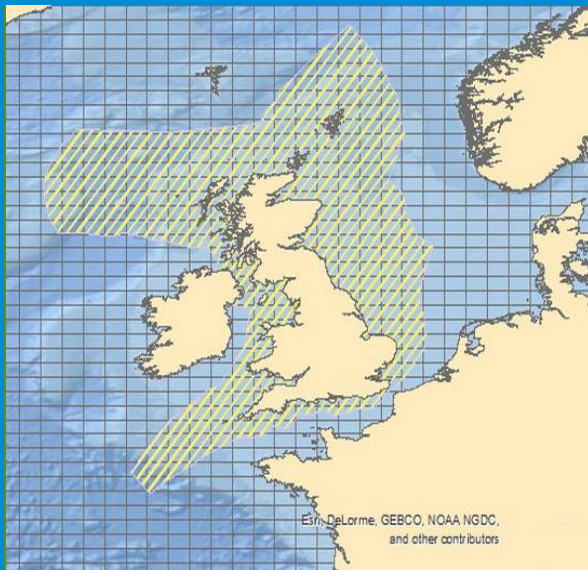


Consequences of Brexit for mixed demersal fisheries in the North Sea

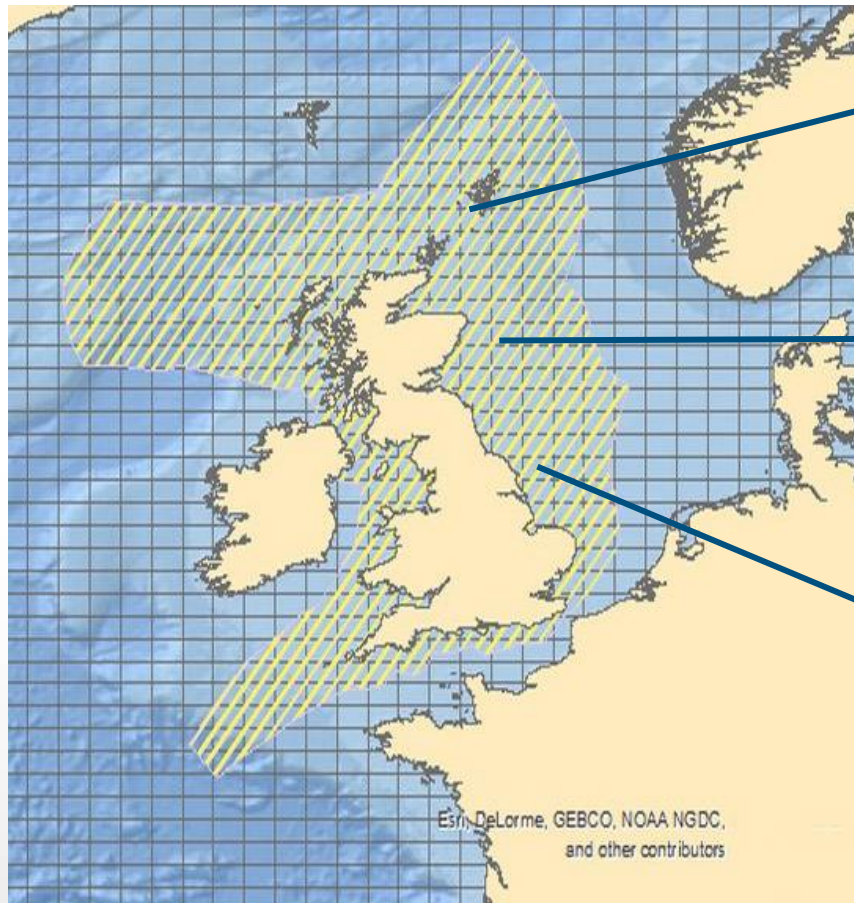
Sarah Simons et al.

Thünen Institute of Sea Fisheries (Germany)



IFFET, Seattle
July 16th -20th, 2018

UK EEZ one of the world's richest fishing grounds



EU fleets catch more in UK EEZ than UK fleet does in EU waters

almost 8x more by weight
almost 5x more by value

Pelagics (37%)

Demersal (37%)

Shellfish (25%)

Industrial fish (1%)

2011-2015 (Demersal catch)

EU & UK 230 000 tons (420 million pounds)

EU >110 000 tons (220 million pounds)

Consequences of Brexit for mixed demersal fisheries in the North Sea:

- **Which fleet segments will be affected?**
- **How do fleet segments respond?**
- **Are there indirect effects on fish stocks?**

Brexit scenarios

Moderate Brexit

Moderate Brexit Total Allowable Catch



Distribution via „relative stability principle“



Hard Brexit

Hard Brexit Total Allowable Catch

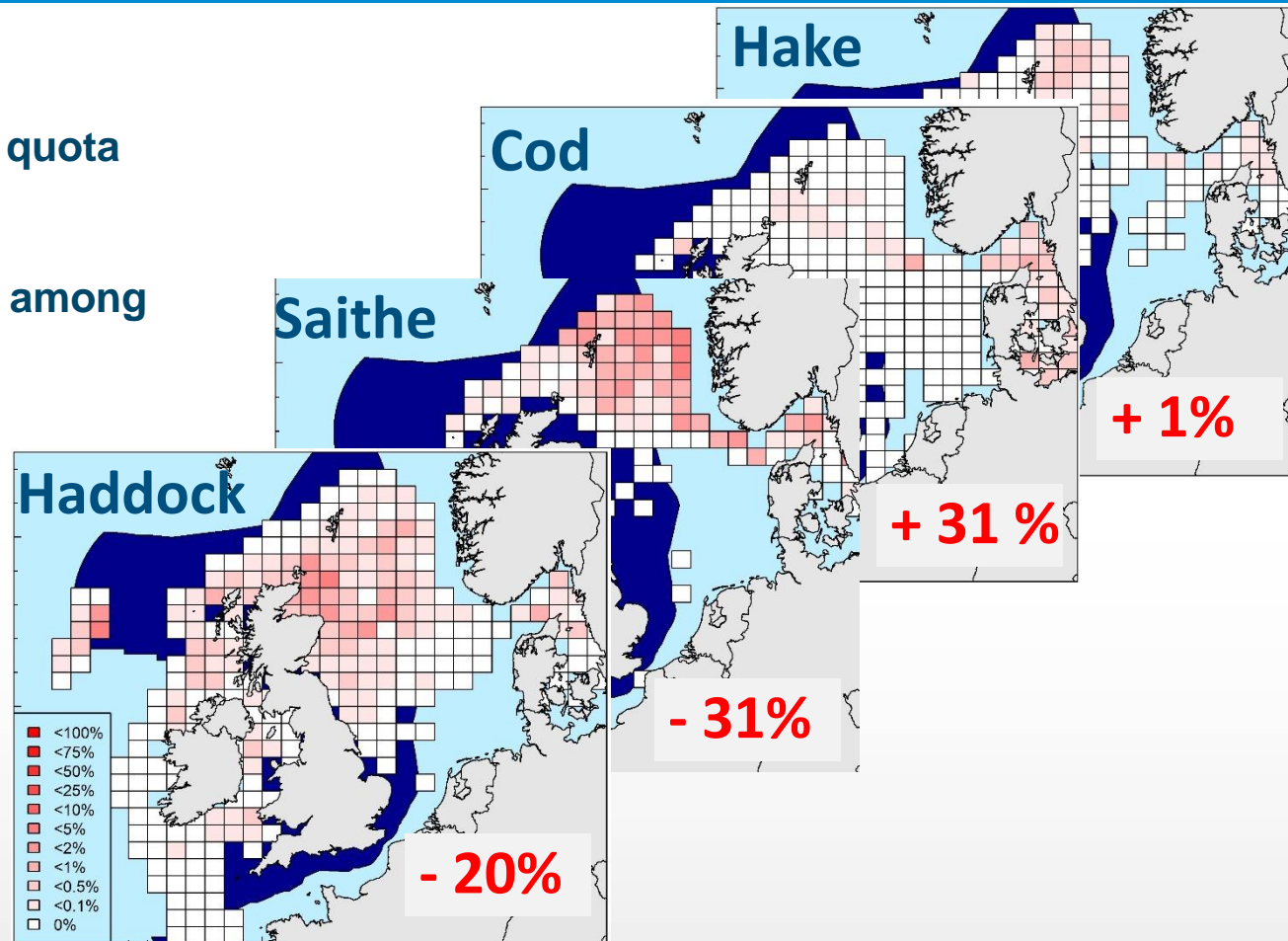


Distribution via „zonal attachment“



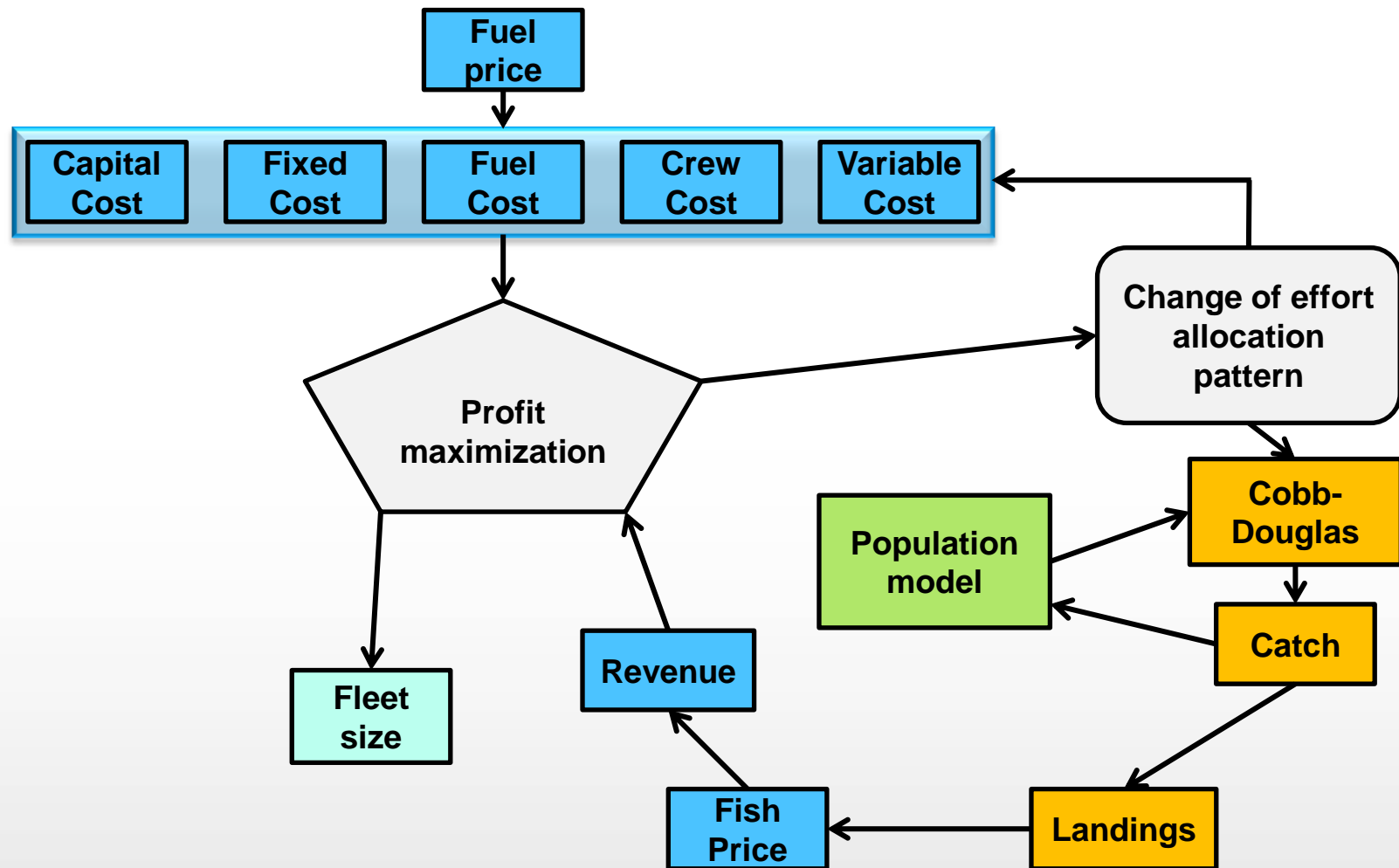
EU TAC share under zonal attachment principle

- EU would suffer strong quota reduction
- Model: relative stability among remaining EU MS
- Reality ?



Source: ICES FishMap data from 2015-2017

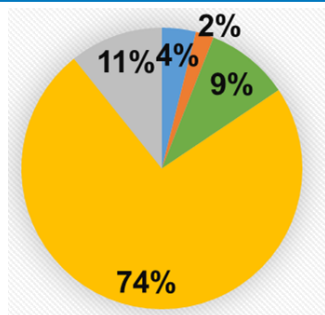
The FishRent model



Brexit: Who will be affected?

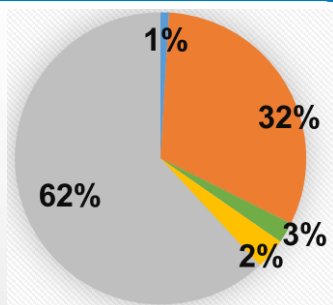
German fleet

11% of total landings



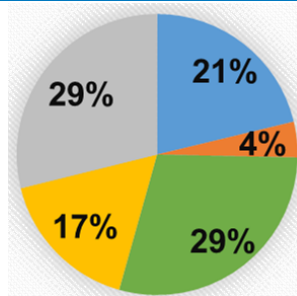
Irish fleet

24% of total landings



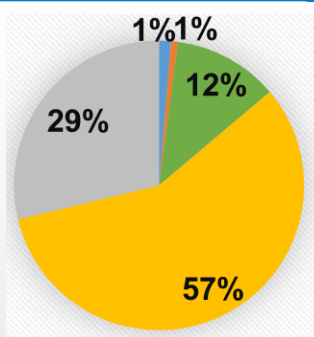
Danish fleet

13% of total landings



French fleet

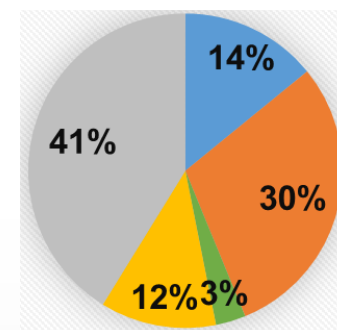
89% of total landings



■ cod ■ haddock ■ hake ■ saithe ■ other

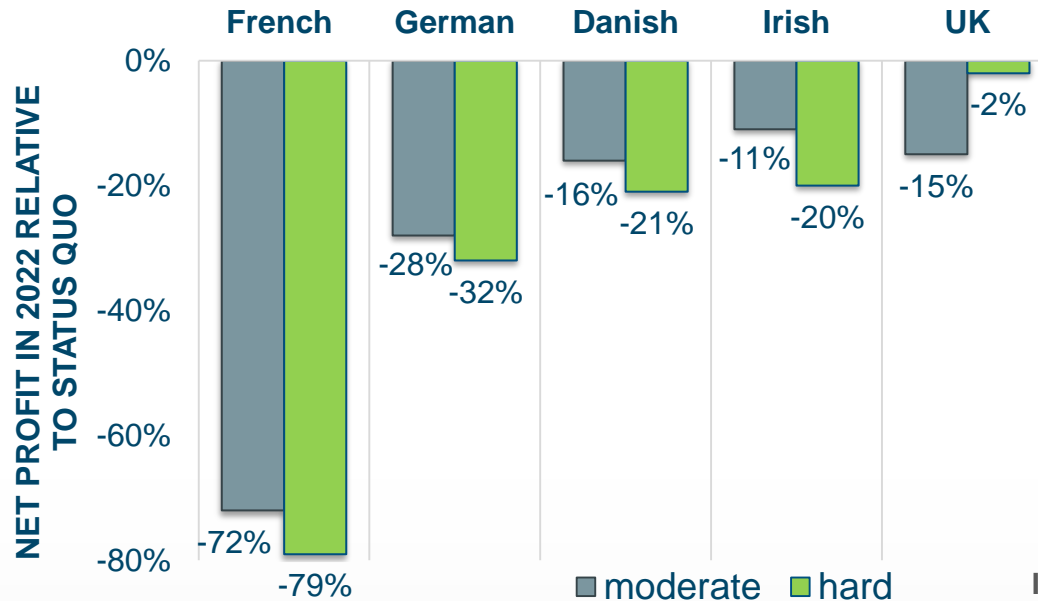
UK fleet

70% of total landings



Source: JRC FDI data from 2014-2016

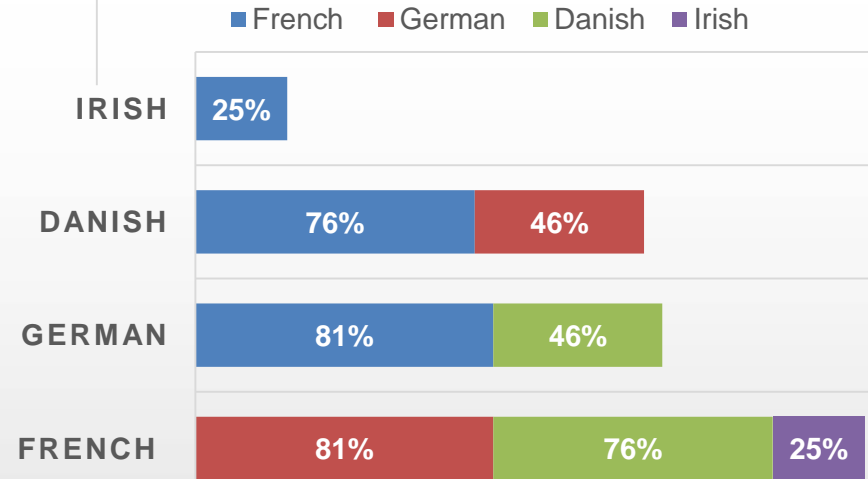
Brexit: How will fleets respond?



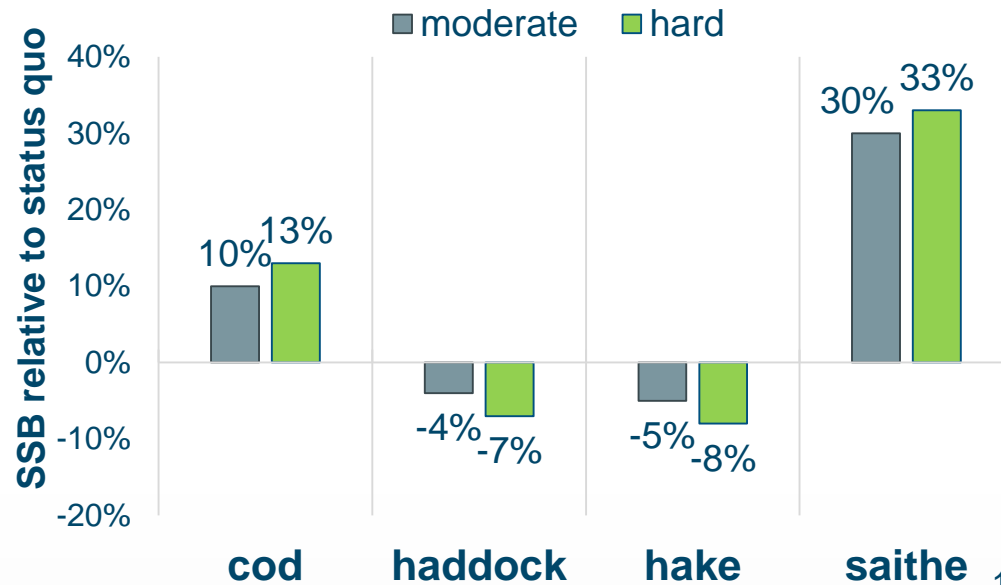
➤ Brexit also reduces net profits of UK fleet

➤ Economic consequences depend on quota and fishing ground availability

Fishing ground overlap rel. to status quo

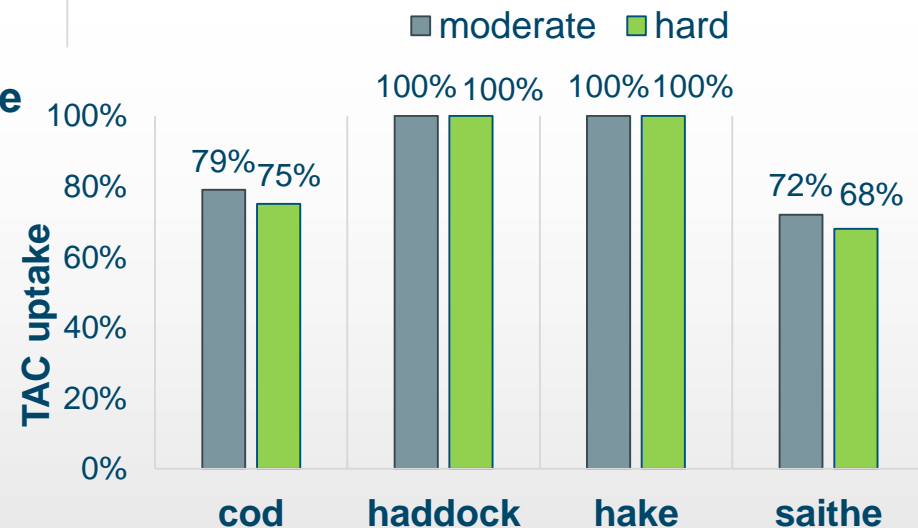


Brexit: Are there indirect effects on fish stocks?



➤ Beneficial for cod and saithe

➤ Increased choke problems



Summary

- **EU and UK fleets will suffer from Brexit (-2% up to -79% net profit reductions)**
- **Economic consequences depend on quota and fishing ground availability**
- **Brexit might increase choke problem**
 - TAC distribution via zonal attachment is not matching catch portfolio of fleets
- **Indirect effect on fish stocks**

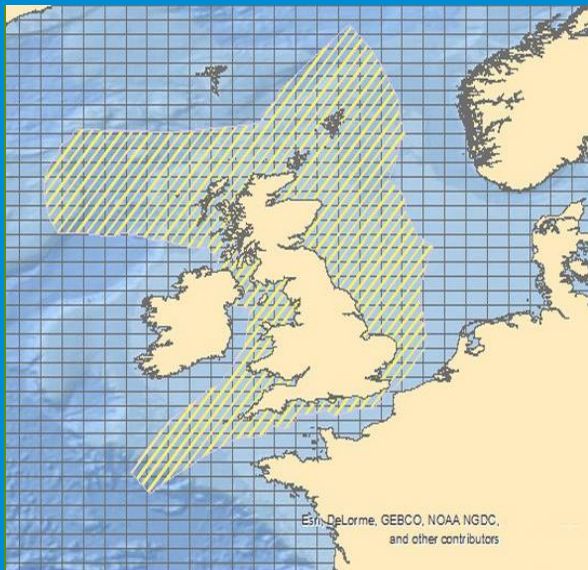
Outlook...

- **pelagic fisheries**
- **long-term effects**
- **want to contribute?**

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Thank you very much !



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