# World Ocean Council
# Smart Oceans/Smart Industries Program

**Leslie-Ann McGee**
**World Ocean Council**
**LA.McGee@oceancouncil.org**
**www.oceancouncil.org**

# World Ocean Council

*International, Cross-Sectoral Business Leadership Alliance*
A healthy and productive global ocean and its sustainable use, development and stewardship by a responsible ocean business community

- Bringing ocean industries together
- Catalyzing leadership and collaboration in addressing ocean sustainability

# World Ocean Council

Creating business value for responsible companies

Access and social license for responsible ocean use

Synergies and economies of scale addressing issues

Stability and predictability in ocean operations

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# Ocean Business Community

Direct Ocean Users

Ocean User Support Industries

Ocean Use Infrastructure Providers

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# WOC Programs & Strategies

- Coordinate proactive industry input key ocean policy processes

- Develop informed, coordinated, proactive industry input to marine spatial planning

- Catalyze collaboration on science-based solutions to shared issues

- Create cross-sectoral ocean industry councils in key regions

- Improve ocean understanding through industry involvement in ocean science, observations, data sharing

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# WOC Smart Oceans / Smart Industries Program Goals

Expand
- Number of vessels and platform collecting
- Standardized ocean, weather and climate data

Coordination
- Improve data sharing
- Make input more efficient to national/intnl systems

Opportunity
- Build on "ships of opportunity"

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# Smart Oceans/Smart Industries

| | |
|---|---|
| Platforms | Information |
| Status/Trends | Understanding |

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# Platforms

**How can we make use of the variety of industry vessels and platforms at sea?**

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Fisheries

Aquaculture

Platforms

Ferries

Offshore wind energy

Wave/tidal energy

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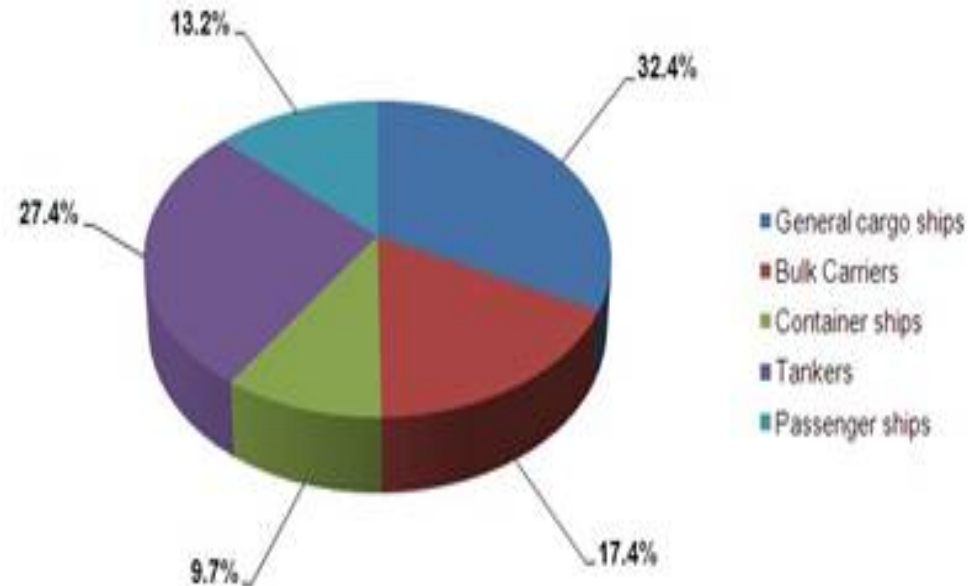# Opportunities of Ships

**Number of ships -
by total and trade**

**Bulk Carriers: 8,687**

**Container ships: 4,831**

**Tankers: 13,175**

**Passenger ships: 6,597**

**TOTAL: 50,054**



| | |
|---|---|
| 13.2% | 32.4% |
| 27.4% | |
| 9.7% | 17.4% |

- General cargo ships
- Bulk Carriers
- Container ships
- Tankers
- Passenger ships

Figures in brackets are numbers of ships, by sector.
Source: IHS Fairplay October 2010

# Opportunities of Platforms

**Number of oil/gas wells and rigs:**

- **Wells drilled in Gulf of Mexico: ~ 40,000**
- **Deepwater wells drilled internationally: ~ 14000**
- **Number of rigs internationally: ~ 8,000**
- **US rigs/platforms: ~ 3,500; including 79 deepwater wells**
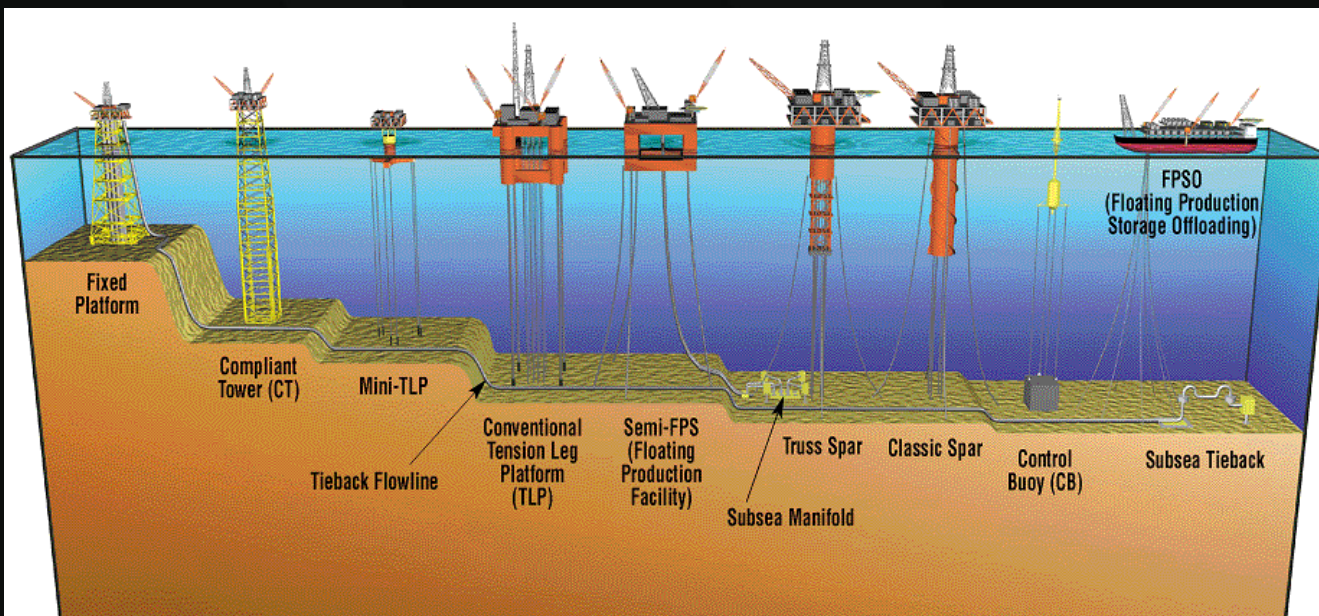


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# Status and Trends

**What is the best way to contribute to describing the status, trends and associated variability?**

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# Understand

**Can we improve the understanding, modeling and forecasting of ocean ecosystems and related resources, weather, climate and climate change?**

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# Smart Oceans/Smart Industries

| | |
|---|---|
| Comprehensive | Scaleable |
| Entry Options | Cost-Efficient |

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# Smart Oceans/Smart Industries

Comprehensive

Incorporates needs and opportunities

From a variety of industries

Address ocean, weather and climate data

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# Smart Oceans/Smart Industries

| | |
|---|---|
| Within industries | Scaleable |
| Across industries | Upgradeable over time |

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# Smart Oceans/Smart Industries

| Retrofit | Existing vessels and platforms |
|----------|-------------------------------|
| Entry Options | New build |

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# Smart Oceans/Smart Industries

Synergies

Within and between industries

Economies of scale

Cost-Efficient

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# *NEXT STEPS for WOC*
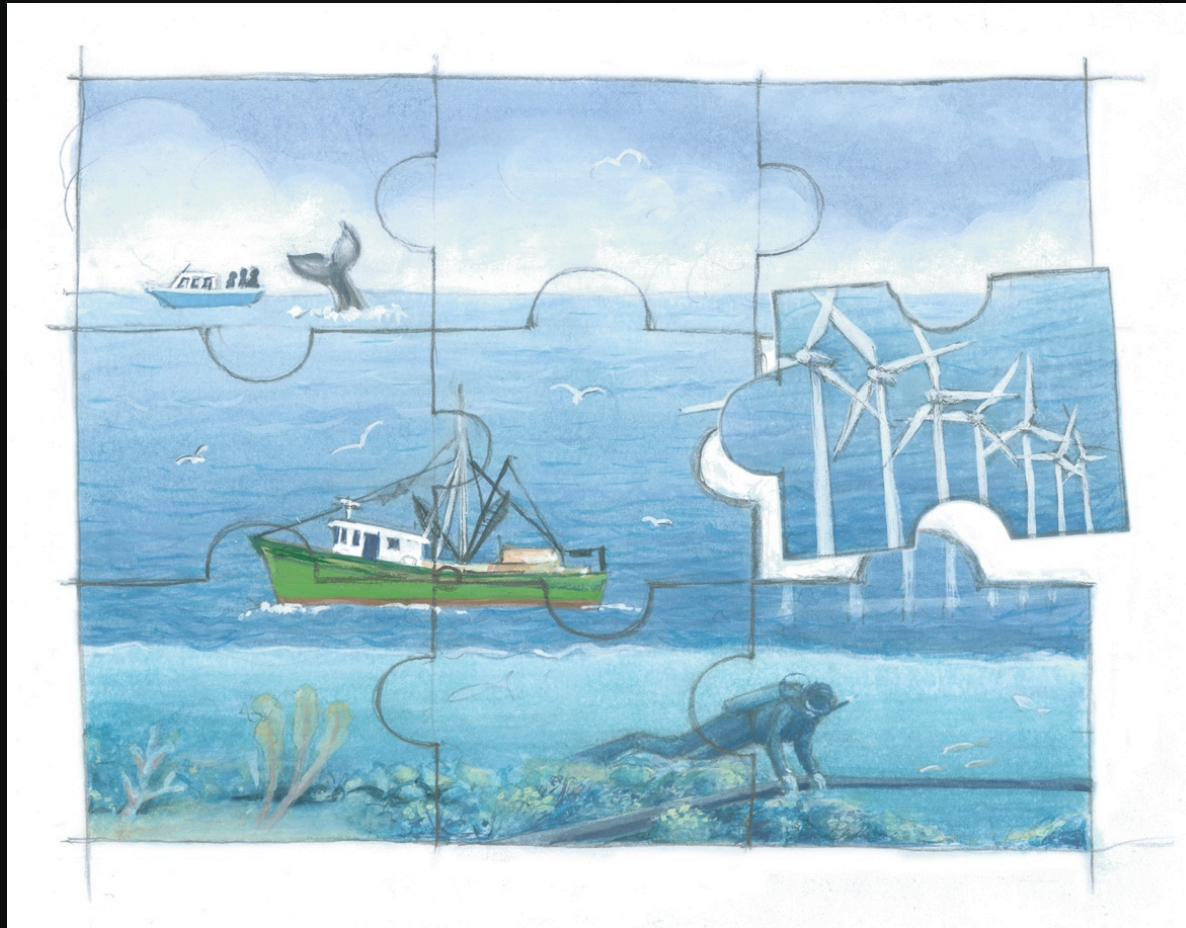
# PEOPLE

**Connecting people....who may have different interests and value propositions to a SO/SI program**

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# Smart Ocean/Smart Industries

- Develop joint Industry/Science Steering Committee

- Define value proposition, rationale and feasibility for both industry and science community

- Inventory of existing ships/platforms of opportunity programs

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# Smart Ocean/Smart Industries

- Define the "menu of options" for voluntary observations

- Define interface requirements for platforms / payload

- Explore and explain the principles and practice of open data access and the telemetry issues

- Develop Advisory Group for input from broader range of industry / science representatives

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# Smart Fishing Vessels Workshop

•Assemble fisheries industry data gathering experience.

•Develop common understanding of opportunities and constraints for fishing vessel data collection.

•Facilitate fishing industry learning from/collaborating with other ocean industries in data collection.

•Develop shared information on the technology and instrumentation available for use on fishing vessels.

•Identify priorities and quality assurance for fishing industry data collection.

# Thank You!

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