



WORLD OCEAN COUNCIL

The International Business Alliance
for Corporate Ocean Responsibility

Global Forum on Human Settlements

Blue Economy and Ocean Health: The Role of Ocean Business and Investment

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WOC 8th

**Sustainable Ocean
Summit (SOS)**

9-11 Dec 2020

Virtual Conference

WOC – the Global “Blue Economy” Business and Investment Organization

International, Cross-Sectoral Business Leadership Alliance

- **Bringing together the global ocean private sector**, e.g. shipping, tourism, fisheries, aquaculture, offshore energy, ports, legal, insurance, investment, etc.
- **Catalyzing leadership, collaboration and action for “Corporate Ocean Responsibility”**
- Formal recognition by UN and business entities, e.g. UNESCO IOC, WMO, IHO, ISA, ICC
- **75+ members globally; 100’s of actively engaged companies; 34,000+ in global network**
- *“Ocean Investment Platform”* brings together industry, investors and innovators

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

SDG/Sustainable Blue Economy Priorities (1)

- **Improving Ocean Governance, Policy and Planning**

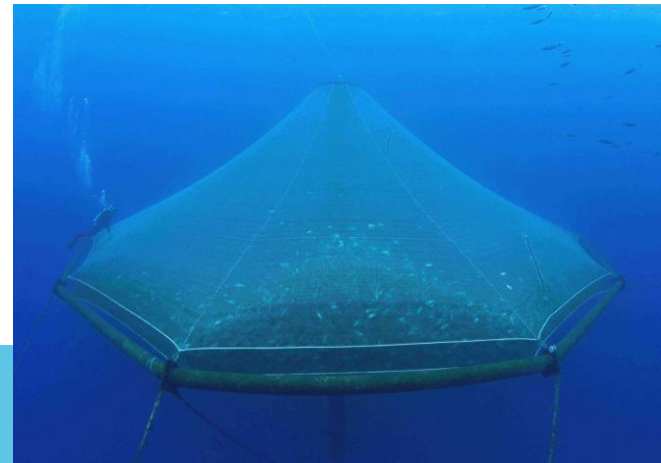
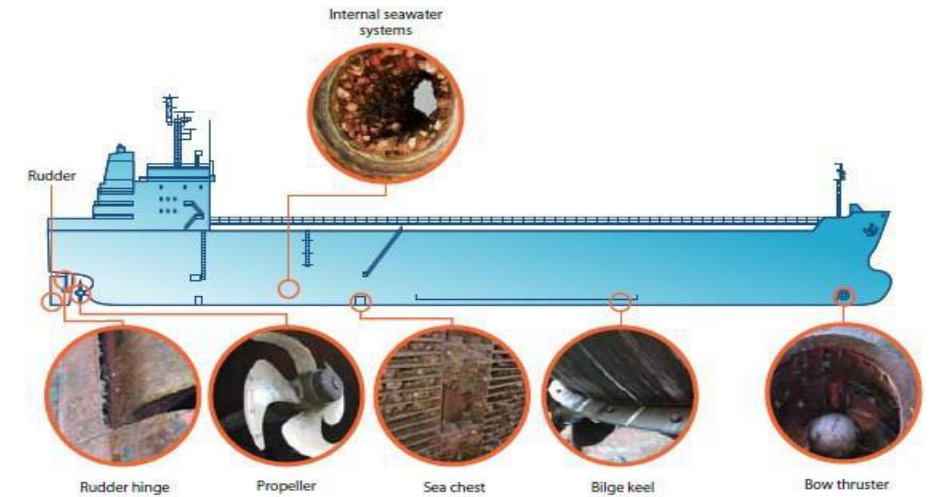
- UNCLOS/BBNJ, Convention on Biological Diversity, UNFCCC, SDGs, ...
- Marine Spatial Planning
 - Cross-sectoral Conflicts/Synergies

- **Reducing Anthropogenic Impacts**

- Biofouling/Invasive species
- Marine sound
- Plastics/Port Reception Facilities

- **Ensuring Food Security**

- Sustainable fisheries
- Reduced IUU fishing
- Sustainable aquaculture



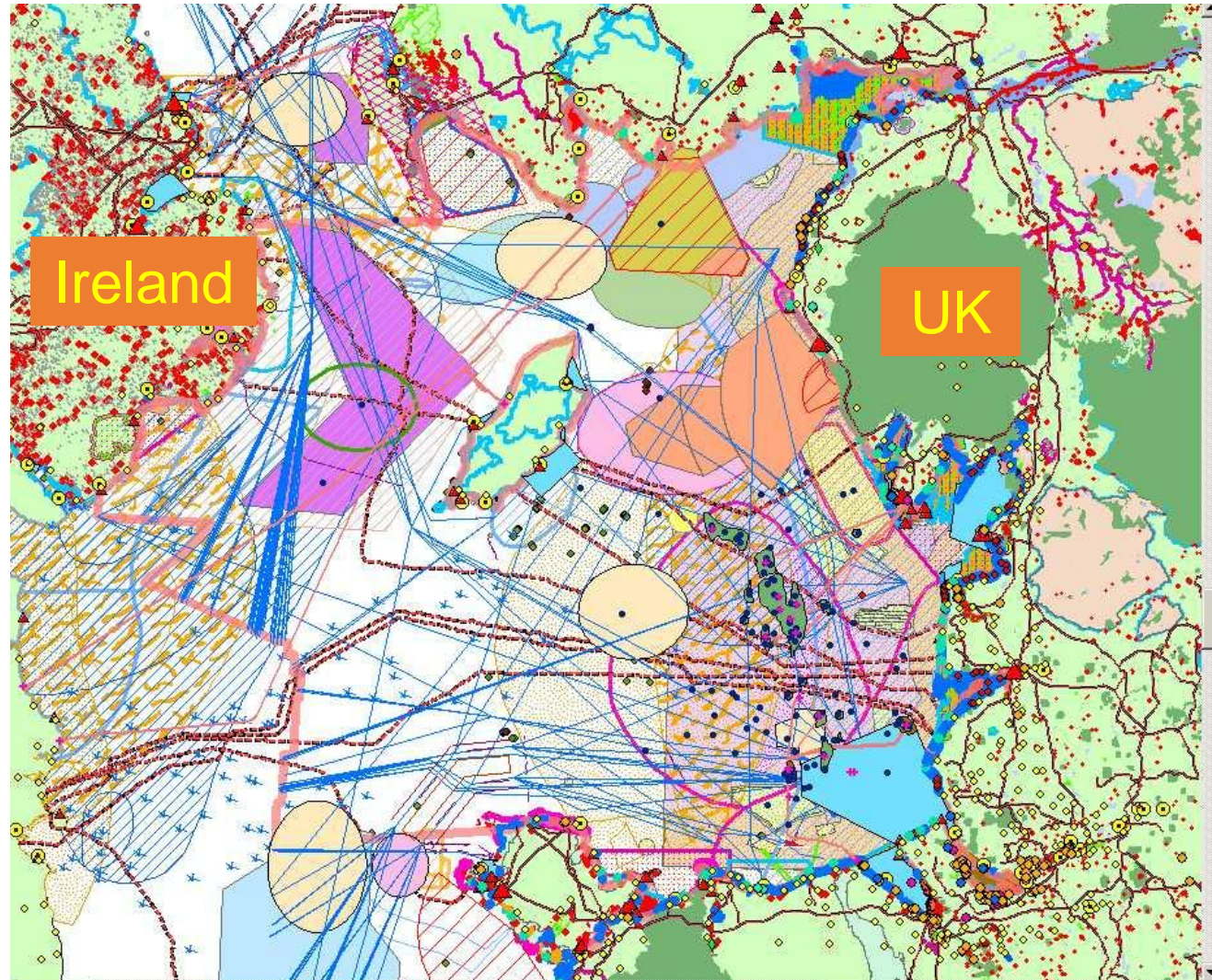
SDG/Sustainable Blue Economy Priorities (2)

- **Addressing Climate Change**
 - Ocean Restoration: Negative Emissions Tech/Carbon Sequestration
- **Reducing Disaster Risk**
 - Port/coastal infrastructure adaptation and resilience
- **Advancing Low Carbon Energy from the Sea**
 - Ocean-based renewable energy
- **Conserving Marine Biodiversity**
 - Marine protected areas
 - Coral reef/Marine mammal impacts
- **Improving Ocean Knowledge (SDG14a)**
 - SMART Ocean - SMART Industries:
 - Data collection from industry
 - “Ships/Platforms of Opportunity”



The Sea is Crowded with Many Uses

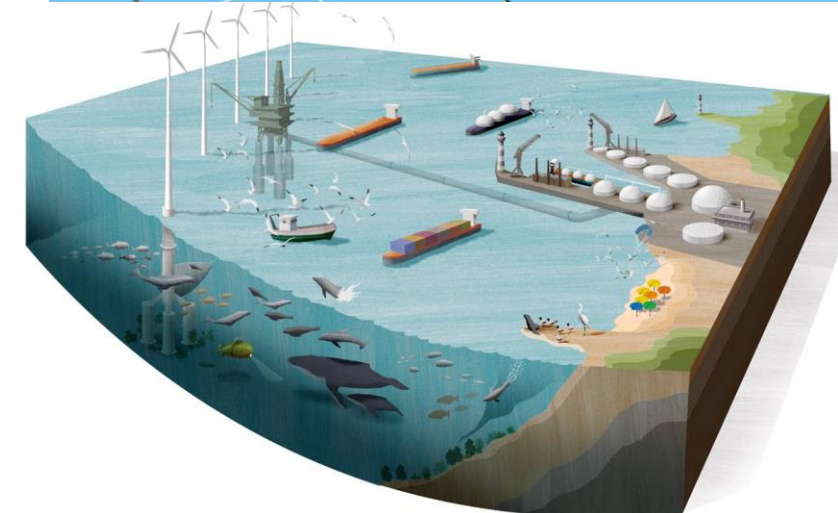
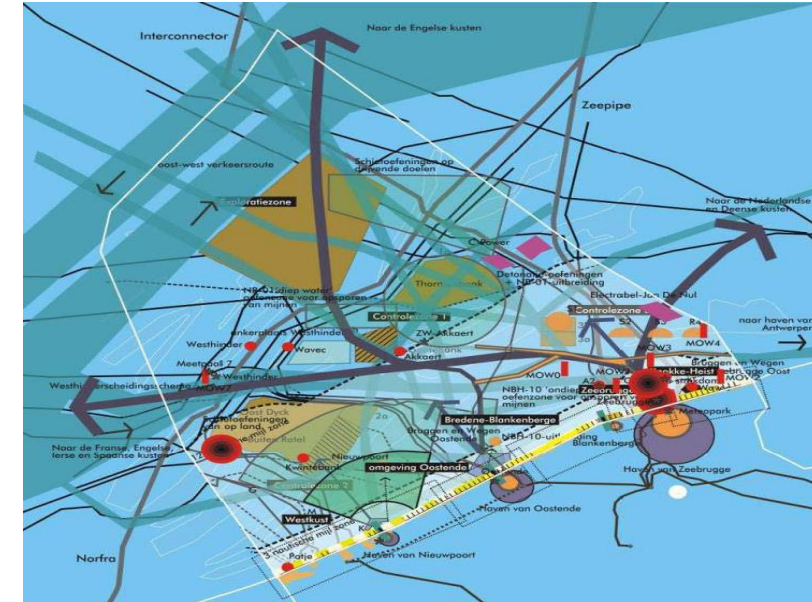
- Tourism
- Oil & gas
- Coastal defence
- Ports & navigation
- Military activities
- Culture
- Conservation
- Dredging & disposal



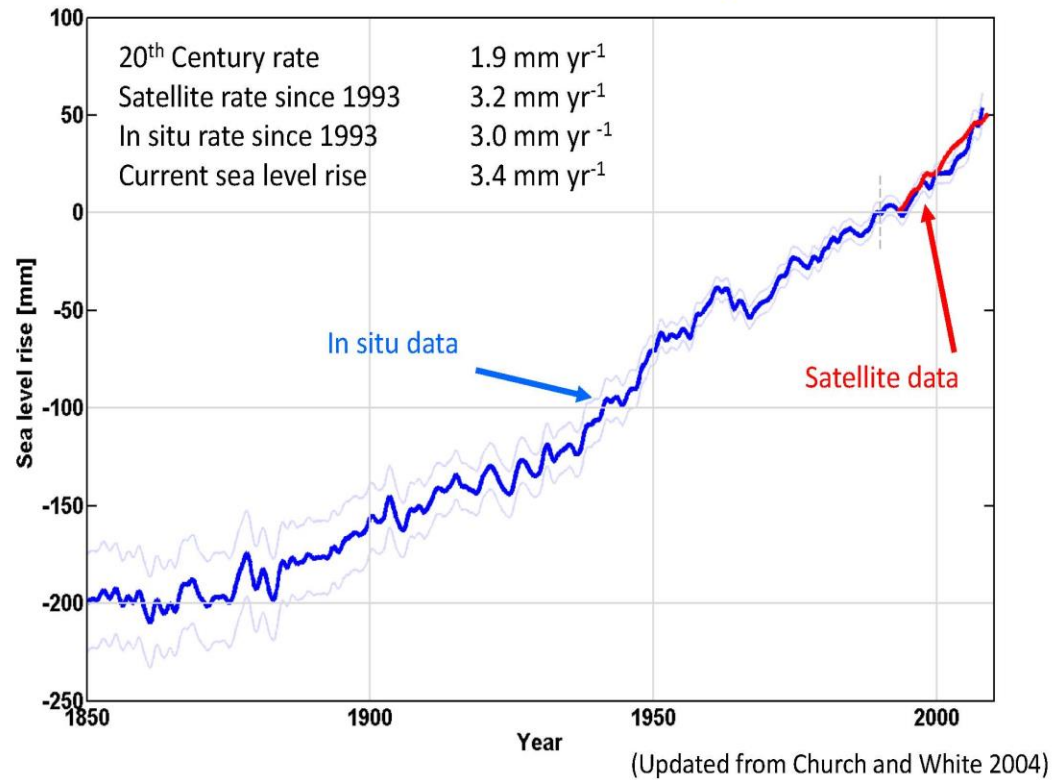
- Submarine cables
- Fishing
- Renewable energy
- Marine recreation
- Mineral extraction
- Mariculture

Marine Spatial Planning and Coastal Cities

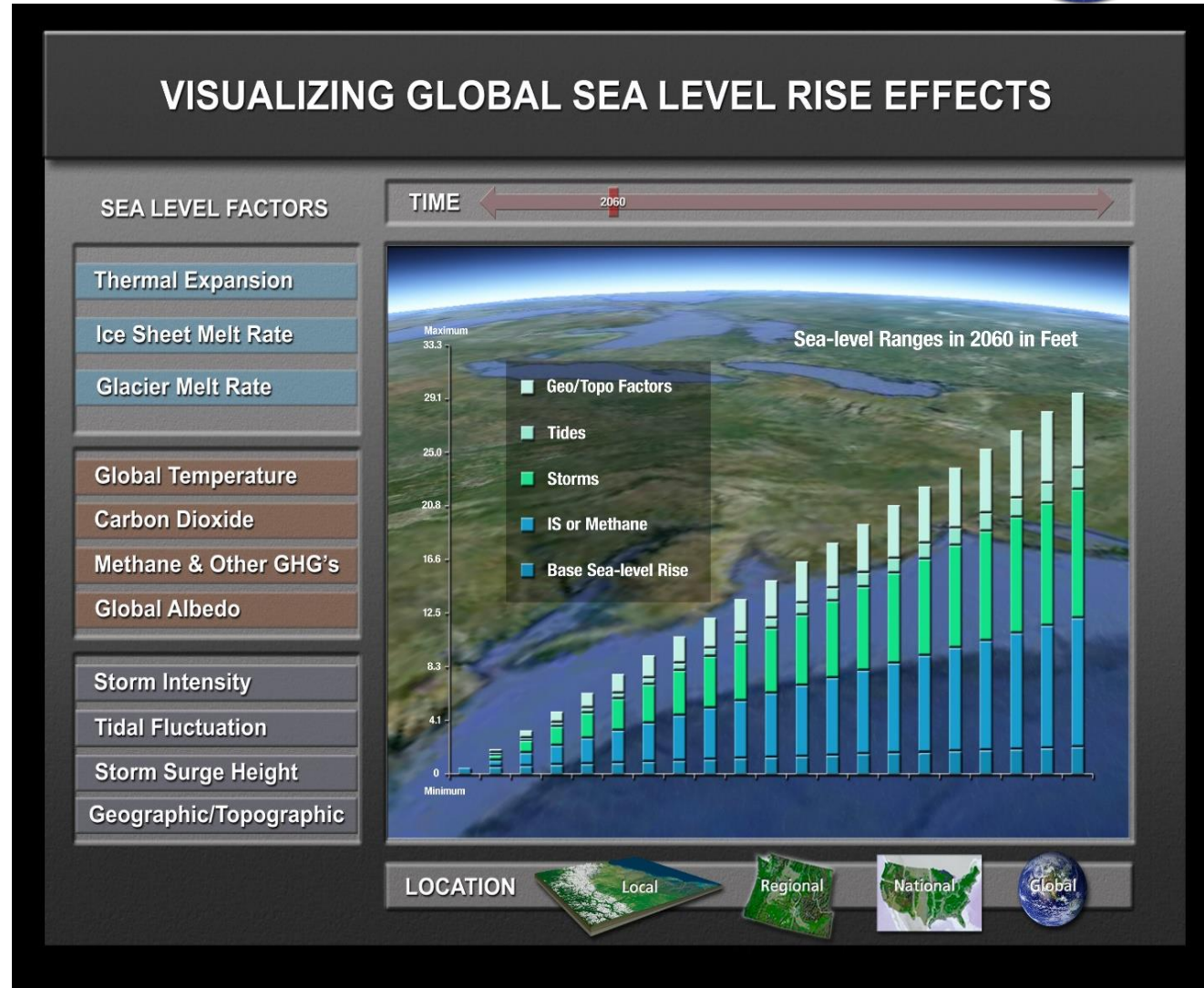
- Create a **clear business understanding** about MSP
- Examine how MSP has worked and the role of business
- Define and examine the potential **business impacts and benefits of MSP**
- **Determine how industry can optimize potential MSP benefits** and minimize the impacts
- **Ensure the ocean business community is fully informed** of MSP process and plans
- **Develop a coordinated business community strategy** and action plan for engaging in MSP
- Ensure **MSP takes into account responsible ocean economic activities**



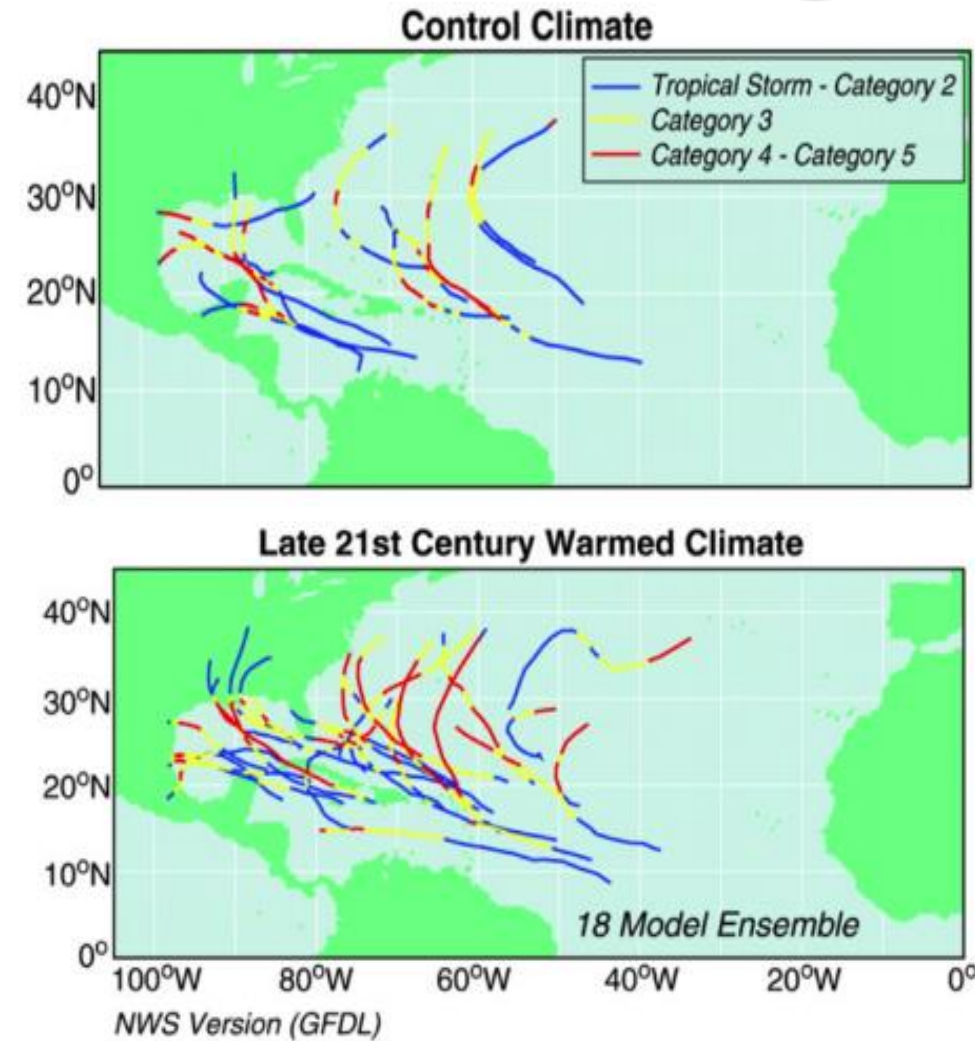
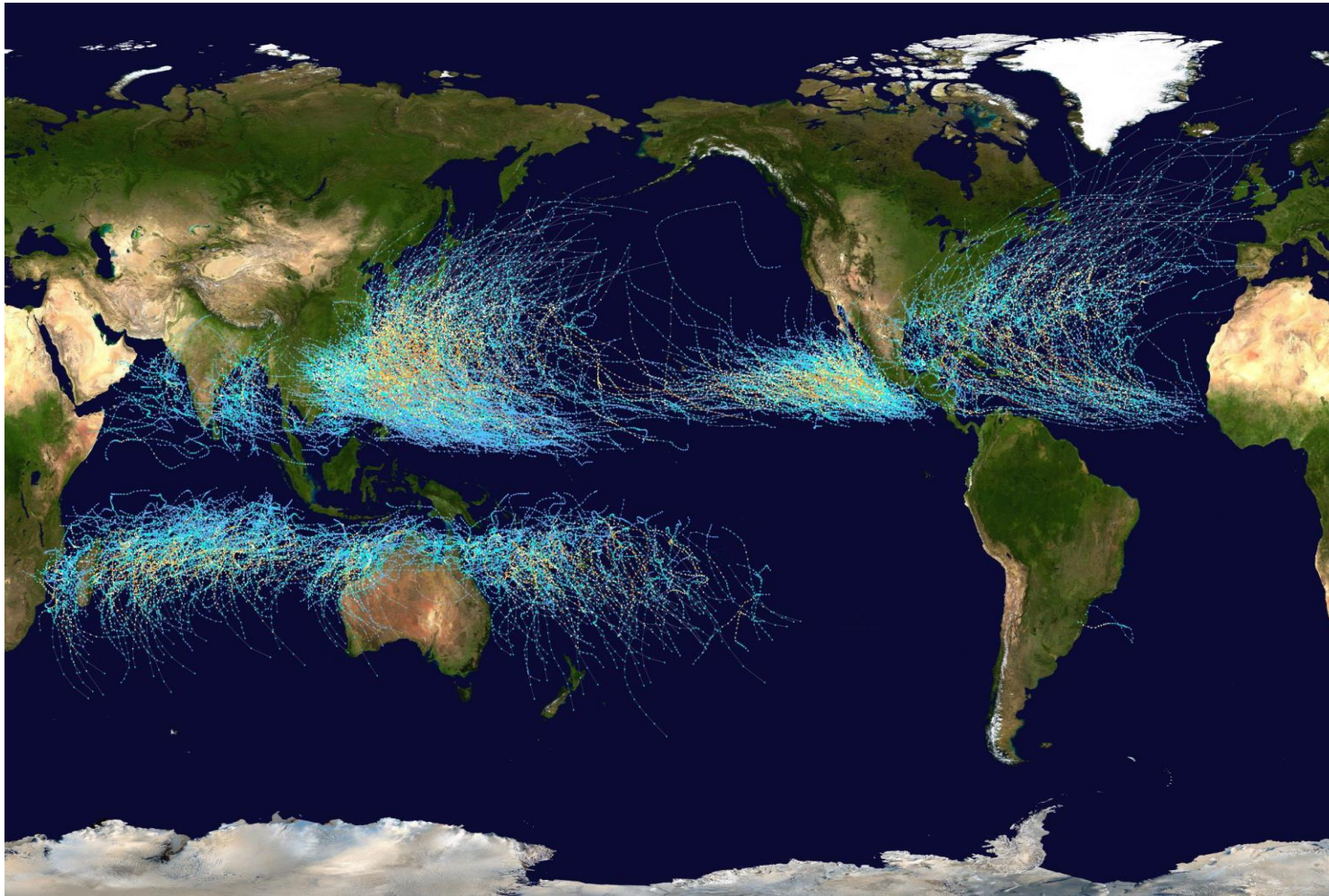
Sea Level Rise acceleration during the 20th Century



VISUALIZING GLOBAL SEA LEVEL RISE EFFECTS



Extreme Weather Events

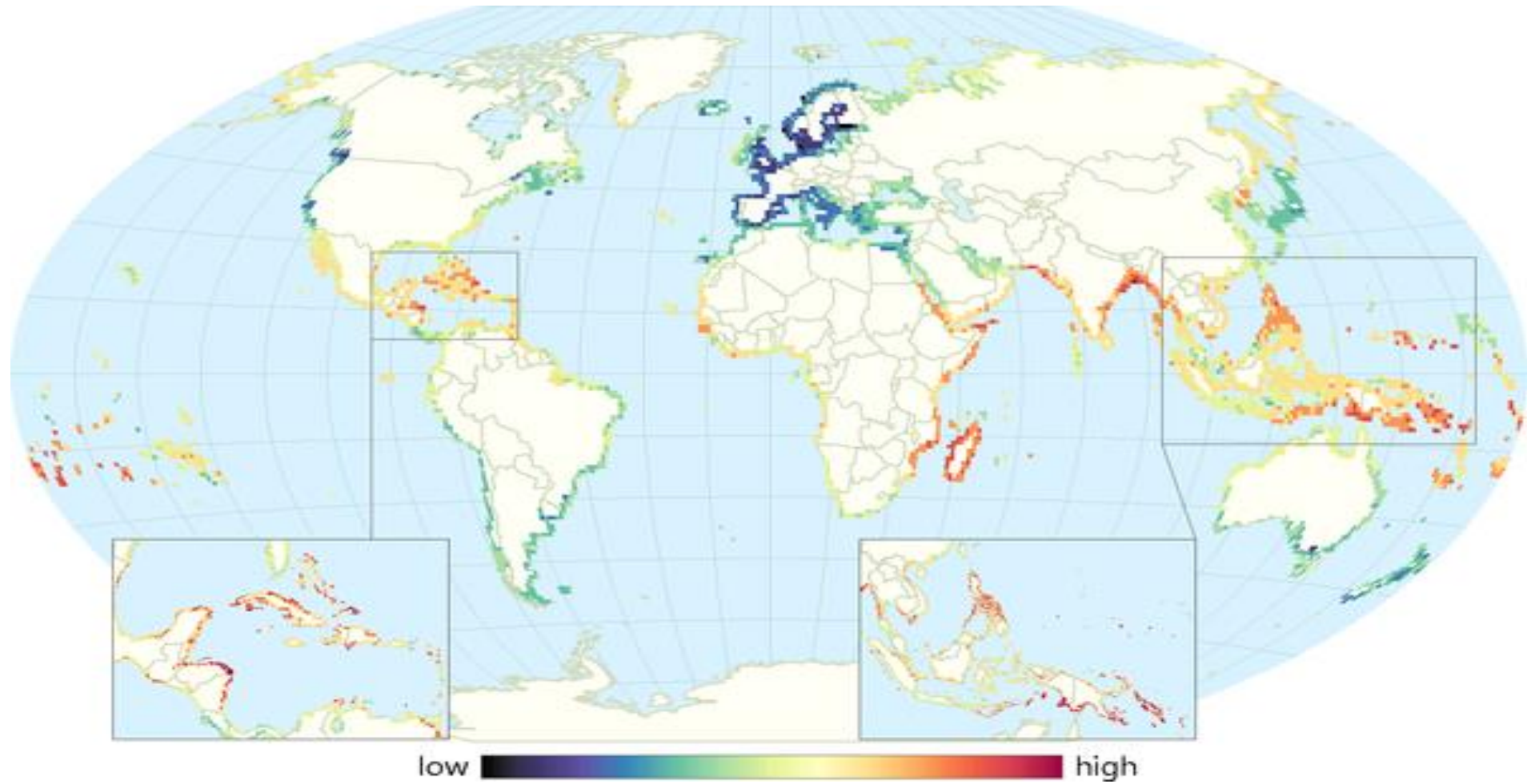


Coastal Community Vulnerability

To Sea Level Rise and Tropical Storms



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Coastal/Marine Infrastructure



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❑ COASTAL CITIES

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- Ports
- Roads
- Airports
- Railroads
- Power stations
- Electrical grid
- Offshore wind turbines
- Aquaculture facilities
- Submarine cables
- Refineries
- Fuel storage/delivery
- Marinas

Coastal/Marine Economic Activity



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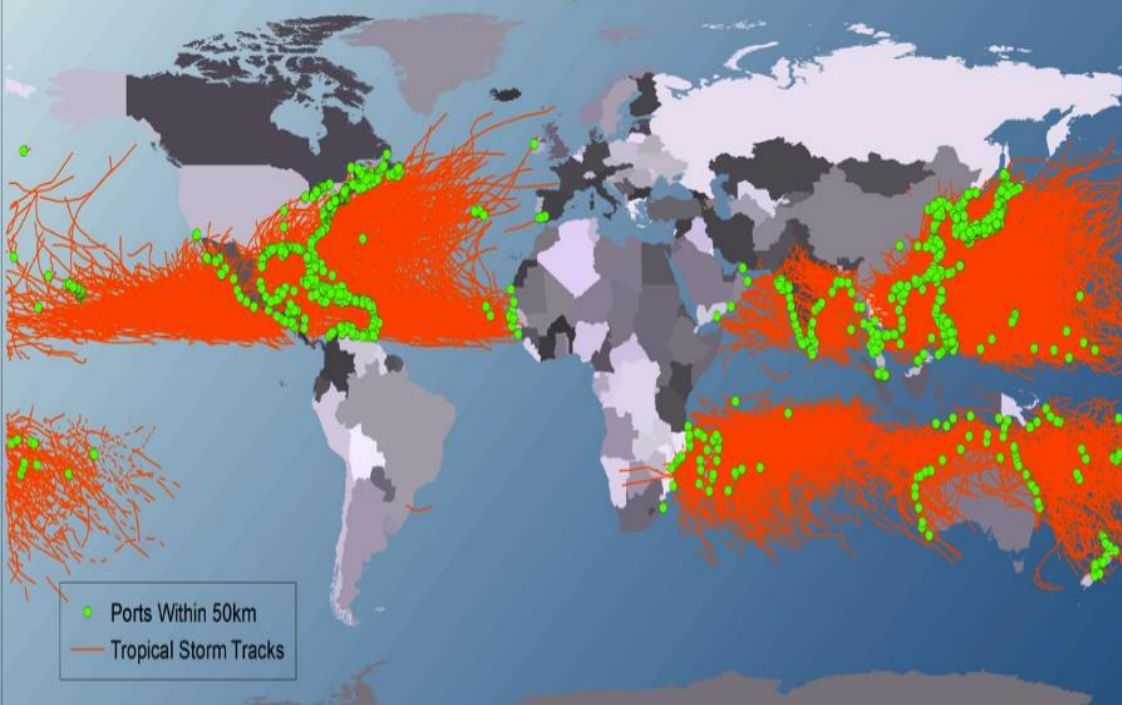
- COASTAL CITIES
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- Shipping
- Fishing
- Mariculture/Aquaculture
- Offshore oil and gas
- Offshore renewable energy
- Coastal Tourism
- Cruise Tourism
- Dredging/Nearshore mining
- Telecommunications
- Recreational boating
- Desalination
- Carbon storage

Coastal/Marine Infrastructure and Climate Change



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Ports Within 50km of Tropical Storm Tracks 1960-2010

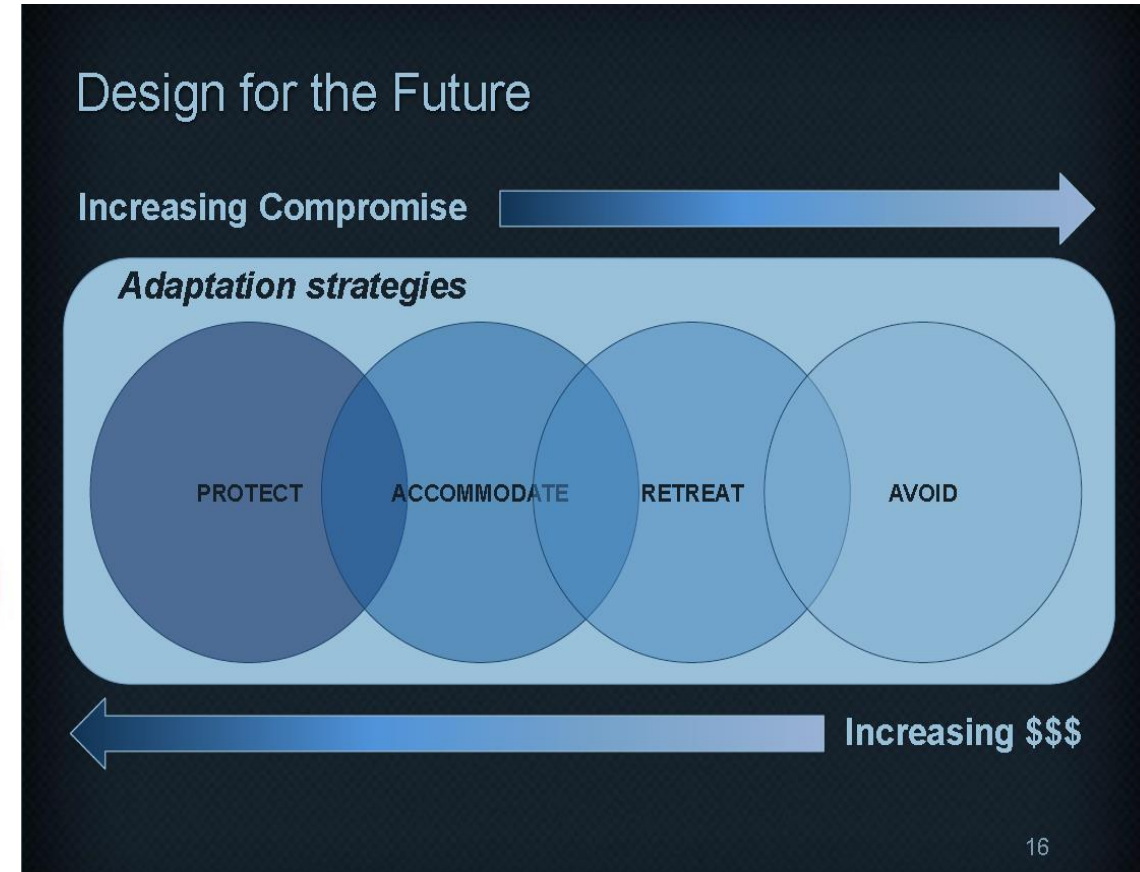
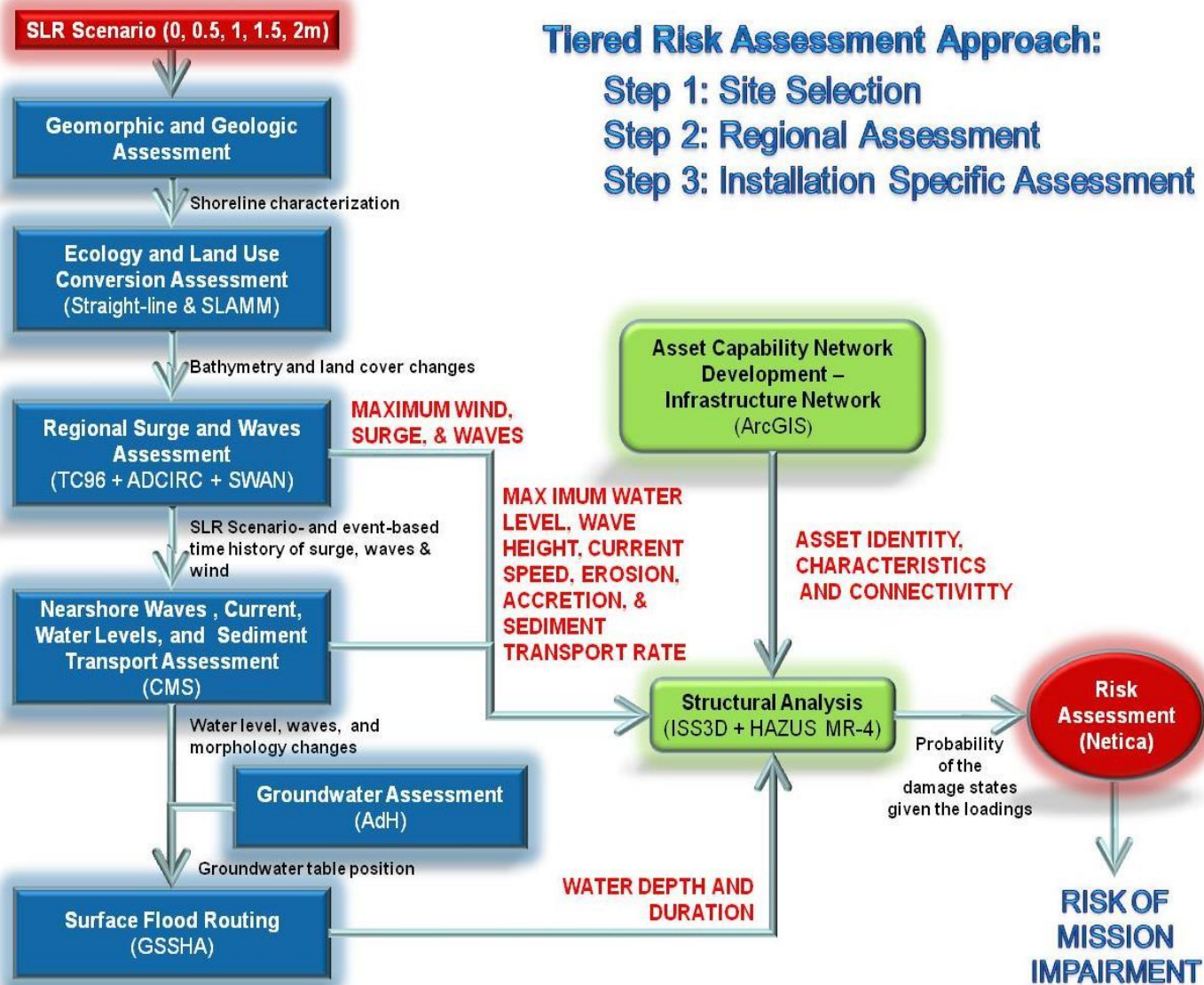


EXAMPLES OF IMPACTS ON MARINE TRANSPORT		CLIMATE FACTOR(S)
①	Flooding and/or damage to port facilities	<ul style="list-style-type: none"> • Extreme precipitation (heavy rainfall) and associated standing water • Storm surges/sea level rise, erosion in coastal areas • Freezing rain (ice-scour damage on dock structures and visual navigational aids) • Low water levels (damage and accelerated decay of exposed infrastructure)
②	Increased or reduced access to ports, dredging requirements	<ul style="list-style-type: none"> • Increasing sea levels (e.g., Atlantic Canada and British Columbia) permitting entry of heavier vessels (deeper drafts) • High water levels inhibiting passage of vessels under bridges • Decreasing sea levels (e.g., Hudson Bay) and lower freshwater levels (e.g., Great Lakes) inhibiting access by heavier vessels
③	Hazards to vessel navigation – storms and wind events (waves)	<ul style="list-style-type: none"> • Wave action (difficulty maneuvering vessels) • Melting sea ice (open water worsening the impact of storms and wind events)
④	Hazards to vessel navigation – detached sea ice	<ul style="list-style-type: none"> • Melting ice (detached sea ice moving into unexpected areas)
⑤	Longer or shorter shipping season	<ul style="list-style-type: none"> • Earlier ice break-up/late freeze-up (longer navigation season), later ice break-up/earlier freeze-up (shorter season)
⑥	New navigation opportunities	<ul style="list-style-type: none"> • Melting sea ice (creating open water where navigation was previously not possible)

Coastal Infrastructure meets Climate Change



Coastal/Marine Adaptation



“Grey, Green, Blue” Coastal/Marine Adaptation

World Ocean Council “*Grey, Green, Blue Infrastructure Strategy*”:

- 1) **Grey Infrastructure** - the “hard” port and coastal built structures and facilities
- 2) **Green Infrastructure** - “Nature-Based Solutions” that harness the potential for natural systems to protect and maintain the integrity of coastal areas, i.e.
 - coral reefs
 - tidal marshes/coastal wetlands
 - mangroves
 - seagrass beds
- 3) **Blue Infrastructure** - “Blue Carbon” coastal habitats important for carbon sequestration, e.g. mangroves, wetlands, seagrass beds



Addressing Coastal Adaptation (1)

1) Driving the need for resiliency –

- **Coastal/marine infrastructure is essential** to a wide range of industries
- These **industries all suffer business losses when infrastructure is damaged** and inoperable due to the effects of climate change
- **Insurance industry has a major incentive for improved understanding and action to reduce the risk that SLR and extreme weather events** create for coastal/marine infrastructure
- *All this drives the need for coastal/marine adaptation to climate change impacts*

2) Planning for adaption –

- **Private sector planning and engineering firms** have the expertise and services to develop plans for coastal infrastructure adaptation
- *Including green infrastructure/nature-based solutions*

Addressing Coastal Adaptation (2)

3) Undertaking adaption –

- **Private sector engineering, construction and marine/coastal resource restoration and management firms** deliver the actual adaptation projects

4) Financing adaptation –

- **Significant financing is needed** to advance coastal/marine infrastructure and ecosystem-based adaptation
- **Private sector finance may often need to be in partnership with public or other sources**, such as through Blended Finance or Public-Private Partnerships (PPP)

WOC Working Group on Port and Coastal Infrastructure Adaptation/Resiliency

- WOC is developing a **global business and investment leadership group on advancing the Adaptation and Resiliency of Ports and Coastal Infrastructure**
- Especially in **developing countries and Small Island Developing States (SIDS)**

WOC Ocean Investment Platform

An international structure and process to bring together:

- Leadership companies from major ocean use sectors
- Enterprises that provide the solutions
- The investment community

WOC Ocean Investment Platform is bringing value by:

- Catalysing interaction among ocean users, solution providers and investors
- Facilitating synergies and economies of scale among investors, innovation initiatives and challenge competitions to more effectively address ocean sustainable development needs and opportunities
- Providing a common process to identify, articulate and evaluate ocean industry priorities for investment in innovative sustainability solutions
- Creating a network of ocean innovation accelerators, incubators, etc.

WOC Ocean Investment Platform

Bringing together ocean industries, innovators and investors to accelerate Blue Economy financing

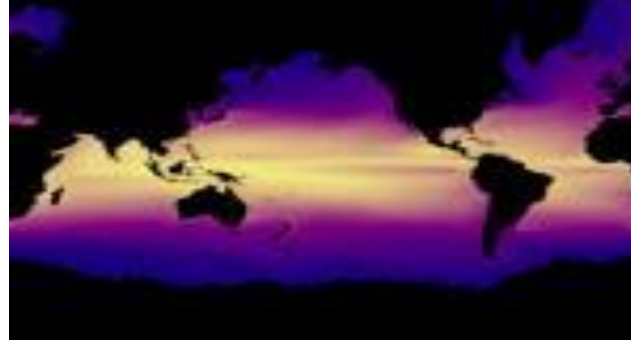
- **WOC “Ocean Funds Roundtable”**: Convening the growing number of investors/funds focused on ocean sustainable development to identify common issues, share best practices, develop shared tools/methods
- **WOC “Ocean ESG”**: Creating common international categories, criteria, metrics, indicators, impact measures, etc.
- **WOC “Global Blue Economy Innovation Initiatives Network”**: Connecting and catalyzing synergies among the growing number of ocean-sustainability related accelerators, incubators and challenge competitions



Bringing value by:

- Facilitating synergies and economies of scale among investors, innovation initiatives to more effectively address ocean sustainable development needs
- Providing a common process to identify, articulate and evaluate ocean industry priorities for investment in innovative sustainability solutions





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