Oceano

Recursos Naturais: Água

UC Sustentabilidade





10 MARÇO 2023

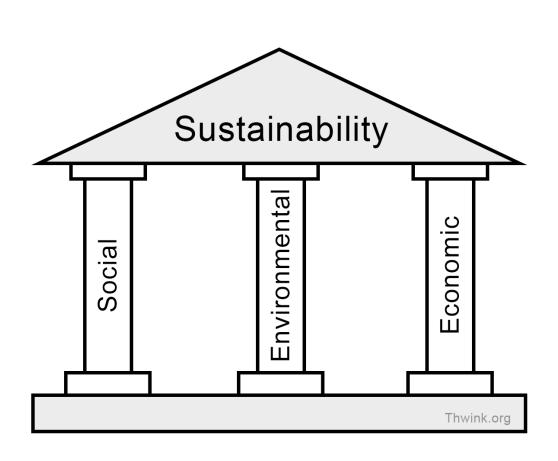


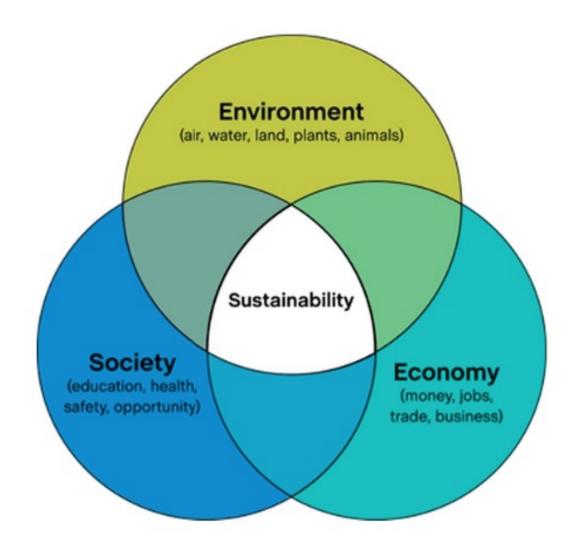


"Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Brundtland Report, 1987

environmentalillnessnetwork.tumblr.com





Dimensões da sustentabilidade

THE THREE SPHERES OF SUSTAINABILITY



Economy trade, business)

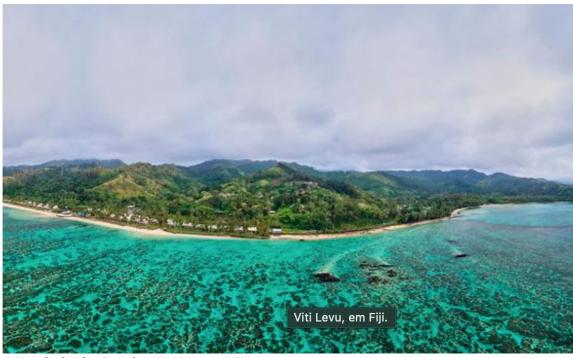
Business Ethics

Fair Trade Worker's Right

Dimensões múltiplas



Década do Oceano lança nova Chamada para Década de Ações



© Unsplash/Alec Douglas | Viti Levu, em Fiji.





Década do Oceano lança nova Chamada para Década de Ações







Década do Oceano lança nova Chamada para Década de Ações





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Deep seabed mining lacks social legitimacy

Aline Jaeckel, Harriet Harden-Davies ... Katherine

Seto

Comment 09 February 2023

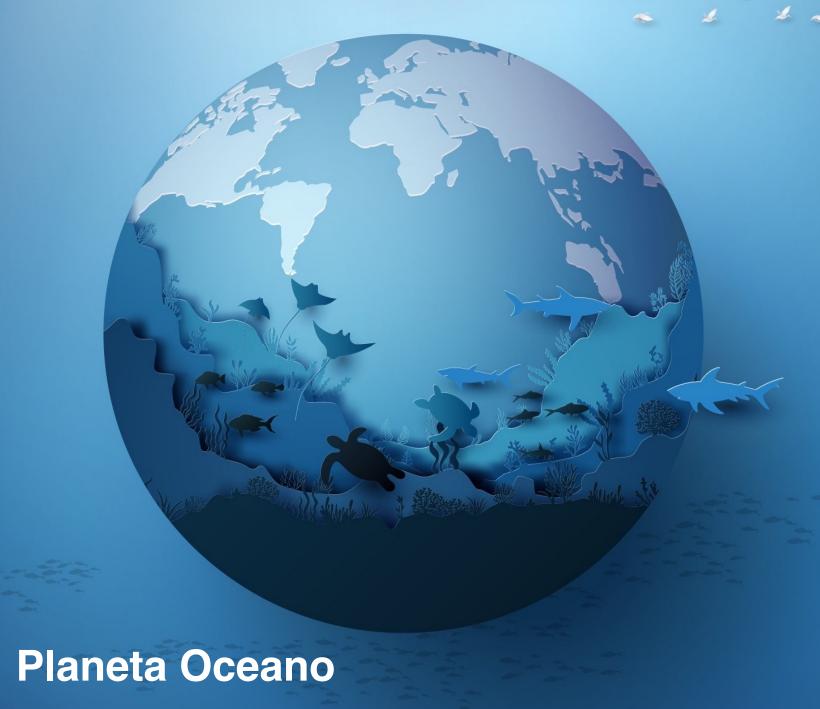






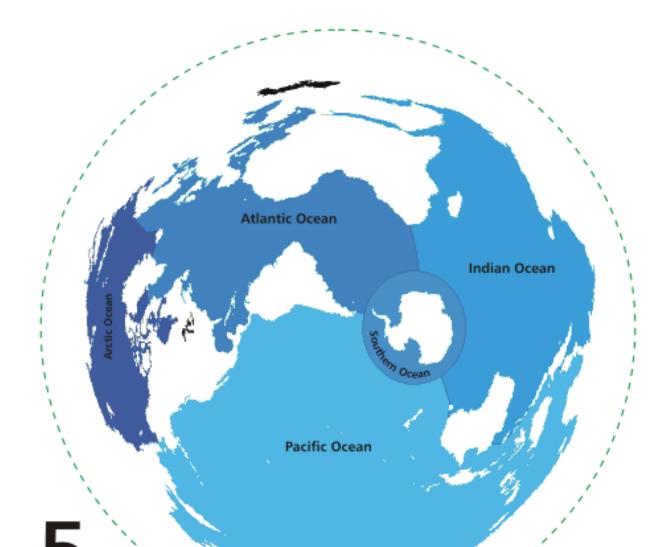






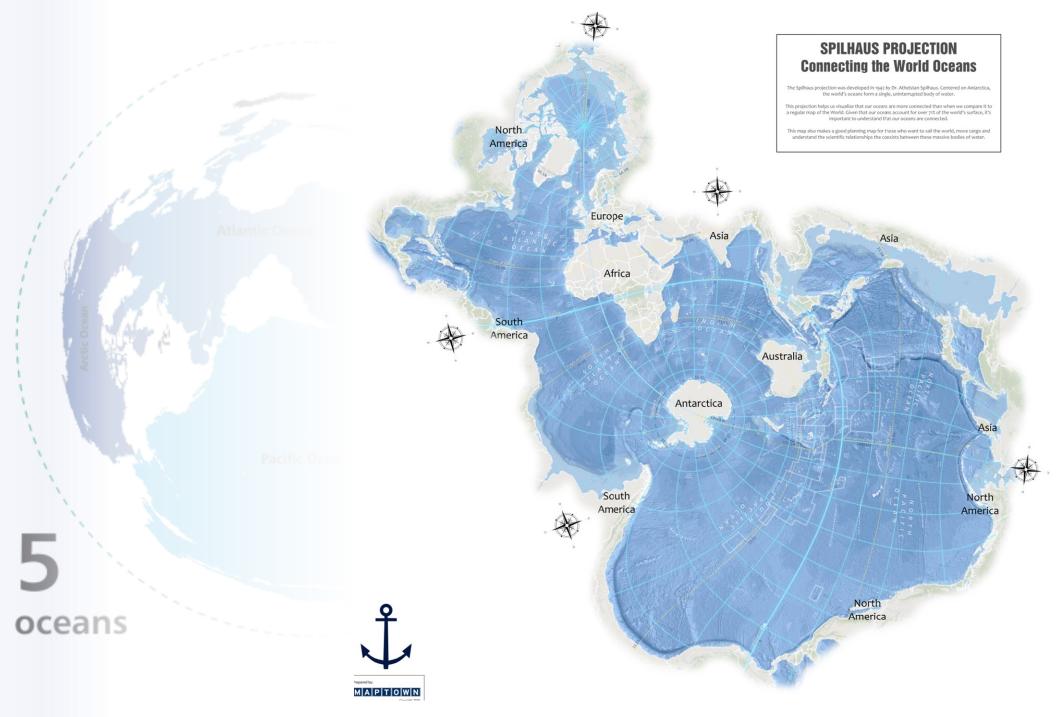






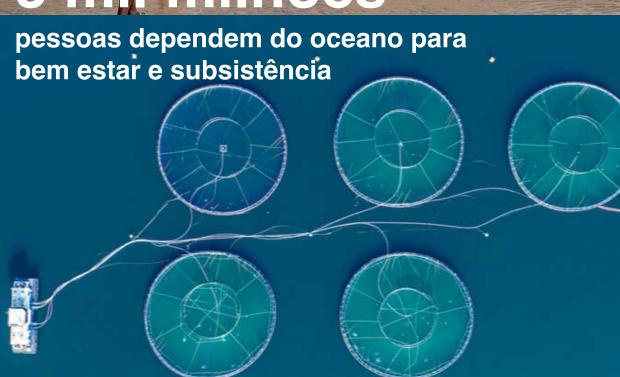
oceans







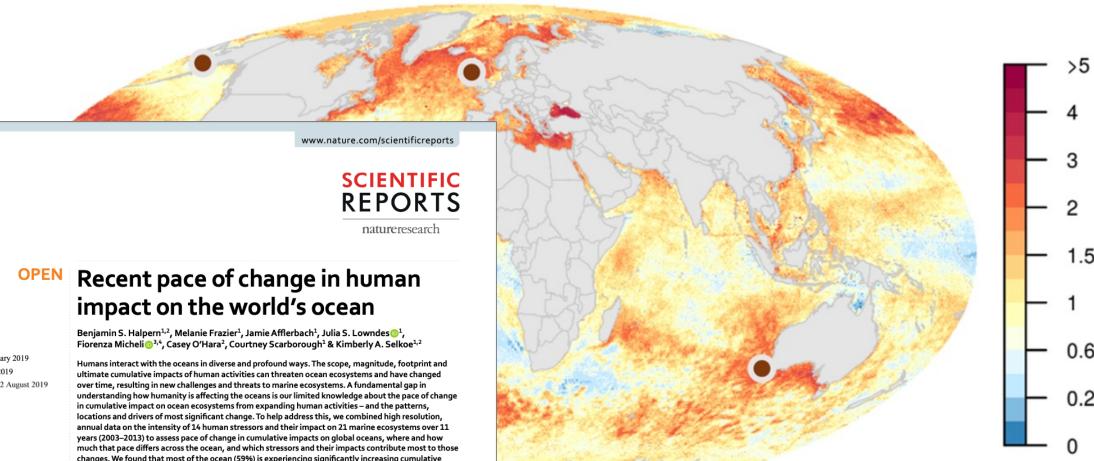








Global cumulative human impact



Received: 18 February 2019 Accepted: 11 July 2019 Published online: 12 August 2019 changes. We found that most of the ocean (59%) is experiencing significantly increasing cumulative impact, in particular due to climate change but also from fishing, land-based pollution and shipping. Nearly all countries saw increases in cumulative impacts in their coastal waters, as did all ecosystems, with coral reefs, seagrasses and mangroves at most risk. Mitigation of stressors most contributing to increases in overall cumulative impacts is urgently needed to sustain healthy oceans.

Impacts of human activities on the ocean have been shown to be substantial, ubiquitous and changing. The resulting cumulative impact of these activities often leads to ecosystem degradation or even collapse³⁻⁷, and studies of individual marine ecosystems (e.g., coral reefs, kelp forests, seagrasses) have shown declines in condition globally due to increasing anthropogenic stressors^{8–13}. Ongoing and emerging policy around managing for cumulative impacts to the oceans creates a pressing need to understand how, and how fast, cumulative impacts are changing. Expansion of existing uses of the ocean and emerging new ones - including offshore energy, ocean farming, and ocean mining - requires an understanding of what else is impacting those locations, how those new uses will add to existing impacts, and critically whether the cumulative impact of these ocean uses is changing,



THIS YEAR OVER

9 MILLION TONNES

WILL ENTER THE WORLD'S OCEANS



MILLION **TONNES**

BY 2026

THE RATE WE ARE **POLLUTING THE OUR OCEAN DOUBLES**









AUSTRALIANS CONSUME



of plastic each year

<**9**%

52%

of all

SEA TURTLES⁴

PLASTIC DOES NOT

"Plastic is so permanent and so indestructible that when you've tossed it, in the ocean or even into a dustbin... it does not go away"

Sir David Attenborough

in Australia's marine environment²





SECOND STACT NOW







70%

of marine plastic pollution **BEFORE** it enters our oceans:

PLASTIC DOESN'T DECOMPOSE

IT JUST



can break up into over **10,000 PIECES**



PLASTIC BAGS

420 MILLION

PLASTIC BOTTLES

TRILLIONS OF

MICROPLASTIC BEADS & FIBRES

96%

OTHER PIECES OF PLASTIC PACKAGING

90%

of all

2 Ban all single-use

4 Ensure plastic producers &

SEA BIRDS

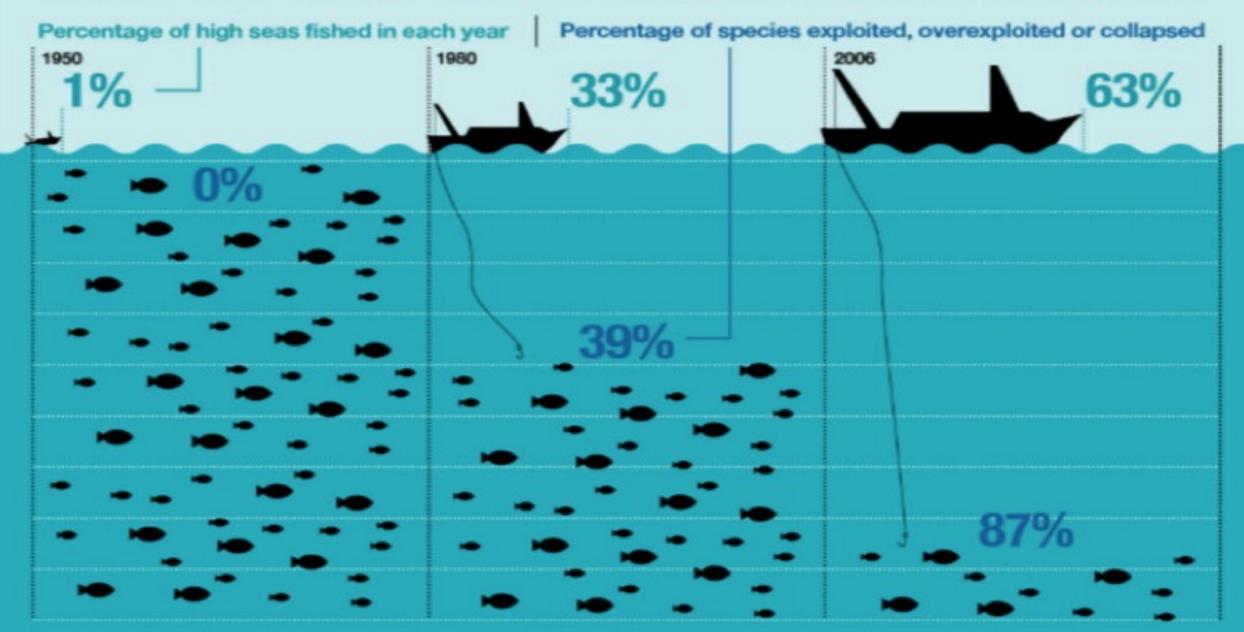
1 Introduce a container deposit system to eliminate beverage rubbish

3 Remove microbeads

INFORMATION SOURCES



There are fewer fish in the sea than ever before



Calculations based on Pauly, D. 2006. Major trends in small-scale marine fisheries, with emphasis on developing countries, and some implications for the social sciences. Maritime Studies (MAST), 4 (2)









#TimeForAction











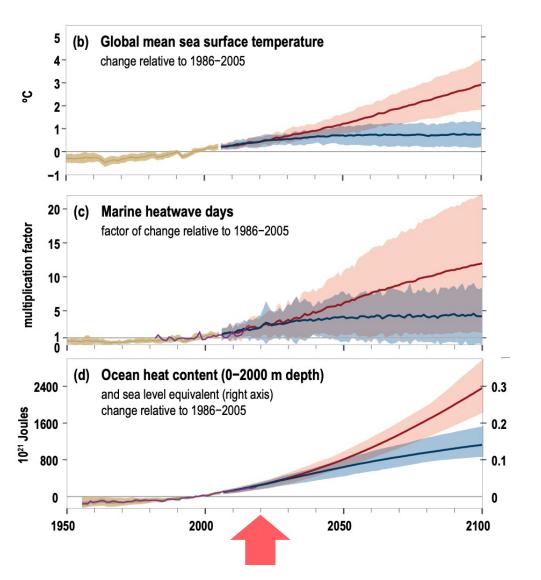
SUMMARY FOR POLICYMAKERS

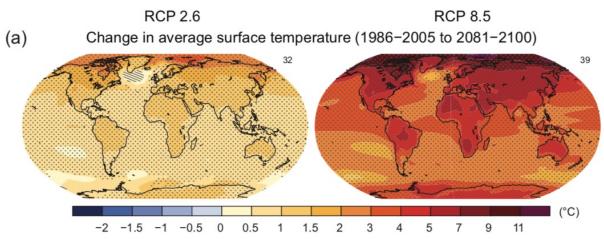










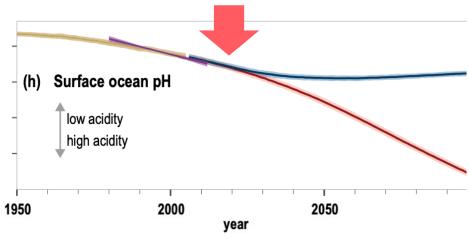


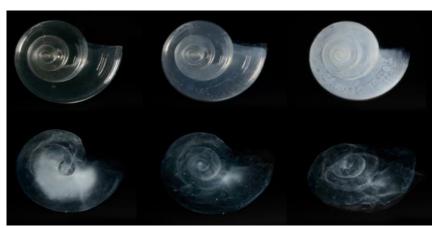
Aquecimento do Oceano

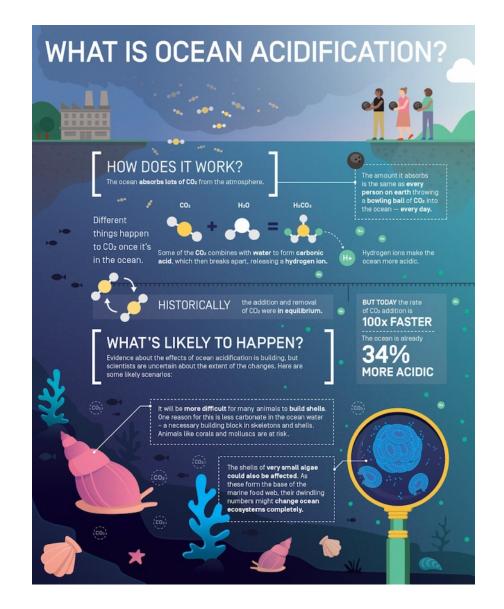
IPCC (2019)



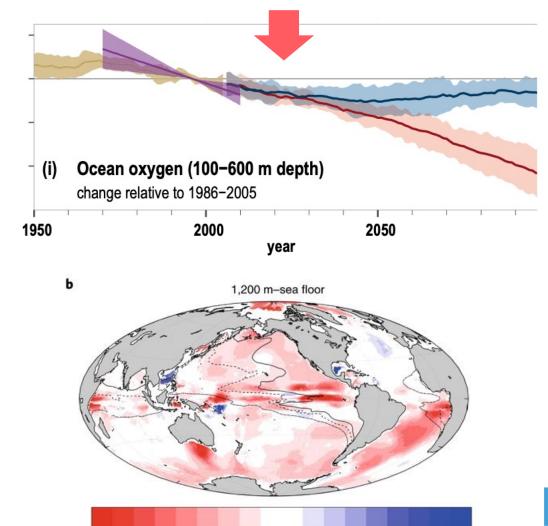
Acidificação









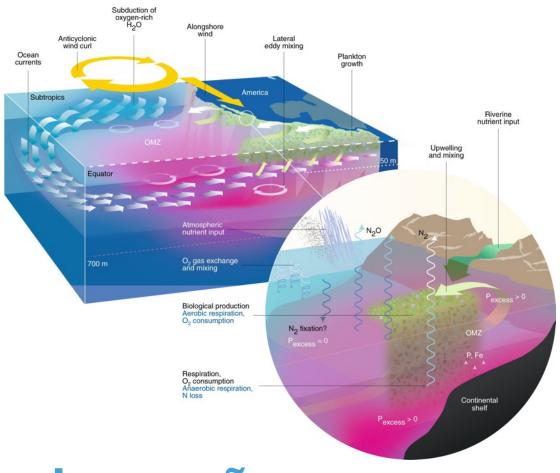


DO change [µmol kg⁻¹ decade⁻¹]

≥5

-2.5

≤-5

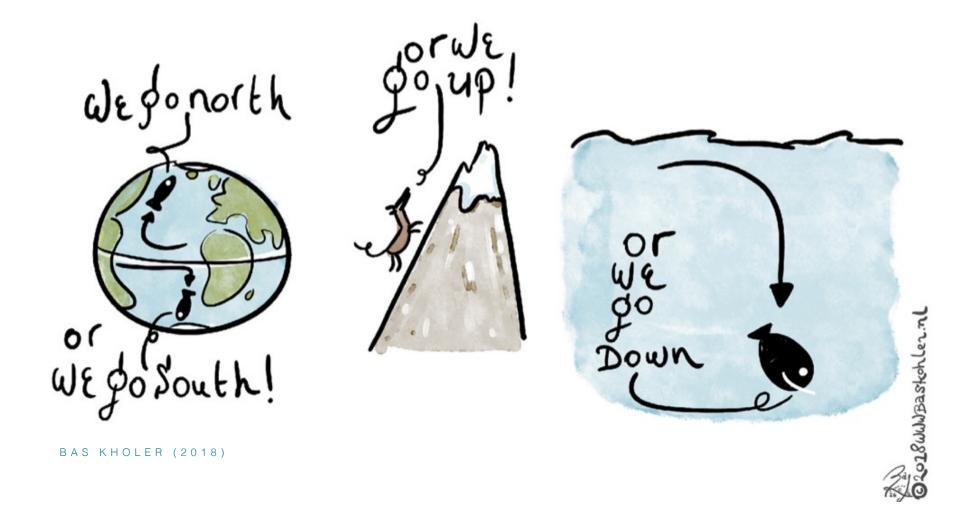


Deoxigenação

OSCHLIES ET AL. (2018) NATURE GEOSCIENCE

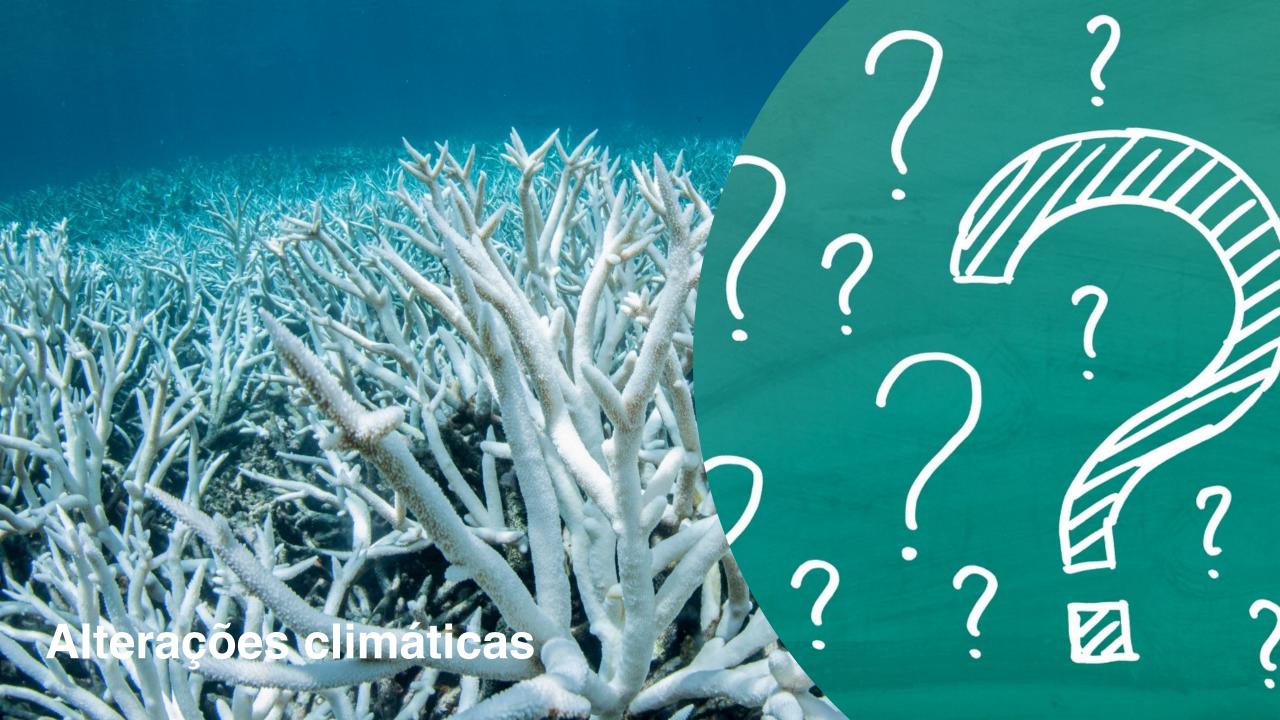


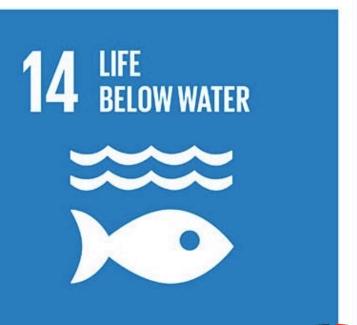
Climate driven species redistribution







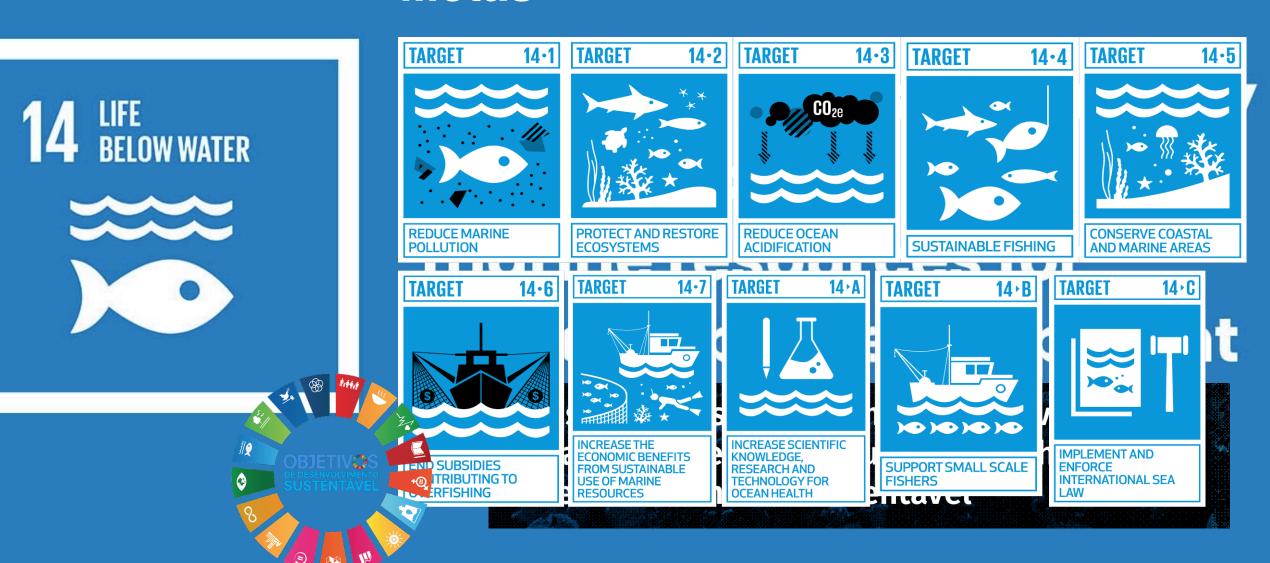




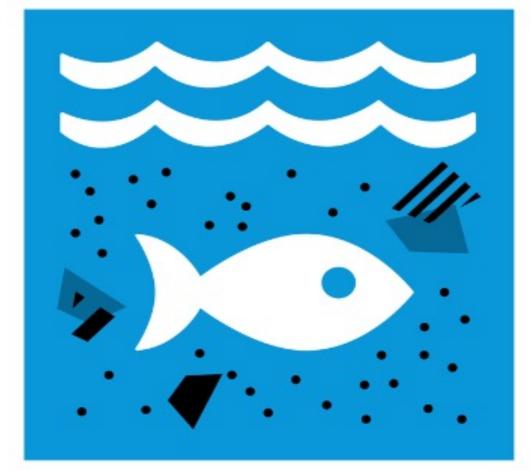
Conserve and sustainably use the oceans, seas and marine resources for sustainable development

Conservar e usar de forma sustentável os oceanos, mares e os recursos marinhos para o desenvolvimento sustentável

Metas



TARGET 14·1



REDUCE MARINE POLLUTION

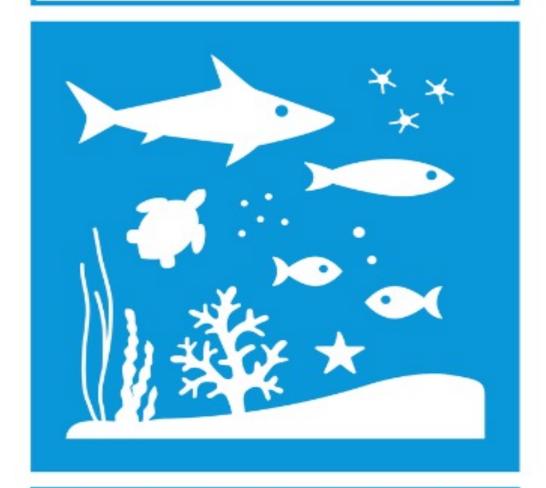
Até 2025

prevenir e reduzir significativamente

a poluição marítima de todos os tipos, especialmente a que advém de atividades terrestres, incluindo detritos marinhos e a poluição por nutrientes



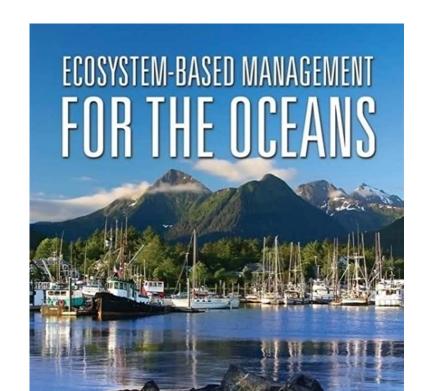
14.2



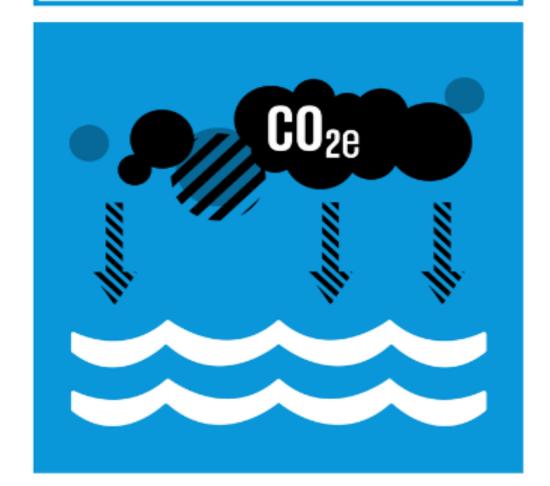
PROTECT AND RESTORE ECOSYSTEMS

Até 2020 gerir de forma sustentável e proteger os ecossistemas marinhos e costeiros para evitar impactos adversos

significativos



14.3



REDUCE OCEAN ACIDIFICATION

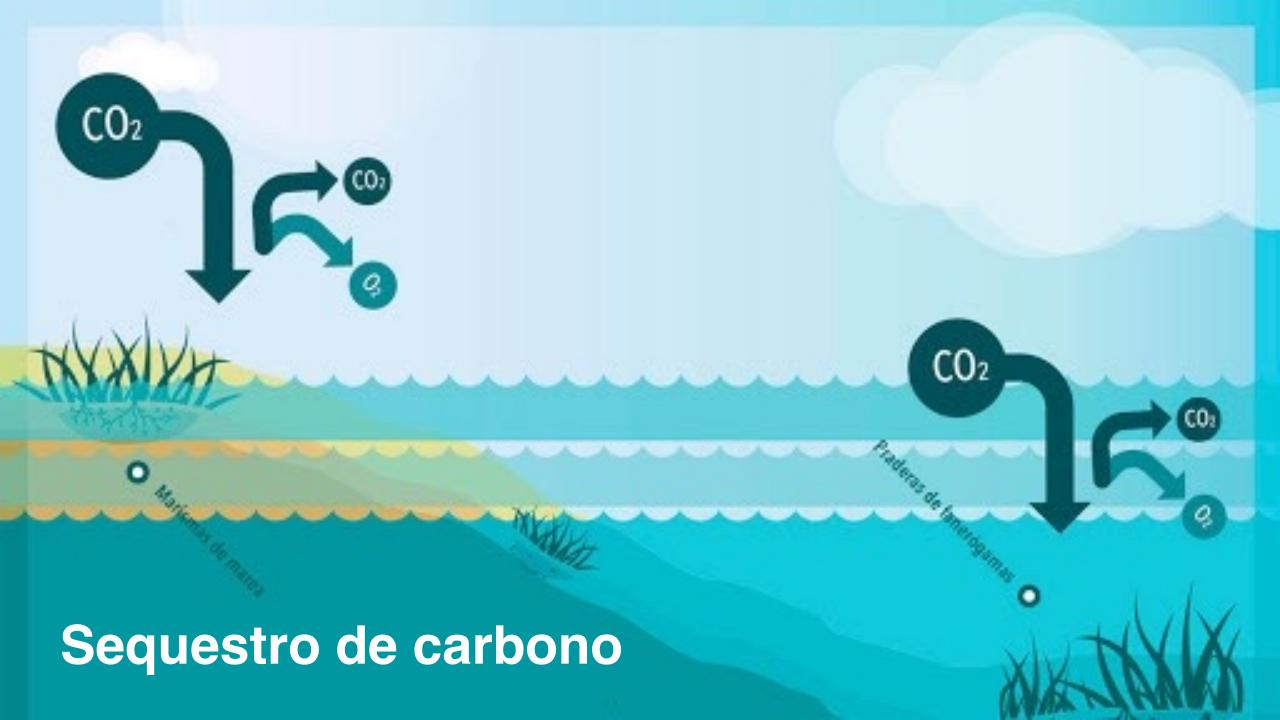
Minimizar e enfrentar os impactos da acidificação dos oceanos, inclusive através do reforço da cooperação científica em todos os níveis









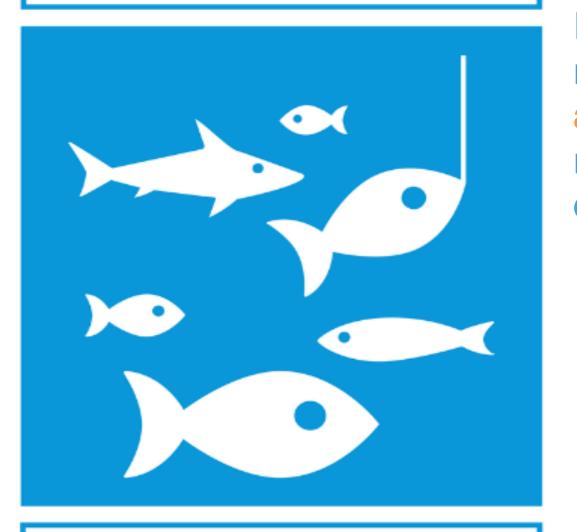








14•4



SUSTAINABLE FISHING

Até 2020

Regular, efetivamente, a extração de recursos, acabar com a sobrepesca e a pesca ilegal, não reportada e não regulamentada e as práticas de pesca destrutivas





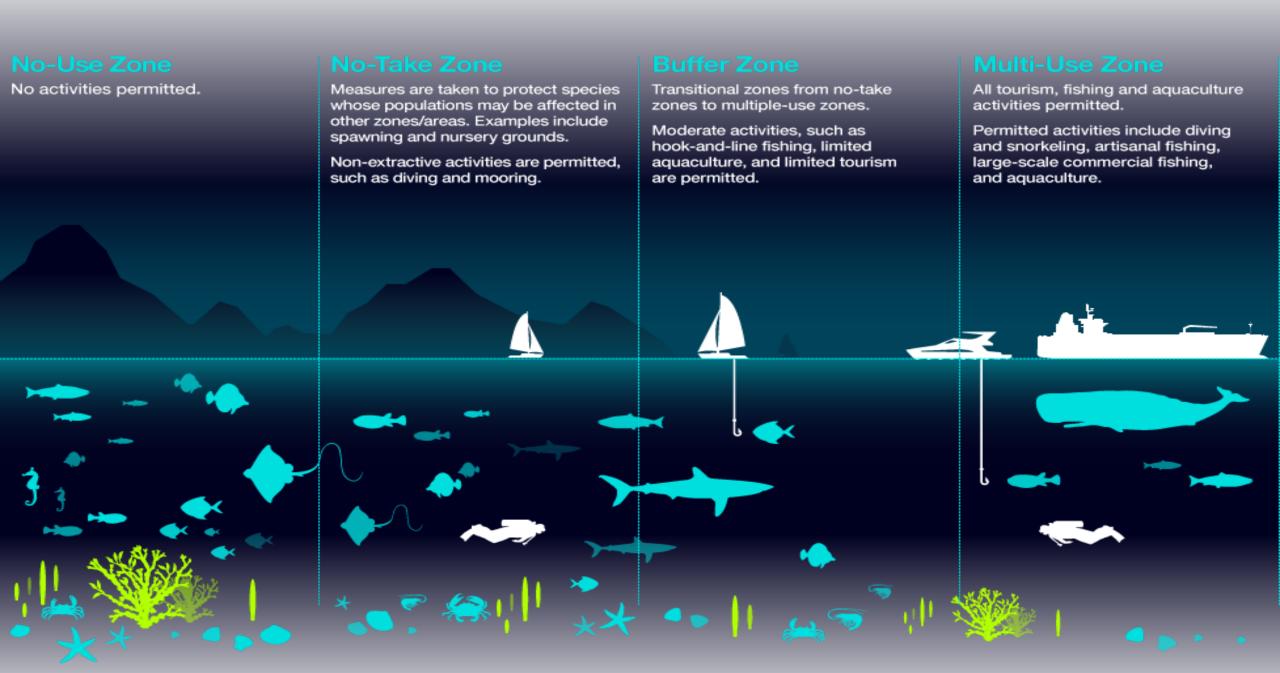
CONSERVE COASTAL AND MARINE AREAS

Até 2020

conservar pelo menos 10% das zonas costeiras e marinhas, de acordo com a legislação nacional e internacional, e com base na melhor informação científica disponível



Features of Marine Protected Areas Worldwide

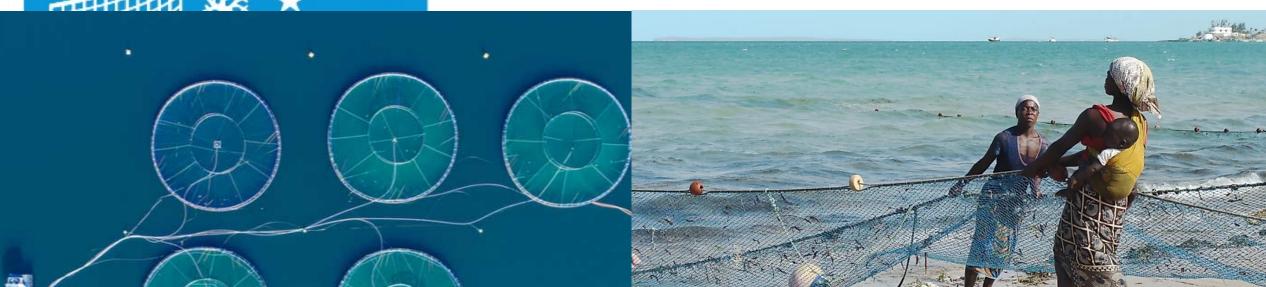


TARGET 14-7

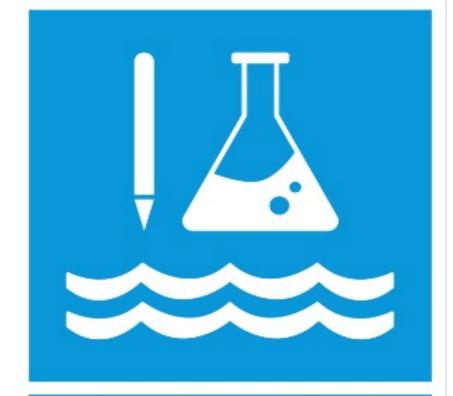


Até 2030

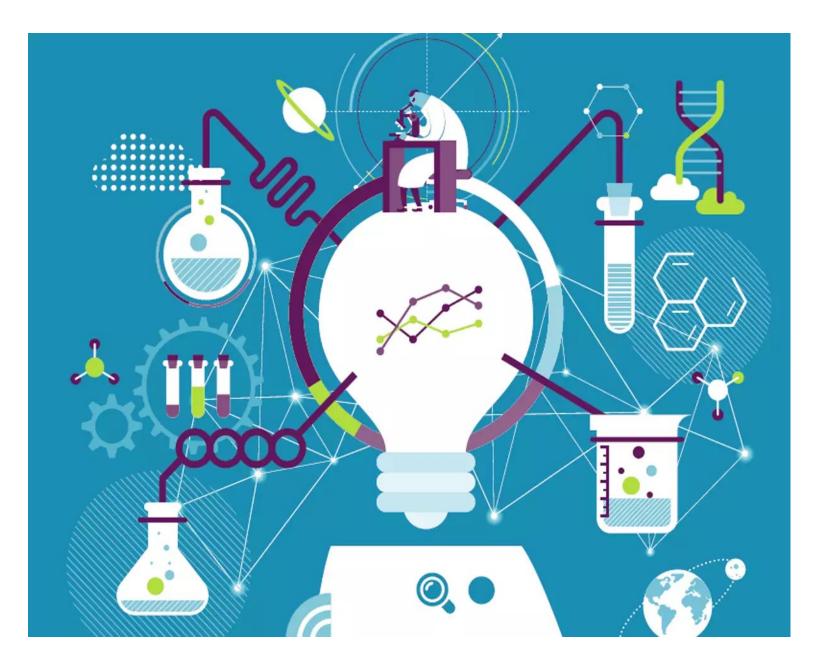
aumentar os benefícios económicos para os pequenos Estados insulares em desenvolvimento e os países menos desenvolvidos, a partir do uso sustentável dos recursos marinhos, inclusive através de uma gestão sustentável da pesca, aquicultura e turismo



TARGET 14 A



INCREASE SCIENTIFIC KNOWLEDGE, RESEARCH AND TECHNOLOGY FOR OCEAN HEALTH













Biodiversity Beyond National Jurisdiction



WWF: Landmark High Seas Treaty agreed, ushering in new rules for two-thirds of the ocean

Posted on 04 March 2023

NEW YORK CITY, United States (4 March 2023) – WWF strongly welcomes the agreement of the text for a new global legally binding High Seas Treaty reached by nations today in New York, creating a framework to conserve marine life and restrain harmful activities in two-thirds of the ocean.

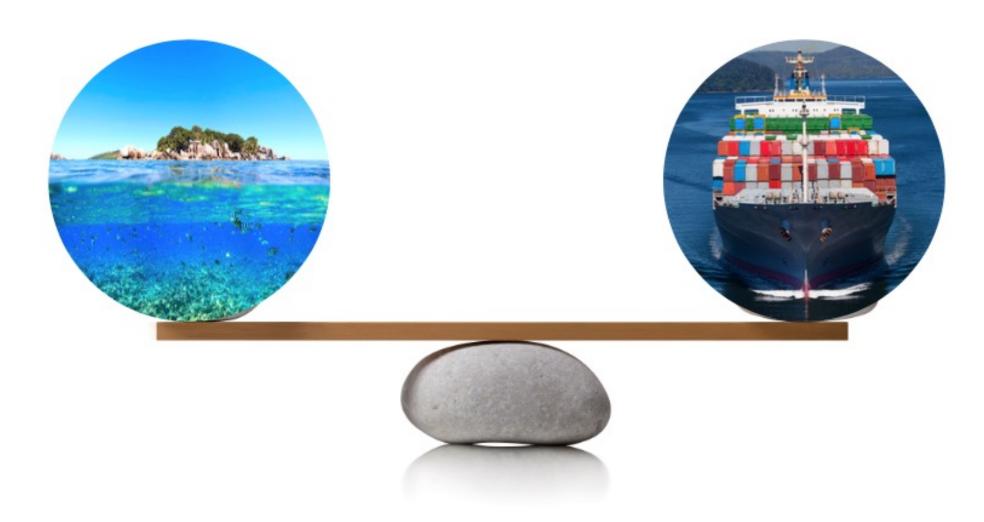


Yellowfin tuna, Pacific Ocean Mexico
© naturepl.com

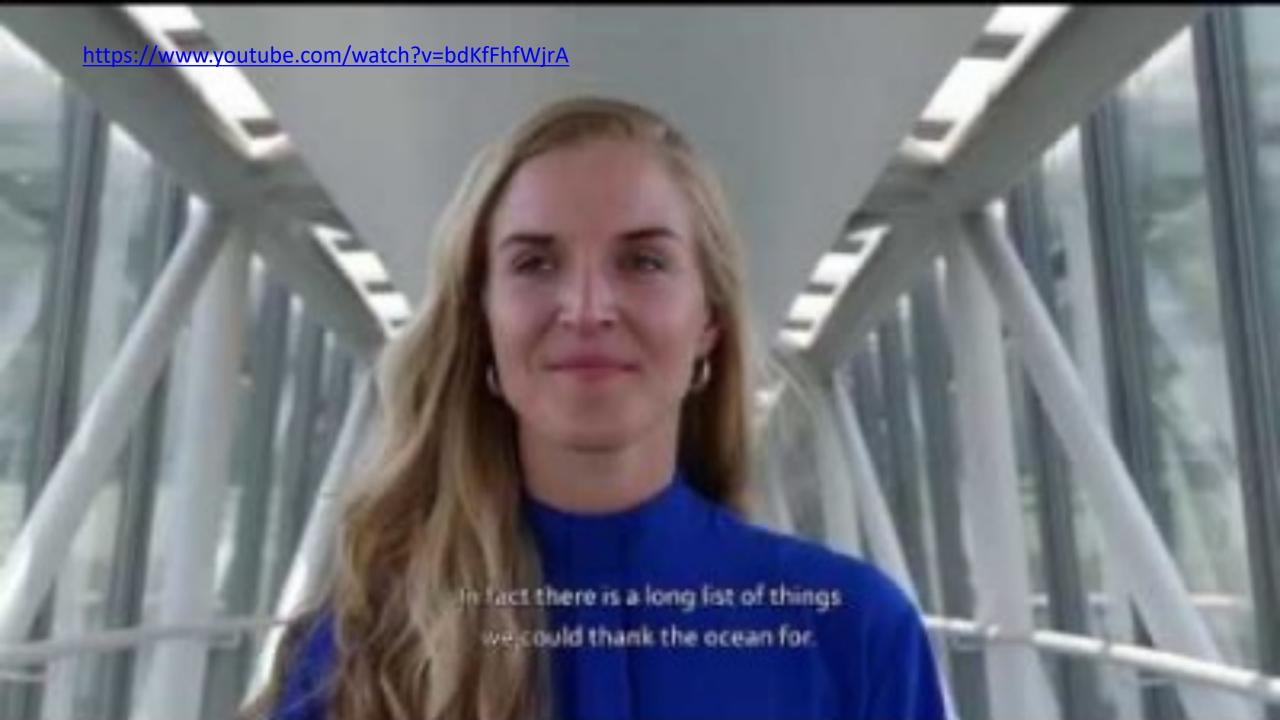




Biodiversity Beyond National Jurisdiction



Conservação versus Desenvolvimento





A NEW APPROACH FOR A

SUSTAINABLE BLUE ECONOMY IN THE EU







