





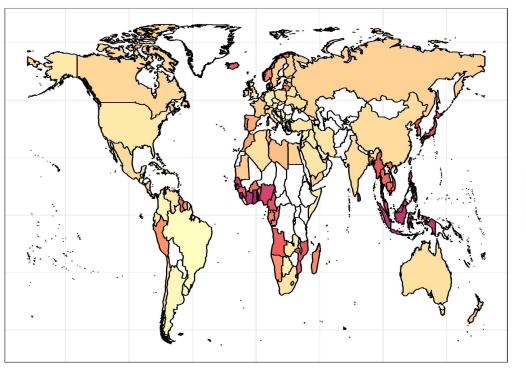
SEAFOOD IS CLIMATE SMART





BILLIONS OF PEOPLE DEPEND ON SEAFOOD

Dependence on oceans for protein





Country	Fish-derived animal protein
Maldives	71%
Cambodia	69%
Sierra Leone	64%
Kiribati	62%
Solomon Islands	59%
Sri Lanka	55%
Bangladesh	54%
Indonesia	53%
Ghana	50%

Minerals

Essential fatty acids

Vitamins

help prevent preeclampsia, preterm delivery, low birth weight, and support cognitive development and better vision in children.

Essential

Calcium

fatty acids

Vitamin

essential for brain increases maternal survival rates.

lodine

lodine essential for brain development in fetus and young children and helps prevent stillbirth.

> Zinc crucial for childhood survival, reduces stunting in children and fights diarrhea.

development in children and

essential for a healthy pregnancy; helps prevent brain and spinal cord birth defects, and supports healthy maintenance of the nervous system and brain in children. Vitamin Vitamin D B12 **Vitamin**

Vitamin B12

essential for the development of strong, healthy bones, teeth and muscles in children and helps prevent preeclampsia, preterm delivery and low birth weight.

Calcium helps prevent preeclampsia and preterm delivery, and is essential for strong bones and teeth.

Iron

Zinc

Vitamin A essential for childhood survival, prevents blindness, helps fight infections and promotes healthy growth.

FISH AVAILABILITY AND ACCESSIBILITY

Fish can be more affordable than other animal-sourced foods.

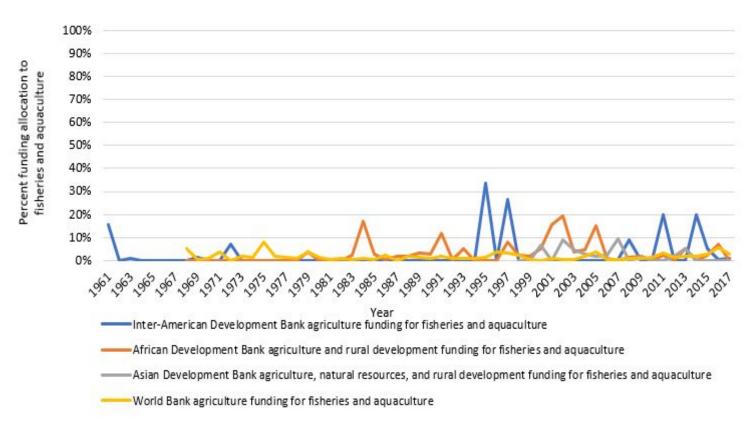
Wild fish often available to landless people who cannot grow crops.

Safety net during economic & climate-driven shocks and geopolitical conflicts



BUT SEAFOOD HAS BEEN IGNORED IN THE GLOBAL FOOD AND NUTRITION DIALOGUE

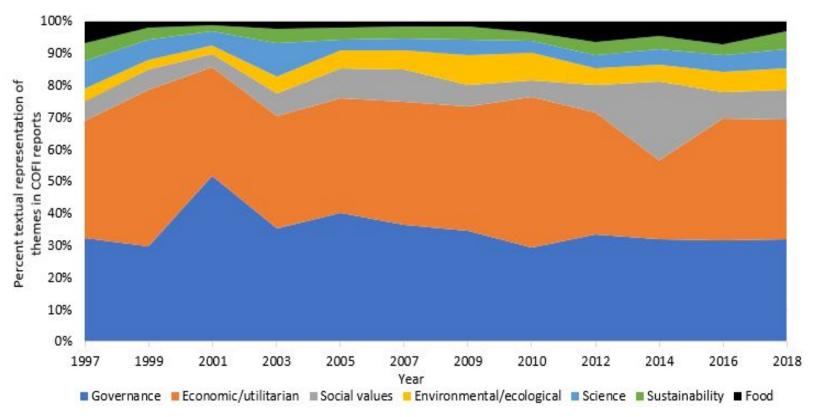
International development funding priorities:





MEANWHILE, FOOD AND NUTRITION HAVE BEEN IGNORED IN THE GLOBAL FISHERIES DIALOGUE!

Discussions about food in high-level fisheries policy:





Bennett et al. 2021



SO WHAT?

This disconnect has led to:

- Emphasis on single-species management of high-value, export-oriented fisheries;
- Failure to feed and nourish nearly 1 billion people;
- Worsening of food system drivers of climate change and biodiversity loss.

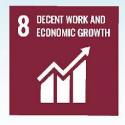




















AQUATIC FOODS ARE ESSENTIAL TO MEETING THE **SUSTAINABLE DEVELOPMENT GOALS**



A PARADIGM SHIFT IS FINALLY UNDERWAY





















IMPACTS ARE NOT EVENLY DISTRIBUTED

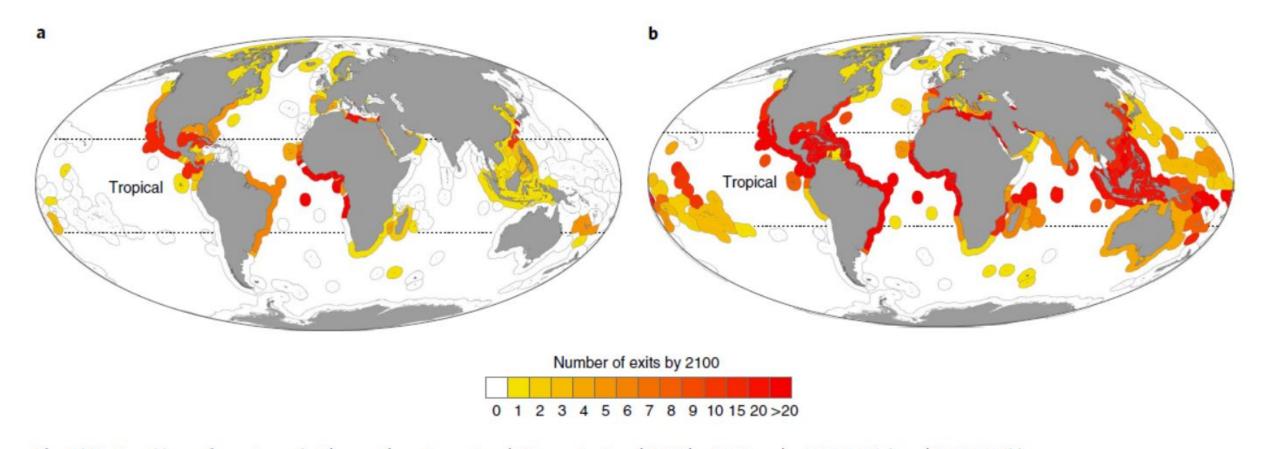
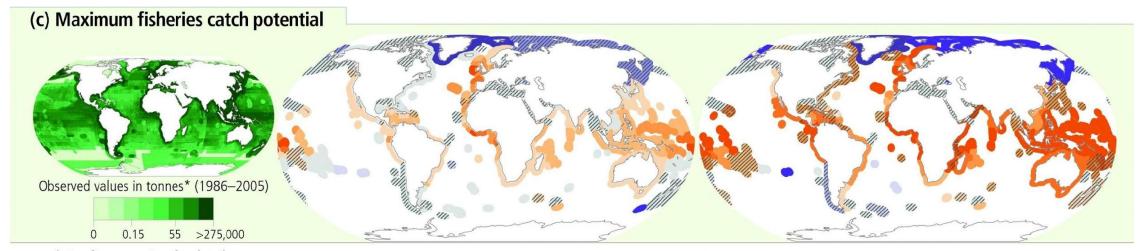


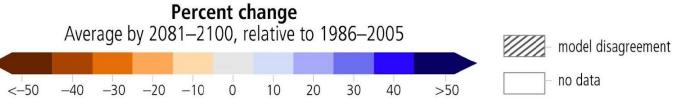
Fig. 1 | National loss of species. a,b, The number of species shifting out of each EEZ by 2100 under RCP 4.5 (a) and RCP 8.5 (b).

CLIMATE CHANGE WILL IMPACT

Projected changes, impacts and risks for ocean ecosystems as a result of climate change

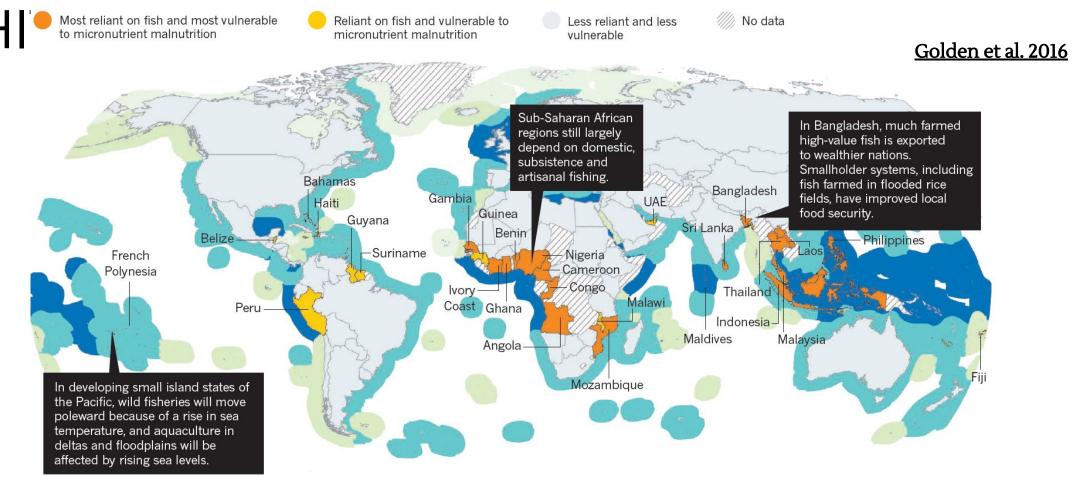






IPCC 2019

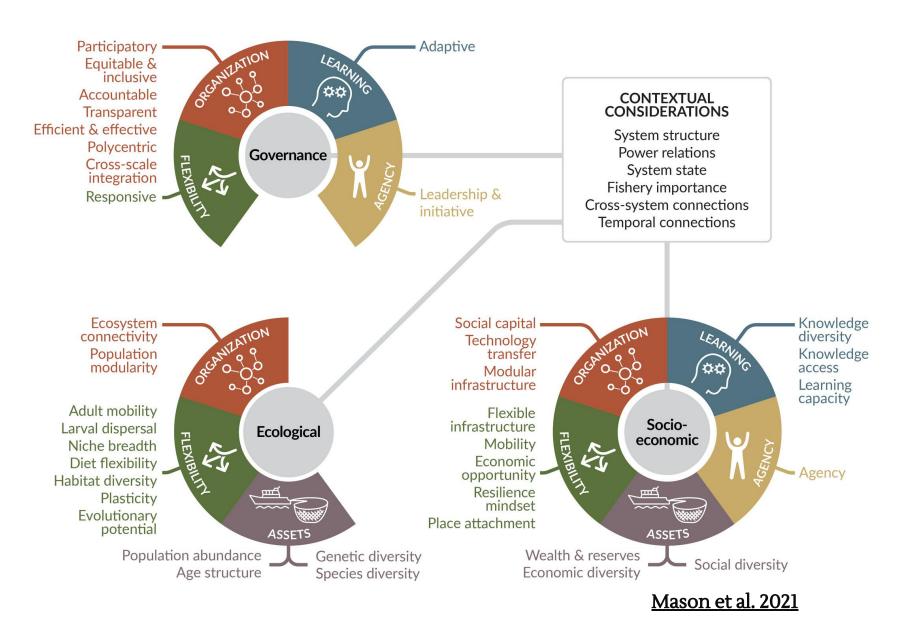
THOSE MOST DEPENDENT WILL BE HARDEST



Projected percentage change in maximum marine catch potential by 2050 relative to 2000 levels

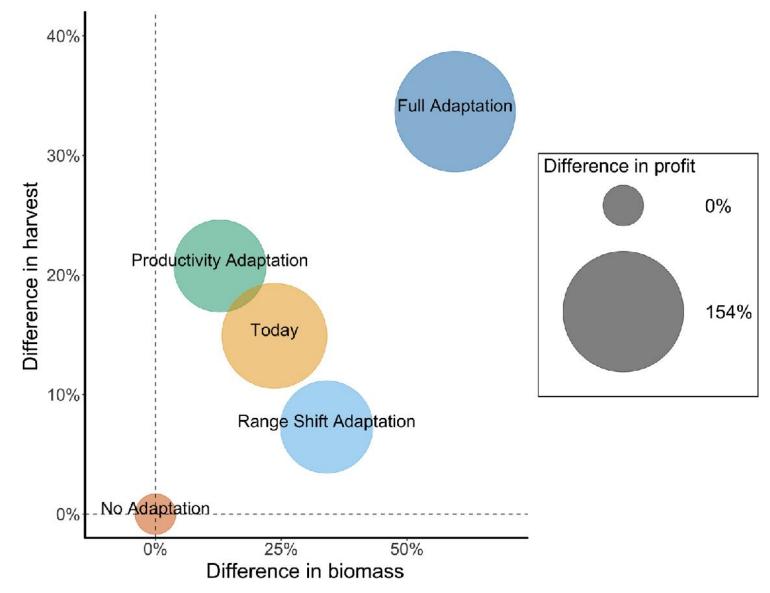
>20%

FISHERIES CAN BE MANAGED **FOR** SUSTAINABL E CLIMATE RESILIENCE

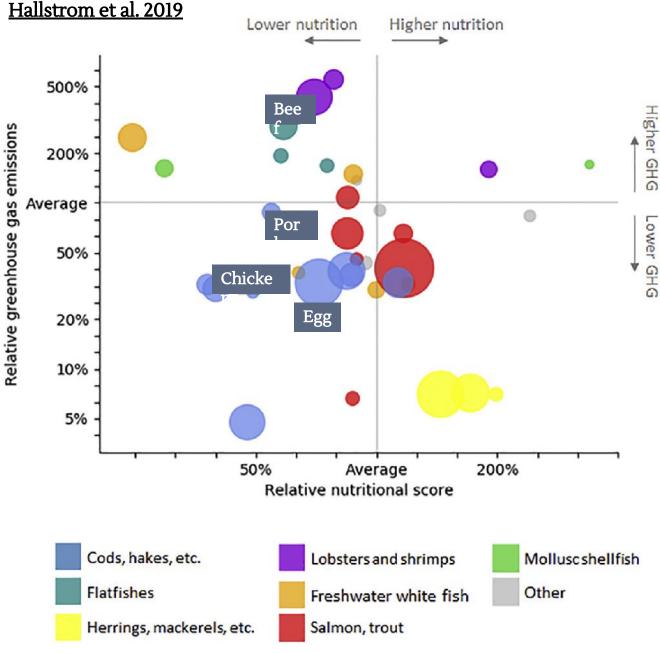


Climate Adaptive Management Potential:

BUT FISHERIES CAN BE MANAGED **FOR** SUSTAINABL **E CLIMATE** RESILIENCE



Gaines et al. 2018



AND SEAFOOD HAS A LOWER CARBON **FOOTPRINT** THAN OTHER ANIMAL-BASED **FOODS**