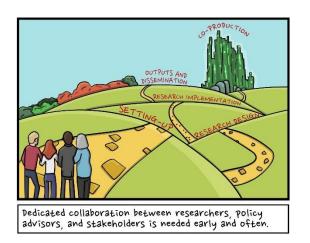
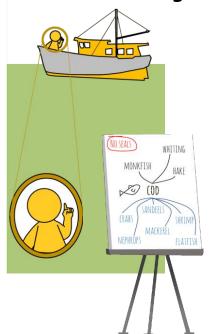
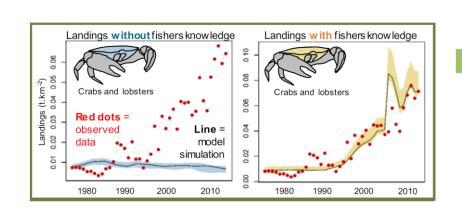


lessons learnt in WKIrish **Engage early and often**



Fishers' knowledge



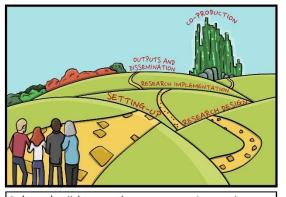


WKIrish roadmap

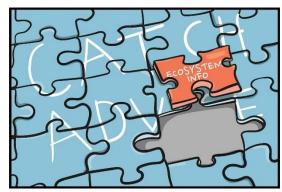


Bentley et al 2021

lessons learnt in WKIrish Align objectives and policy

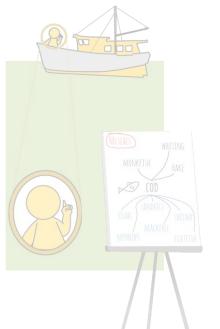


Dedicated collaboration between researchers, policy advisors, and stakeholders is needed early and often.

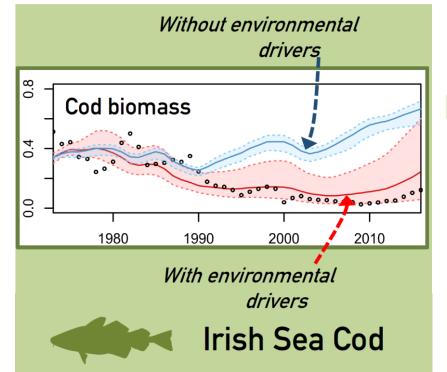


Research objectives and outputs need to be in alignment with policy questions and frameworks.

Fishers' knowledge



Ecosystem puzzle



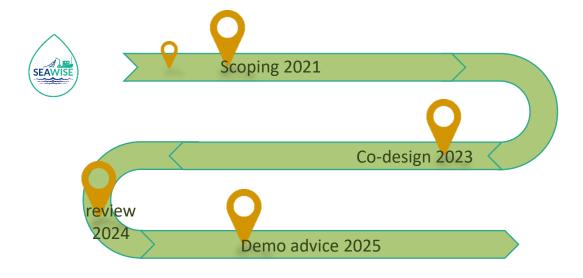
WKlrish roadmap



Bentley et al 2021

NWWAC WKIrish webinar 29th April 20

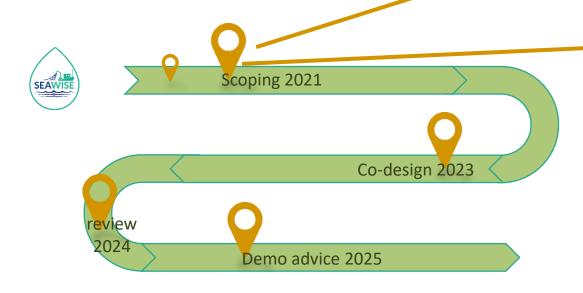
Jump with us from the next EBFM cliff . . .



 \Rightarrow let us inspire each other again and more . . .



Jump with us from the next EBFM cliff . . .



 \Rightarrow let us inspire each other again and more . . .

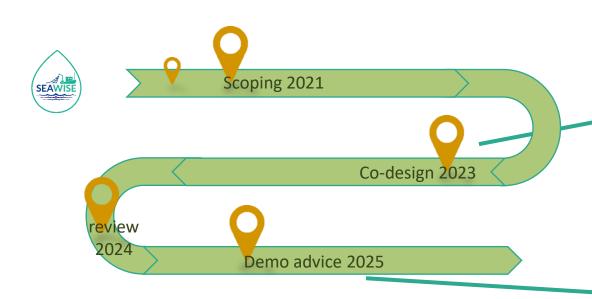
Enhance benefits to fisheries while minimizing adverse ecosystem effects

YOUR INPUT

1. WW Priorities?

2. Knowledge gaps?

Jump with us from the next EBFM cliff . . .



 \Rightarrow let us inspire each other again and more . . .

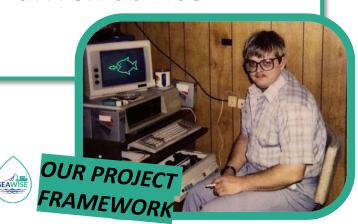
Enhance benefits to fisheries while minimizing adverse ecosystem effects

1. WW Priorities?

2. Knowledge gaps?

3. Operational tool for accurate **predictions**

4. End-user driven advice



YOUR INPUT

Seas? Gears? Species?

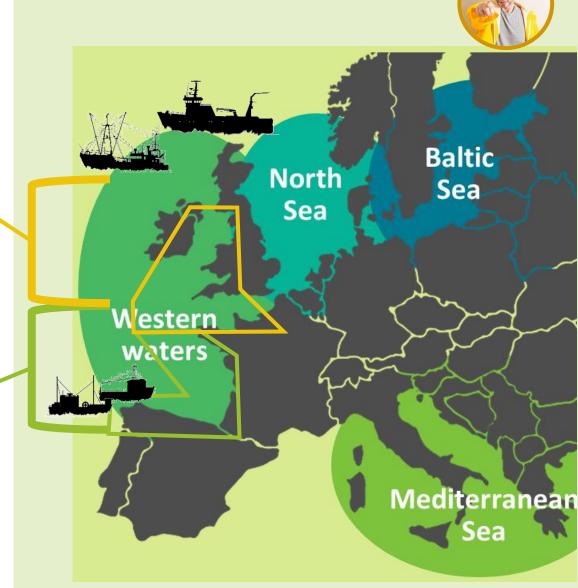
✓ NWWAC

- ♦ Irish Sea + Celtic Sea
- Otter and beam trawlers
- Small and large-scale fisheries
- Mostly mixed demersal fish: Nephrops, sole hake, haddock, cod, whiting, anglerfish, seabass, megrim...

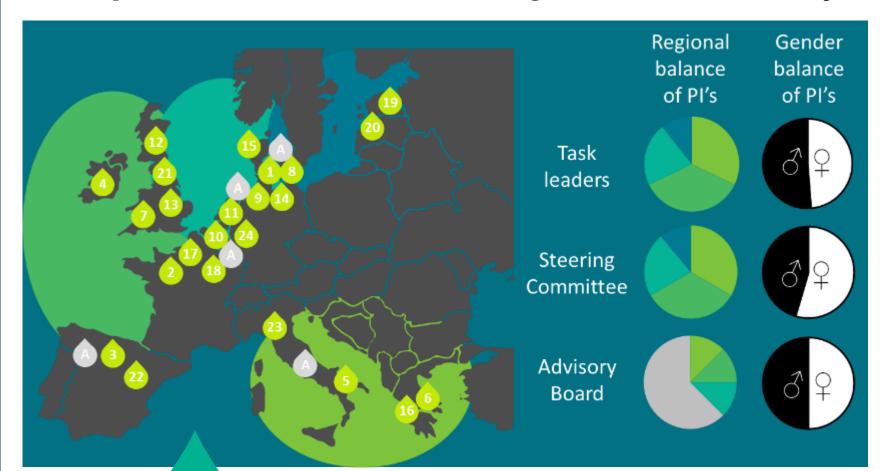
✓ SWWAC

- Bay of Biscay + Iberian coast
- ◆ Longline, gill nets, purse seiners, trawlers
- Small-scale and large fisheries
- Seabass, hake, sole, anchovy, sardines...





24 partners. 8 mio €. 4 regions. 1 advisory board. 1 approach.



European partners and an Advisory Board with key experts

Full Partners

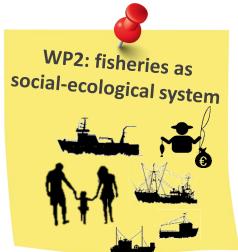
DTU Aqua (coordinator), Ifremer, AZTI, MI, COISPA, HCMR, Mindfullywired (MWC), ICES, Ti, ILVO, WMR/WECR, SMRU, Cefas, CAU, CBG-AAU, ATHENA, UBO, Agrocampus, University of Tartu, BIOR, University of Strathclyde, CEPESCA, Politecnico di Milano, WUR

Advisory Board

Ernesto Penas-Lado, Mark Dickey Collas, Elisabetta (Bee) Morello, Javier Garat, Martin Pastoors, Antonia Leroy, Magaret (Peg) Brady, Athanassios Tsikliras, Eva Plaganyi

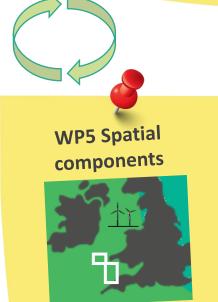


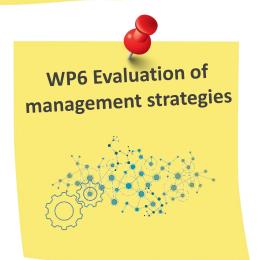
SEAwise framework

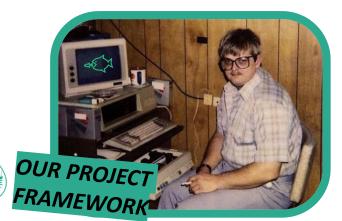




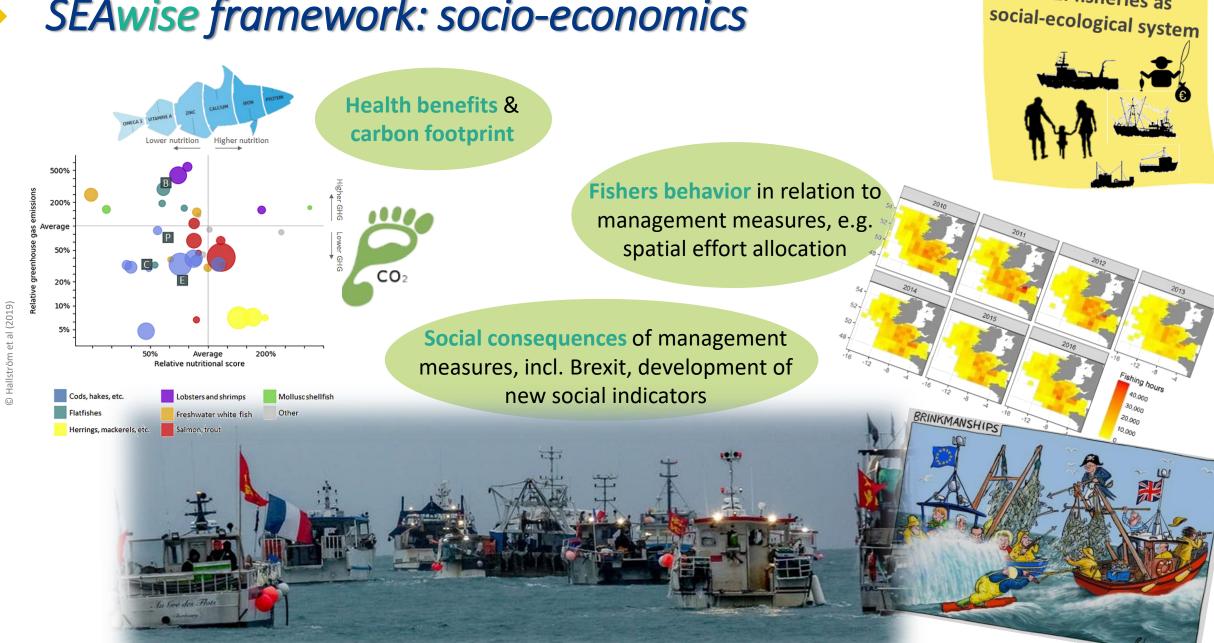








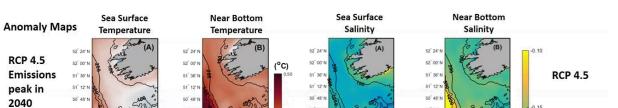
SEAwise framework: socio-economics



WP2: fisheries as

SEAwise framework: productivity

Warmer and fresher under climate change



Recruitment rates

Eggs Larvae

Larval food 66

Larval food 66

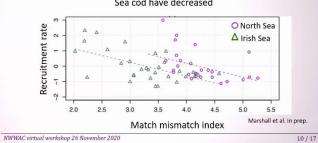
Earlier spawning increases the temporal mismatch with larval prey

Recruitment rates of cod are temperature-dependent

© Reid (NWWAC 26 Nov 2020)

As mismatch increases due to earlier spawning \rightarrow recruitment rates of Irish Sea cod have decreased

CoCliME



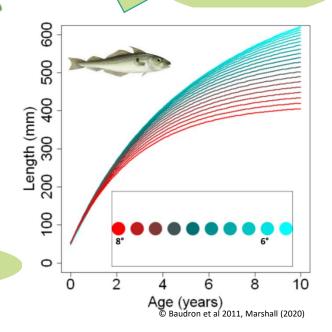
Natural mortality rates

biomass

Maturity rates



Individual growth rates

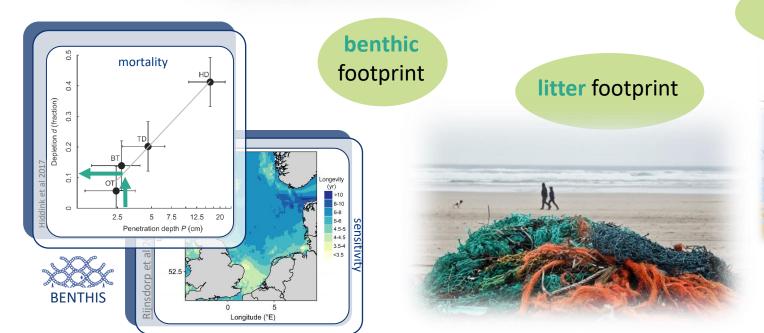


SEAwise framework: adverse ecosystem effects

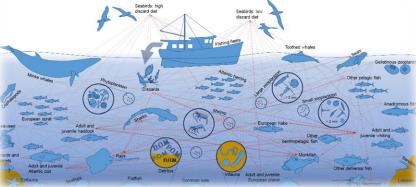


Bycatch of
Protected
Endangered
Threatened
species



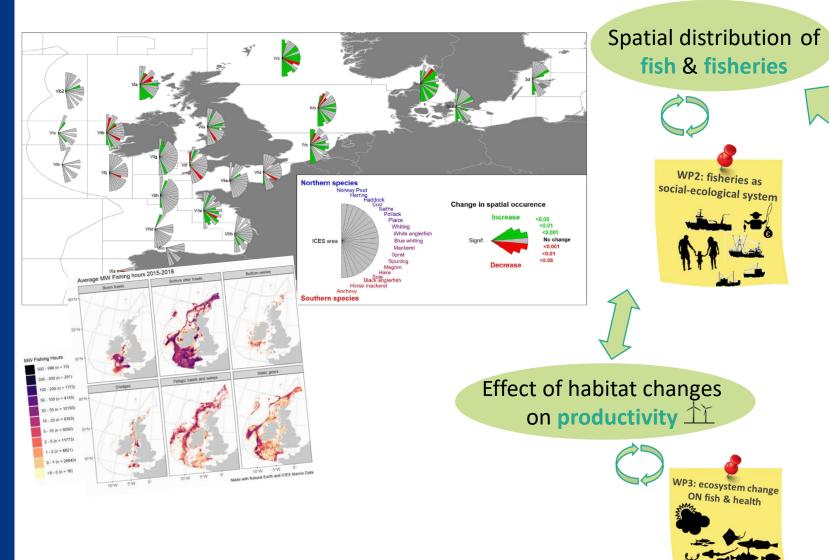


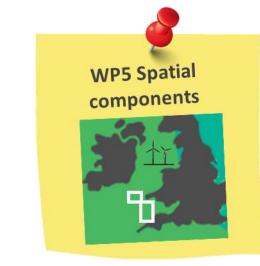
Fishing impacts on food webs



© Bentley et al (2018)

SEAwise framework: spatial components

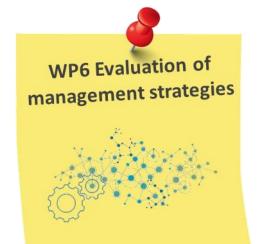




Predicting the effect of changes in fishable area

- Effect of spatial and temporal closures, gear restrictions, selectivity changes
- Changes in productivity and its consequences to fish abundance and spatial distribution of fleets
- impact on stock management of Nephrops, sole, hake, haddock, cod, whiting, anglerfish, seabass, megrim...

SEAwise framework: management & advice



Integration of social and

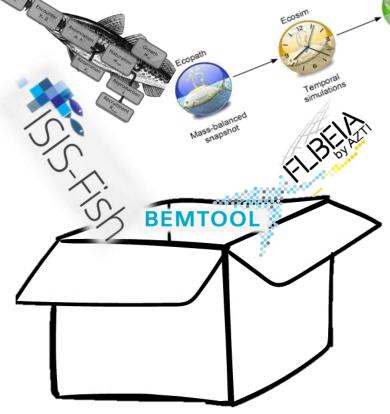
Integration of social and

economic effects in predicting

effectiveness of management

Integration of ecosystem change in stock productivity

Design and evaluation of management strategies

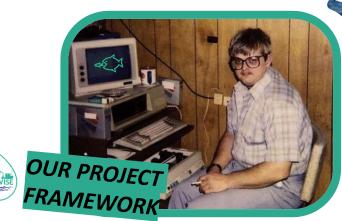


in relation to ecosystem change

So back to our question to please jump with us . . .









What would participating in the network entail?

SEAwise network participant(s) within NWWAC are invited to the four SEAwise co-design workshops:

Autumn 2021: Stakeholder scoping of key ecosystem priorities and measures

Spring 2023: 1st presentation of management strategy evaluation results

Autumn 2024: 2nd presentation of management strategy evaluation results

Spring 2025: Synthesis and advice demonstration in Brussels

The first three of these can be organized together with you to fit your schedule and reduce travel.

We also hope you will attend the SEAwise/ICES/GFCM workshops to determine best approaches to EBFM in autumn 2023 and winter 2025.

Between these meetings, "expert advice users" are invited to comment on key priorities and formats for advice, welcome us to your meetings, attend online meetings, or participate in specific interviews.



