AQUACROSS
Achieving Impact in Business

SUSTAINABLE OCEAN SUMMIT

"The Ocean Sustainable Development Goal (SDG 14): Business Leadership and Business Opportunities"

29 November - 1 December 2017 / Halifax, Canada

Christine Valentin, COO

World Ocean Council

Christine.valentin@oceancouncil.org

What is Ocean Economic Activity Worth?

WORLD OCEAN COUNCIL

The International Business Alliance
for Corporate Ocean Responsibility

- **Est. $ 4+ trillion/year ocean economic activity**
- **Ocean is critical to economic development**
- **Ocean business community is the primary ocean user**
- US: $ 282 billion/yr, 2.8 million jobs
- China: 9.4% of GDP, 35.5 million jobs
- Ireland: € 3.4 billion/yr ocean economy
- Pacific SIDS: $ 3.3 billion/yr for fisheries/tourism

Growing Ocean Use

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

- Offshore oil and gas
- Shipping
- Mining / Seabed mining
- Fisheries
- Aquaculture
- 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
  - Frequency

Who is Ocean Business Community ?

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

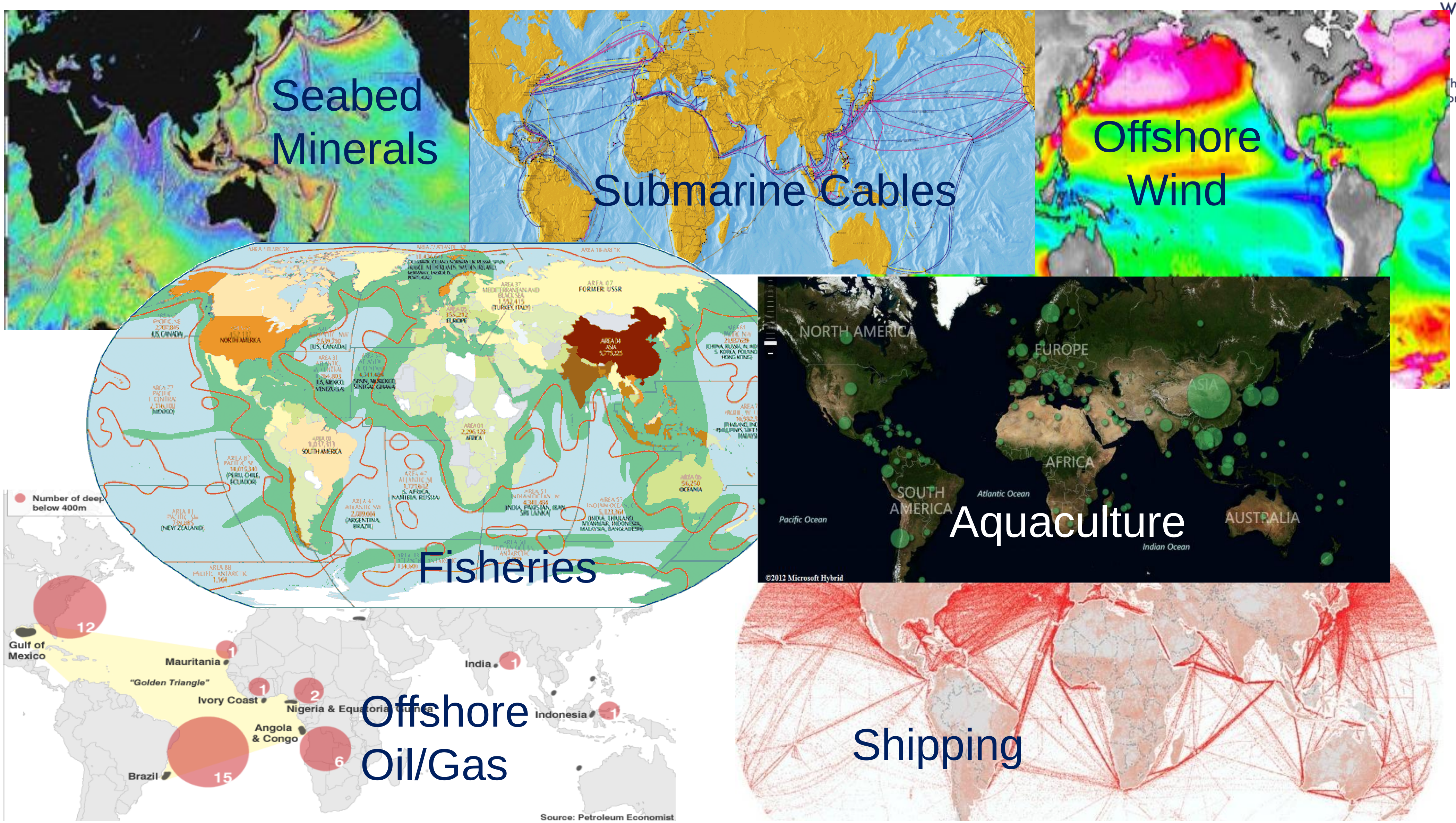
1. Direct Ocean Users
   - Industries that depend on the ocean for the extraction or production of goods (living, non-living, energy) and the provision of services (transport, tourism, etc.)

2. Ocean User Support Industries
   - Industries that depend on direct users for their existence (e.g. shipbuilders) or drive ocean industry growth (e.g. extractors, manufacturers, retailers that transport materials or products by sea)

3. Essential Ocean Use “Infrastructure”
   - Insurance, finance, legal and other essential services that enable ocean industries to operate

World Ocean Use

WORLD OCEAN COUNCIL



SHIPPING

WORLD OCEAN COUNCIL

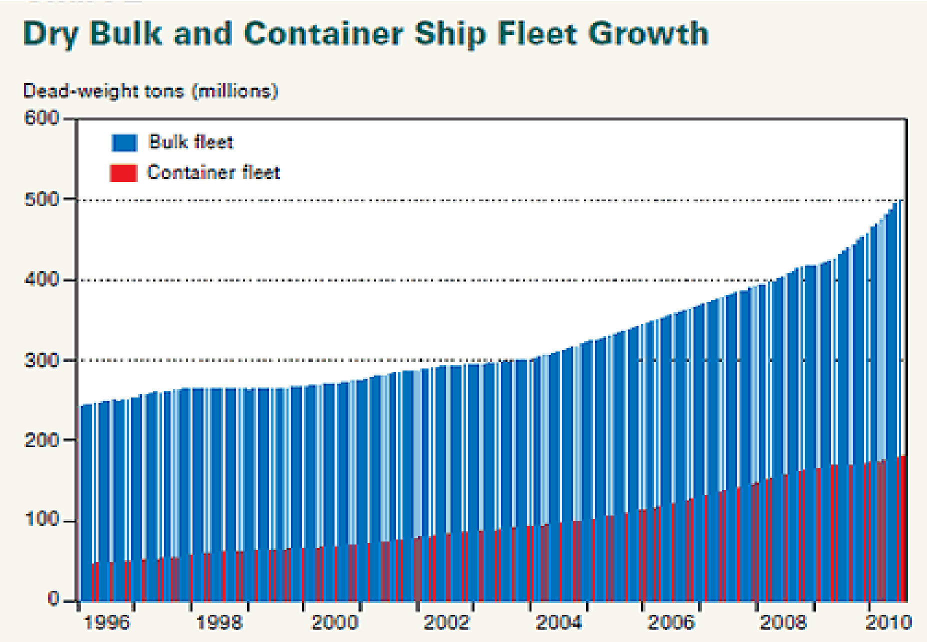
The International Business Alliance for Corporate Ocean Responsibility

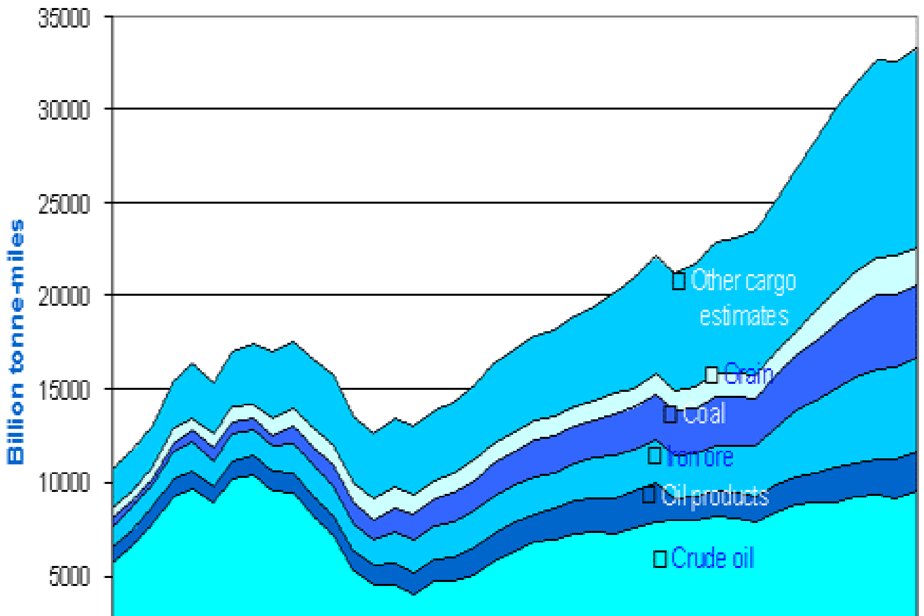
- **90% of global trade**
- **Container shipping increase by 10% / year since 1985**

50,054 ships (2010)

- Bulk carriers, container ships, tankers, passenger ships

World seaborne trade 1969-2010



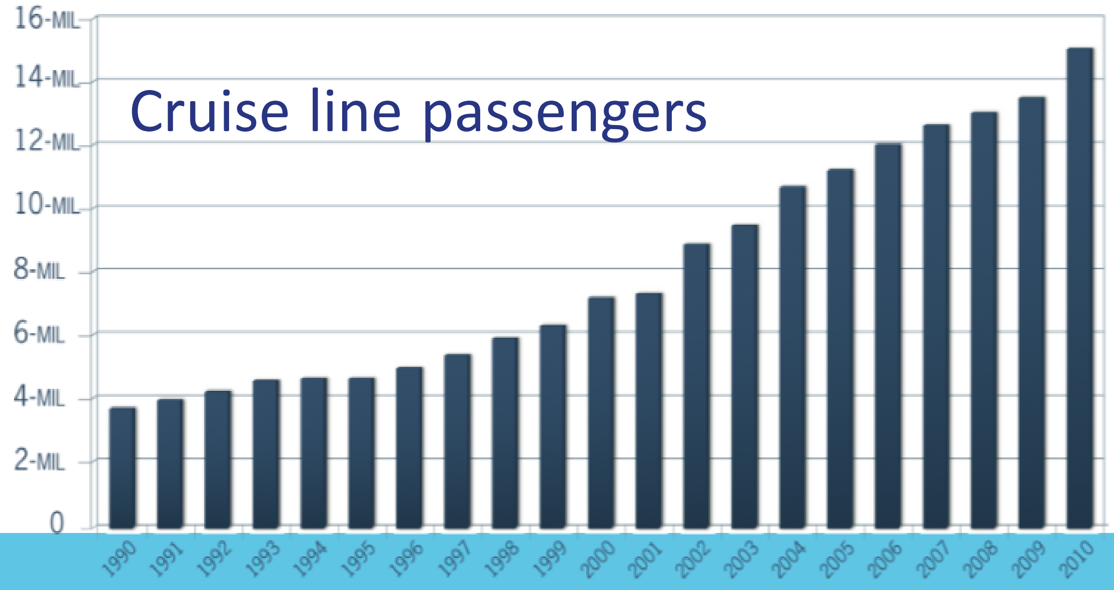


CRUISE LINE TOURISM

WORLD OCEAN COUNCIL

The International Business Alliance
for Corporate Ocean Responsibility

- **14 million passengers in 2010**
- **Growing at 8.5% per year over the next decade**
- Global fleet: 341 ships (92 megaships, > 2000 berths)
- 53 ships built in last 5 years (40 megaships)
- Europe: up 12% from 2009, now 33% of global market
- Asia: up 10-40% from 2009 in various countries
- New destinations: Africa, Australia, Indonesia, Arctic

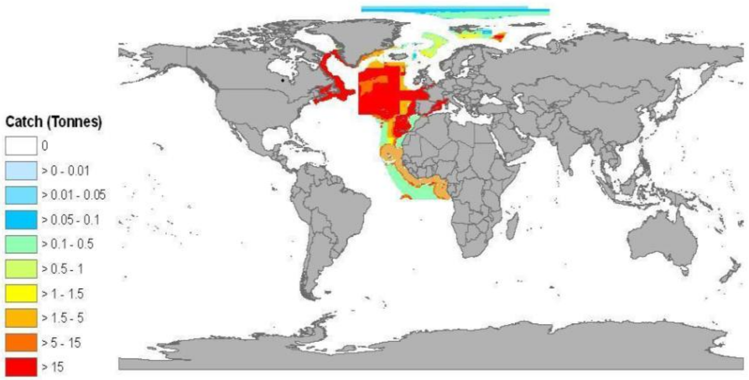


FISHERIES

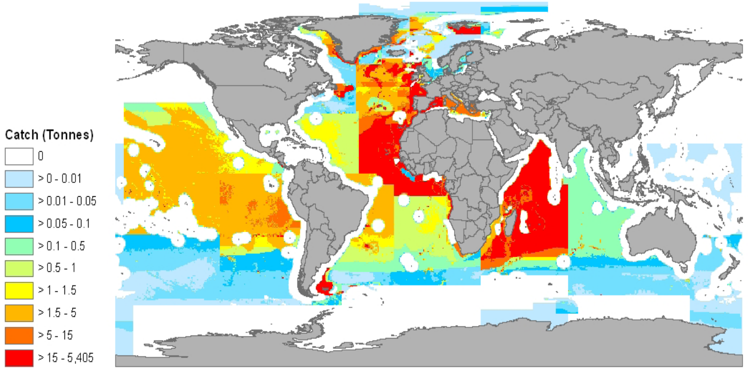
WORLD OCEAN COUNCIL

The International Business Alliance for Corporate Ocean Responsibility

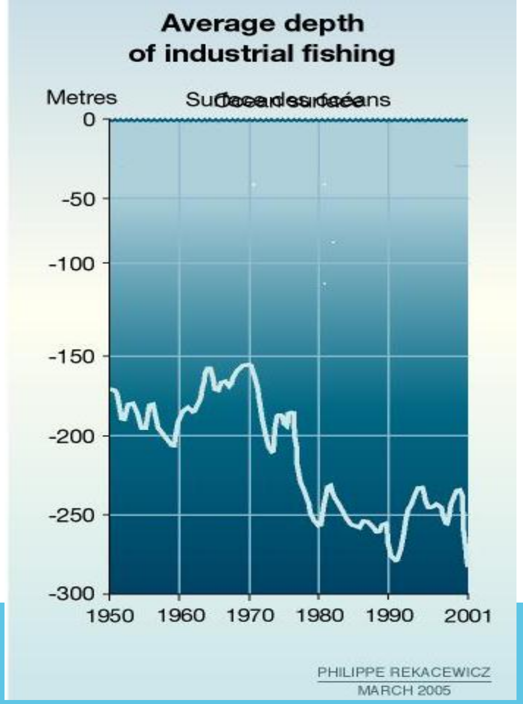
Average catch areas: 1950s



Average catch areas: 2000s

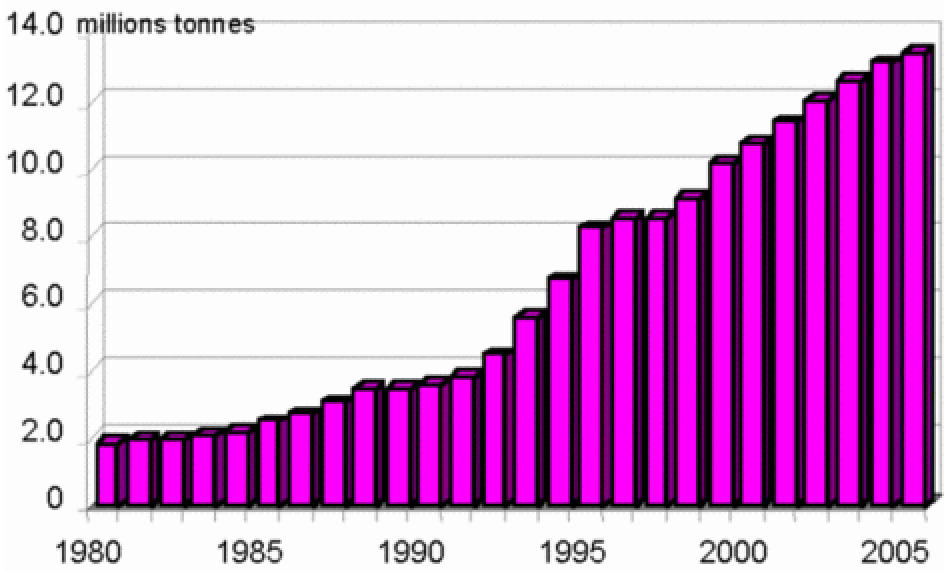


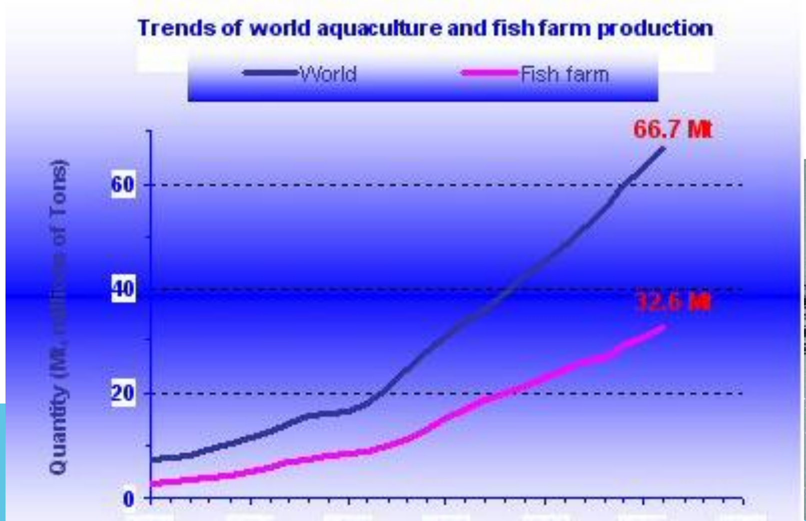
- **80 million tons (2008)**
- **$ 80 billion value**
- **35 million directly linked jobs**
- **Livelihoods for 300 million**
- Further offshore, deeper



AQUACULTURE

WORLD OCEAN COUNCIL
The International Business Alliance
for Corporate Ocean Responsibility

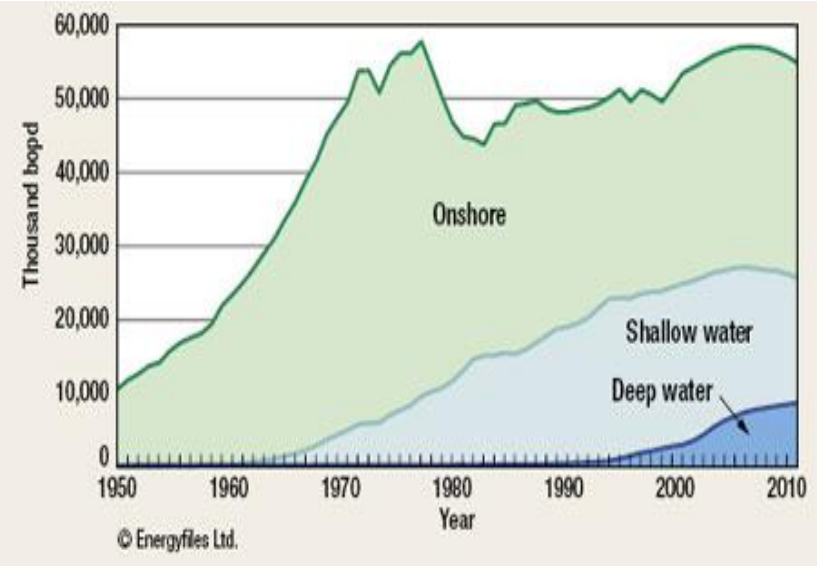


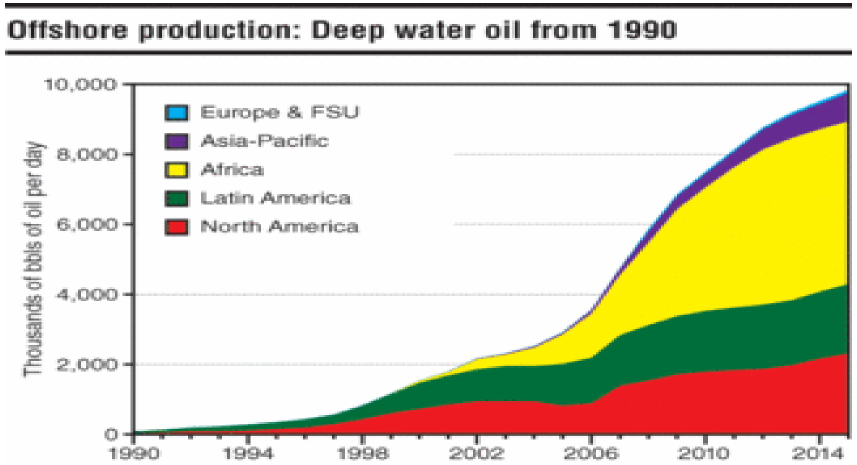


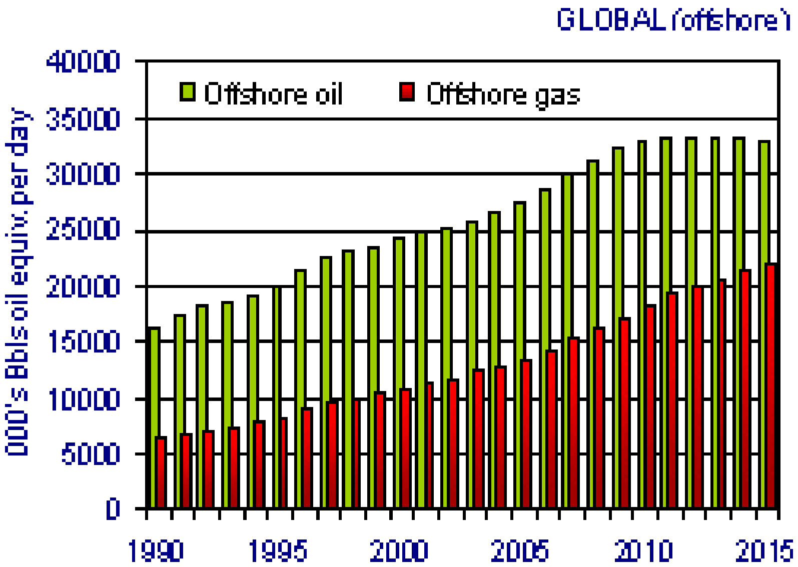
- **Fastest growing food production system**
- **7.5%/year growth over past twenty years**
- **By 2030, 65% of fish protein**
- Further offshore, deeper
- By 2050, 30 Mt/year of extra aquatic products required to feed the planet

OFFSHORE OIL AND GAS

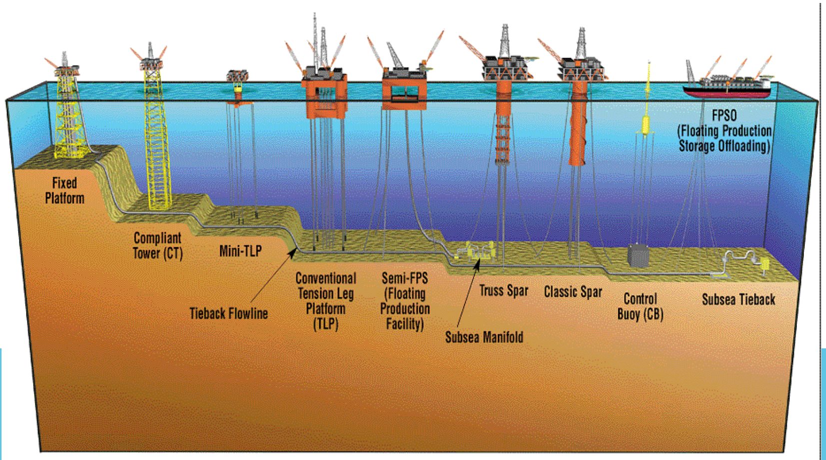
WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility





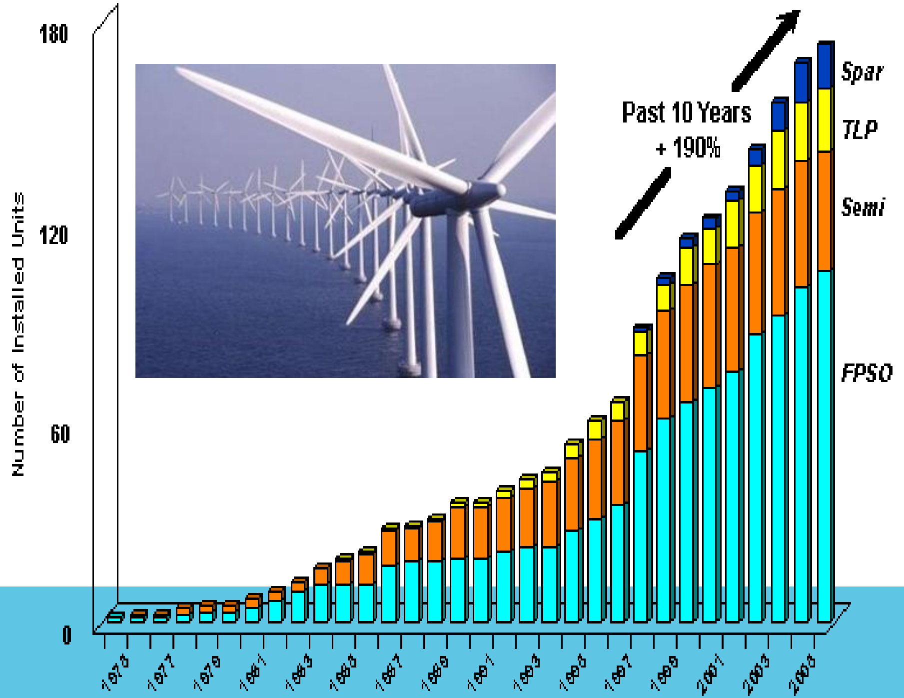


- Currently, 32% of global hydrocarbon production
- 45% of recoverable oil is offshore
- By 2035, deep-sea oil and gas production will double

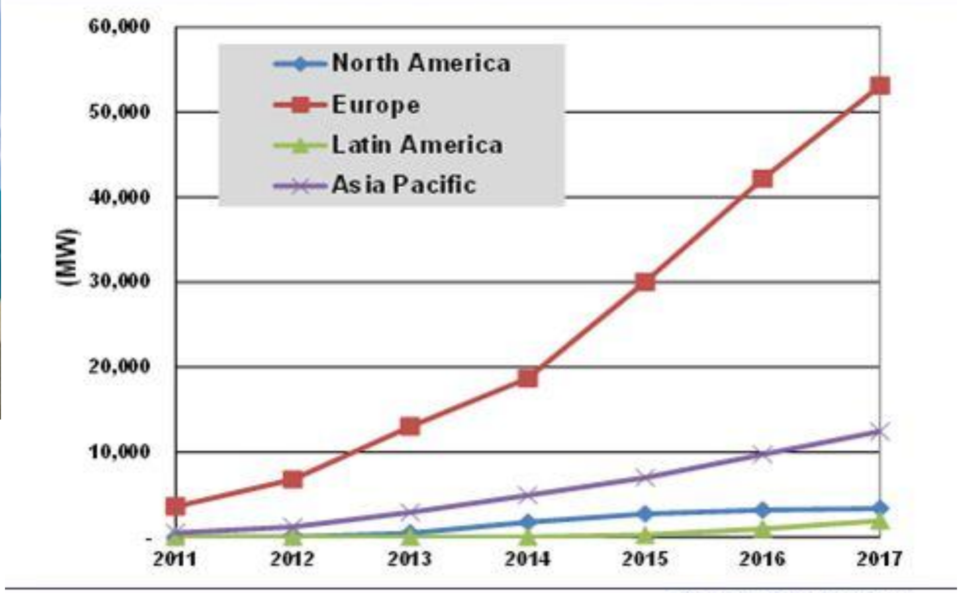


OFFSHORE WIND ENERGY

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility



Offshore Wind Installed Capacity, Base Scenario, World Markets: 2011-2017



(Source: Pike Research)

- **2010 growth rate of 59%**
- **Offshore farms in 12 countries**

By 2020 Europe will need:

- 20 turbine installation ships
- 200-300 support vessels

OCEAN ENERGY

WORLD OCEAN COUNCIL

The International Business Alliance for Corporate Ocean Responsibility

Ocean energy potential

- **Wave: 45,000 TWh/year**
- **Tidal: 1,800 TWh/year**
- **Thermal: 33,000 TWh/year**
- **Salinity gradient: 20,000 TWh/year**

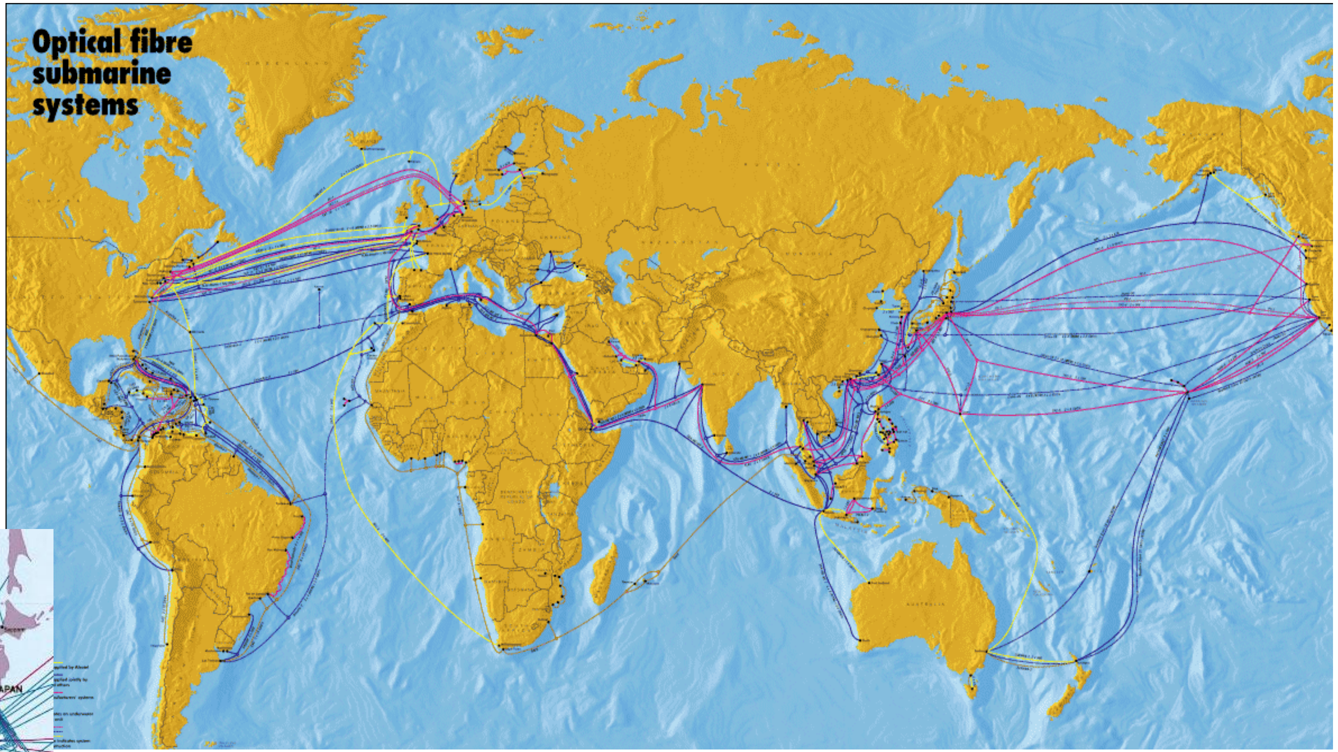
EU

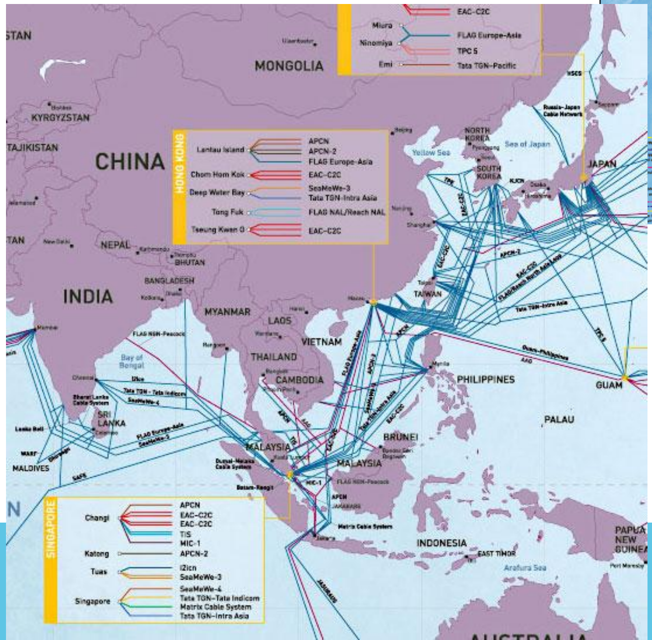
- By 2020, 1% of E demand
- By 2050, 15% of E demand (188 GW)

SUBMARINE TELECOM CABLES

- More than 1 million km of cables

- 98% of international internet traffic



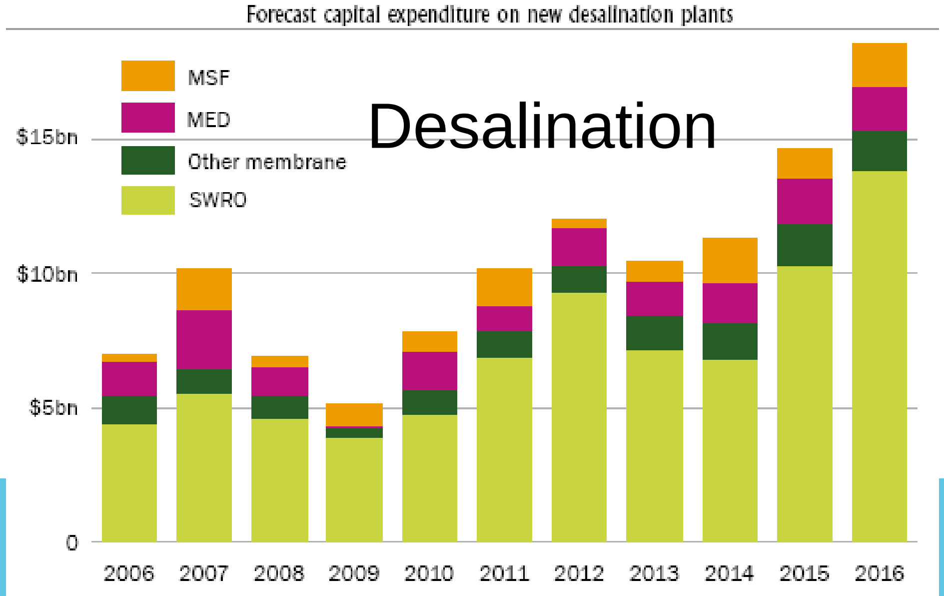


COASTAL CONSTRUCTION;

Ports: new, expansion, improvement, deepwater, offshore
Coastal: Piers/jetties, shoreline protection
Dredging: extraction, maintenance, landfill, reclamation

Desalination:

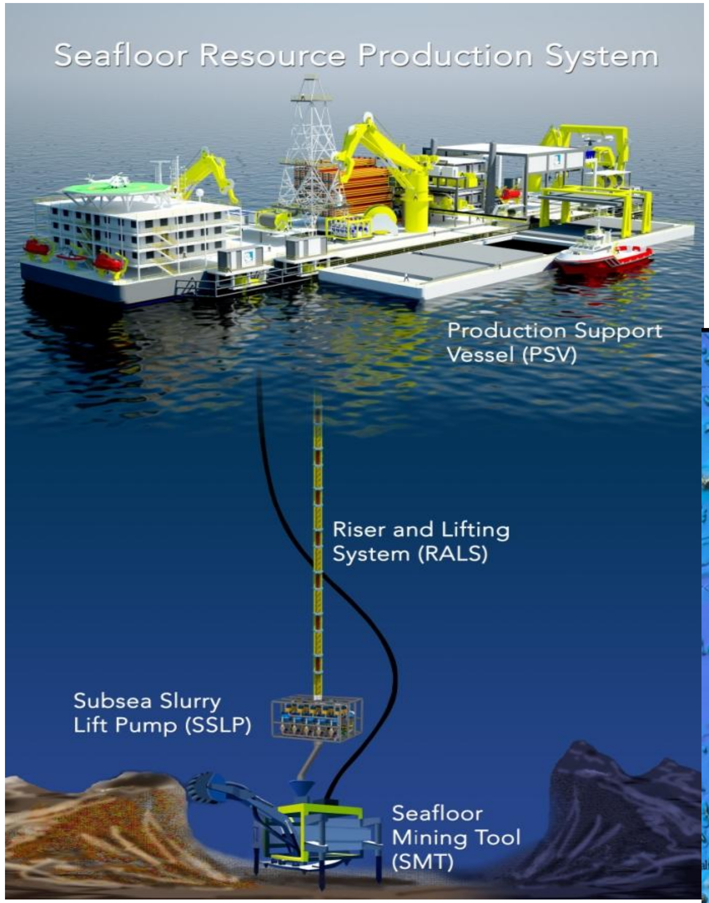
- Doubling every twenty years
- By 2025 demand is expected to exceed supply by 56%



SEABED MINING

WORLD OCEAN COUNCIL

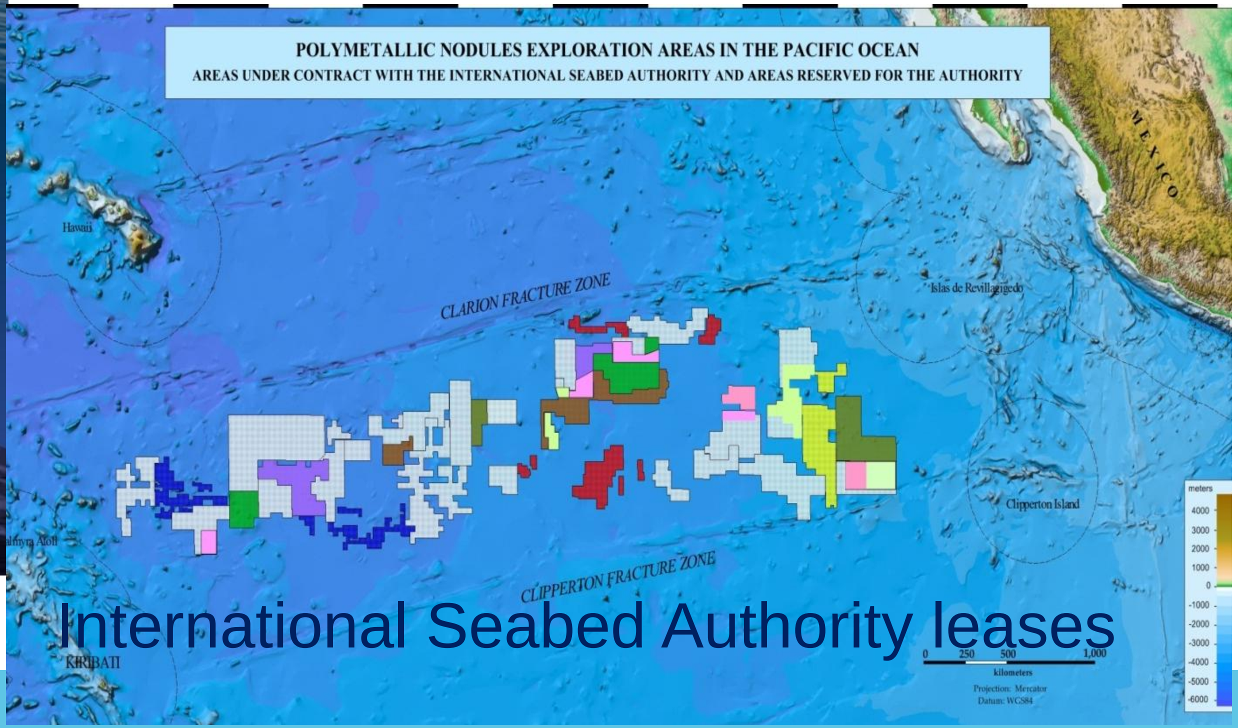
The International Business Alliance for Corporate Ocean Responsibility



By 2020, 5% of world's minerals

By 2030:

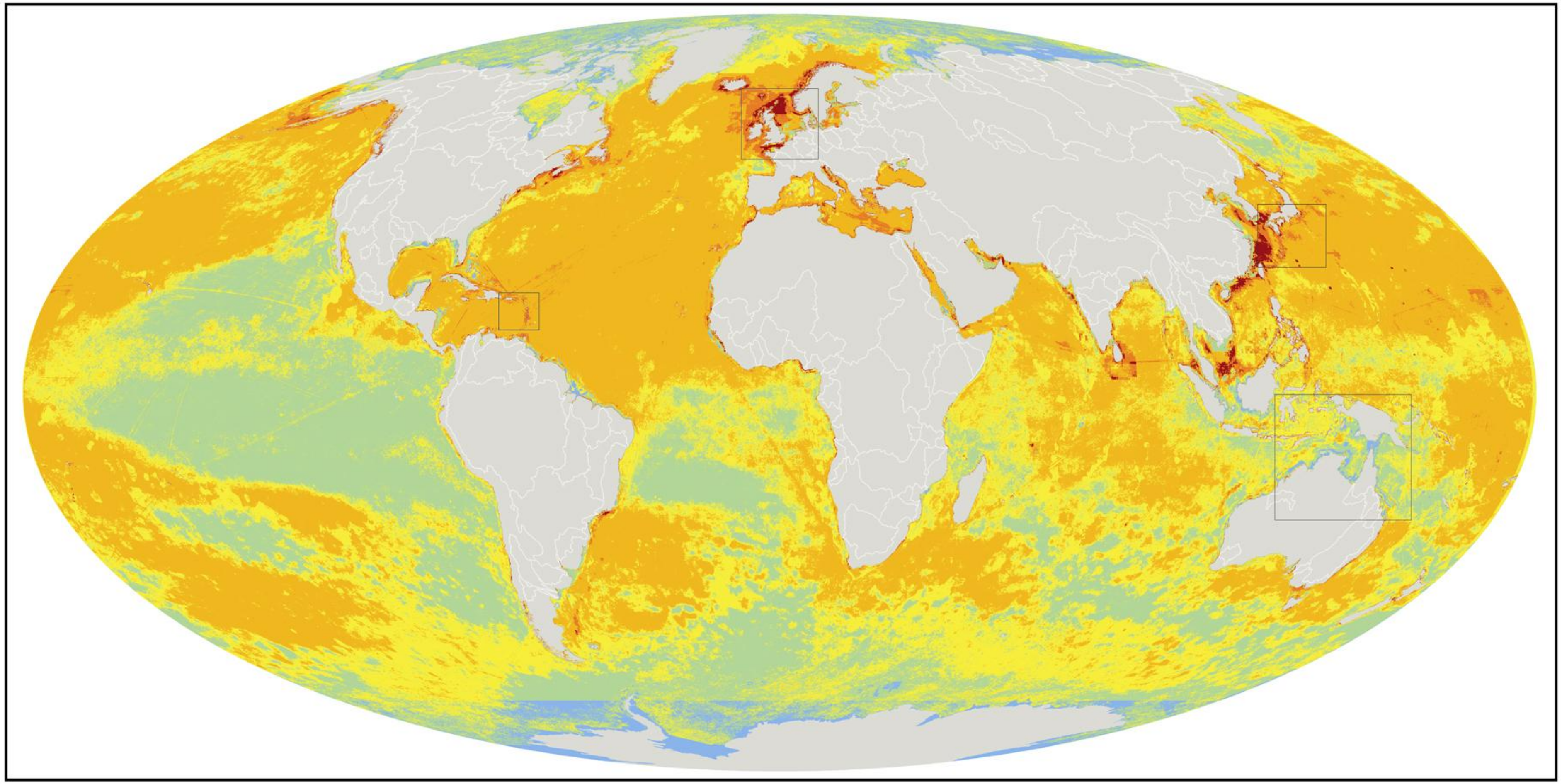
- **10% of world's minerals**
- **$12 billion in economic value**



International Seabed Authority leases

World Ocean Impacts

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility



Very Low Impact (<1.4)
Low Impact (1.4–4.95)
Medium Impact (4.95–8.47)
Medium High Impact (8.47–12)
High Impact (12–15.52)
Very High Impact (>15.52)

The Ocean Business Community Challenge

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

- **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 leadership and collaboration**

World Ocean Council

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

International, Cross-Sectoral Business Leadership Alliance

- Bringing ocean industries together, e.g. shipping, oil/gas, fisheries, aquaculture, tourism, offshore renewables, etc.
- **Catalyzing private sector leadership and collaboration in "Corporate Ocean Responsibility"**
- 80+ members worldwide; 35,000+ in global network

Goal: Healthy, productive 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: Global Cross Sector Platforms

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

Major Cross-Cutting Framework Areas:

- Sustainable Development Goals (SDGs) for the Ocean Business Community
- Ocean Investment Platform
- Young Ocean Professionals Network
- Sustainable Ocean Summit
- Regional Business Councils

Ocean Industry Leadership Priorities

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

Ocean Policy and Governance

UNCOS/BBNJ; Convention on Biological Diversity, etc.

Marine Spatial Planning / Ocean Zoning

Operational Environmental Issues

Sound and Marine Life; Marine Mammal / Vessel Interactions
Port Reception Facilities; Biofouling / Invasive Species

Smart Ocean / Smart Industries

Data from Industry Vessels/Platforms of Opportunity

Sea Level Rise / Extreme Weather Events

Port/coastal infrastructure adaptation and resiliency

Smart Ocean / Smart Industries

WORLD OCEAN COUNCIL
The International Business Alliance for Corporate Ocean Responsibility

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

Establish a program 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/platforms of opportunity" programs

Challenges

- ✓ **Lack of knowledge seen as significant barrier to efficient and intelligent preventive business practices: modelling, multisector collaboration and cooperation between industry and science is key to establishing these practices**

- ✓ **Business community likes to be with peers: examples from SOS**
  - ✓ **industry collaboration (green shipping association sessions)**
  - ✓ **maritime clusters**

- ✓ **Need for more science to enable and accept a science based approach**

- ✓ **Need for coherent policies in a wholistic manner: e.g. biodiversity in BBNJ negociations and biodiversity for EU EEZ's**

Opportunities for Engagement

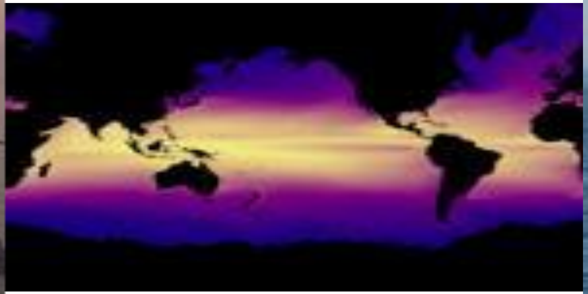
WORLD OCEAN COUNCIL

The International Business Alliance for Corporate Ocean Responsibility

- ✓ **Development of a knowledge center for business: website, webinars**
- ✓ **Ecosystem based Management at a regional level: Regional Business Councils model**
- ✓ **Mitigation approach on biodiversity well understood: (includes offsets)**
- ✓ **SDG's as a conduit to define targets and indicators in terms of EBM and Conservation**
- ✓ **Presentations at SOS conferences on projects and approaches**

WORLD OCEAN COUNCIL

The International Business Alliance
for Corporate Ocean Responsibility



SUSTAINABLE OCEAN SUMMIT

"The Ocean Sustainable Development Goal (SDG 14): Business Leadership and Business Opportunities"

WORLD OCEAN COUNCIL

The International Business Alliance
for Corporate Ocean Responsibility

29 November - 1 December 2017 / **Halifax,** Canada