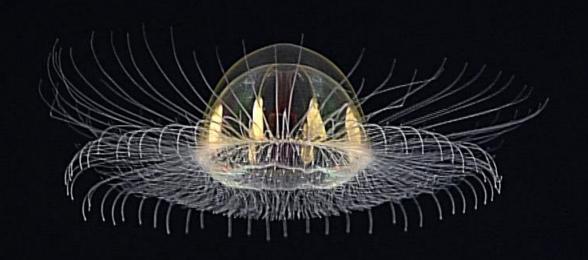
Marine Protected Areas: Roles for the BBNJ Agreement



Fishing on the High Seas and MPAs WCEL, WCPA and IIJS webinar 13 October 2020

Kristina M. Gjerde Senior High Seas Advisor, IUCN GMPP Member WCEL and WCPA Key message: BBNJ Agreement is vital tool for strengthening ecological and institutional resilience

MPAs and other ABMTs **EIAs & Strategic Environmental Assessments Consultation and Coordination** Data & Technology Ocean Science & Innovation



Ocean Life Diversity, Distribution, Abundance















































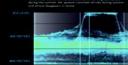




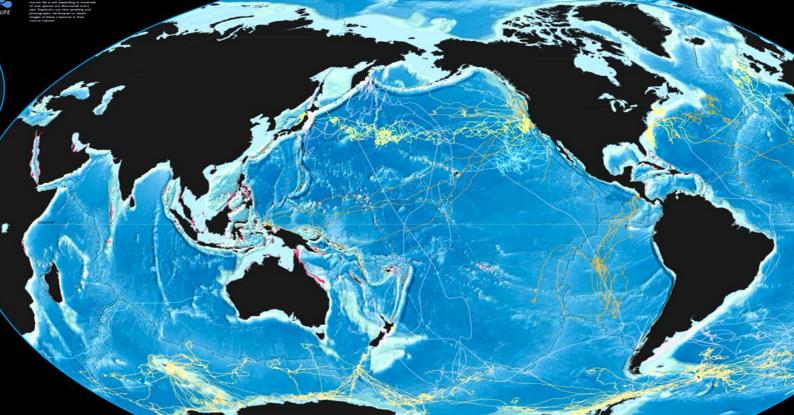
























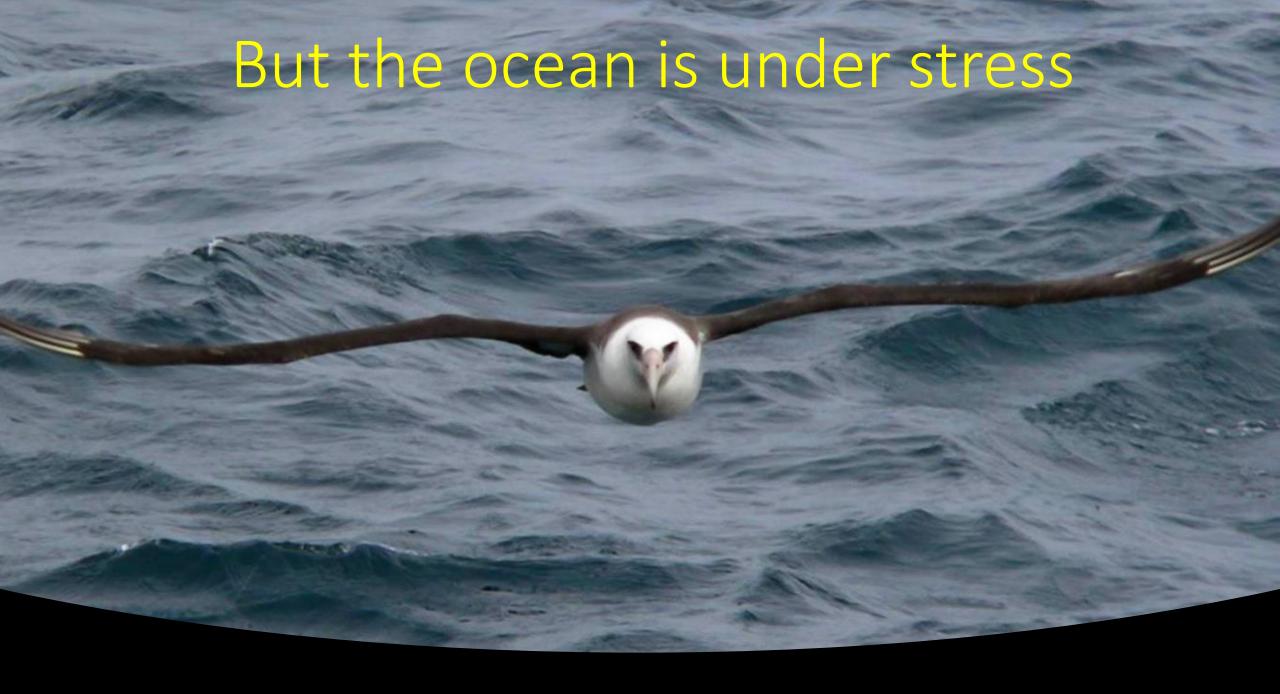




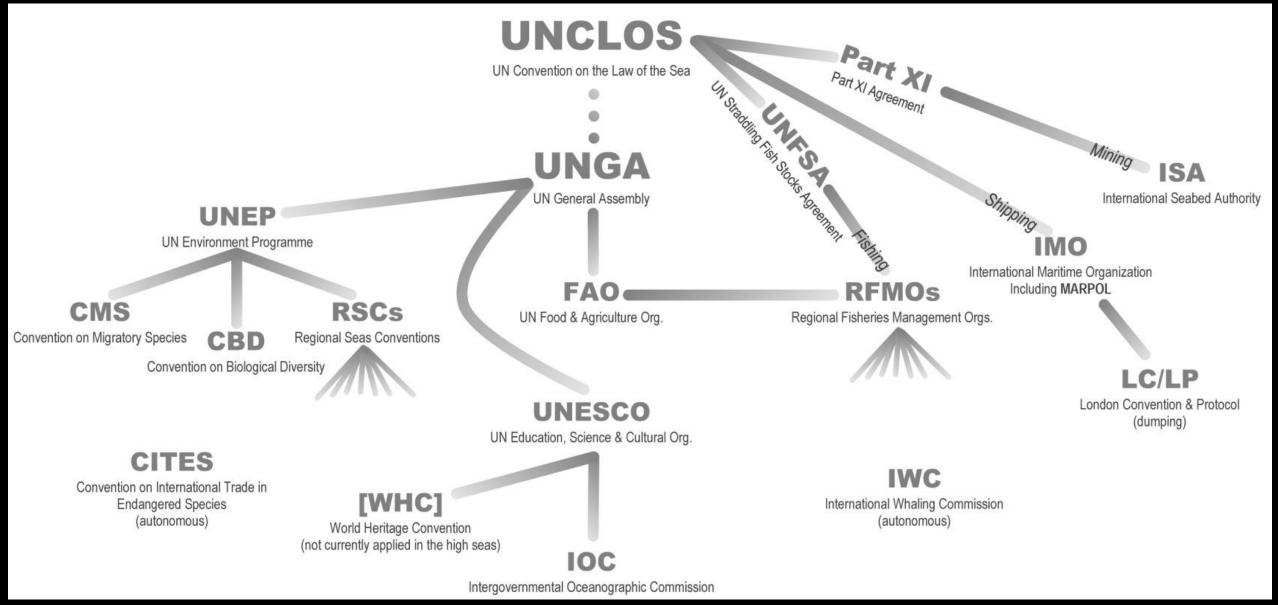


Ocean is vertically connected too!

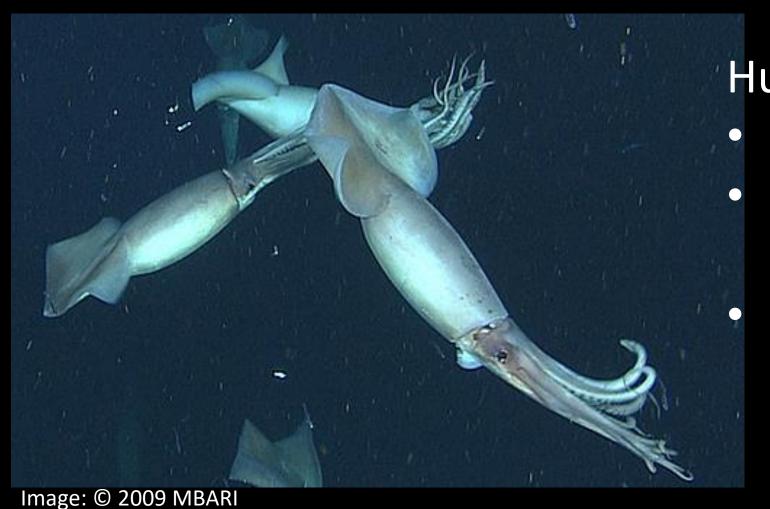




Challenge of sharing stewardship in a fractured system



Unregulated, unreported [and unassessed] fishing can weaken ecosystems

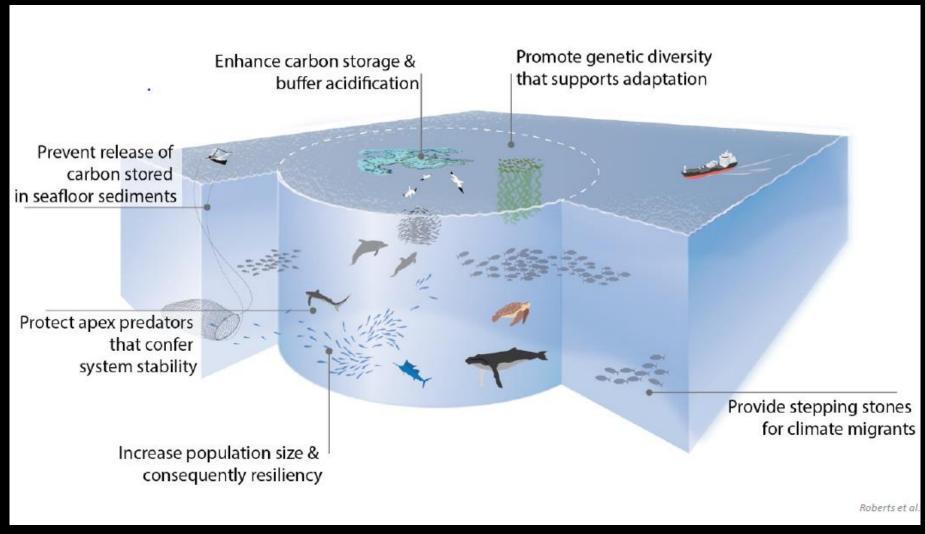


Humboldt squid:

- Fished since 1990s
 - Rising concerns about overfishing
 - 2021: first requirements for data, VMS and 5% observer coverage (SPRFMO CMM 18-2020)



Global mechanism for marine protected areas



Importance of MPAs for climate resilience

Ocean

Diversity, Distribution, Abundance







































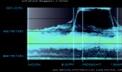




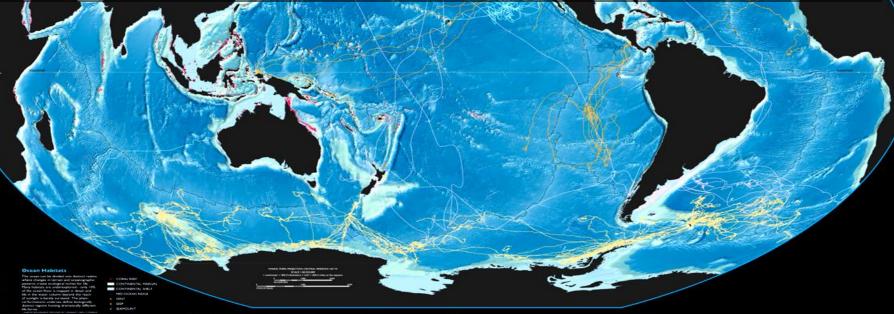








for integrating biodiversity













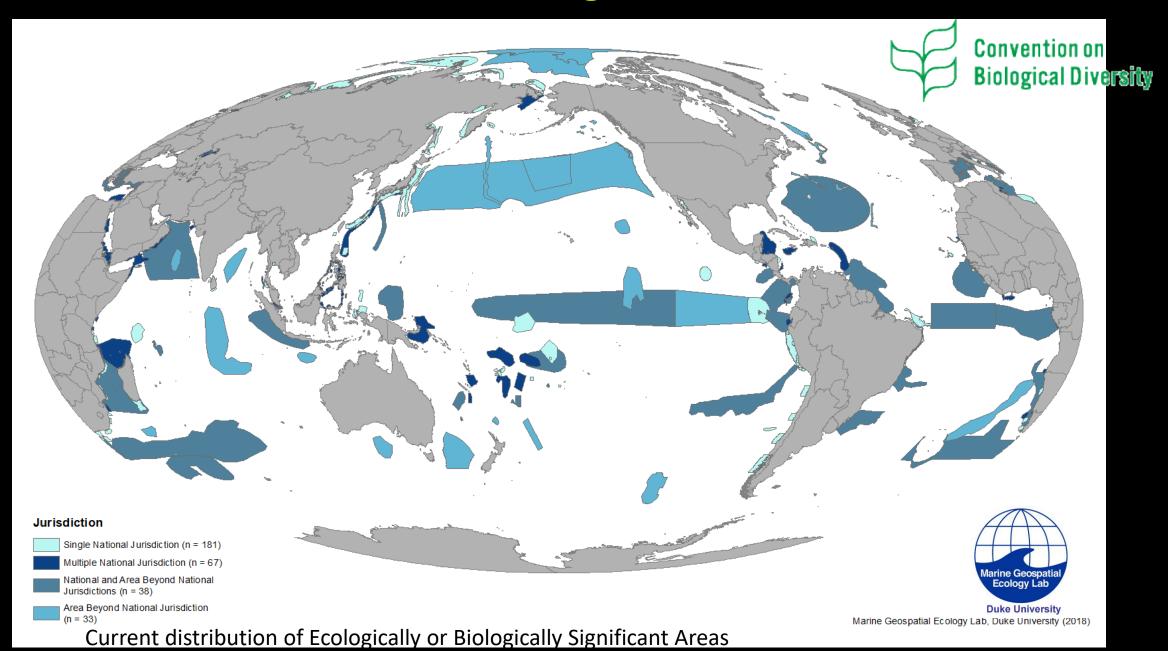








...and for coordinating across boundaries



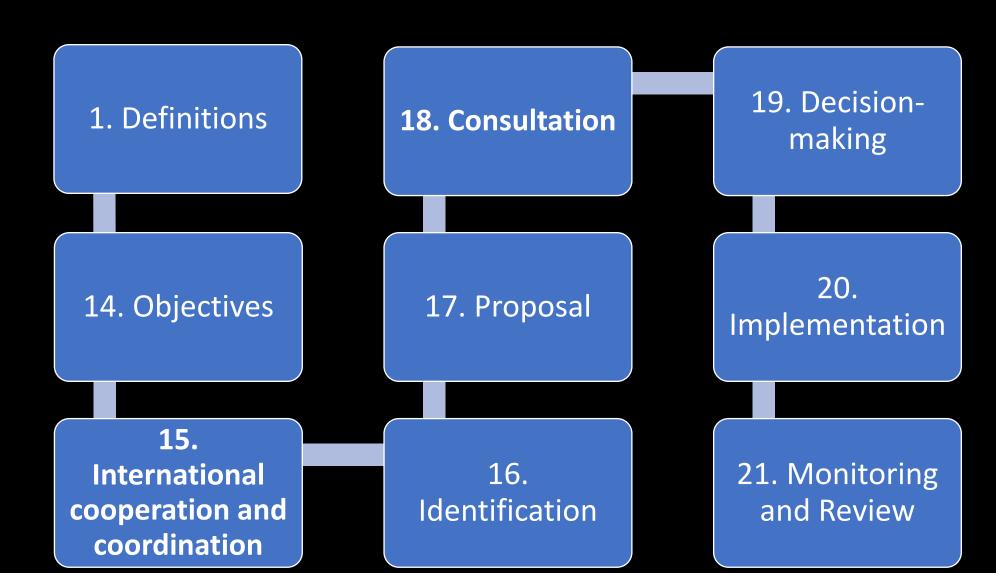
Where are we now with BBNJ Agreement?

Marine **Area-based** genetic management tools resources Capacity-**Environment building &** -al impact transfer of assessments marine technology

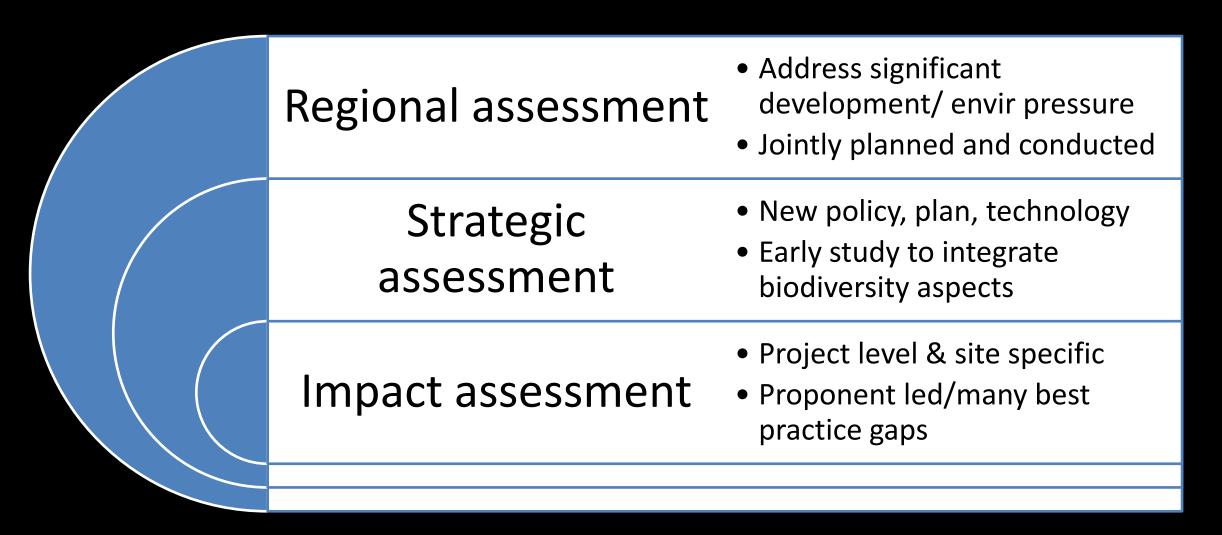
UNGA Resolution A/72/249, 2017

- Package deal
- Not undermine
- Wide participation
- Four meetings over two years
- 4th meeting postponed due to Covid-19

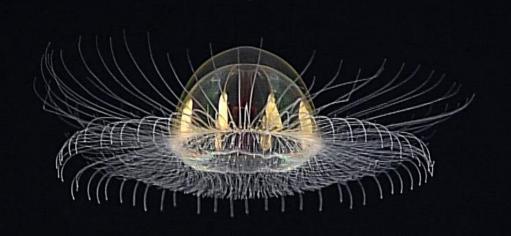
Part III. Area-based Management Tools including Marine Protected Areas (MPAs)



Multiple roles of environmental assessments



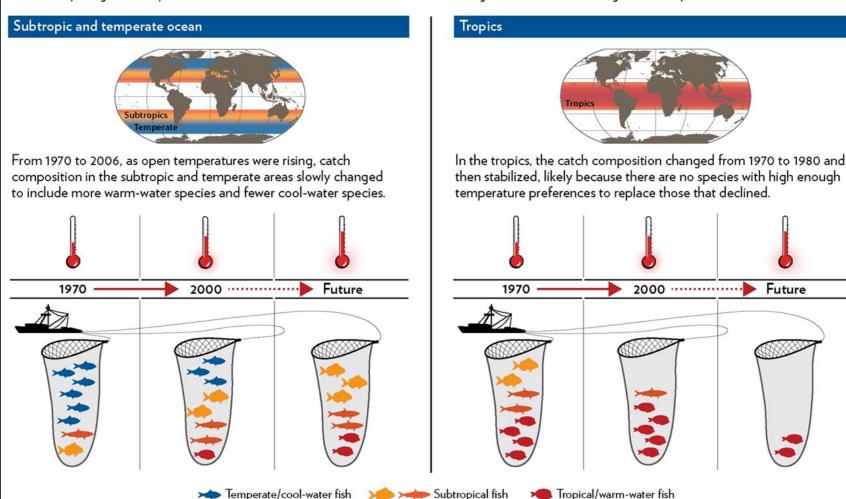
What roles for data and technology, science and innovation?



Preparing for future oceans

Warming Oceans Are Reshaping Fisheries

Marine species are gradually moving away from the equator into cooler waters, and, as a result, species from warmer waters are replacing those traditionally caught in many fisheries worldwide. Scientific studies show that this change is related to increasing ocean temperatures.



These shifts could have negative effects including loss of traditional fisheries, decreases in profits and jobs, conflicts over new fisheries that emerge because of distribution shifts, food security concerns, and a large decrease in catch in the tropics.

Spatial Management: Scientific and legal considerations for dynamic management in the high seas," Marine Policy https://doi.org/10.1016/j.marpol.2020.104102

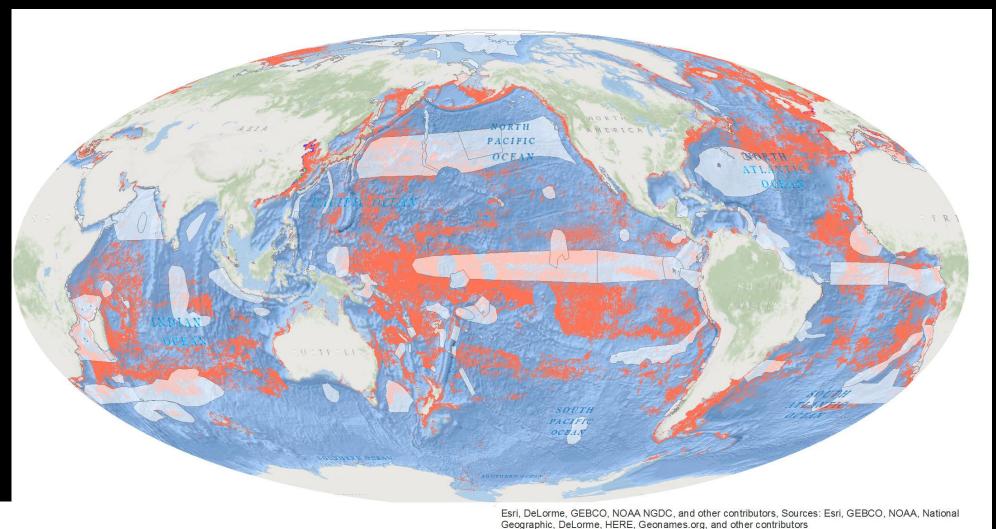
Ortuño Crespo et al, 2020. "Beyond Static

This graphic presents concepts from: Cheung, W.W.L., R. Watson and D. Pauly. 2013. Signature of ocean warming in global fisheries catch. Nature. DOI:10.1038/nature12156.

The thermometers are representative of trends in ocean temperature over time and the fish are representative of trends in catch composition over time. They do not represent specific values. Please consult the results section of Cheung et al. (2013) for exact data points.

Graphic by The Pew Charitable Trusts' ocean science division, www.pewenvironment.org/research-programs

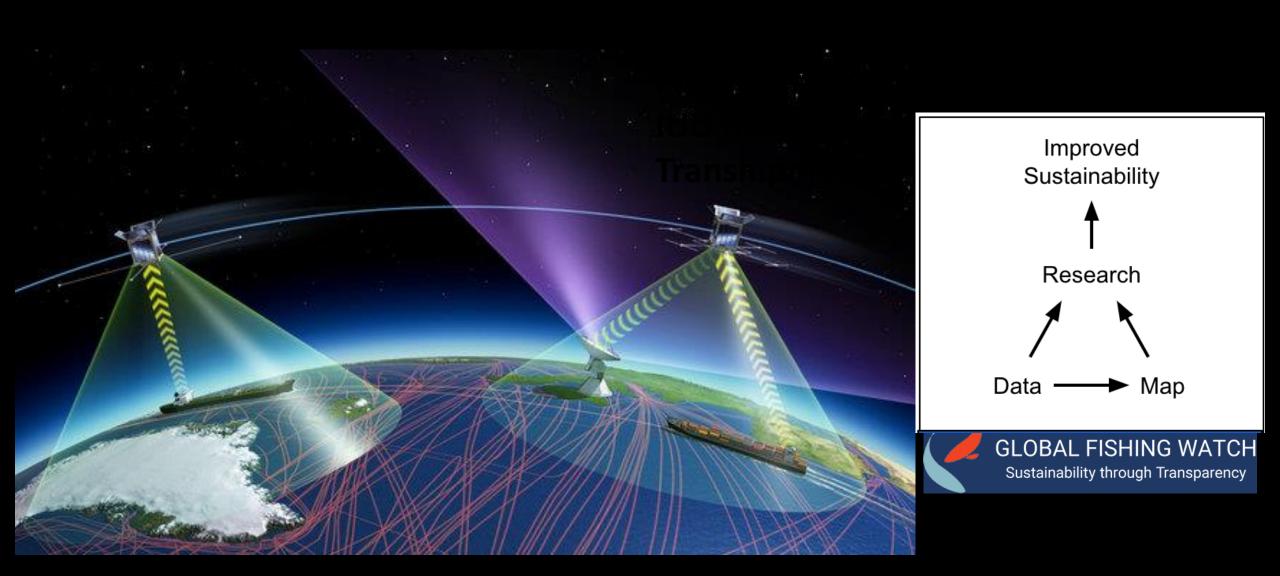
Measures for ecosystems and migratory corridors too big for an MPA or where productivity or species aggregation may be seasonal

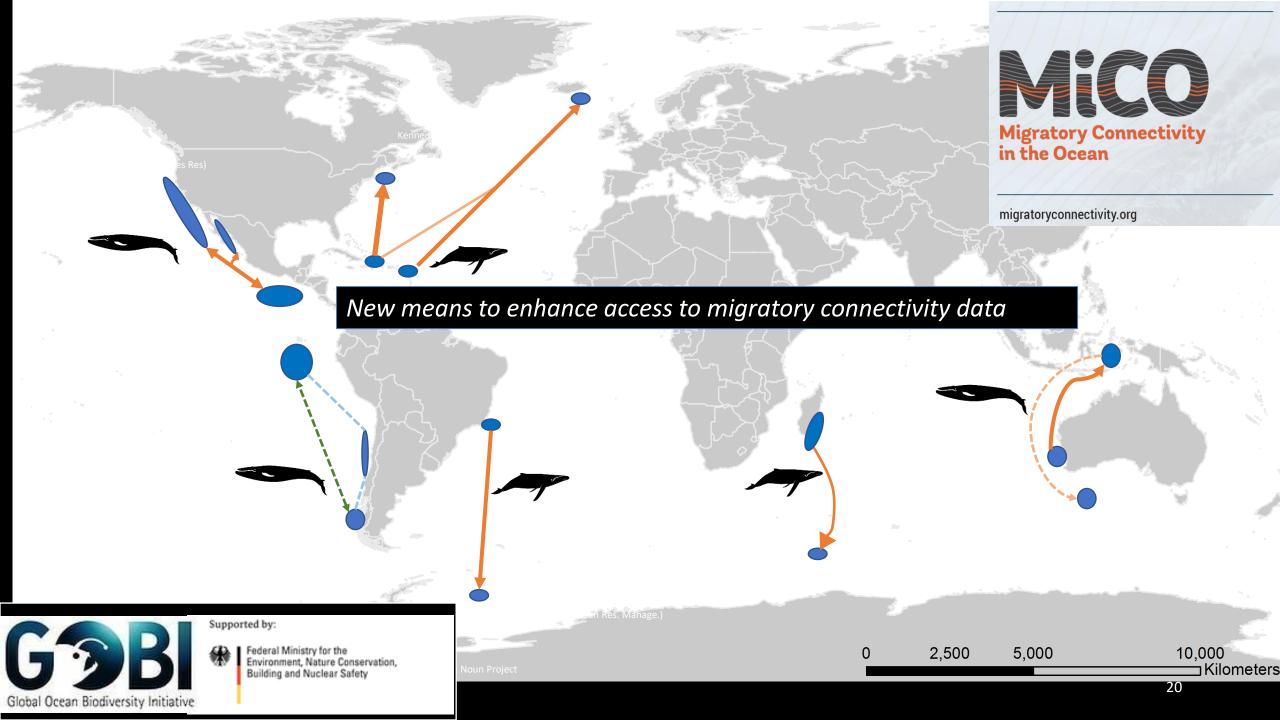




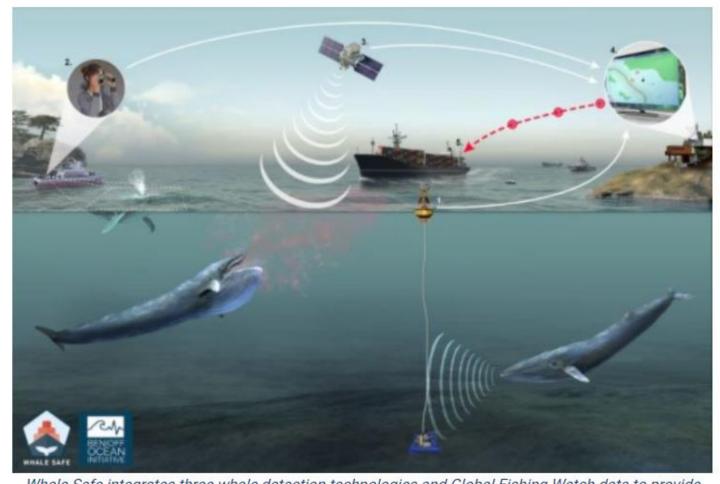


Satellite tracking can follow fishing effort



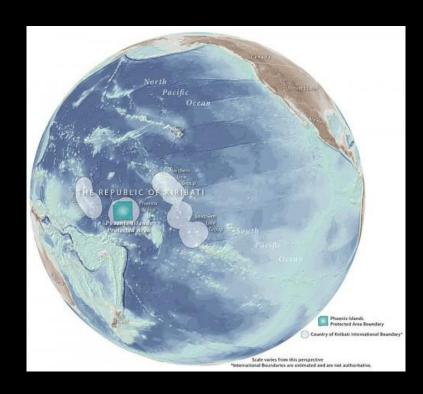


Can be combined to advance EBM, protect connectivity, and safeguard migratory species



Whale Safe integrates three whale detection technologies and Global Fishing Watch data to provide data insights in near real-time.

Tracking fishing effort using satellite-based AIS data

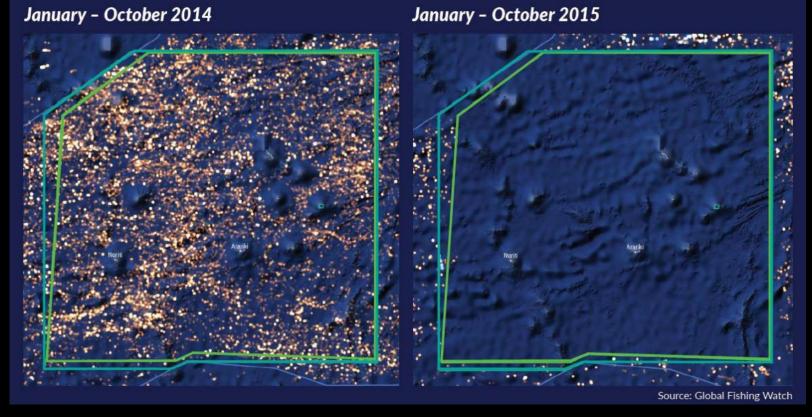


Allows us to track how well management measures are working

Phoenix Islands Protected Area (PIPA)

Fishing before MPA protection

Fishing after MPA protection



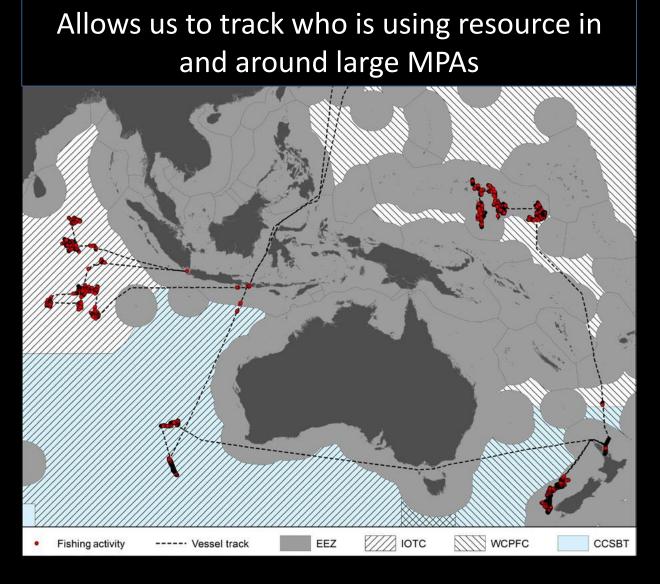
Dunn et al. 2018

Empowering high-seas governance with satellite vessel tracking



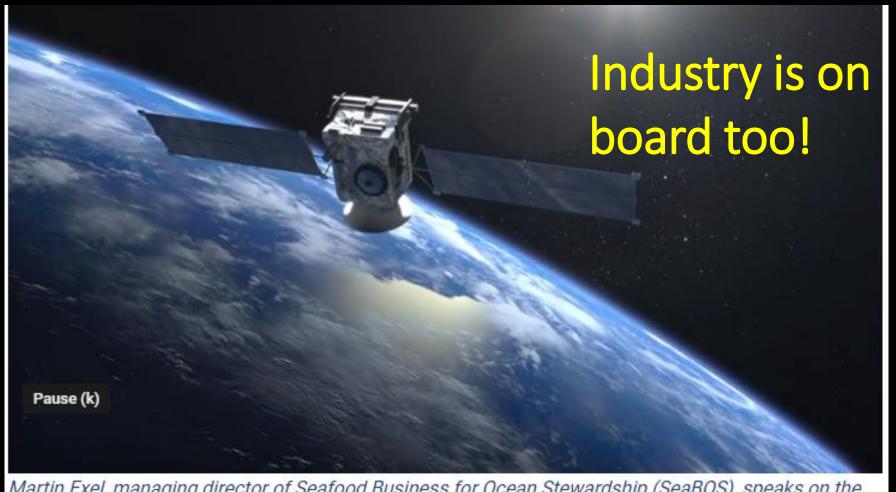


wileyonlinelibrary.com/journal/faf



© 2018 The Authors, Fish and Fisheries Published by John Wiley & Sons Ltd.

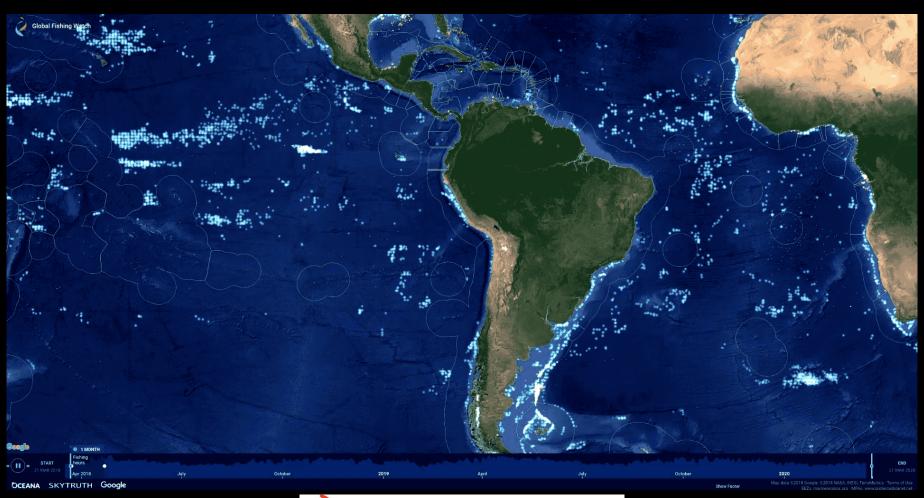
"Access to public vessel authorization and identification and tracking data provides industry operators and producers that follow the rules with an opportunity to demonstrate their compliance"

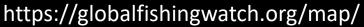


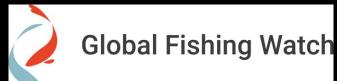
Martin Exel, managing director of Seafood Business for Ocean Stewardship (SeaBOS), speaks on the importance of the seafood industry's role in promoting transparency and sustainability.

https://globalfis hingwatch.org/ newsviews/seafoodsectortransparency

Enhancing global cooperation for monitoring, control and enforcement







Summary: Key roles for the BBNJ Agreement: Building ecological and institutional resilience

MPAs and other ABMTs EIAs & Strategic Environmental Assessments **Consultation and Coordination** Data & Technology Ocean Science & Innovation



Thank you for your attention!

Questions?

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More information:

https://www.dosi-project.org/topics/biodiversity-beyondnational-jurisdiction-bbnj/

https://www.iucn.org/news/marine-andpolar/202006/building-ambition-high-seas-treaty-june-iucnwebinar-series-what-did-you-miss

Upcoming IUCN webinar on Resilience and the BBNJ Agreement: October 22