

International Leadership Seminar on Current Challenges and Opportunities in Ocean and Coastal Sustainable Development

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Poh Poh Wong
University of Adelaide
Email : wong3921@gmail.com
Website : [coast4all](http://coast4all.com)

Climate change

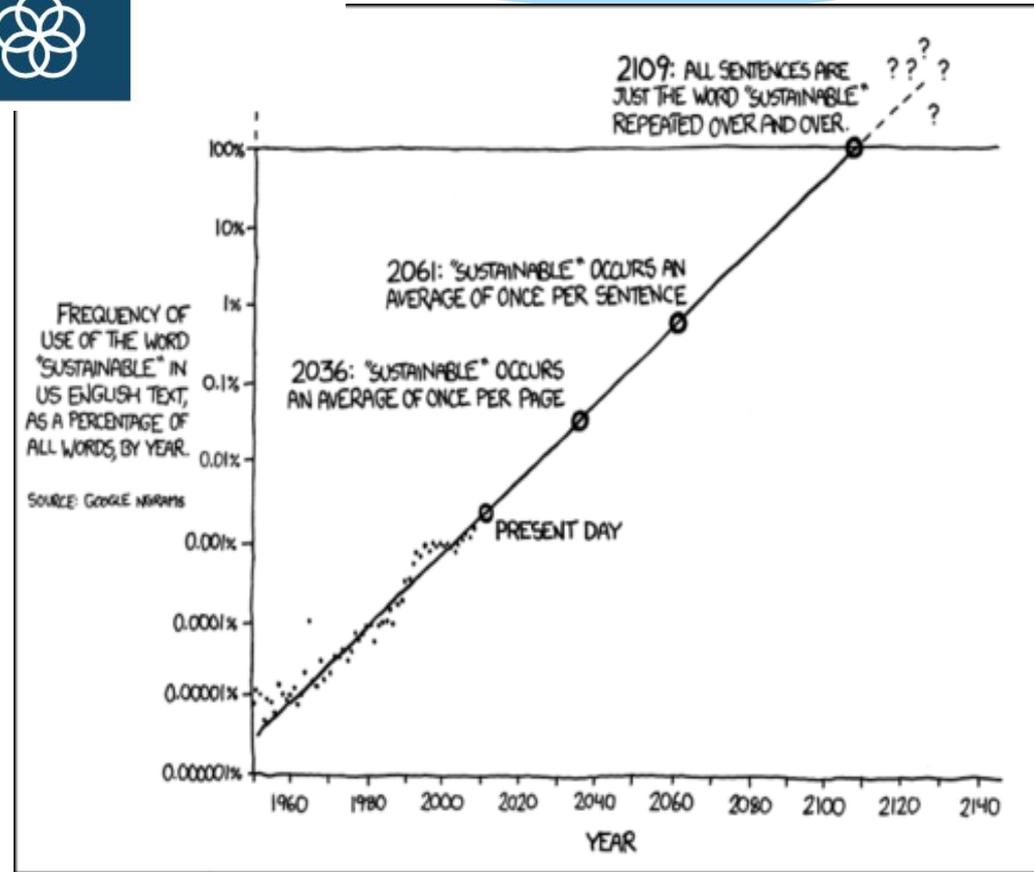
- * AR5 with 2 new ocean chapters.
- * Outline of **IPCC Special Report** on the Ocean and Cryosphere in a Changing Climate approved and planned for release in **2019**.
- * **AR6 for 2022**.



Sustainability



- * MDGs (2000-2015) to SDGs (2015-2030).
- * **17 SDGs & 169 targets.**
- * SDG14 for oceans.



THE WORD "SUSTAINABLE" IS UNSUSTAINABLE.

High Level Political Forum

2019 Empowering people and ensuring inclusiveness and equality



2018 Transformation towards sustainable and resilient societies



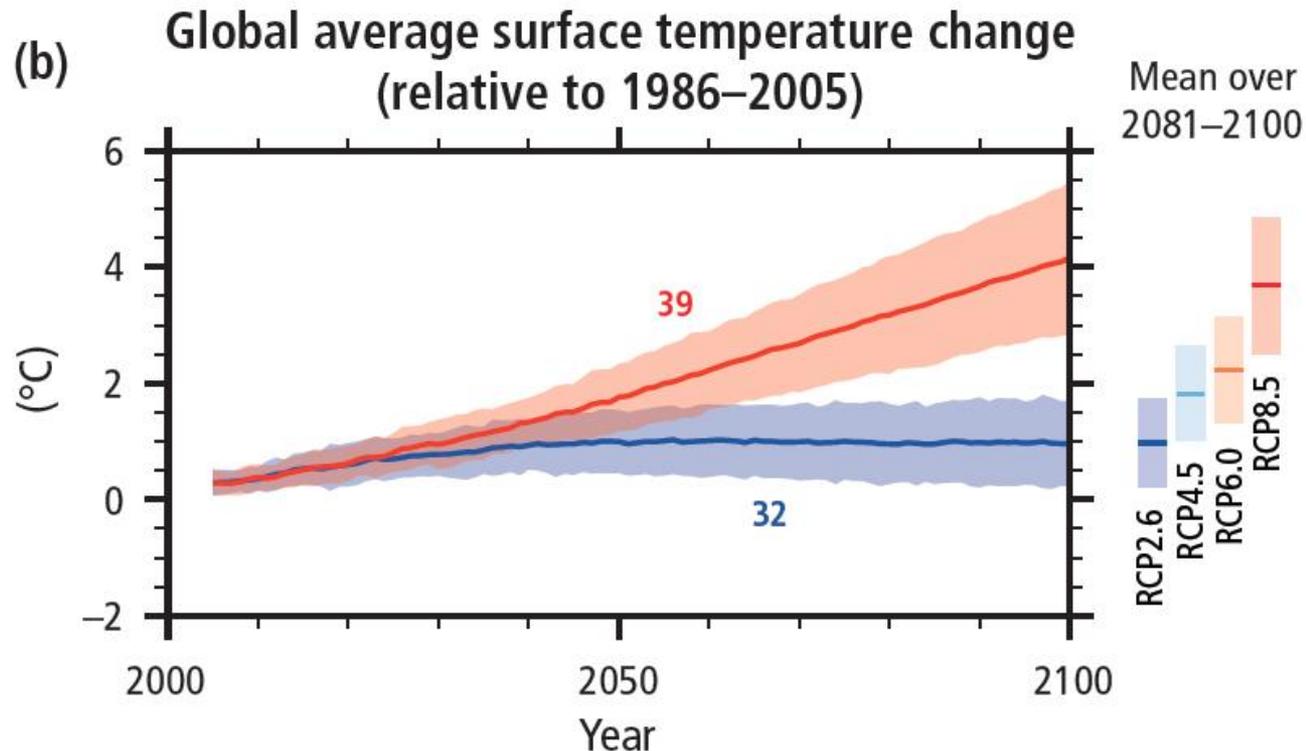
2017 Eradicating poverty and promoting prosperity in a changing world



Climate change affects SDGs

Effects of climate change are projected to worsen over SDGs' 15-year timeframe, regardless of extent of emissions cuts now, because of delayed warming effect from past emissions.

- * **Urgent action** is required to achieve a peak & decline of emissions before 2020.



SDG14 : oceans, seas and marine resources

- * “**conserve and sustainably use the oceans, seas and marine resources for sustainable development**”.
- * Provides the **opportunity to address** complex ocean sustainability challenges through regionally coordinated cooperation.
- * Fosters **greater integration** among the different sectors of ocean governance.



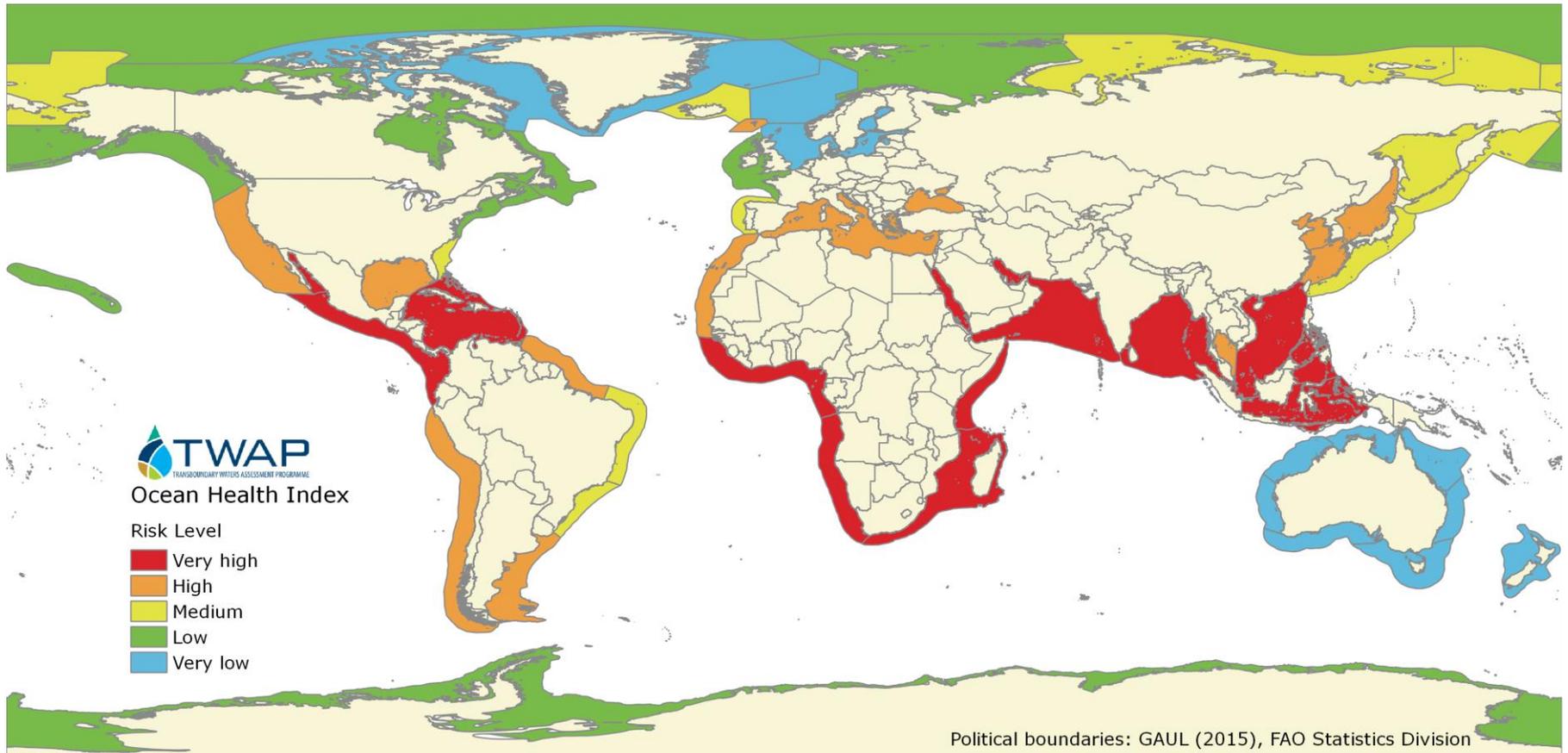
SDG14 : 7 targets

1. By **2025**, prevent & significantly reduce **marine pollution** of all kinds.
2. By **2020**, sustainably manage & **protect marine & coastal ecosystems**.
3. **Minimize & address impacts of ocean acidification**.
4. By **2020**, effectively regulate harvesting & end **overfishing, illegal, unreported & unregulated fishing**.
5. By **2020**, conserve at least **10 per cent** of coastal & marine areas.
6. By **2020**, prohibit certain forms of **fisheries subsidies**.
7. By **2030**, increase the economic benefits to **small island developing states & least developed countries**; increase **scientific knowledge**; access for **small-scale artisanal fishers** to marine resources & markets.

SDG14 in context

For SDG14, **oceans remain 'unhealthy'** from increasing sea-surface temperature & ocean acidification.

* Coasts battered by **increasing storms**.



Major issues for SDG14

- * Major challenge : **transboundary nature of both marine resources & threats** to ocean sustainability. Neither fish stocks nor marine pollution are bound by national borders.
- * **Destructive fishing practices, overfishing & illegal, unreported & unregulated fishing** are increasing pressures on marine ecosystems; nearly 1/3 of all fish stocks are now below sustainable levels.
- * More than **3 billion people** rely on fish for animal protein. Some **300 million people** find livelihoods in marine fisheries.

SDG14 mitigation opportunities

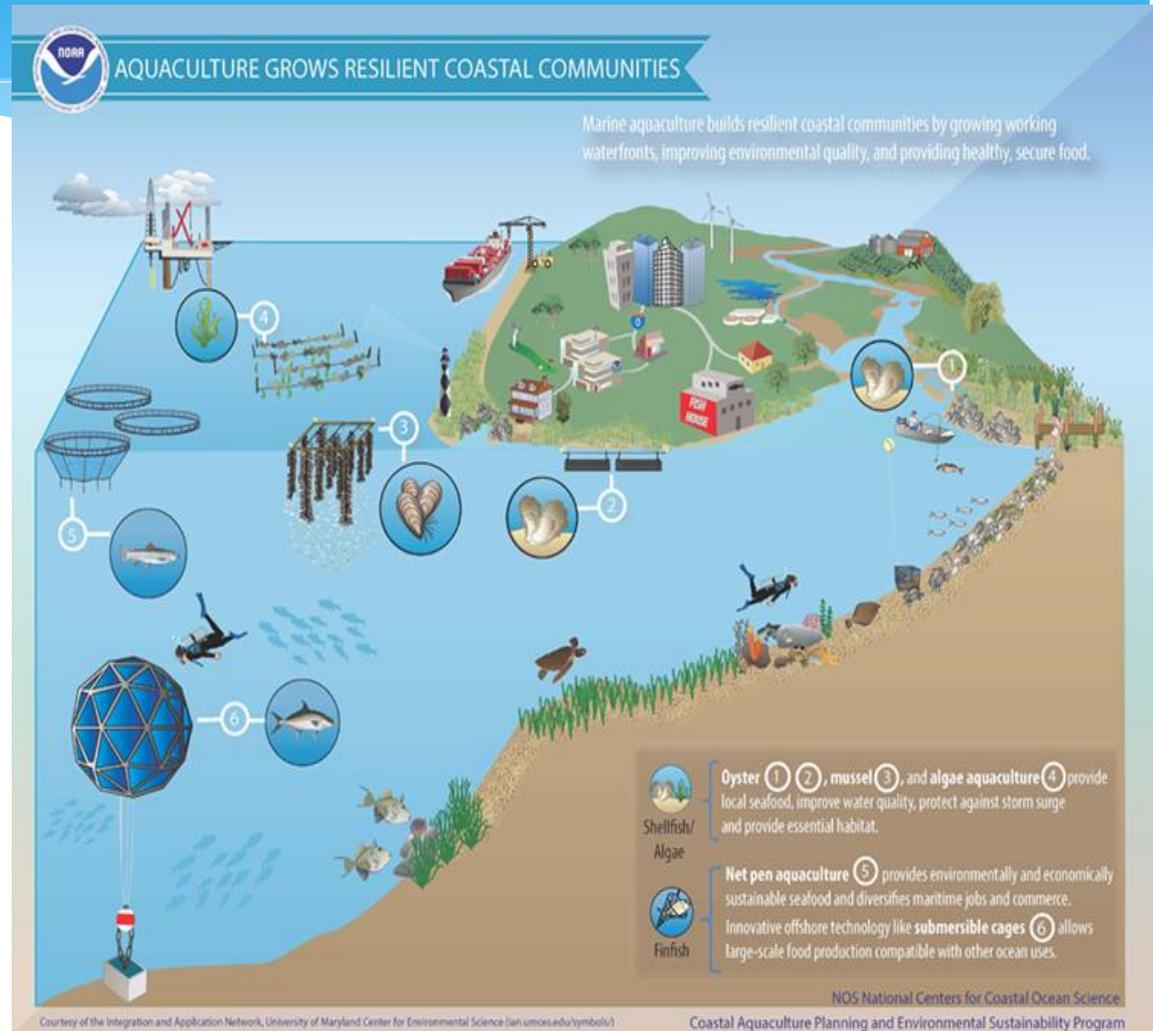
Invest in **new energy infrastructure** over timeframe of the SDGs.

- * **Protect mangrove forests, seagrass beds & salt marshes** (50% of total organic carbon burial in ocean sediments) to limit the rise in atmospheric CO₂, protect the coast from storm surges & preserve nursery grounds for fish.



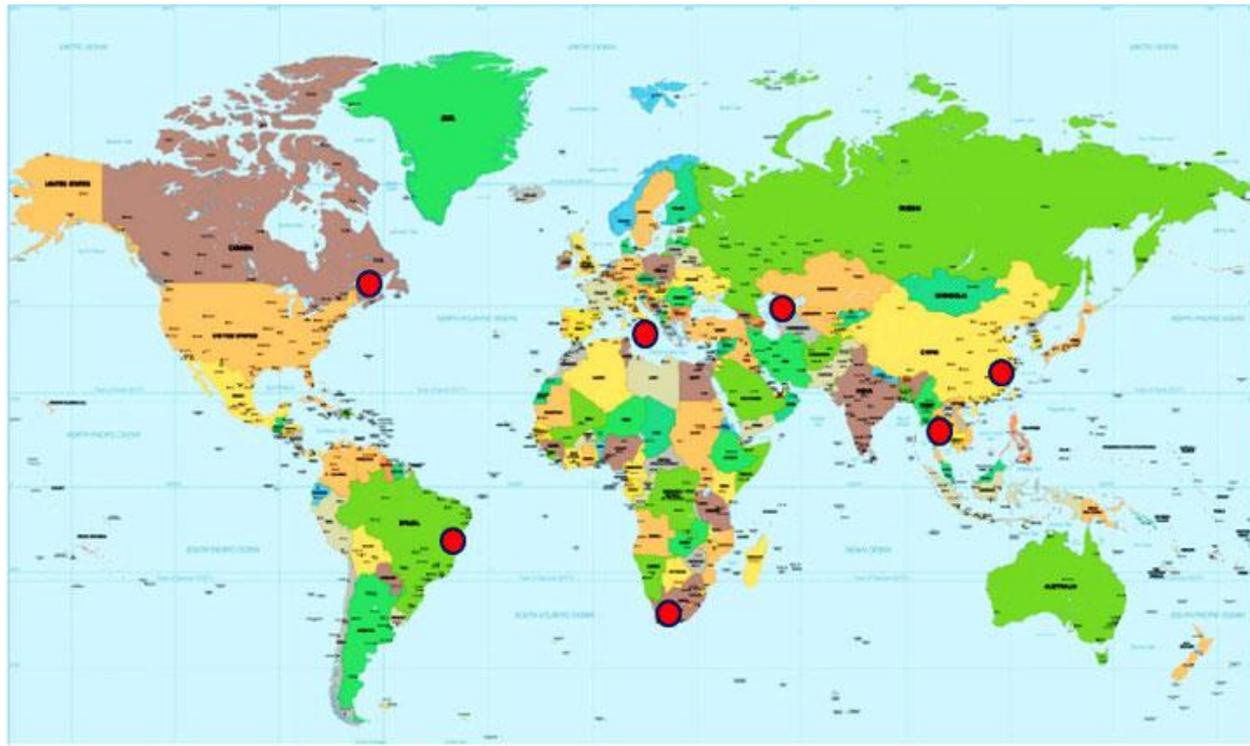
SDG14 adaptation opportunities

- Accelerate the **expansion of aquaculture**.
- * **Strengthen coastal zone management & establish marine protected areas to reduce land-sourced pollution.**
- * **Create new habitats such as artificial reefs to act as fish nurseries.**



IOI expansion opportunities

- **Marine Spatial Planning** : process of analyzing & allocating spatial distribution of human activities in marine areas to achieve ecological, economic, & social objectives
- * Framework for developing '**Blue economy**' integrating marine & coastal development.





Thank you

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