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The International Business Alliance for Corporate Ocean Responsibility





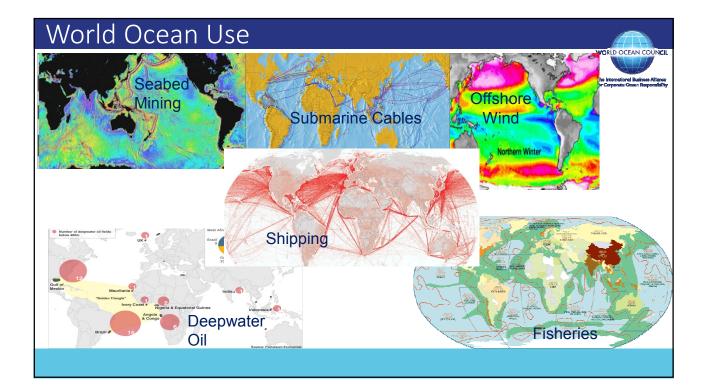
Growing Ocean Use		$\sim$	$\sim$ ·
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- Shipping
- Mariculture/Aquaculture
- Offshore oil and gas
- Mining / Seabed mining
- Fisheries
- Cruise and coastal tourism
- Dredging
- Submarine cables/pipelines
- Offshore wind energy
- Wave/tidal energy
- Ports/marinas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

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

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- Frequency
- Finance/Investment
- Insurance
- Maritime Legal



## 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
- <u>Need structure/process</u> for leadership and collaboration

#### World Ocean Council WORLD OCEAN COUNCIL International, Cross-Sectoral Business Leadership Alliance The International Business Alliance for Comparate Ocean Responsibility • Bringing ocean industries together, e.g. shipping, oil/gas, fisheries, aquaculture, tourism, offshore renewables, etc. • Catalyzing private sector leadership and collaboration collaboration in Advancing "Corporate Ocean Responsibility" Communicating responsible ocean industry/economy • 70+ members globally; 100's of actively engaged companies; 35,000+ in global network • Research, scientific and academic institution members as well **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

A.P. Moller-Maersk A/S	Heidmar, Inc.	Oldendorff Shipping GmbH & Co. KG	WORLD OCEAN COL
Agawa Partners	Helix Media	OLRAC SPS	
Almi Tankers S.A.	Hepburn BioCare	Orange Marine	The International Business / for Corporate Ocean Respo
Arctia Shipping	Holman Fenwick Willan LLP	Planet OS (formerly Marinexplore)	
ANCORS	HR Wallingford	Principle Power	
Aquarium de Paris - Cinéaqua	IHC Mining	Qikiqtaaluk Corporation	
Baird Publications	Inmarsat	Resolute Marine Energy	
BHM Penlaw	Int'l Ass'n of Geophysical Contractors (IAGC)	RightShip	
Blank Rome	Int'l Chamber of Shipping (ICS)	Royal Greenland A/S	
Cape Breton University	JASCO Applied Sciences	Sanford Limited	
CESI- Engineering & Environment Division	L3 MariPro	Scottish Marine Institute (SAMS)	
China Navigation Company/Swire Pacific Offshore	Liquid Robotics	Southall Environmental Associates (SEA)	
Class NK	Lloyd's Register	Stena Bulk AB	
Cruise Lines International Association (CLIA)	Louisbourg Seafoods	SubCtech GmbH	
CSA Ocean Sciences Inc.	Marine Acoustics, Inc.	Sunburst Sensors	
DHI	Marine Assets Corporation	Tai Chong Cheang (TCC) Steamship Co. HK	
exactEarth	Maritime Executive	Technip	
ESRI	Memorial University – Marine Institute	Thordon Bearings Inc.	
FCG ANZDEC	Mitsubishi Heavy Industries	TierraMar Consulting	
FOB	Nautical Institute	Twin Dolphins	
Global Ocean Consulting, LLC	Nautilus Minerals, Inc.	University of Texas Marine Science Inst	
Gulf Agency Company Ltd (GAC)	N America Marine Envi't Protection Ass'n	Vieira de Almeida & Associates (VdA)	
Heerema Marine Contractors Nederland SE	Ocean Nourishment	Windward Ltd.	
		Woodside Energy	

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### WOC Partnerships and Formal Recognition

- UNESCO Intergovernmental Oceanographic Commission (IOC) MOU
- International Hydrographic Organization (IHO) Official Observer
- Group on Earth Observations (GEO) Accredited Partner
- International Seabed Authority (ISA) Accredited Observer
- Convention on Biological Diversity (CBD) Accredited to attend SBSTTAs and COPs
- International Whaling Commission (IWC) Accredited Observer
- UN Framework Convention on Climate Change (UNFCC) Accredited to attend COPs
- International Standards Organization (ISO) Underwater acoustics Sub-Committee
- Global Business Alliance for Sustainable Dev't of Int'l Chamber of Commerce (ICC) Member
- Ocean Climate Platform Accredited Partner
- China Belt and Road Network Partner



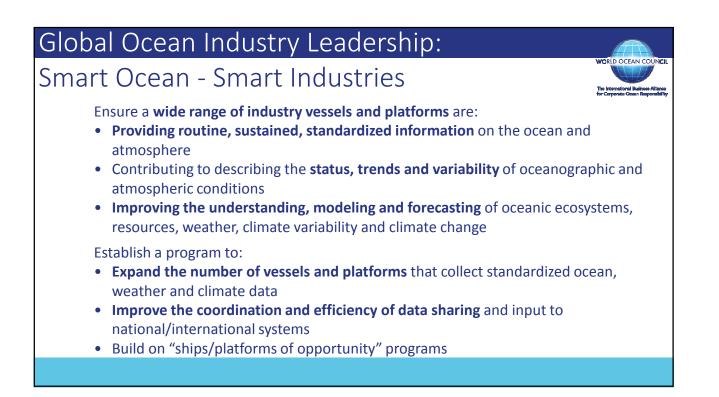
WOC Program and Theme Areas	
• Improving Ocean Knowledge	WORLD OCEAN COUNCIL The International Businese Alliance for Carponate Gaun Responsibility
- Smart Ocean / Smart Industries:	
Data from Industry Vessels/Platforms of Opportunity	
• Food Security	
<ul> <li>Sustainable fisheries/reduced IUU fishing</li> </ul>	
- Sustainable aquaculture	
Disaster Risk Reduction	
<ul> <li>Port/coastal infrastructure adaptation and resilience</li> </ul>	
Energy Decarbonization	
- Ocean renewable energy	

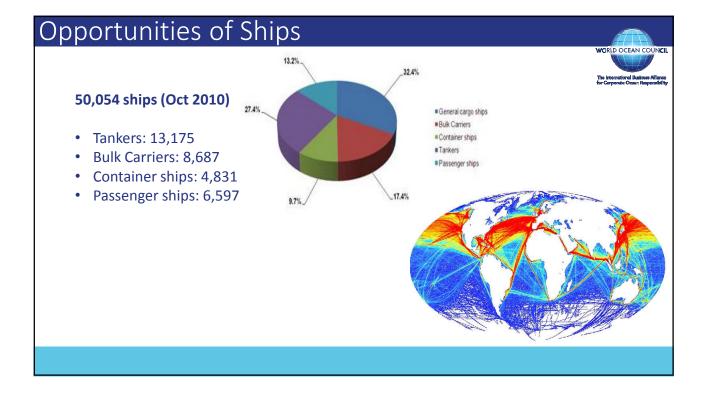
# WOC Program and Theme Areas (cont.)

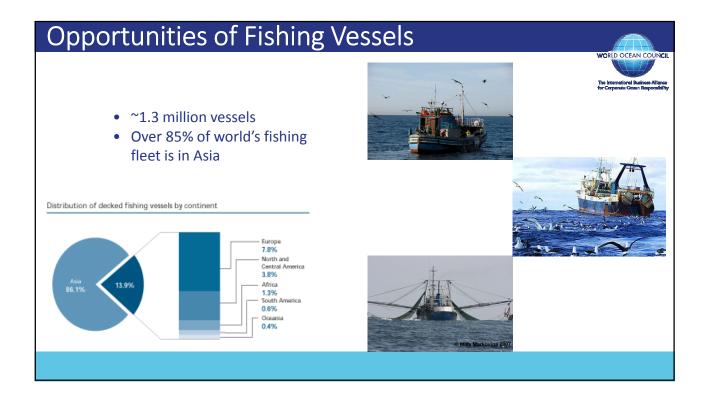
- Marine Pollution Reduction
  - Plastics/Port Reception Facilities
  - Biofouling/invasive species, Marine sound
- Marine Biodiversity Conservation
  - Marine protected areas
- Ocean Governance, Policy and Planning
  - UNCLOS/BBNJ, Convention on Biological Diversity ...
  - Marine Spatial Planning, Ocean zoning
- Climate Change
  - Ocean acidification

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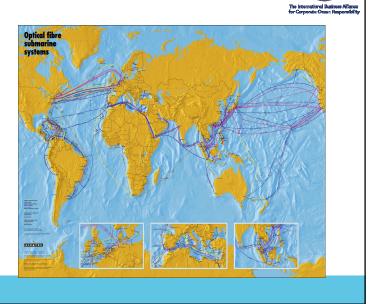




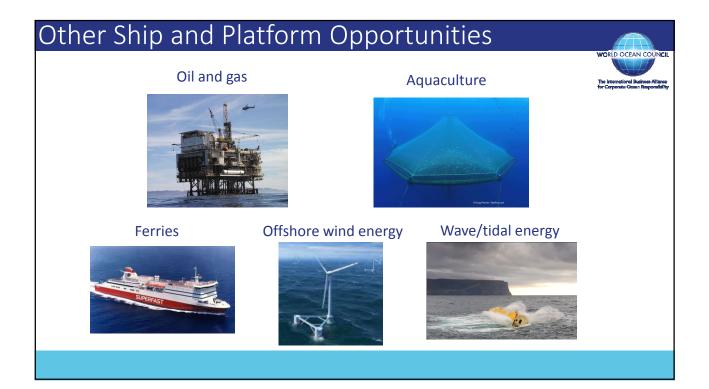
# **Opportunities of Submarine Cables**

- More than 1 million km of telecom cables
- Subsea power cables increasing for grids, platforms and renewables





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## International Ship/Platform Data Collection

#### Comprehensive

- Incorporates needs and opportunities from different industries
- Addresses ocean, weather and climate data needs

#### Scaleable

- Within industries
- Across industries
- Upgradeable over time

#### **Entry Options**

- Retrofit existing vessels and platforms
- New builds

#### **Cost-Efficient**

- Synergies within and between industries
- Economies of scale

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### Smart Ocean-Smart Industries: How it works

#### WOC...

• Engages scientific institutions 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/depoying instruments or hosting scientists
- 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

## Smart Ocean-Smart Industries: Next Steps

- Develop pilot projects to put "Smart Ocean-Smart Industries" to work
  - Country or company level focus, e.g. fleet level
  - Regional, e.g. Arctic
  - Parameters, e.g. ocean acidity, bathymetry
  - Extreme weather or ocean events, e.g. tsunamis
- Define value proposition / rationale for industry and science
- Inventory existing ships / platforms of opportunity programs
- Define the "menu of options" for voluntary observations
- Define interface requirements for platforms / payload
- Develop the principles, practice and platform for industry data sharing and access
- Increase investment on ocean observations technology through the WOC Ocean Investment Platform

