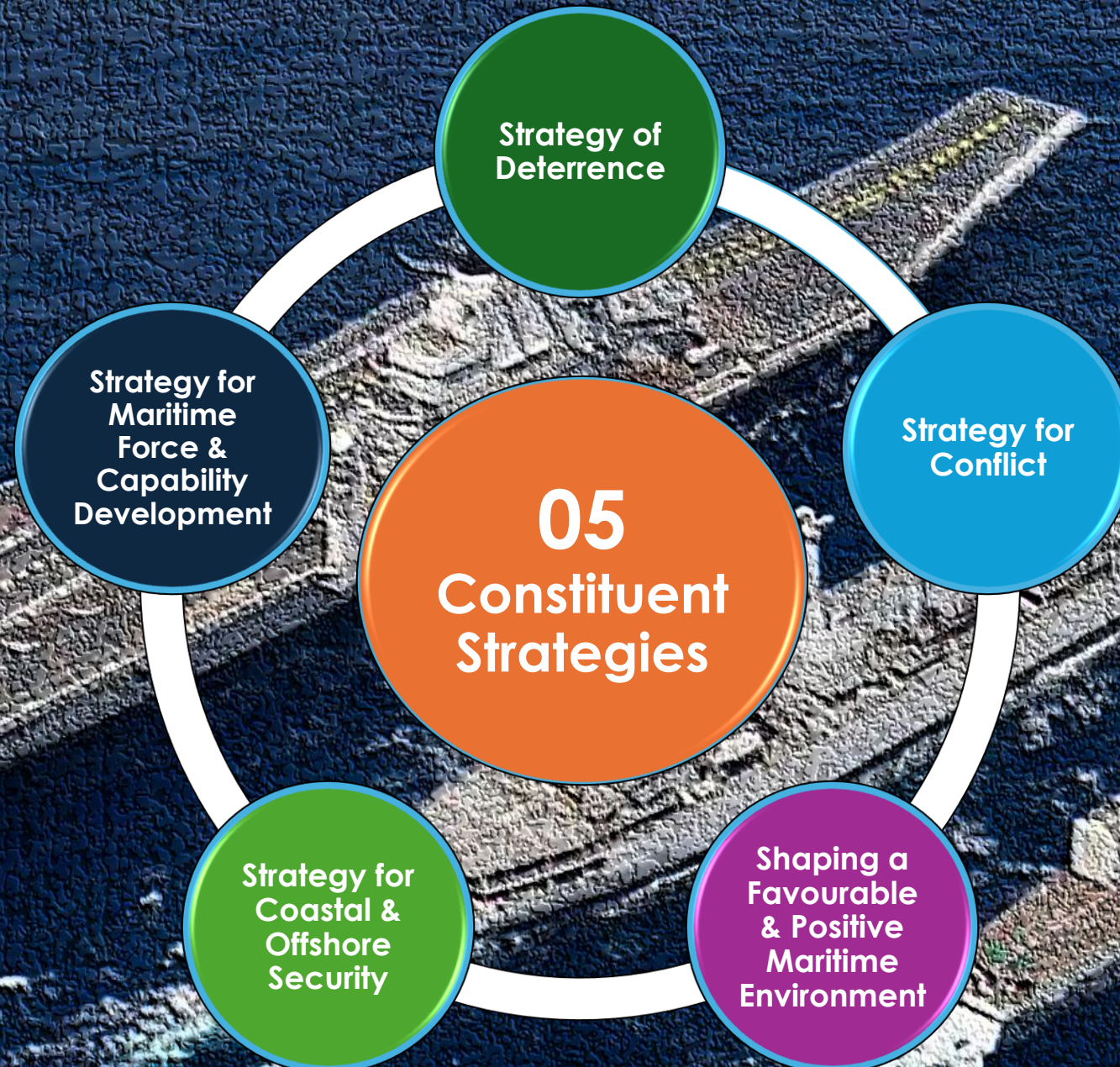


# INDIAN MARITIME SECURITY STRATEGY





# MARTIME SECURITY STRATEGY





# **SOLUTIONS - WAY AHEAD**

**Sea Power**

**Building an Ocean Graph**

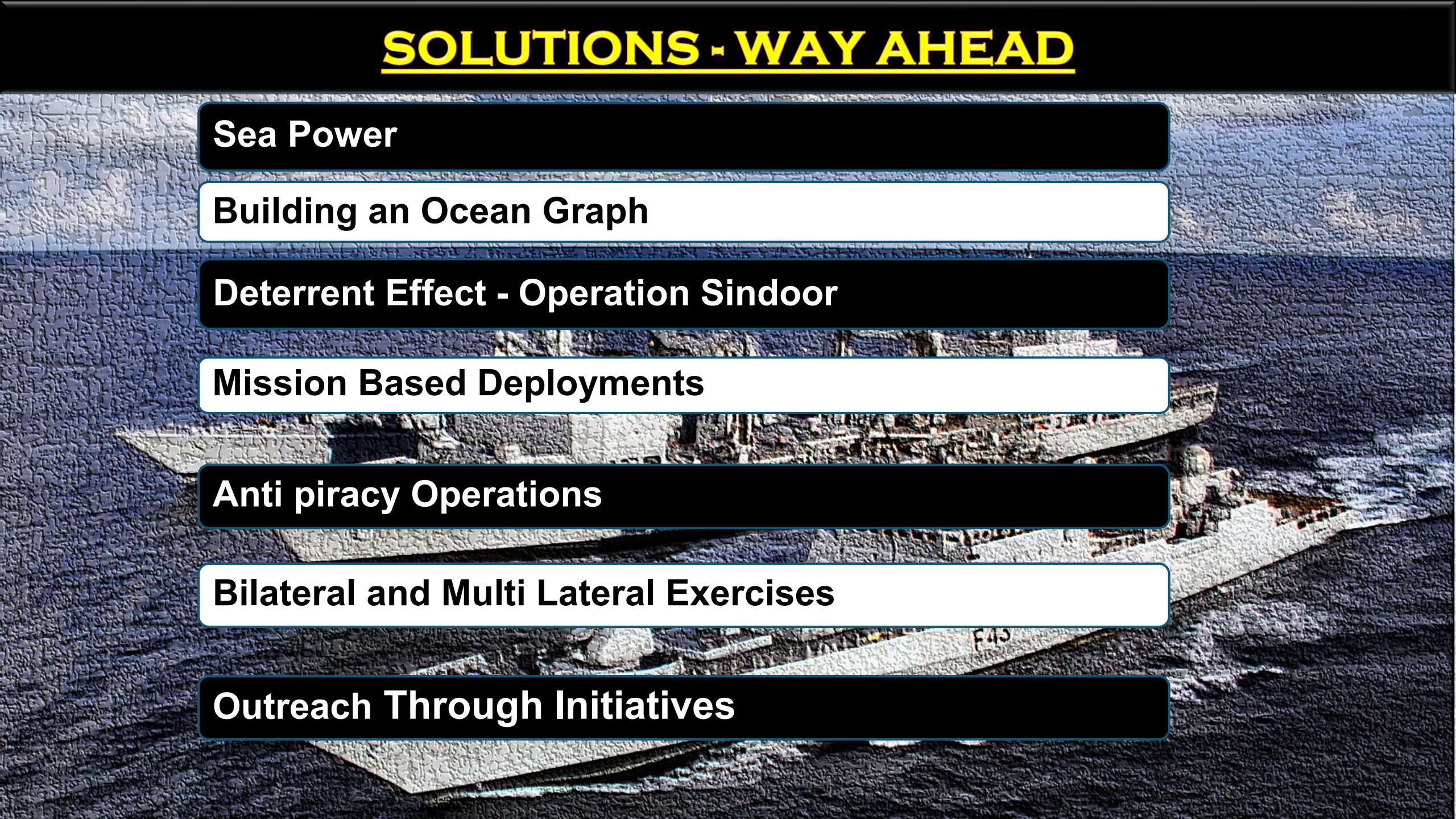
**Deterrent Effect - Operation Sindoor**

**Mission Based Deployments**

**Anti piracy Operations**

**Bilateral and Multi Lateral Exercises**

**Outreach Through Initiatives**





# MARITIME SECURITY OPERATIONS

Threat to trade/ seafarers; resurgence of piracy

➤ > 38 Capital ships deployed since Nov 23

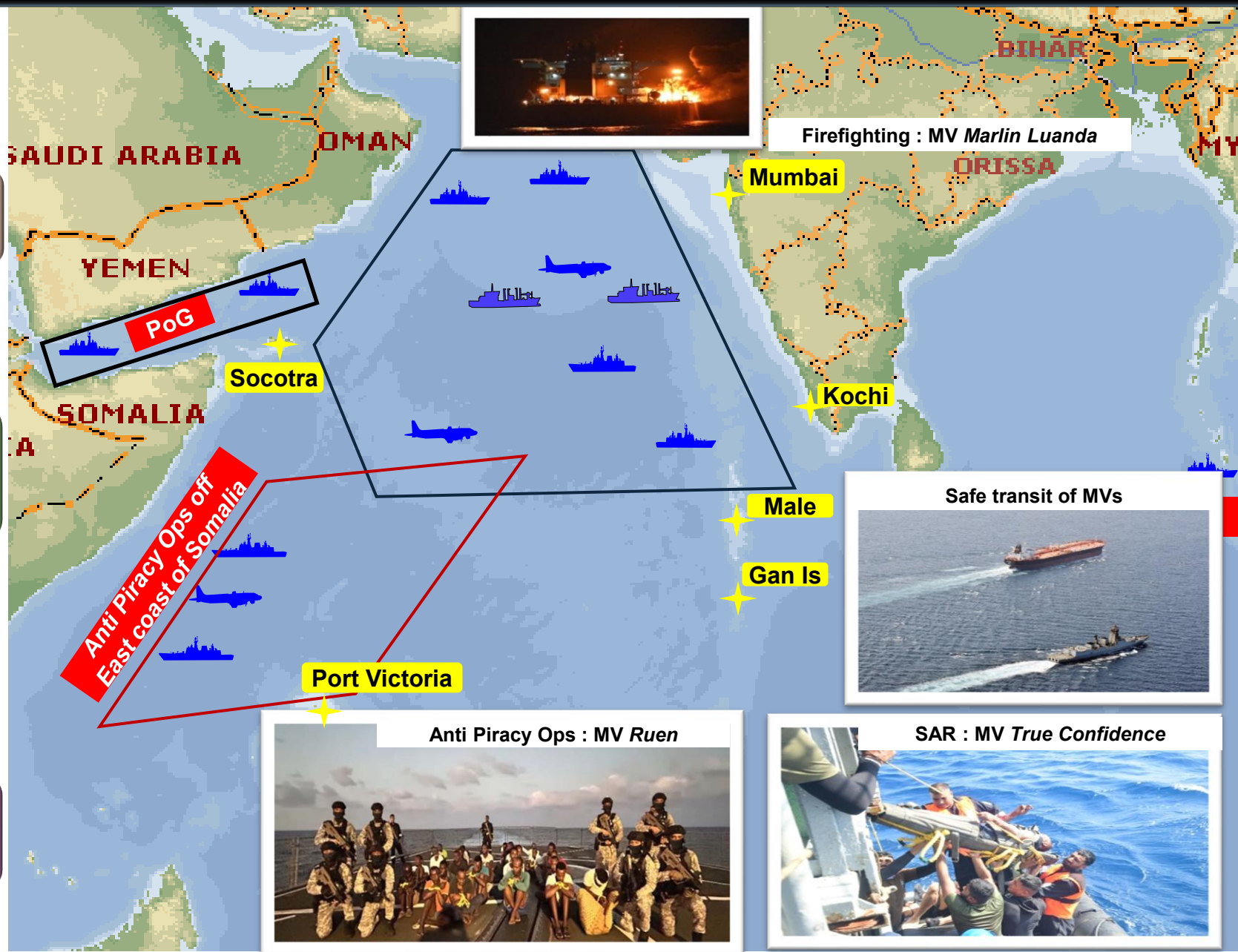
Safe transit of ~ 124 Lakh MT Cargo over 321 MVs (5.4 Bn USD)

Anti-Piracy : Surveillance over piracy hot spots, > 1000 boarding ops and apprehended pirates

>169 maritime incidents

Assistance rendered towards SAR , FF assistance, MEDEVAC, EOD sanitisation

Responded to over 30 incidents saving more than 520 lives





# **SOLUTIONS - WAY AHEAD**

**Sea Power**

**Building an Ocean Graph**

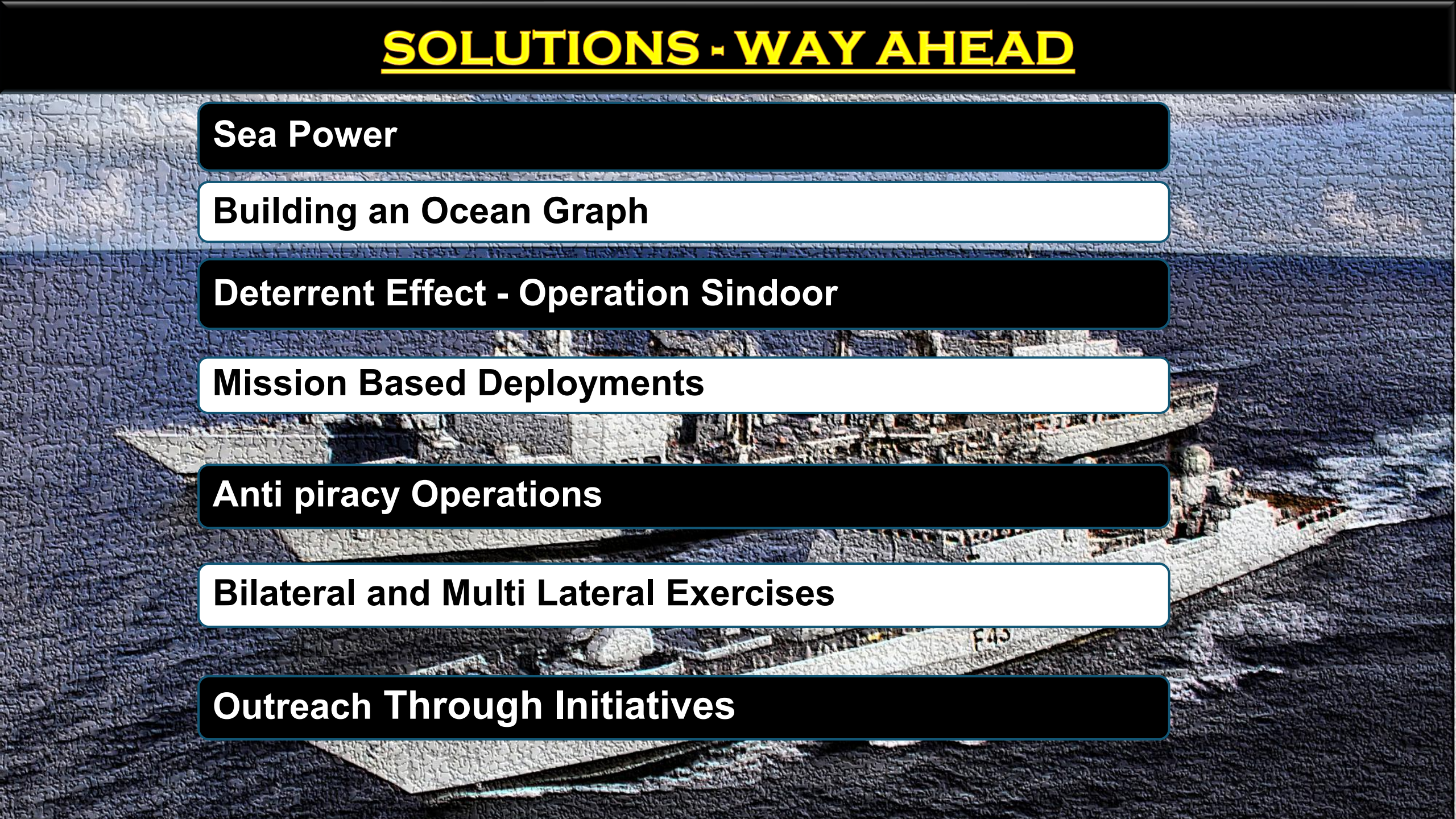
**Deterrent Effect - Operation Sindoor**

**Mission Based Deployments**

**Anti piracy Operations**

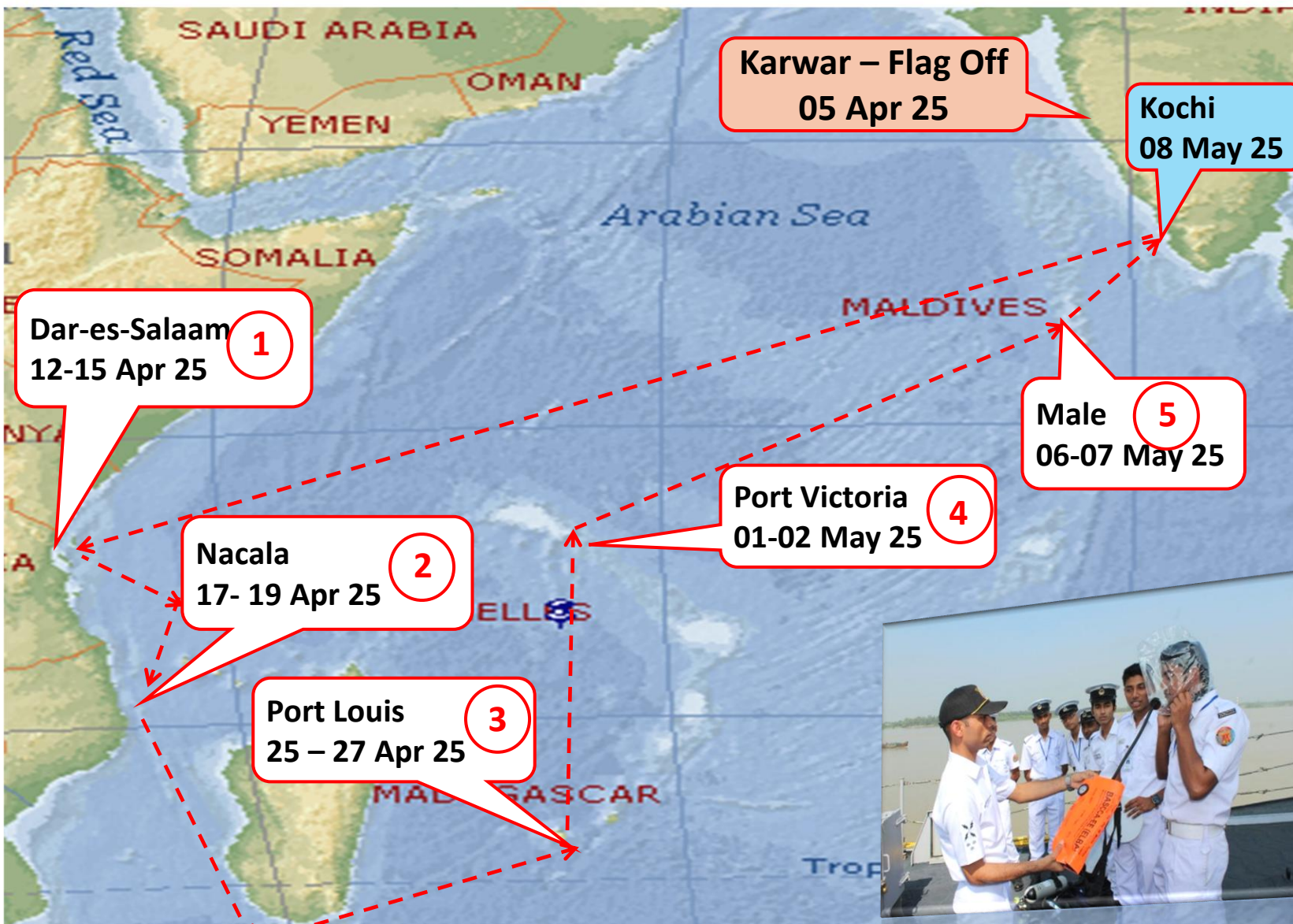
**Bilateral and Multi Lateral Exercises**

**Outreach Through Initiatives**





# INDIAN OCEAN SHIP 'SAGAR'



## Engagements

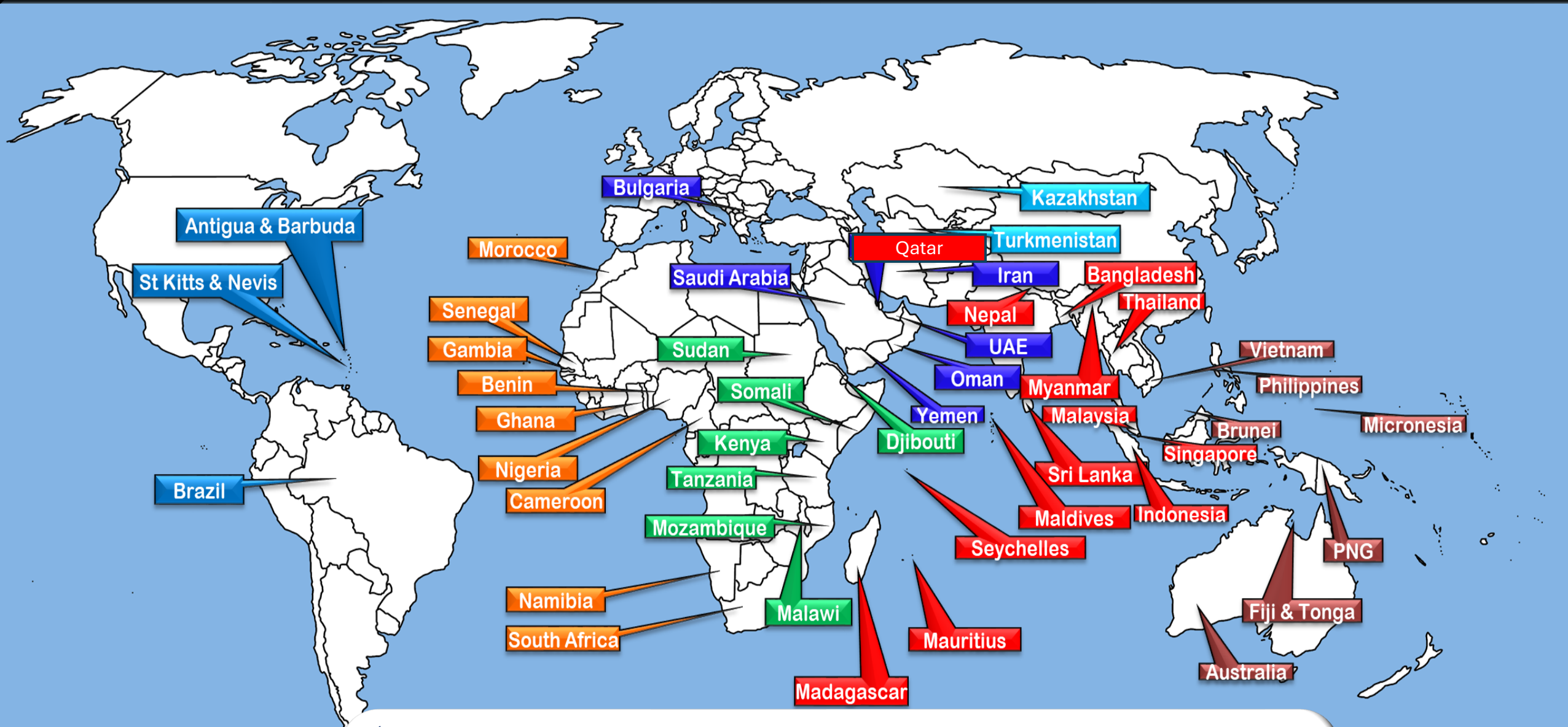
- *IN Ship Sunayna* as 'IOS Sagar'
- Combined crew
  - 44 Personnel from 09 FFCs
- EEZ Surveillance & Passage Exercise
  - Mauritius
  - Mozambique
  - Seychelles
  - Tanzania



COMOROS KENYA MADAGASCAR MALDIVES MAURITIUS MOZAMBIQUE SEYCHELLES SRI LANKA TANZANIA



# IN TRAINING FOOTPRINT



- ✓ ~ 1200 vacancies across 130 courses every year
- ✓ Training being offered across all domains – Surface, Sub-surface and Air



# **SOLUTIONS - WAY AHEAD**

**Self Reliance - Atmanirbharta**

**Enhanced Surveillance and Monitoring**

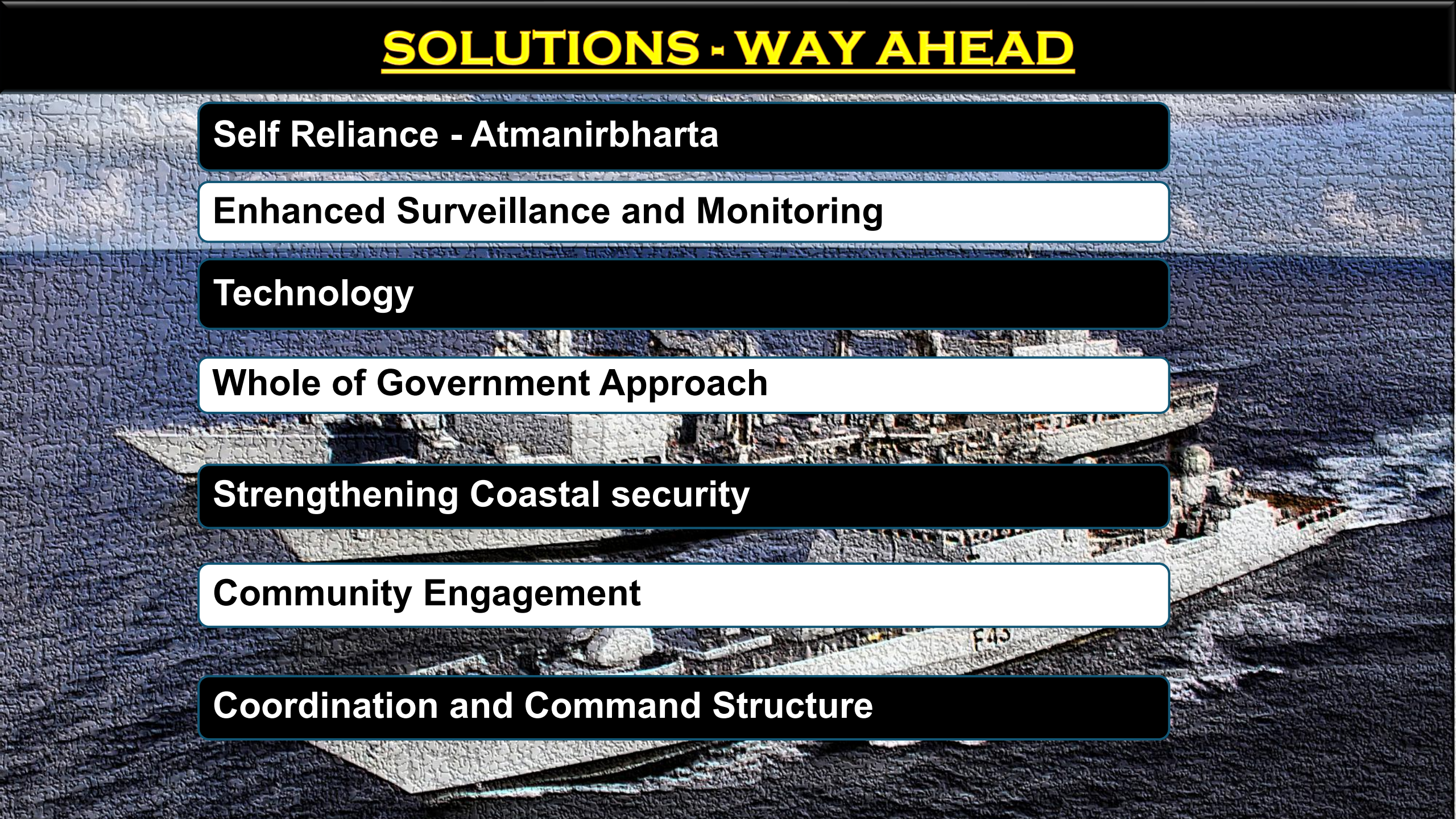
**Technology**

**Whole of Government Approach**

**Strengthening Coastal security**

**Community Engagement**

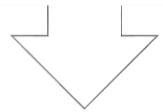
**Coordination and Command Structure**



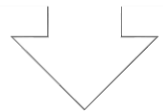


# MARITIME SECURITY CONSTRUCT POST 26/ 11

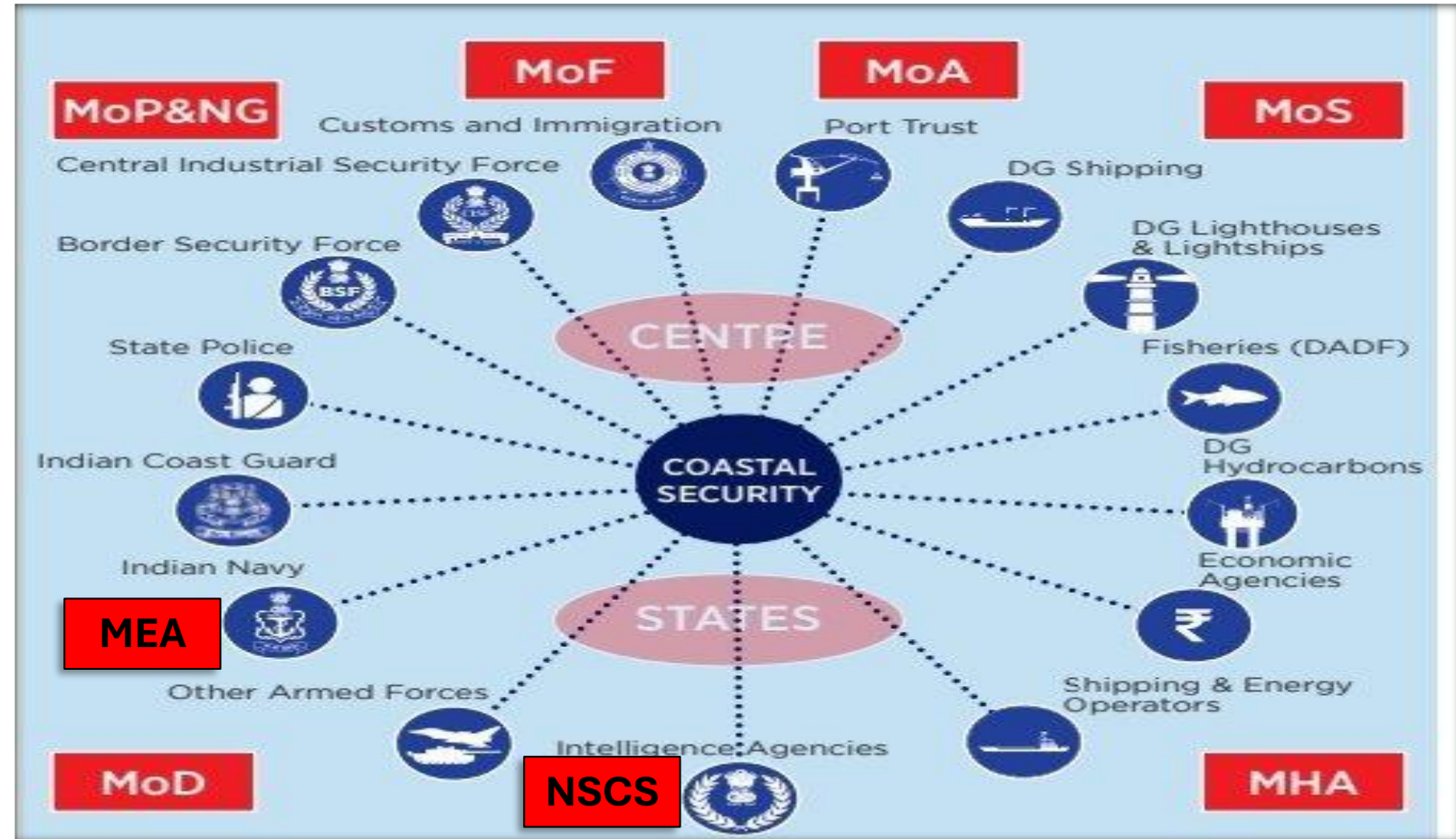
Whole of Govt  
Approach



Cooperation with  
Multiple Agencies



Thrust on coordinated  
action



More than 40 Ministries/ Agencies at international, national and state level involved in maritime sector





# IFC-IOR

## 28 Nations & 54 Multinational Agencies





# **SOLUTIONS - WAY AHEAD**

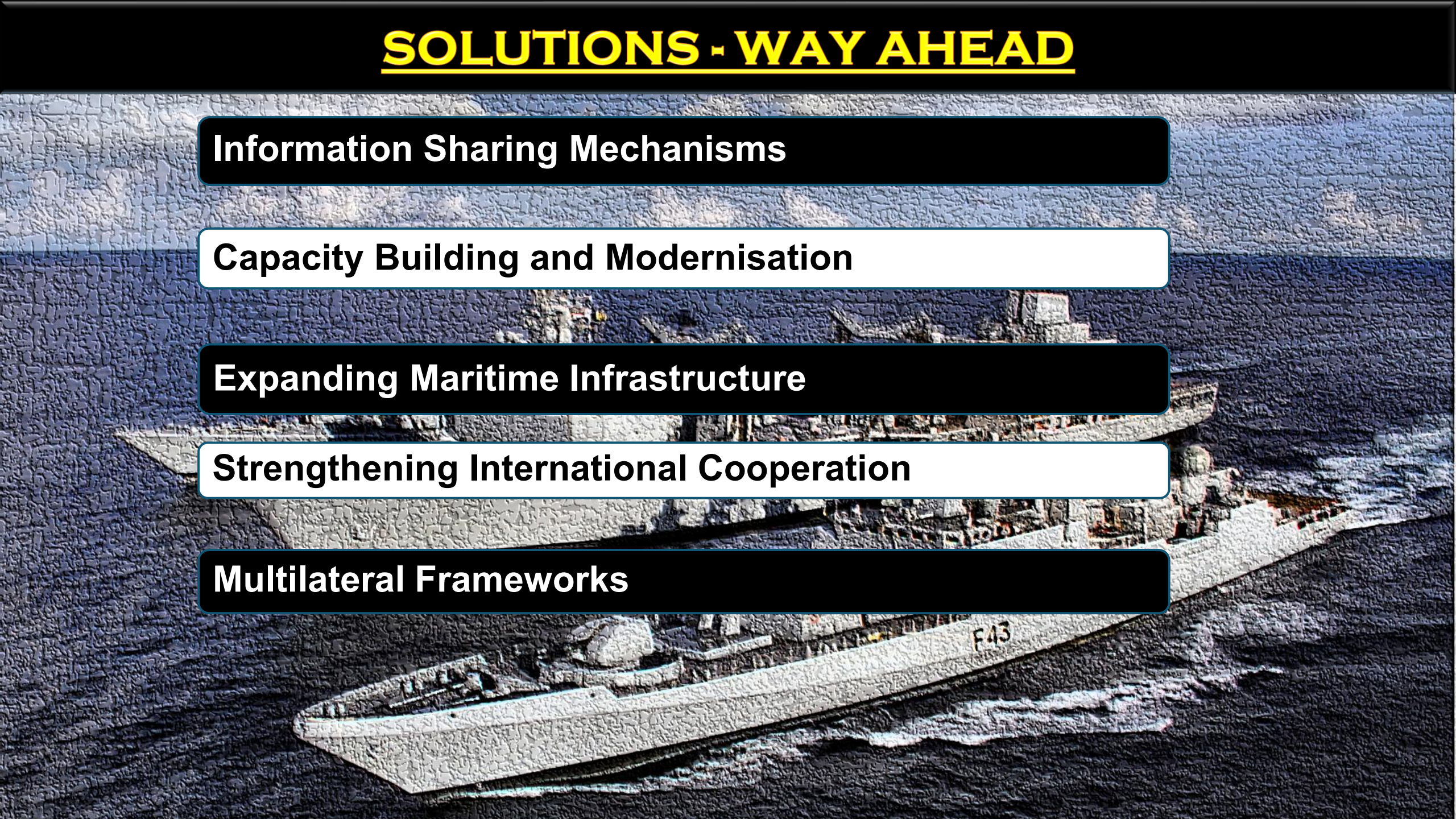
**Information Sharing Mechanisms**

**Capacity Building and Modernisation**

**Expanding Maritime Infrastructure**

**Strengthening International Cooperation**

**Multilateral Frameworks**







# **CONCLUSION**



# *Discussions*





# **CHALLENGES**

**National Security and Territorial Integrity**

**Sphere of Influence 2.0**

**Economic Risks - Just in Time Logistics**

**Suez Blockade and Red Sea Crisis**

**Non Traditional Security Threats**

**Vulnerability of Critical Infrastructure**