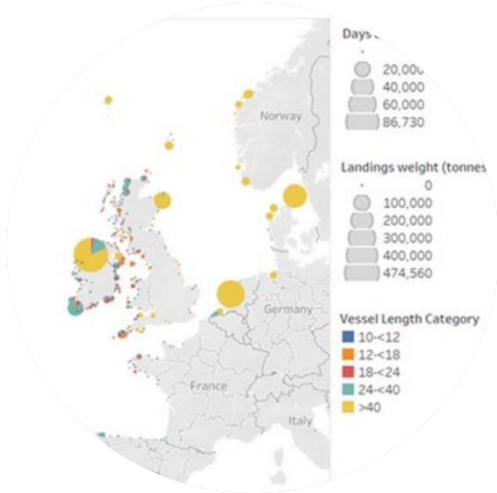


Putting fishing communities on the map in ICES regions

Marloes Kraan and WGSOCIAL

MSEAS 2024



Why good idea to map fishing communities?

- Don't need to explain right? Marine *socio-ecological* systems, EBFM [think of **Jason Link's** talk]
- Putting communities on the map, simple tool to start visualizing social (and economic) impact of fisheries and of change (i.e. policy) provides a unit of analysis for more social data



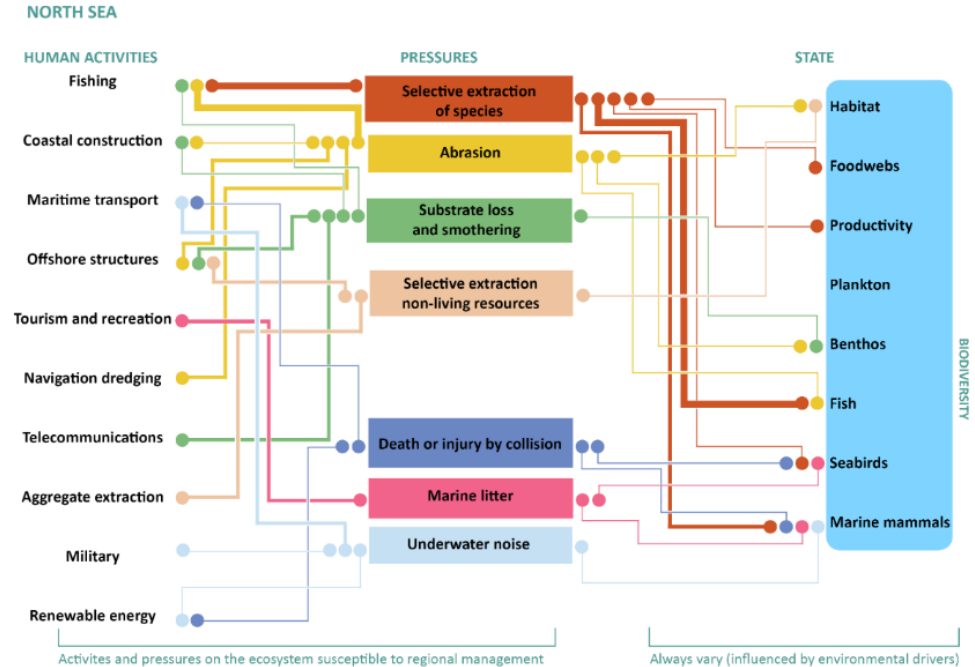
Particularly because humans are part of the ecosystem too.



Thébaud et al 2017 -
<https://academic.oup.com/icesjms/article/74/7/1965/3058980>

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- Fisheries often portrayed as high pressure (on ecosystem) but it also 'delivers'



Graphs: North Sea Ecosystem overview (2022)

Next quest... how to define fishing community?



Picture: Urk (John Gundlach, Flying Holland)

Defining fishing community

- Defining fishing community & describing multidimensional characteristics of FC
- Choose place-based approach

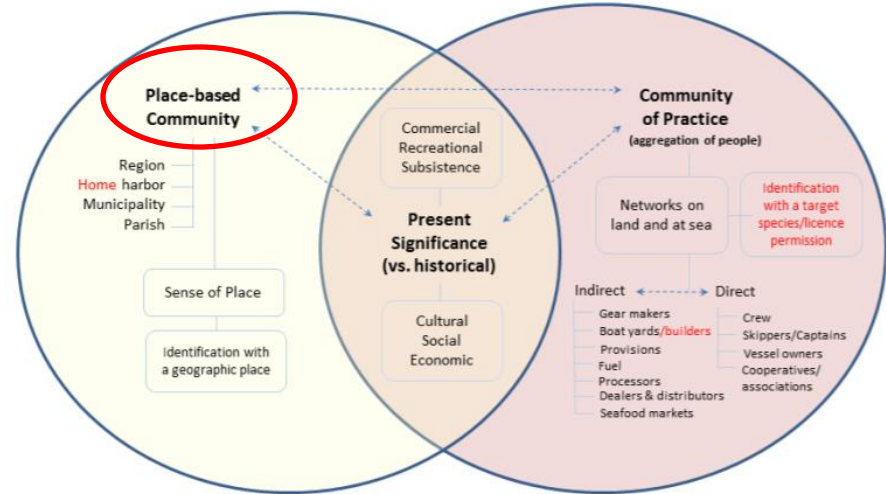
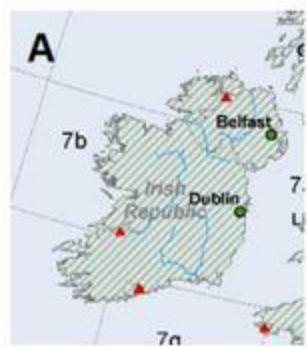


Figure 5.1. Fishing community conceptual model: Dimensions of the social landscape of fishing communities.

Operational definition fishing comm

- Method developed feasible *for all* ICES regions:

Landing ports



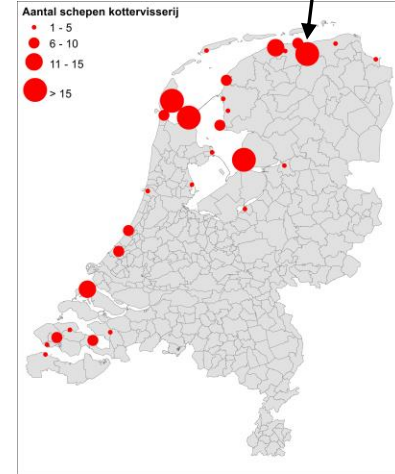
Old EO ports Ireland



Ports of registration



Landing ports

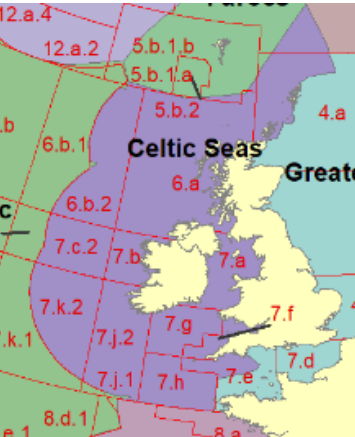


Nr of cutters per fishing community (2022)

ICES Ecosystem overviews showing fishing communities

And the impact of fishing on society

https://ices-library.figshare.com/articles/report/Greater_North_Sea_Ecoregion_Ecosystem_overview/18629543



Socio-economic Indicators of commercial fisheries

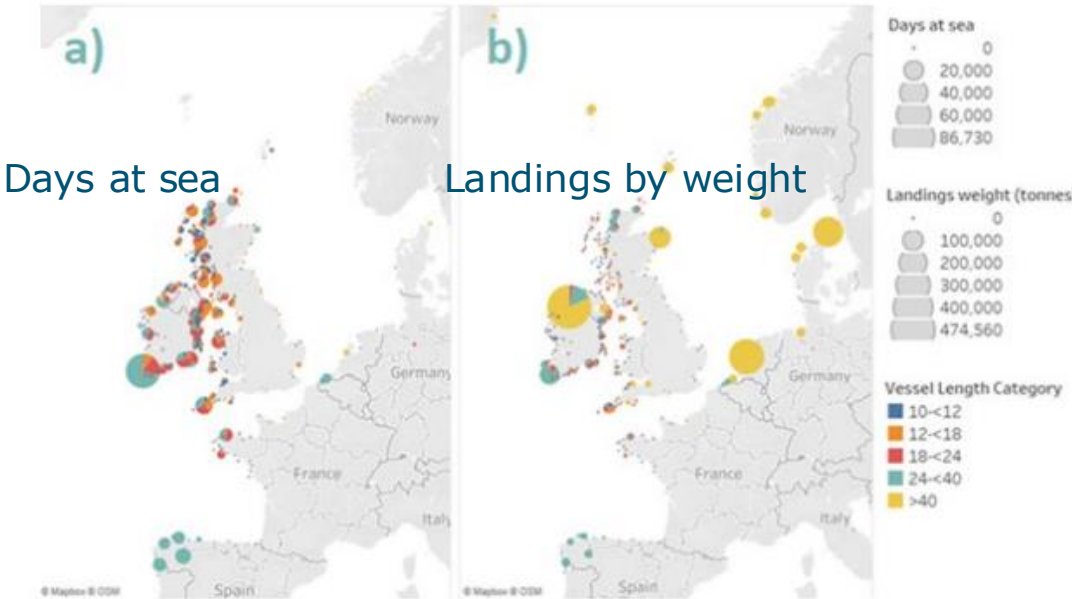
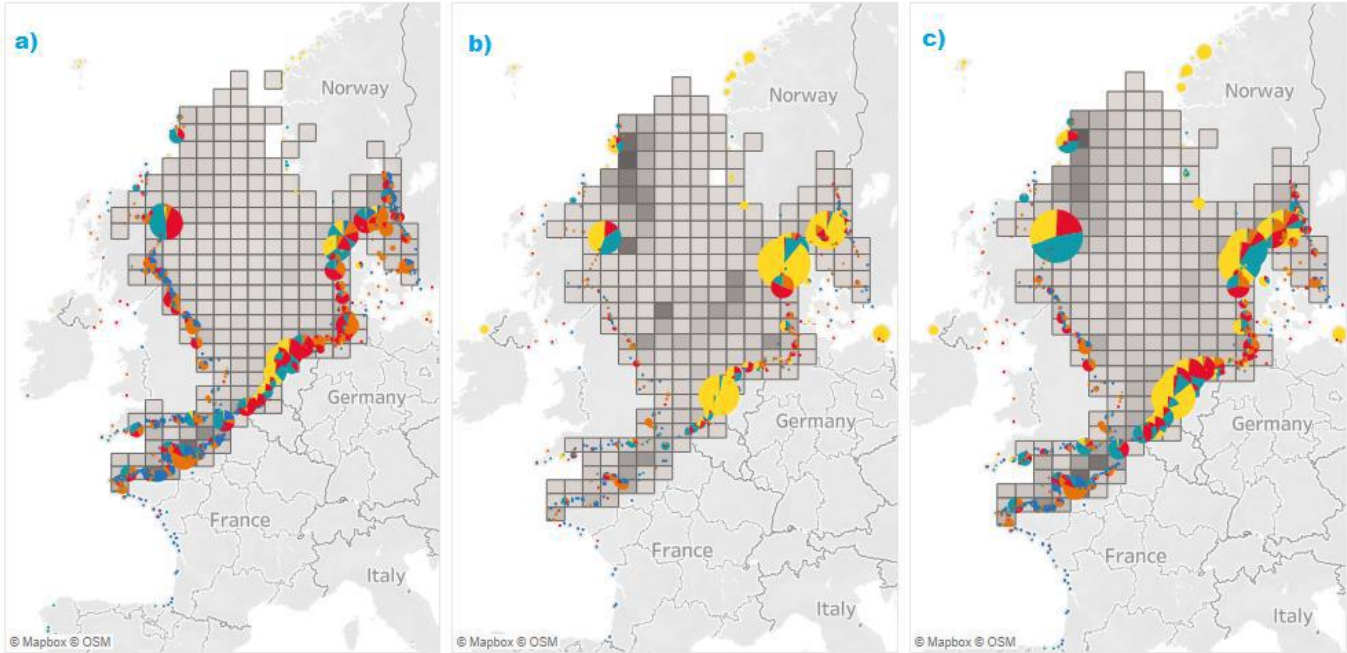


Figure 4 Fishing effort (days-at-sea; panel a, left) and landings by weight (panel b, right) for each port with vessels operating in the Celtic Seas ecoregion (2017–2019). The size of the circles indicates magnitude, colours indicate the vessel length category. Small scale fisheries (vessels < 10 m) are not included due to a lack of data. Note: days-at-sea were estimated for Ireland based on hours fished.

ICES Ecosystem overviews showing fishing communities

And the impact of fishing on society



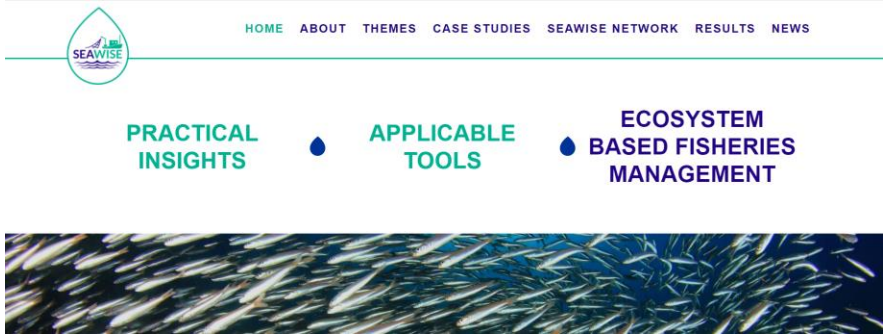
ICES North Sea EO

What else is happening

- Seawise project: analysis of fishing communities, using the ICES approach (s)
- STEFC EWG social data

Yet using a different definition

National fisheries profiles
Community profiling



Is it perfect? Nope... but at least things move!

- **Limitations**
- SSF not shown / what about LDF / recreational fishing / hand picking
- Landing port – what about lorry's bringing landings elsewhere (i.e. Belgian fleet)
- Access to data of non-EU countries
- Not interactive
- No understanding of WHY!
- How to deal with flagvessels?
- Which other communities should play a role?

- Realise that these limitations and questions only 'come up' because we have something on the map now & also people start asking for more indicators to be shown – as the maps we now have result in more questions to be asked

Thanks!



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