

WOC: Ocean Business Leadership, Collaboration and Action on Ocean Sustainable Development in the PEMSEA Region

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The International Business Alliance
for Corporate Ocean Responsibility

The Multiple Use Ocean



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Growing Ocean Use

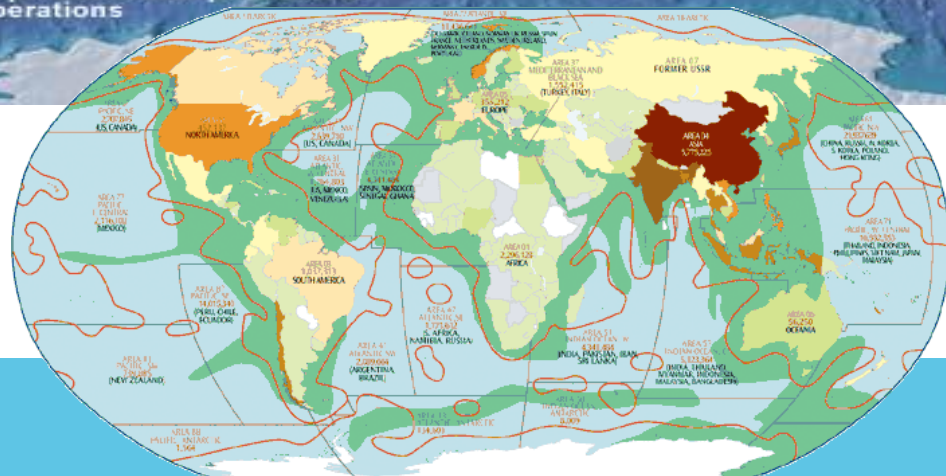
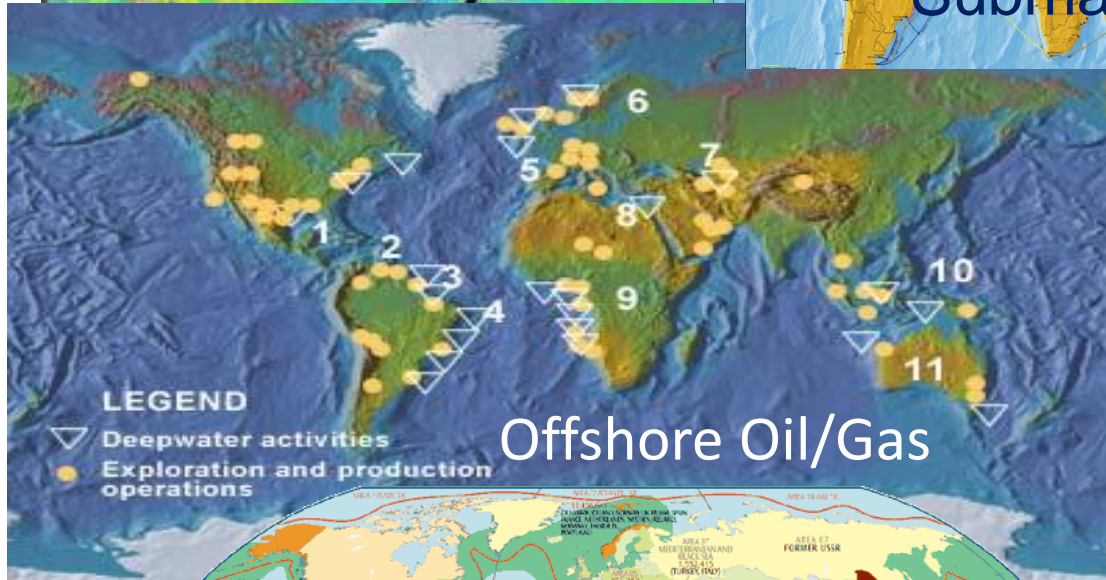
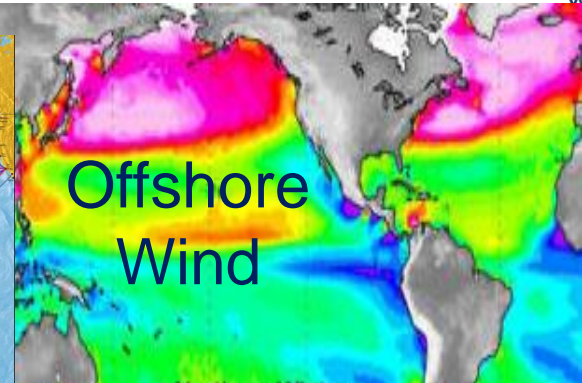
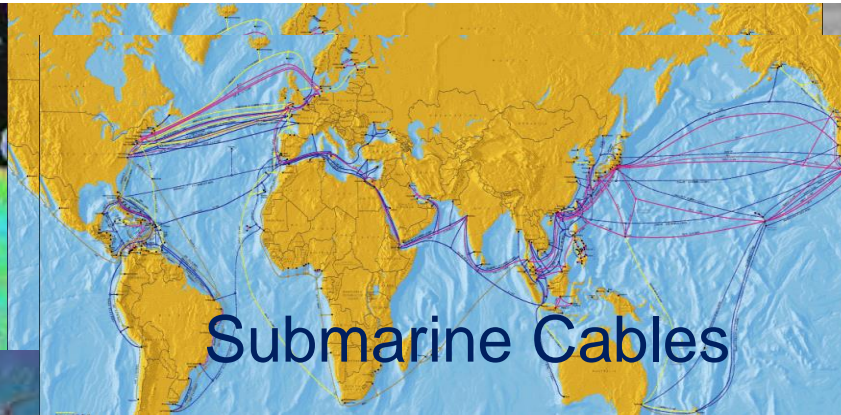
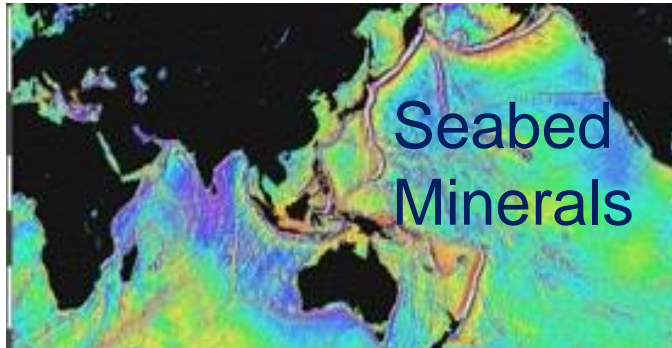
- Offshore oil and gas
- Shipping
- Mariculture/Aquaculture
- Mining / Seabed mining
- Fisheries
- Cruise and coastal tourism
- Dredging
- Submarine cables/pipelines
- Offshore wind energy
- Wave/tidal energy
- Ports/marinas
- Recreational boating/use
- Desalination
- Navy/military use
- Carbon sequestration

- Finance/Investment
- Insurance
- Maritime Legal

Expanding...

- Kinds of use
- Levels of activity
 - Duration
 - Intensity
 - Frequency
- Location of activity
 - Geographical Extent
 - Frequency

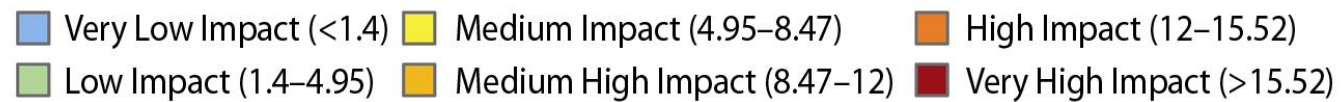
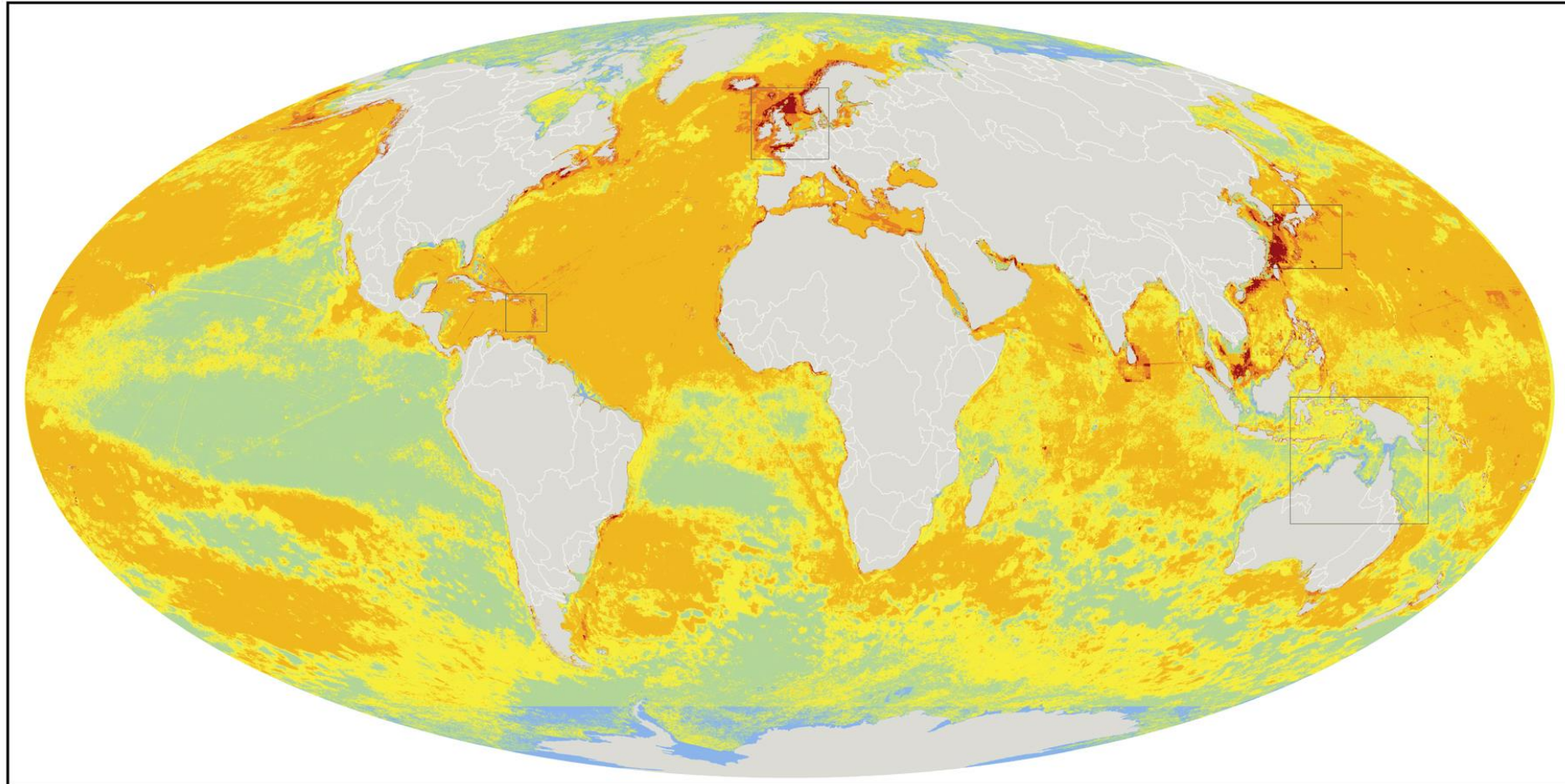
Ocean Industry Activity



Drivers: Ecosystem Impacts



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The Ocean Business Community Challenge

- Ocean industries require access and social license to use ocean space and resources
- Many of the **critical issues** creating impacts and affecting access and social license are **cross-cutting or cumulative**
- Sustaining ocean health and productivity requires **responsible use** and stewardship **by all users**
- Best **efforts by a single company**, or an entire industry sector, **are not enough** to secure ocean health
- Ocean **industries will benefit from collaboration** with other sectors to **create synergies** and **economies of scale** to address impacts and ensure access and social license
- Need structure/process for ocean industry leadership and collaboration

International, Cross-Sectoral BUSINESS Leadership Alliance

- **Bringing ocean industries together**, e.g. oil/gas, shipping, fisheries, aquaculture, tourism, offshore renewables, technology, investment, etc.
- **Catalyzing private sector leadership, collaboration and action in**
 - Advancing “Corporate Ocean Responsibility”
 - Communicating responsible ocean industry/economy
- 75+ members worldwide; 40,000+ in global network

Goal: Healthy, productive global ocean and its sustainable use and stewardship by responsible ocean business community

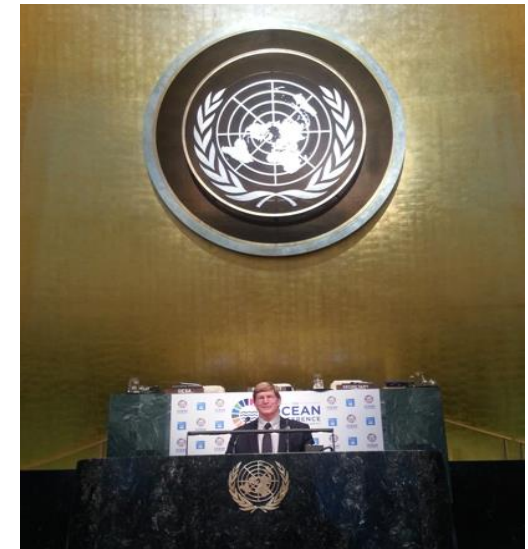
Creating business value for responsible companies

- Access and social license for responsible ocean use
- Synergies and economies of scale in addressing issues
- Stability and predictability in ocean operations

WOC Partnerships and Formal Recognition



- **UNESCO Intergovernmental Oceanographic Commission (IOC)** – MOU
- **UN Framework Convention on Climate Change (UNFCCC)** – Accredited to COPs
- **UN Division of Ocean Affairs and Law of the Sea (DOALOS)** – Close working partner
- **International Hydrographic Organization (IHO)** – Official Observer
- **International Seabed Authority (ISA)** – Accredited Observer
- **Convention on Biological Diversity (CBD)** – Accredited to SBSTTAs and COPs
- **International Whaling Commission (IWC)** – Accredited Observer
- **Group on Earth Observations (GEO)** – Accredited Partner
- **Ocean Climate Platform** – Member
- **International Standards Organization (ISO)** – Underwater Acoustics Sub-Committee Member
- **Int'l Chamber of Commerce (ICC), Global Business Alliance for Sustainable Dev't** – Member
 - and more...



Cross-Cutting Framework Areas for Leadership and Collaboration:

- Sustainable Development Goals (SDGs) for the Ocean Business Community
- Ocean Investment Platform
- Digital Ocean / Big Ocean Data / Ocean Cloud
- Young Ocean Professionals Network
- Sustainable Ocean Summit (SOS)
(WOC 6th SOS, Hong Kong, 14-16 Nov, 2018)
- Regional Ocean Leadership Groups
(WOC Asia Pacific Business Roundtable, Bangkok, 3-4 May, 2018)



WOC Action Areas in PEMSEA Region

- **Improving Ocean Governance, Policy and Planning**
 - UNCLOS/BBNJ, UNFCCC, SDGs, Convention on Biological Diversity ...
 - Marine Spatial Planning/Ocean zoning
- **Reducing Anthropogenic Impacts**
 - Biofouling/invasive species
 - Marine sound
 - Plastics/Port Reception Facilities
- **Conserving Marine Biodiversity**
 - Marine protected areas
- **Ensuring Food Security**
 - Sustainable fisheries/reduced IUU fishing
 - Sustainable aquaculture



WOC Action Areas in PEMSEA Region

- **Improving Ocean Knowledge**

- Smart Ocean / Smart Industries:

- Data from Industry Vessels/Platforms of Opportunity

- **Reducing Disaster Risk**

- Port/coastal infrastructure adaptation and resilience

- **Addressing Climate Change**

- Ocean NETs: Negative Emissions Technologies and the Ocean

- Ocean acidification

- **Advancing Energy Options from the Sea**

- Ocean renewable energy



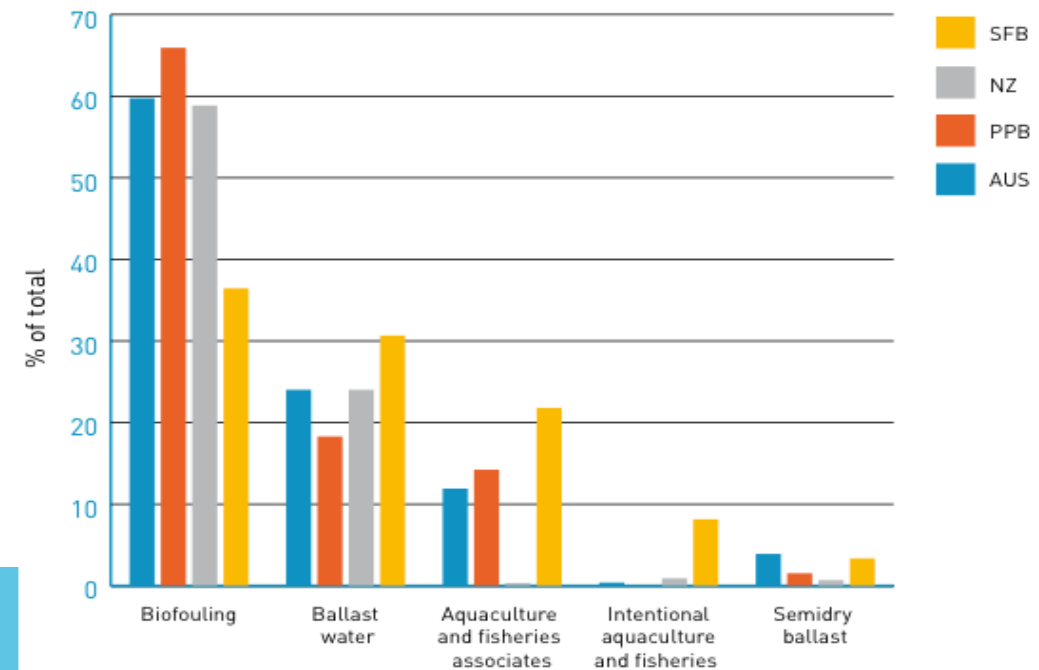
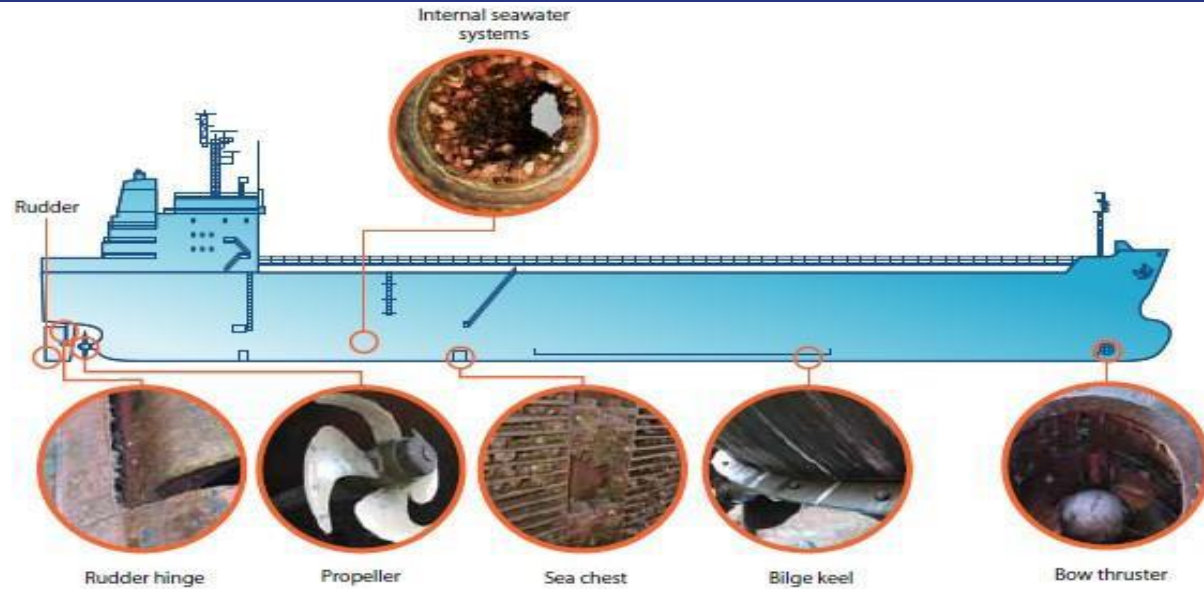
1) Addressing Biofouling/Invasive Species

Prevention

- Coatings
- Research and development
- Monitoring, data and metrics

Cleaning

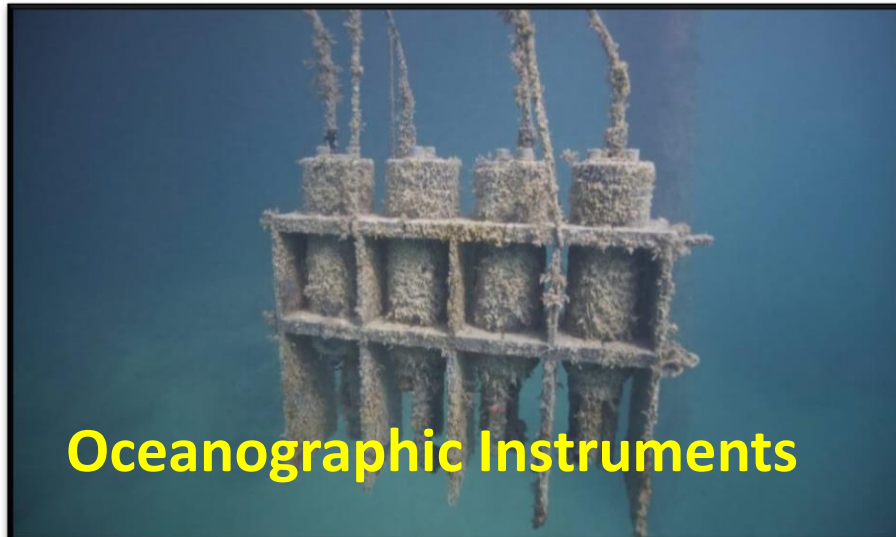
- New technologies emerging
- Testing and increasing use
- Monitoring, data and metrics



Multiple Vectors for Biofouling/Invasive Species



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Oceanographic Instruments



Recreational craft



Offshore Structures



Marine energy



Buoys



Marine Debris

GloFouling Partnerships Project



- GEF-UNDP-IMO project
- WOC as lead Private Sector Partner
- 12 countries, 7 regions, 5 years
- IMO 2011 Biofouling Guidelines
- Intervention at global, regional and national levels
- Significant industry participation
- 5 year project
- Expected project start date: late 2018



*Empowered lives.
Resilient nations.*



GEF-UNDP-IMO Glofouling Project



12 Lead Partnering Countries (LPCs)

Regional Organization Partners



GEF-UNDP-IMO Glofouling Project

Examples of activities developed by similar projects



GEF-UNDP-IMO Glofouling Project

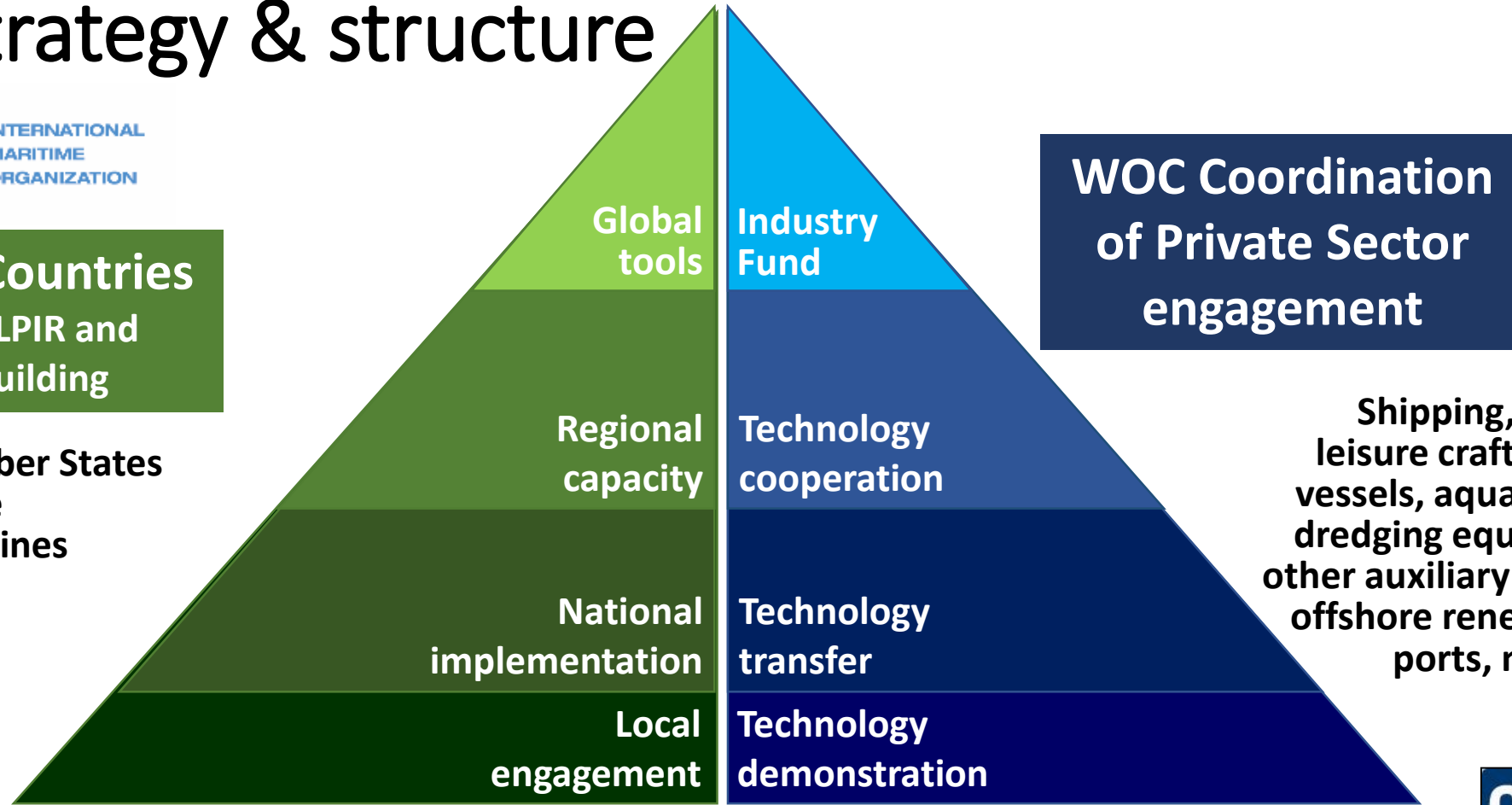
Project strategy & structure



Regions & Countries

Focused on LPIR and
capacity building

Supporting Member States
to implement the
Biofouling Guidelines



IMO “Glo-X Pyramid” Project Model



2) Improving Ocean Knowledge

“SMART Ocean - SMART Industries”

Ensure a **wide range of industry vessels and platforms** are:

- **Providing routine, sustained, standardized information** on the ocean and atmosphere
- Contributing to describing the **status, trends and variability** of oceanographic and atmospheric conditions
- **Improving the understanding, modeling and forecasting** of oceanic ecosystems, resources, weather, climate variability and climate change

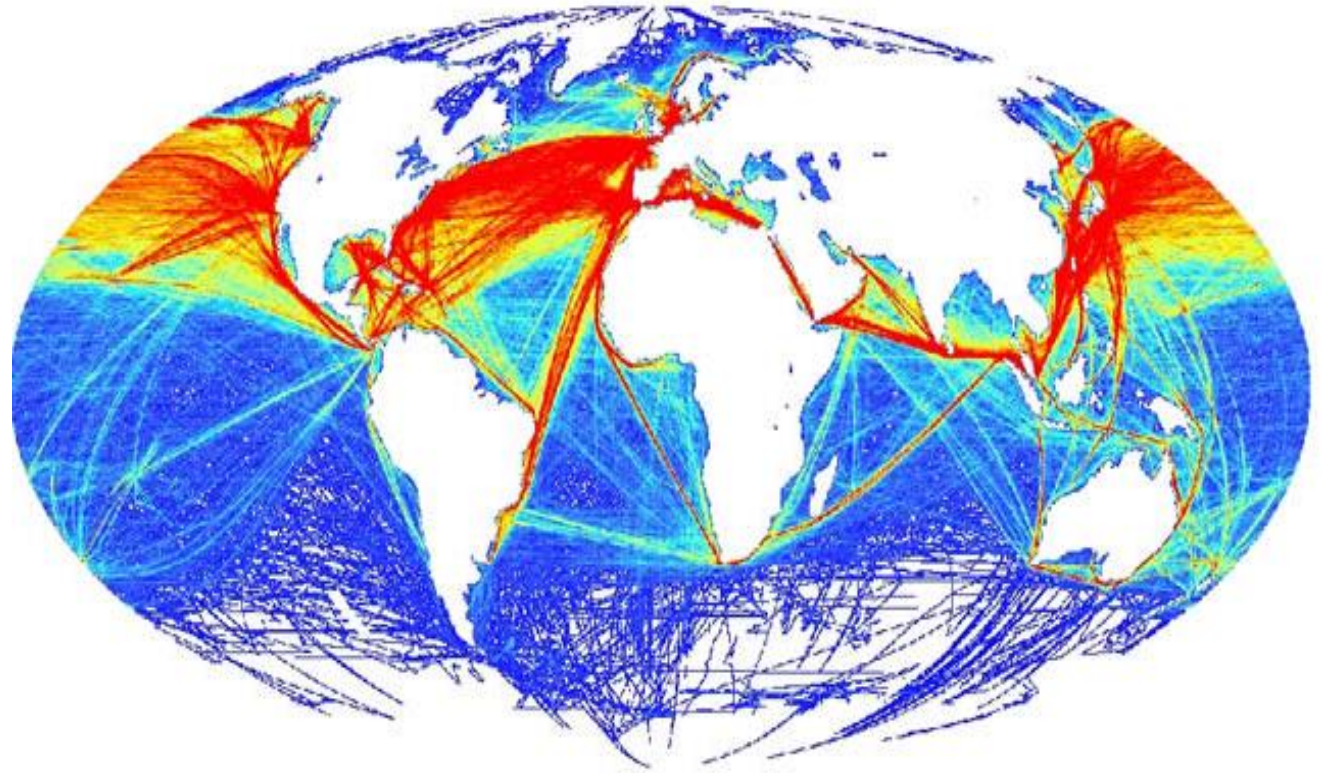
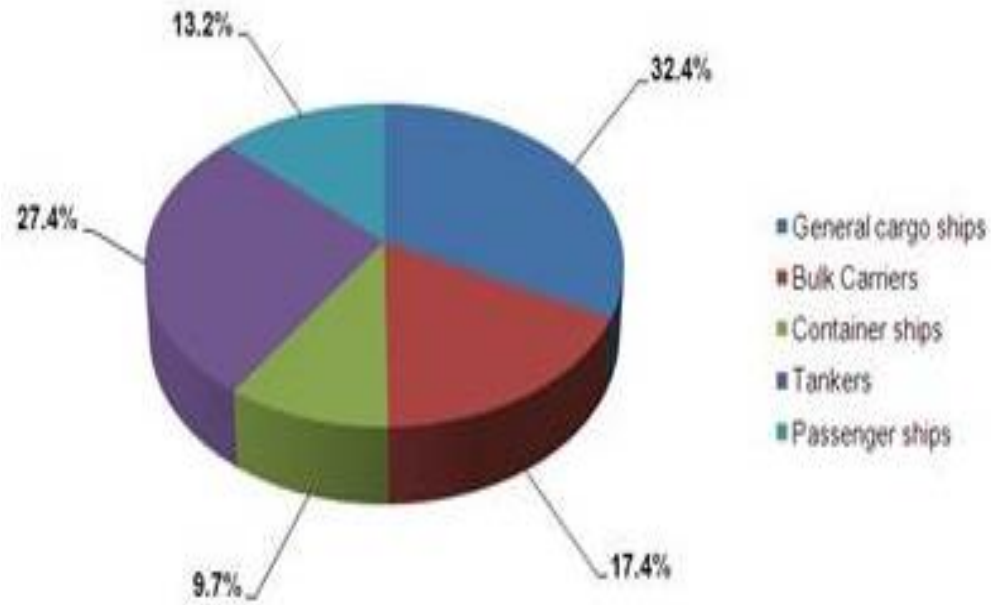
WOC SO-SI program working to:

- **Expand the number of vessels and platforms** that collect standardized ocean, weather and climate data
- **Improve the coordination and efficiency of data sharing** and input to national/international systems
- Build on “ships of opportunity” programs

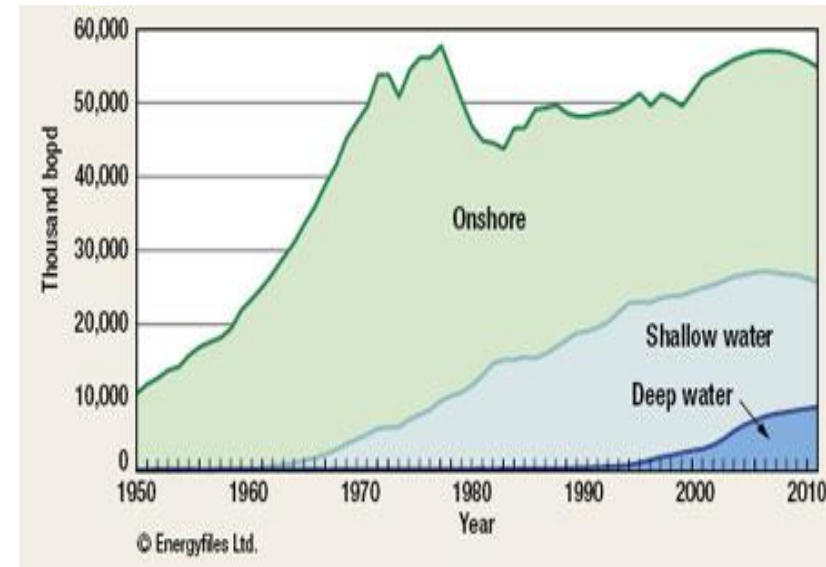
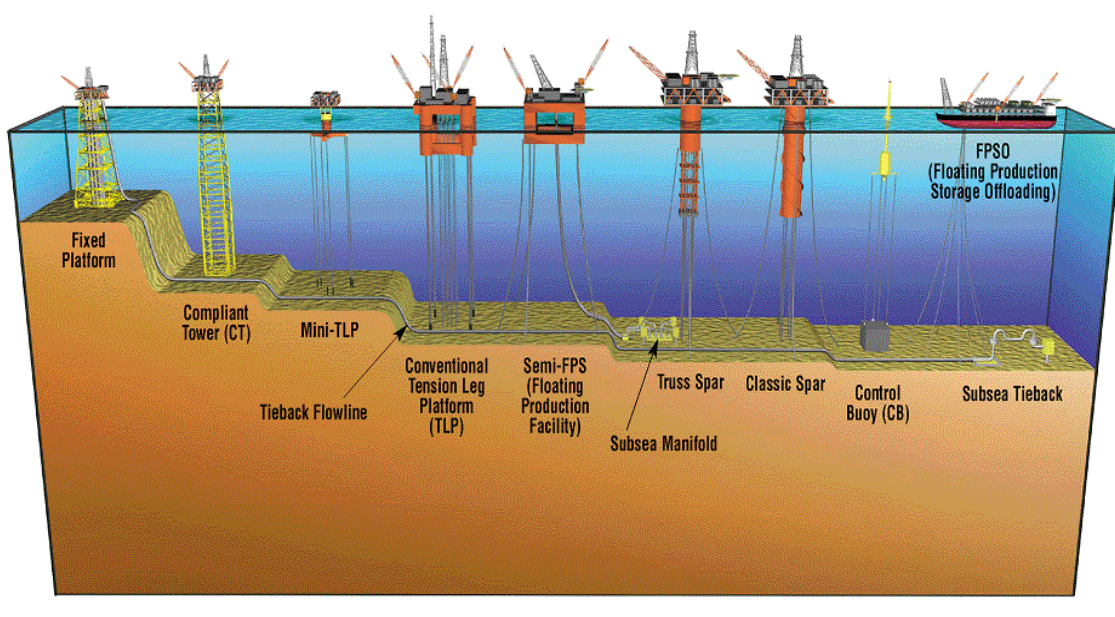
Opportunities of Ships

50,054 ships (Oct 2010)

- Tankers: 13,175
- Bulk Carriers: 8,687
- Container ships: 4,831
- Passenger ships: 6,597

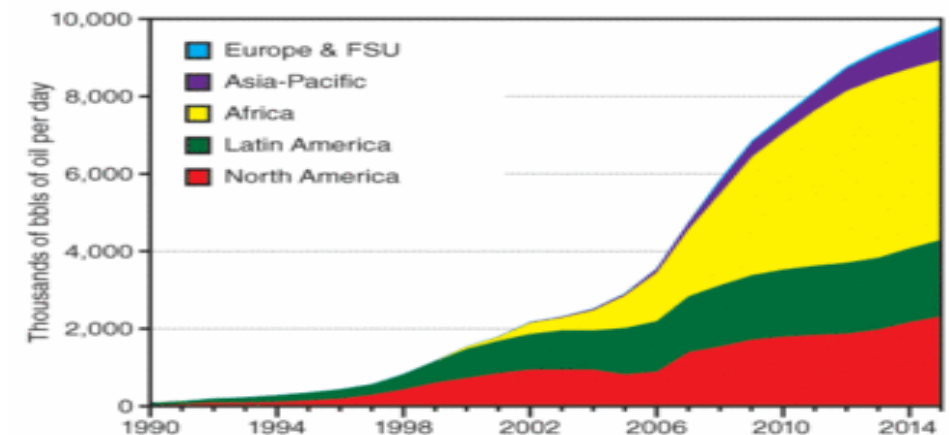


Opportunities in Offshore Oil and Gas



- Thousands of oil and gas platforms and vessels
- Currently offshore is about 30% of global hydrocarbon production
- 45% of recoverable oil is offshore
- By 2035, deep-sea oil and gas production will double

Offshore production: Deep water oil from 1990



Other Ship and Platform Opportunities

Submarine cables



Aquaculture



Ferries



Offshore wind energy



Wave/tidal energy

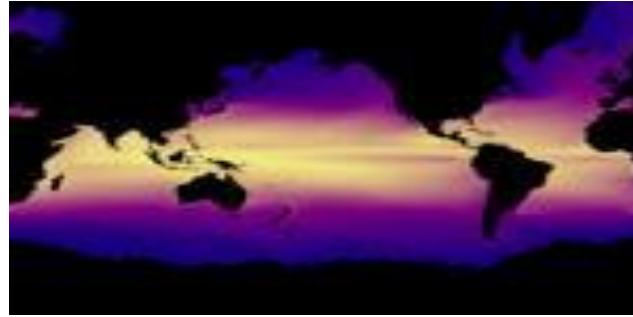


SMART Ocean-SMART Industries: How it works



WOC...

- Engages scientific institutions/organizations to identify:
 - Priority data collection needs and areas
 - Appropriate, cost-effective, ship-suitable technology
- Identifies and recruits companies:
 - With vessels/platforms operating in the priority areas
 - Interested/capable of hosting instruments
- Instigates and facilitates working relationship between the company and the scientific institution
- Monitors, coordinates and supports interaction between company and scientific institution
- Ensures industry data collection efforts are efficient, cost effective and contribute to national and international public science programs



WOC 7th Sustainable Ocean Summit (SOS)

Paris, 20-22 Nov 2019

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