

The External Dimension of the Common Fisheries  
Policy: Present challenges and future  
opportunities  
June 1-2, 2021

Ernesto Penas

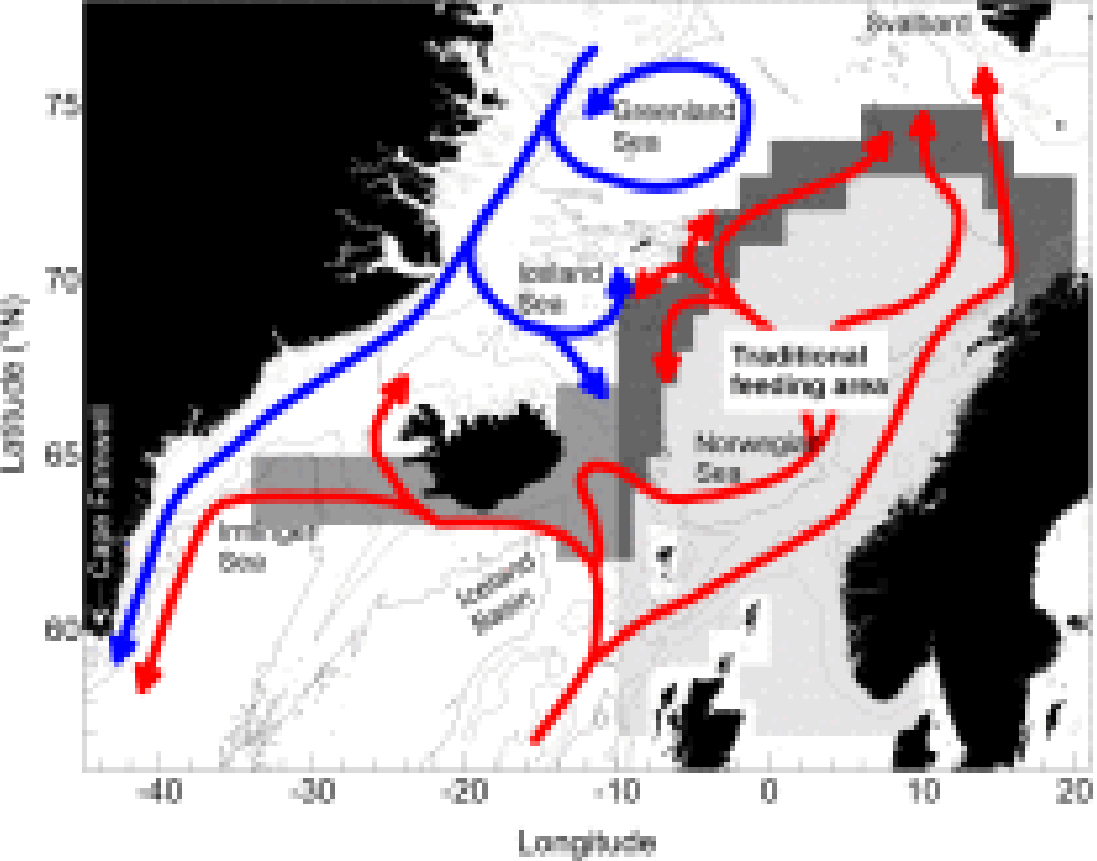
# The wider policy context: what is the role of (long distance) fisheries?



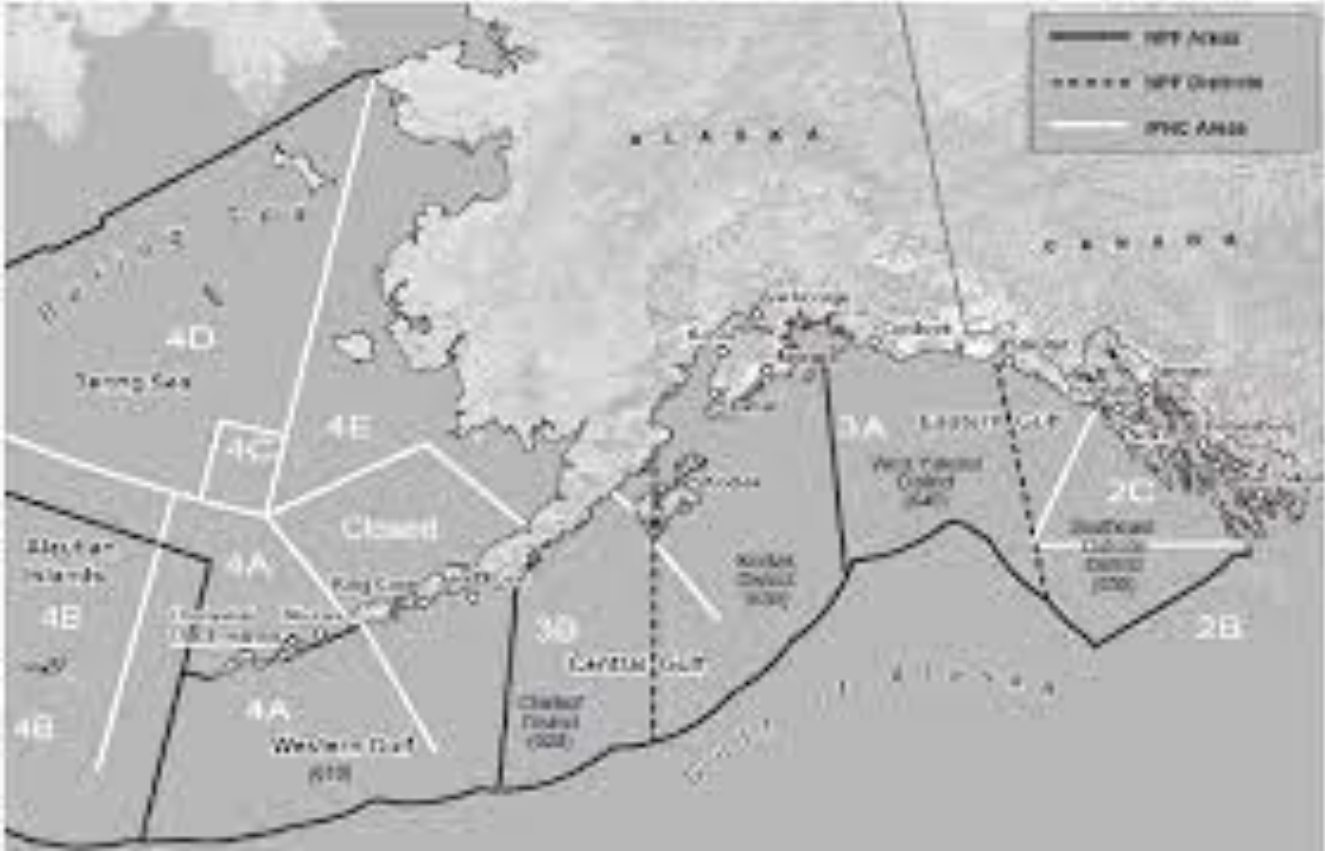
At least, goals no. 1 (poverty), 2 (hunger), 3 (health) , 8 (work), 12 (consumption) , 13 (climate), 14 (ocean life) and 17 (partnership), strongly related to fisheries

How do fisheries relate to those objectives?

# Climate change: a game changer (I): the international allocation of fishing rights



The case of Atlantic mackerel  
 Source: A.H:Olafsdottir et al. (2019)



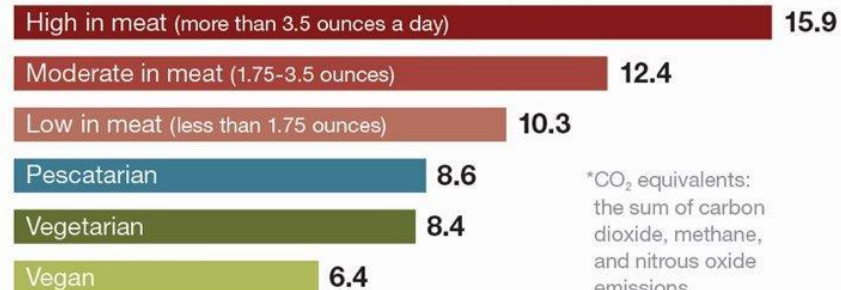
Management areas for Pacific Halibut: combining fixed allocations by area with adaptiveness to climate change

# Climate Change: a game changer (II): the strategic value of seafood. The “perfect protein”



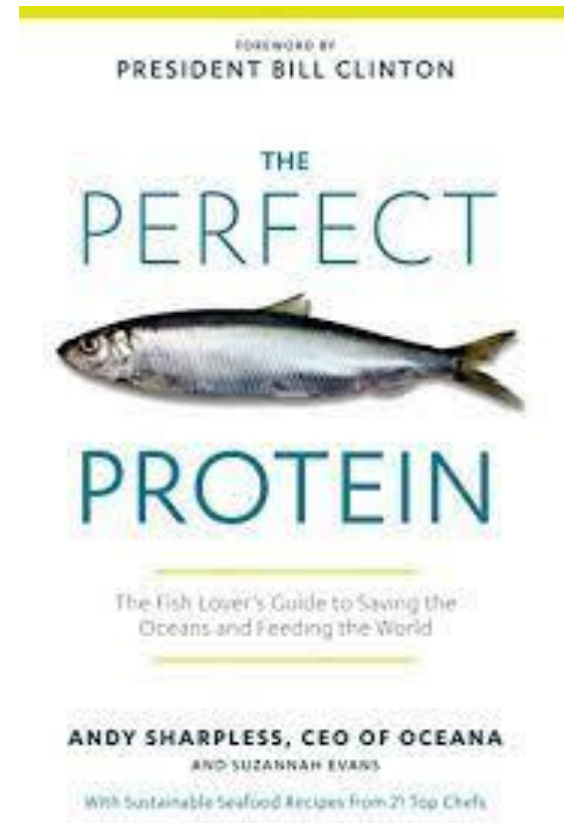
**UNITED NATIONS  
FOOD SYSTEMS  
SUMMIT 2021**

Mean greenhouse gas emissions per 2,000 kilocalorie diet  
*pounds of CO<sub>2</sub> equivalents\**



\*CO<sub>2</sub> equivalents:  
the sum of carbon  
dioxide, methane,  
and nitrous oxide  
emissions

GRAPHIC: NGM ART. SOURCE: PETER SCARBOROUGH, OXFORD UNIVERSITY



How can we make the case of seafood?

# Climate change: a game changer (II): decarbonising the fisheries sector. How much time do we have?



The EU Green Deal. Europe, carbon neutral by 2050



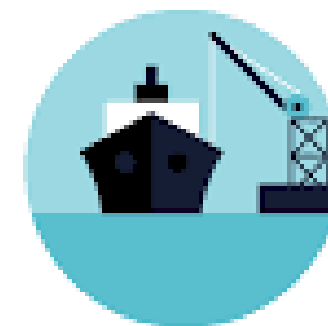
## Examples of harmful subsidies



Port construction & renovation



Fuel tax exemptions



Boat construction & modernisation

What changes in the  
fiscality of marine fuels  
(well before 2050)?

# The energy efficiency of fishing

## Comparison of Galician fishery systems

<b>Fishing system</b>	<b>tonnes fuel/tonnes fish</b>	<b>USD/kg</b>
European hake, offshore longline	1.551	1.40
Atlantic horse mackerel, coastal trawl	0.316	0.28
European pilchard, coastal purse seine	0.175	0.16
Anglerfish, offshore trawling	2.547	2.29
Tuna, deep-sea purse seine, Indian ocean	0.313	0.29
Mussels, extensive aquaculture	0.013	0.01

Source: FAO (2015)

# The alternatives?



solar



Hybrid diesel-electric

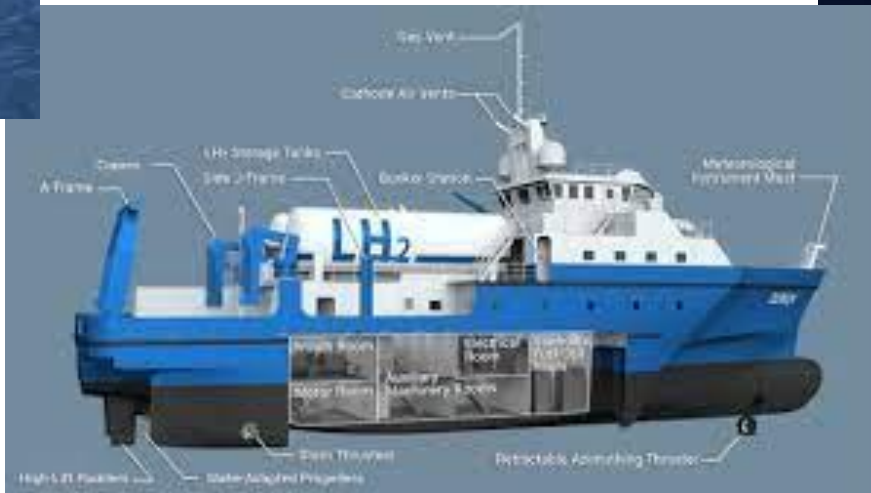


LNG-battery



wind

# Hydrogen fuel-cell ships: the best solution?





# Developing the hydrogen fuel-cell alternative

Horizon 2020:

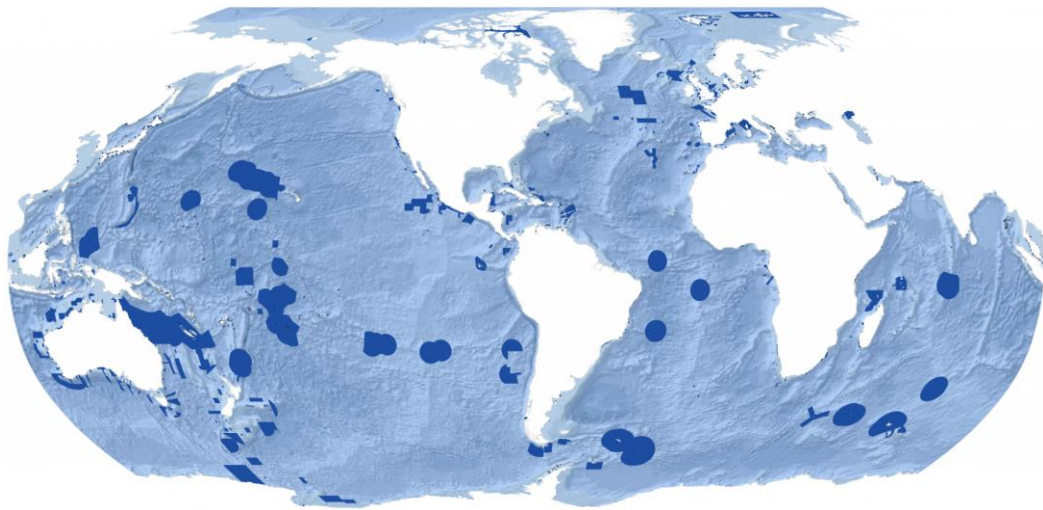
- Fuel Cells Hydrogen (FCH) Joint Undertaking: 108 research programmes on hydrogen fuel-cell technologies, but few on marine technologies

LIFE 2001-2007

- How much research on marine fuel-cell technology?
- How much fishery-specific research?



# The initiatives on food production and marine biodiversity (I): The Convention on Biological Diversity (CBD)



The next step from the Aichi targets:  
30% of the oceans as MPAs by 2030?

OECMS IN THE MARINE  
CAPTURE FISHERY  
SECTOR

19 MAY 2021  
16.00 - 17.30 CEST  
WEBEX EVENTS

ORGANIZED BY IUCN  
FISHERIES EXPERT GROUP  
AND EBCD, IN  
COLLABORATION WITH  
FAO

CONTACT:  
JACOPO.PASQUERO@EBCD.ORG

JOIN THE DISCUSSION:

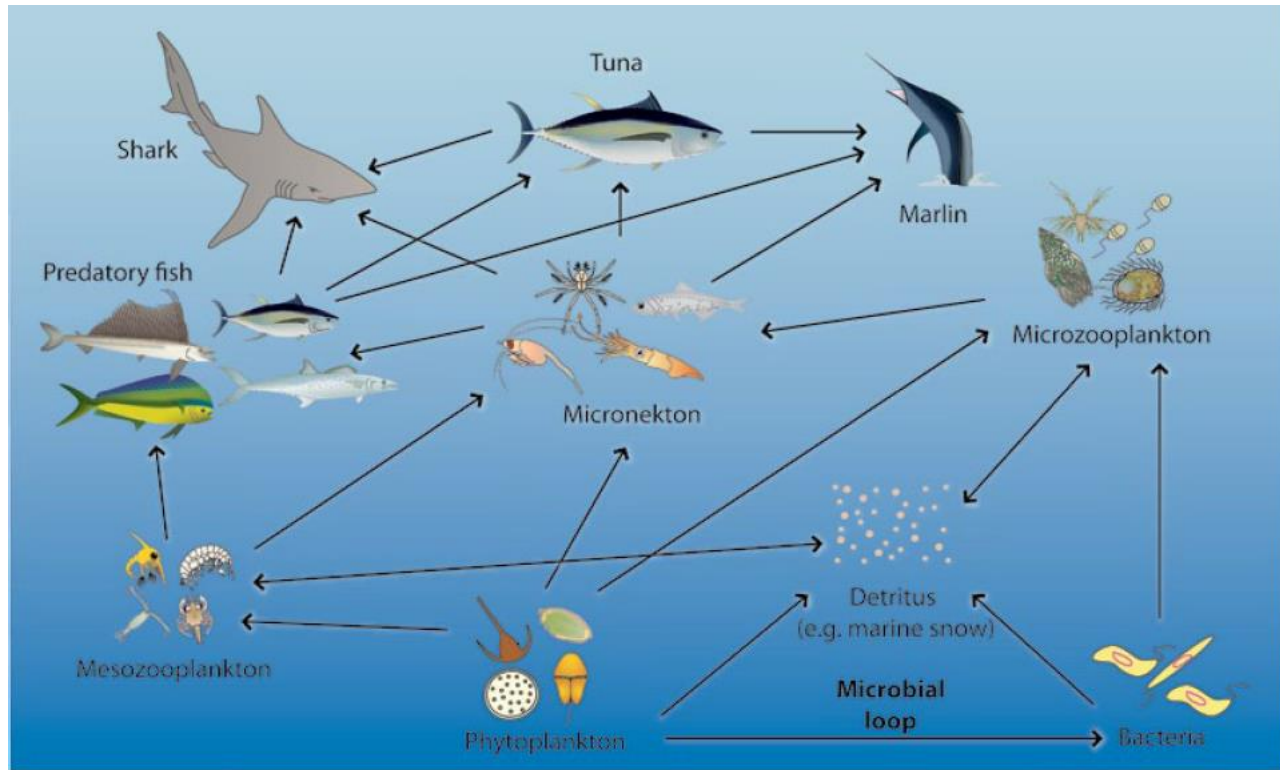
TWITTER:  
@EBCD\_BXL



Other Equivalent Conservation  
Measures (OECMs)?

The industry: part  
of the problem or  
part of the  
solution?

# Food production and biodiversity (II)

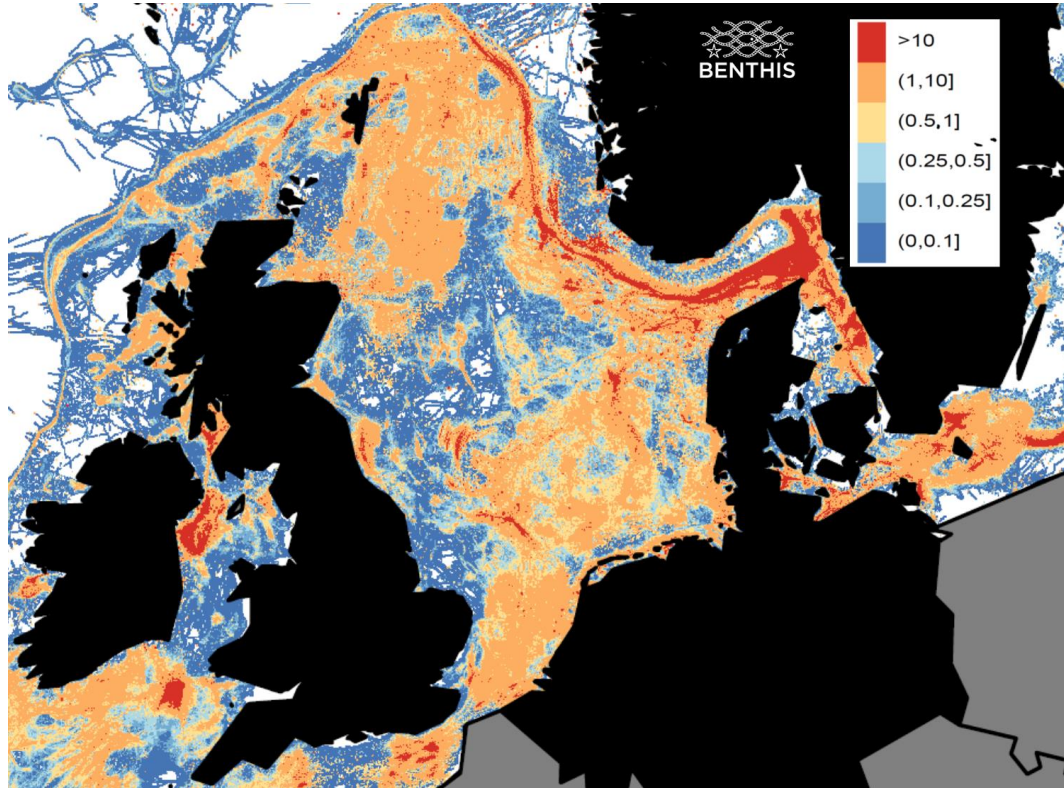


Fisheries and biodiversity loss



Agriculture and biodiversity loss

# Food production and biodiversity (III)



The effects of bottom trawling: The North Sea  
(Source: ICES)

Deforestation in Paraguay  
[go.nasa.gov/2w1syT8](https://go.nasa.gov/2w1syT8) #NASA

Traducir Tweet



The effects of plowing: The case of El Chaco (Paraguay & Argentina)

Food production and biodiversity: setting the record straight

# Fisheries and development



What do developing countries want?  
And do we have the right instruments?

# Fish trade and food security: the level playing field

- Uniform application of existing legislation by member States;
- Ratification of international instruments and import policy dependent upon such ratification;
- Promotion of international fisheries governance;
- Norway and Iceland: crossed investment?

A report to the EU

...and China?

A “ceiling” of 3,000 ocean-going vessels?



# The information society: The public image of (long-distance) fishing



*Ray Hilborn:*

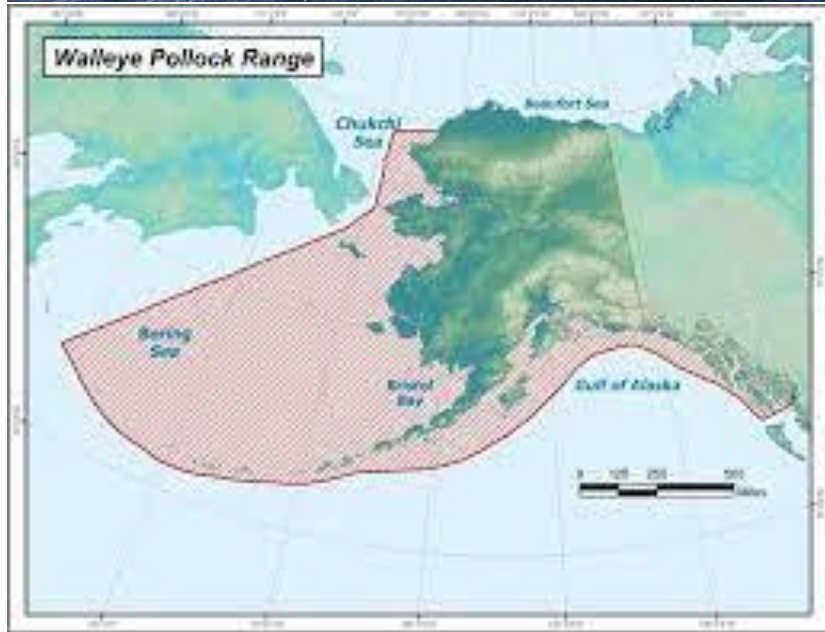
*“It contains more lies than a Donald Trump press conference”*

*Daniel Pauly:*

*“What Seaspiracy gets wrong about fishing”*

Cooperation fishing industry-  
NGOs. The way to go?

# Thinking ahead. Management complexity: Is there room for private management?



Salmon by-catches in the Alaskan pollock fishery





Thank you