

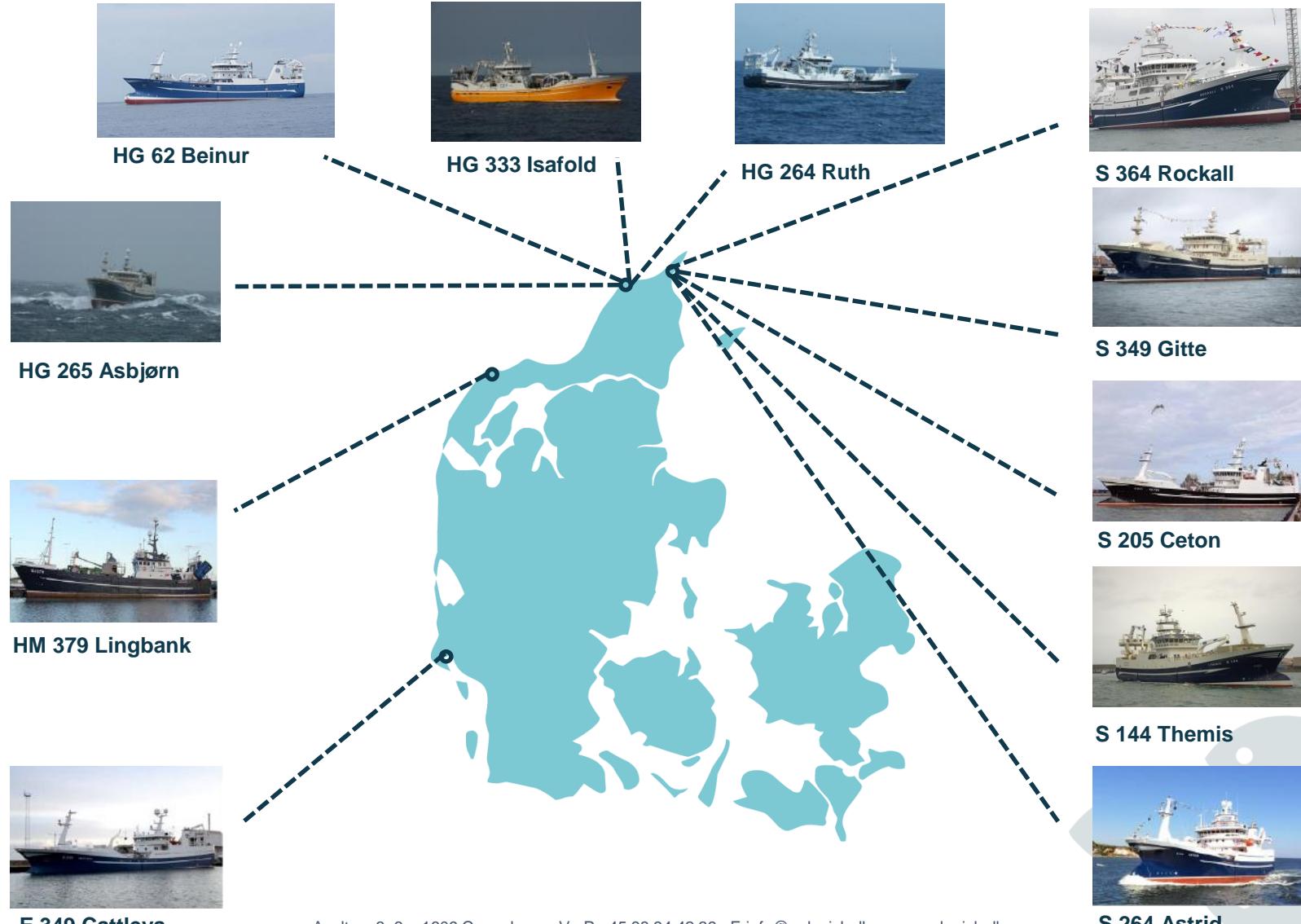


What are the economic gains from changing fisheries management?



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S 264 Astrid

What do fishermen want?

- They want to go fishing
- They want a bigger boat (develop their business)

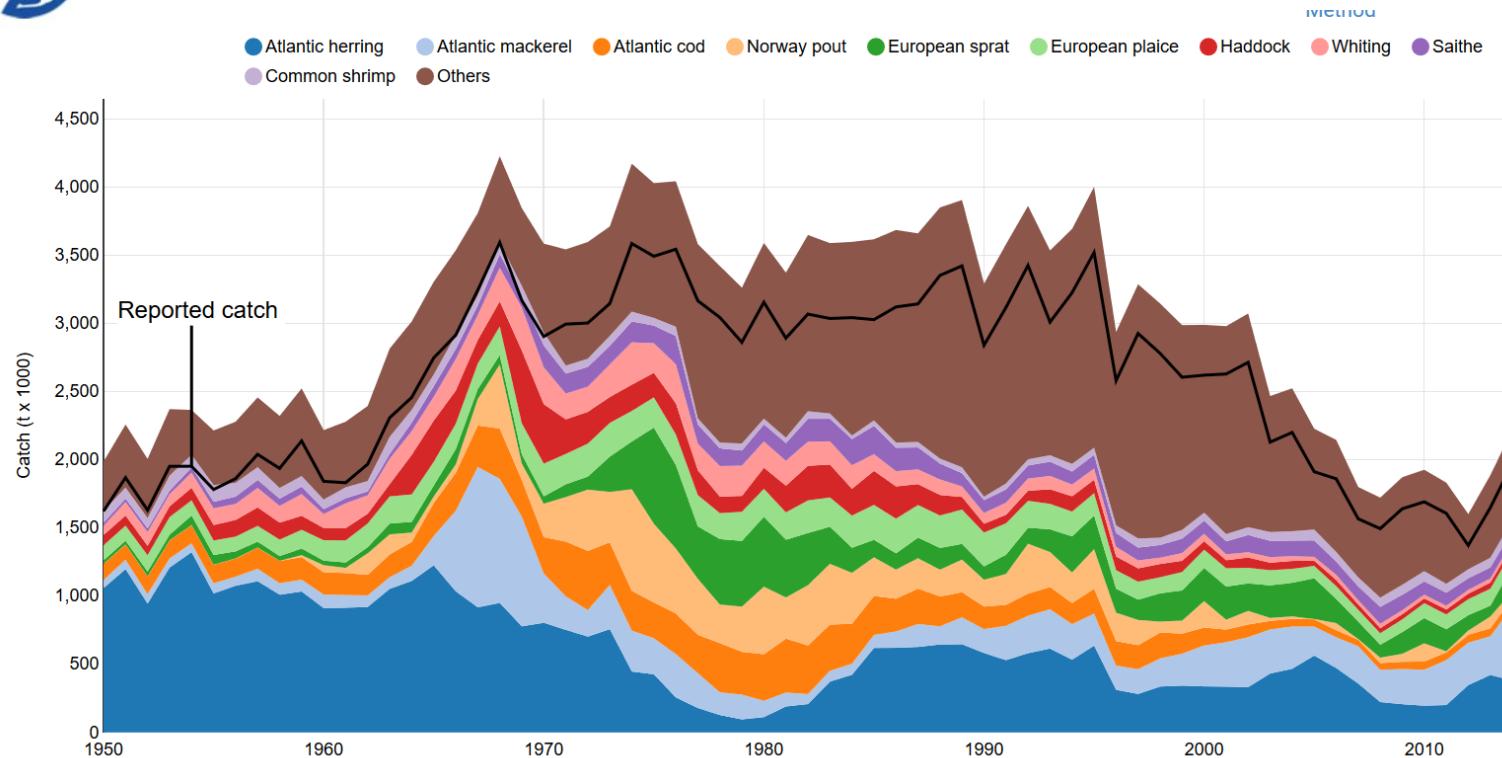
What do fishermen need?

- They need stable framework conditions (legislation, secure rights, political stability) -
- They need a sustainable and stable resource to harvest from ÷ +
- They need return of investment (ROI) < 5%

Total catches from the North Sea

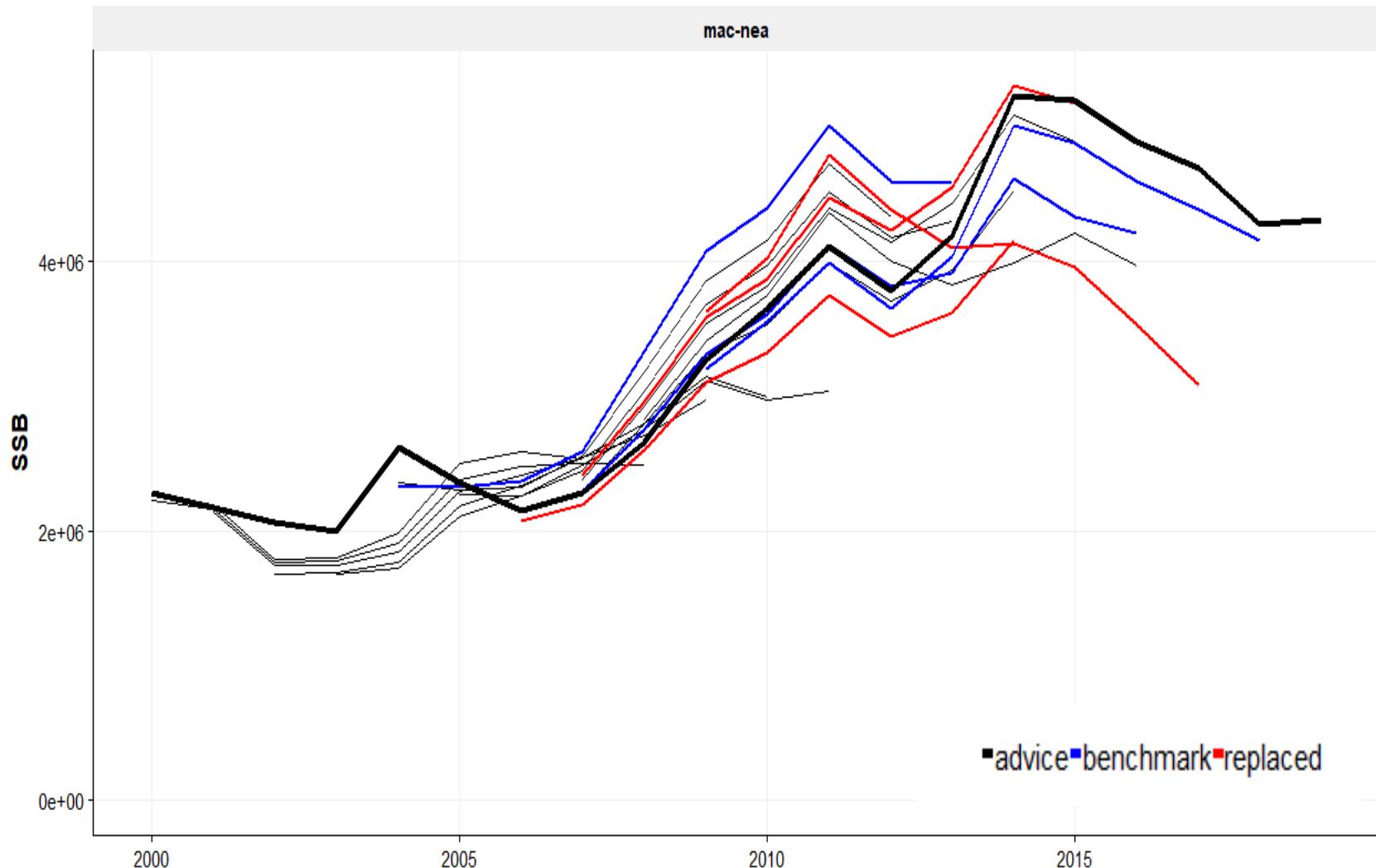


SEA AROUND US
FISHERIES, ECOSYSTEMS & BIODIVERSITY

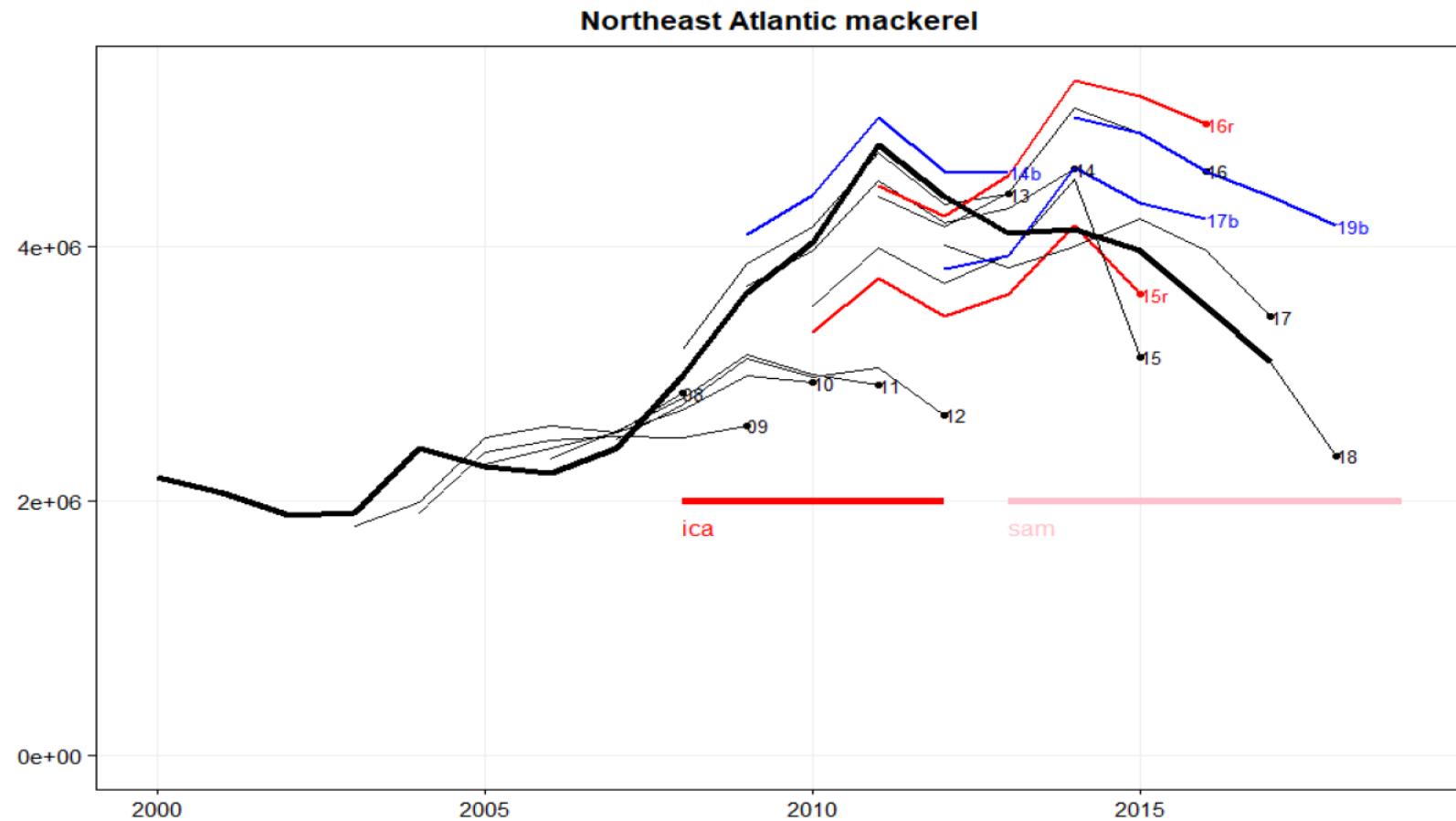


Note: The data we present ('reconstructed data') combine official reported data and reconstructed estimates of unreported data (including major discards), with reference to individual EEZs. Official reported data are mainly extracted from the Food and Agriculture Organization of the United Nations (FAO) [FishStat database](#). The "Reported catch" line overlaid on the catch graph represent all catches deemed reported (including foreign) and allocated to this spatial entity. For background information on the reconstruction data, download the .pdf file for the specific EEZ(s) and also examine our [methods](#) for data and spatial allocation.

Frequent changes in perception on stock size



Knowledge transfer and uptake

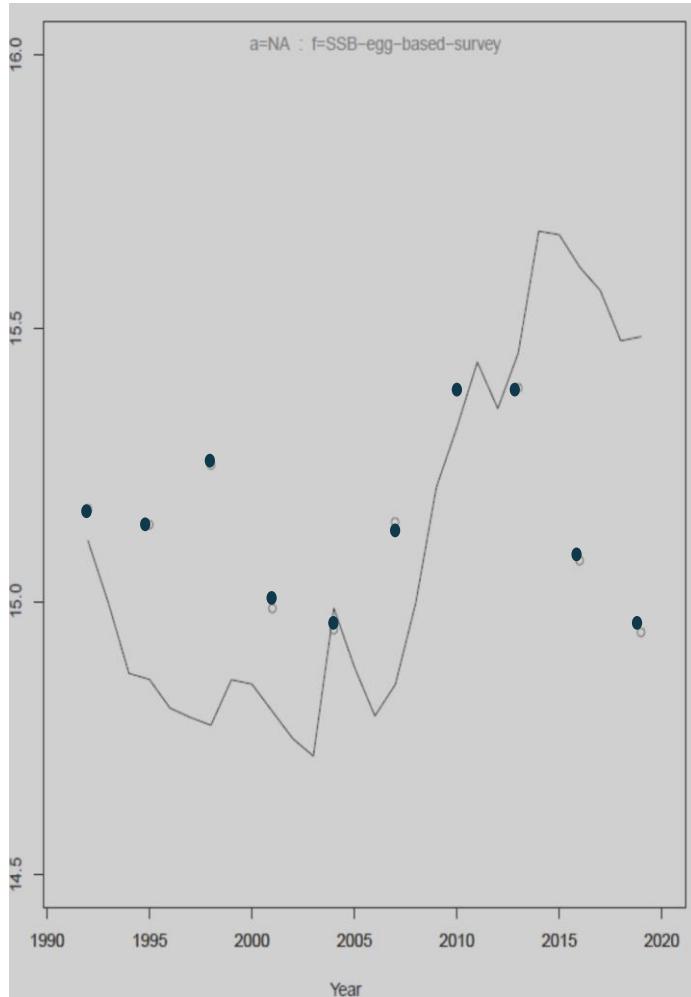


Conflicting signals within the data sources

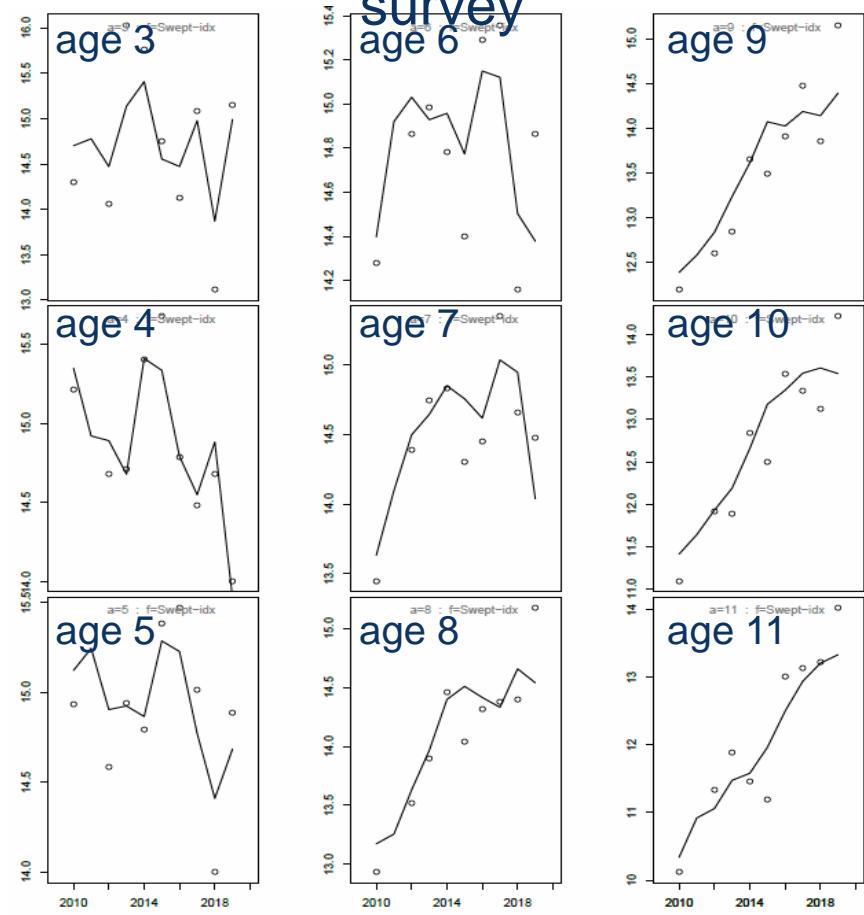


Danish Pelagic
Producers
Organisation

Egg survey



Swept area survey



Scientific challenges



What are the fundamental challenges?

- Fishing opportunities and the perception of fisheries in society (solely) relies and depends on imperfect scientific advice.

"Conflicts are the result of culture clashes rather than not sharing a common goal"

- Scientific advice is always wrong – but how wrong is the question + or - ?
- Greatest threat to sustainable fisheries management and fishing communities in the NE atlantic is flawed scientific advice

How do we improve science?

Fill out the gaps!

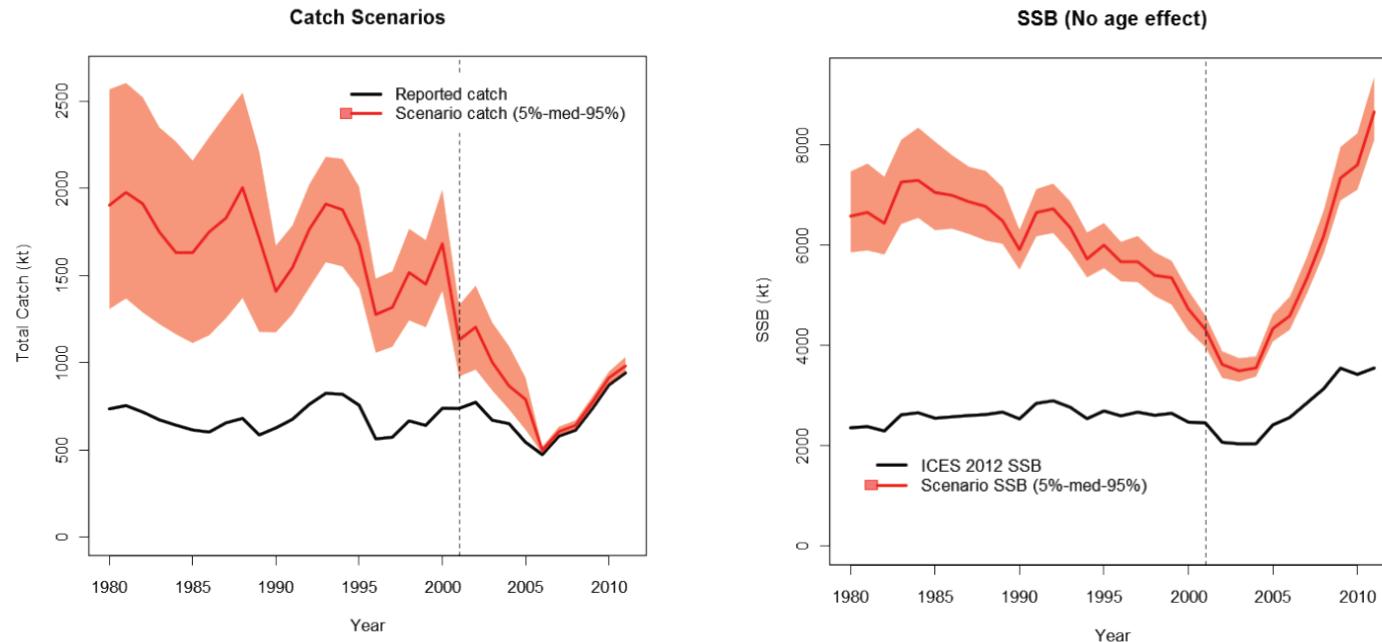
- Fix historical catch data
- Include density dependence, ecosystem effects, improve data sources, genetics = FMSY project
- Clear management objectives



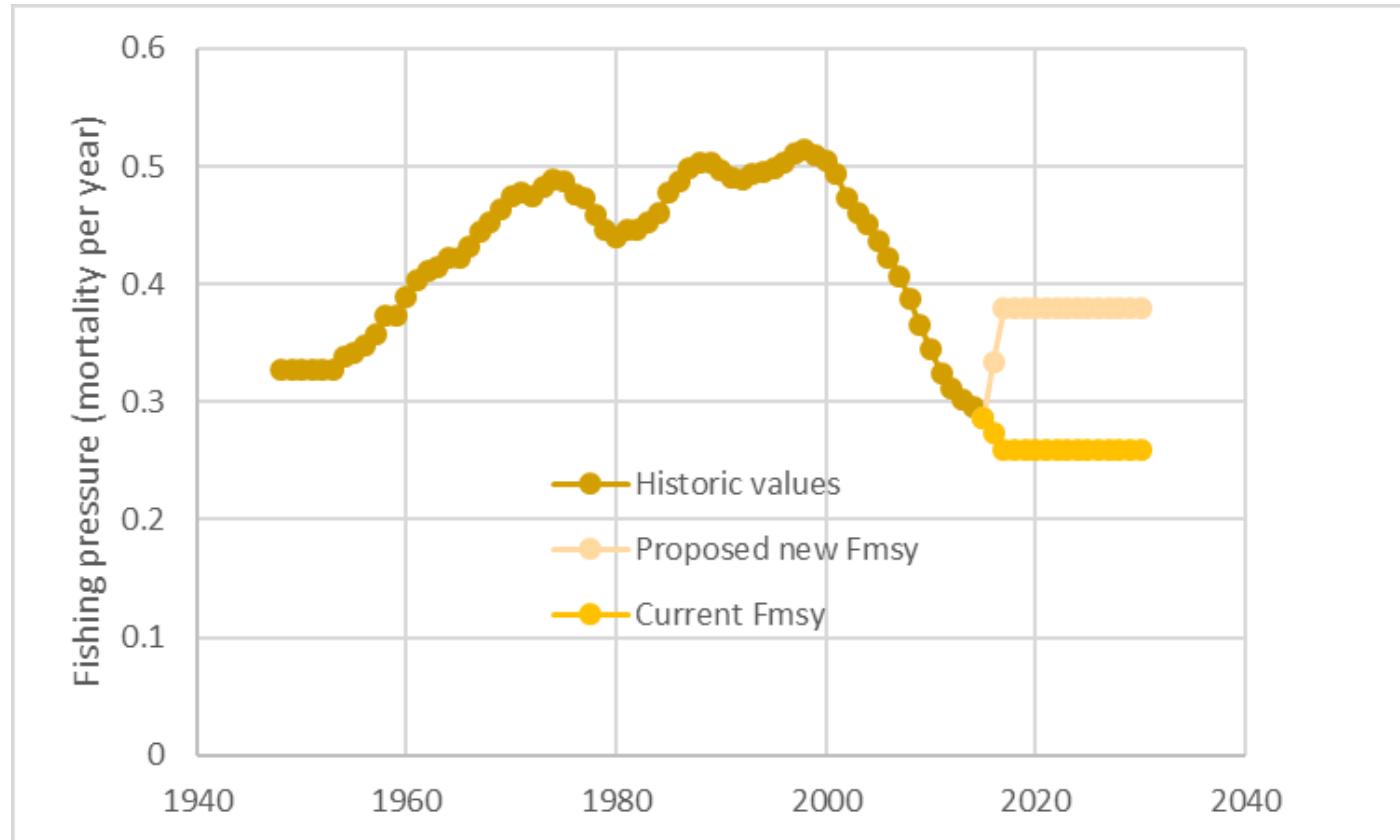
Fixing historical catch data

Table 1. Estimated ranges of misreporting during the four time periods considered.

Period	Year Range	Misreporting Factor	
		<i>Lower bound</i>	<i>Upper bound</i>
Klondyking	1972 – 1989	1.7	3.6
Japanese market highgrading	1990 – 2000	1.7	2.5
Uncontrolled IUU	2001 – 2005	1.1	1.7
'Golden age'	2006- 2011	1	1.1



At what level do we want to fish?



Final points



What are the economic gains from changing fisheries management?

Strengthened scientific advice

- = a sustainable and stable resource to harvest from
- = the basis for stable framework conditions (legislation, secure rights, political stability)
- = return of investment (ROI) + 5%
- = basis for development of the sector, at sea and on land
- = **A bigger boat!**

Thank you for your attention