

Coastal Futures Conference 2025

The Path to 2030

29 & 30 January 2025



Coastal **Futures** 2025

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Coastal Futures Conference 2025

The Path to 2030





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Session Five

Future Fishing

How will future fishing be balanced with restoration efforts & space for renewable energy?

> Chair Daniel Owen, Fenners Chambers







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Session Five Future Fishing

Fail to plan / plan to fail: the need for a strategic approach to managing fisheries and the marine space

Coastal Futures Mike Cohen, CEO, National Federation of Fishermen's Organisations

Conference 2025 The Path to 2030



Fail to Plan: Plan to Fail

The need for a strategic approach to managing fisheries and the marine space

Mike Cohen

Fishin G

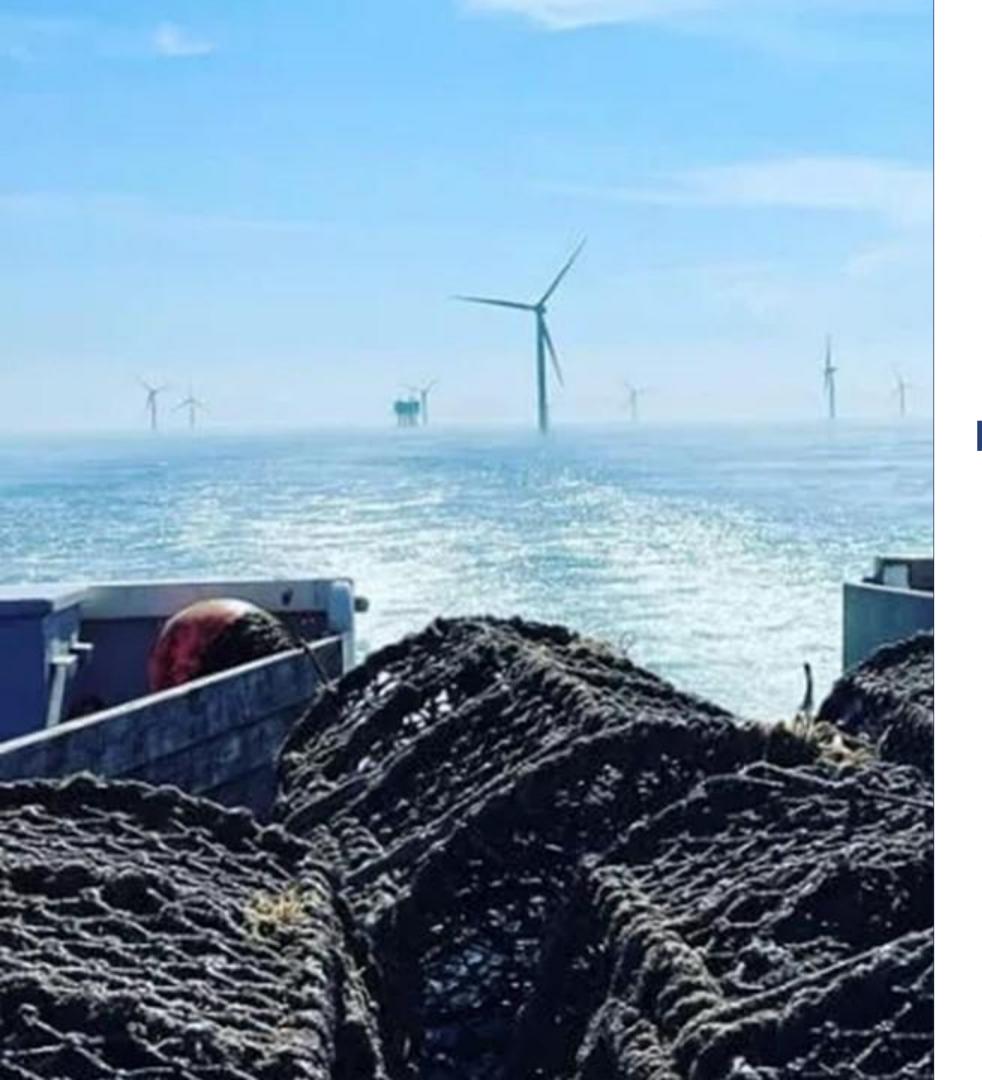


Commercial fishing has existed for centuries. It provides opportunity, income and a sense of community in places that are often, in every sense, on the margins.

Well managed, fishing can provide sustainable, healthy food, with a low carbon footprint.

Its value in coastal economies is far greater than its contribution to GDP implies.





Sharing the Sea

Today, there are many users of the sea:

Oil and gas, aggregates, wind power, telecoms, transport, leisure, waste disposal, conservation, defence and more.

Some pass through, others establish a permanent presence.

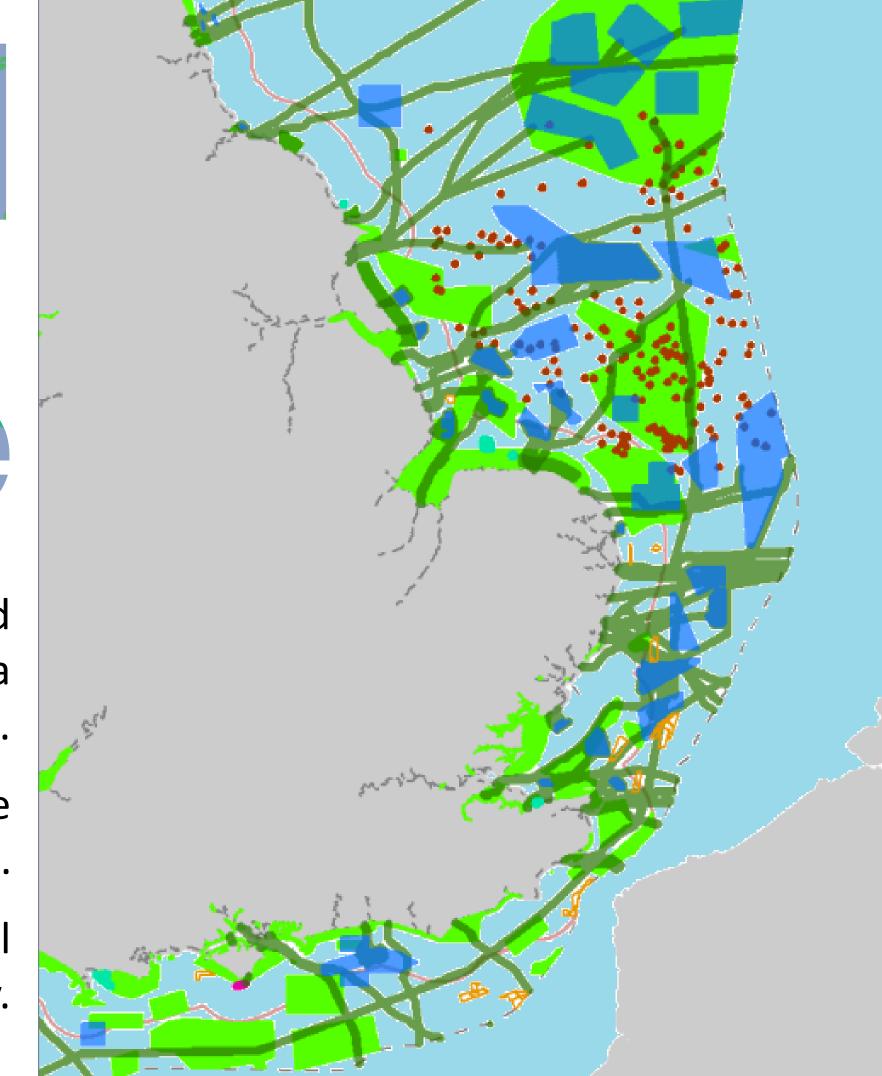
The seascape has changed.

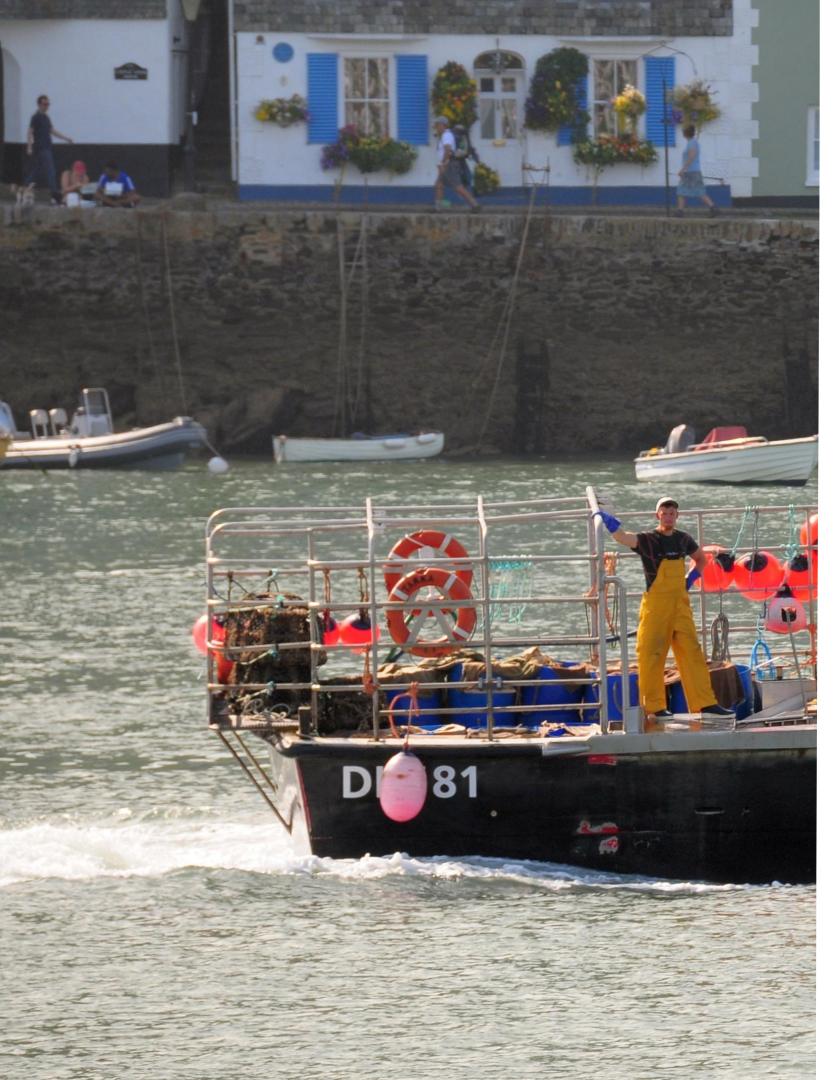
Spatial Squeze

Planners and policy-makers have repeatedly assumed that, when they assign a new use to a particular sea area, fishing will simply go somewhere else.

Fishing cannot be displaced indefinitely. Fishermen are being squeezed out of their traditional grounds.

This is unintentional, but it threatens coastal communities and degrades national food security.





Plans and

Polices

Many different regulations, administered by many different agencies determine what fishermen can catch, where, how and from what boat.

Policy on energy, environment, immigration, trade education, safety, transportation and more drive this

...and all of that is *absolutely fine*.

The difficulty is not that the problem is complex, it is that the response is disorganised

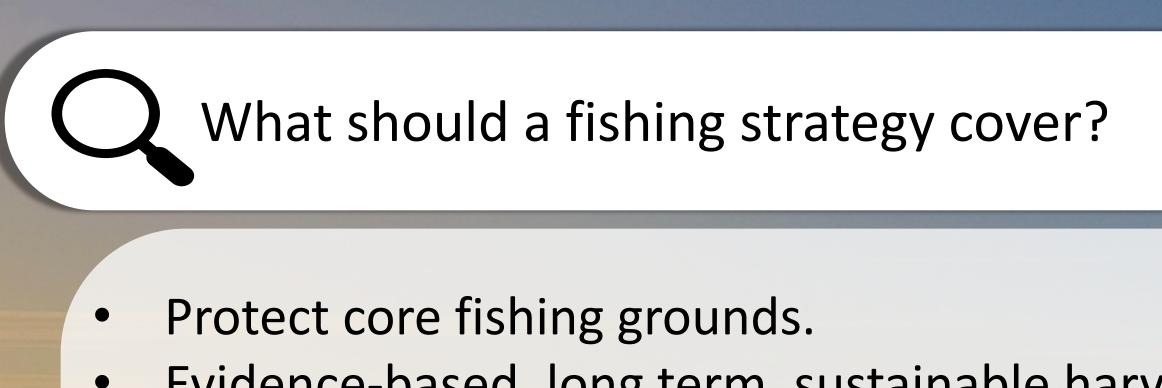
Shaping

Without clarity about its place and its purpose, the fishing industry will continue to be sidelined in favour of sectors with better articulated policy visions.

Fishing, energy, nature, communication, trade, defence and all the other maritime sectors will never be successfully balanced by tinkering.

We need an industrial strategy for fishing. The alternative is predictable failure.





- Evidence-based, long term, sustainable harvest plans.
- Improve safety and welfare.
- Ensure fair recompense for labour.
- Promote fleet modernisation.
- Support job creation and domestic crew training.
- Strengthen domestic supply chains.
- Develop new domestic and export market opportunities.
- Promote fishing as core part of coastal economies.



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Session Five Future Fishing

An assessment framework for a just transition for mobile gear fisheries

> Joe Richards, Blue Marine Foundation







Strategic Goals



Securing Marine Protected
 Areas.

Tackling overfishing,
 supporting sustainable,
 equitable use of the sea.

3. Restoring marine habitats.

What is a 'Just Transition'?

- Concept of just transition has been adopted widely in policy making.
- To date, no universally accepted definition.

2015 ILO produces model and guidelines for a just transition Just transition text included in preamble to Paris Agreement 2018 COP24 – includes language on just transitions The G7 focused on expanding Just Energy Transition Partnerships to Indonesia, India, Senegal, and Vietnam

1990s

The EU starts
 considering just
 transition principles in
 its own policies

2017

 The OECD put out a major report on just transitions written by the Just Transitions Centre

2021

The Glasgow Climate
 Pact in 2021
 emphasized just
 transitions to low-emission, climate-resilient development

Figure 1:Milestones in the definition of "just transition" (source: eftec)





Purpose



- To create a framework for assessing future fisheries transitions;
- To assess the costs and benefits of a transition from higher impact fishing activity to lower impact gear or away from fishing using environmental, social, and economic indicators;
- To understand and quantify practical costs for transitioning;
- To provide evidence and outline potential financial mechanisms that can support fishermen if such a transition was undertaken.



Fisheries Transition Analysis Framework:



Scope

- Transition and drivers
- Spatial area
- Timescale
- Habitats and stocks
- Species

Baseline data

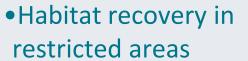
- Fisheries management
- Fisheries activity
- Stocks
- Economic baseline
- Products and pricing
- Habitats and species

Initial modelling of transition scenario(s)



- Assessment of one-off transition costs and benefits
- 'Static' assessment of changes to costs and benefit flows
- Potential indirect costs/impacts.

Dynamic impacts and timescales



- Impacts on target stocks and through displaced effort
- Other potential impacts
- Markets /price responses

Transition outcome

- Physical assessment
- •Economic assessment
- Net value of transition
- Socio-economic outcomes



Application of the fisheries transition framework

- 1. Change of catch method within the same fishery or target stock:
 - E.g. Nephrop trawl to nephrop creel.
- 2. Moving to a different target stock / area:
 - E.g. Demersal white fish to static netting.
- 3. Moving to a different marine industry:
 - E.g. Scallop dredge to offshore wind / recreational dive / fishing boat operator.

Wider application of the fisheries transition framework

- Inform transitions to greener more sustainable inshore fisheries.
- Be considered during the development of future Impact Assessments.
- Identify and inform transition options following any displacement from activities such as offshore energy development.
- Diversification inform costs and benefits of moving to more sustainable lower impact fishing gear / technologies.

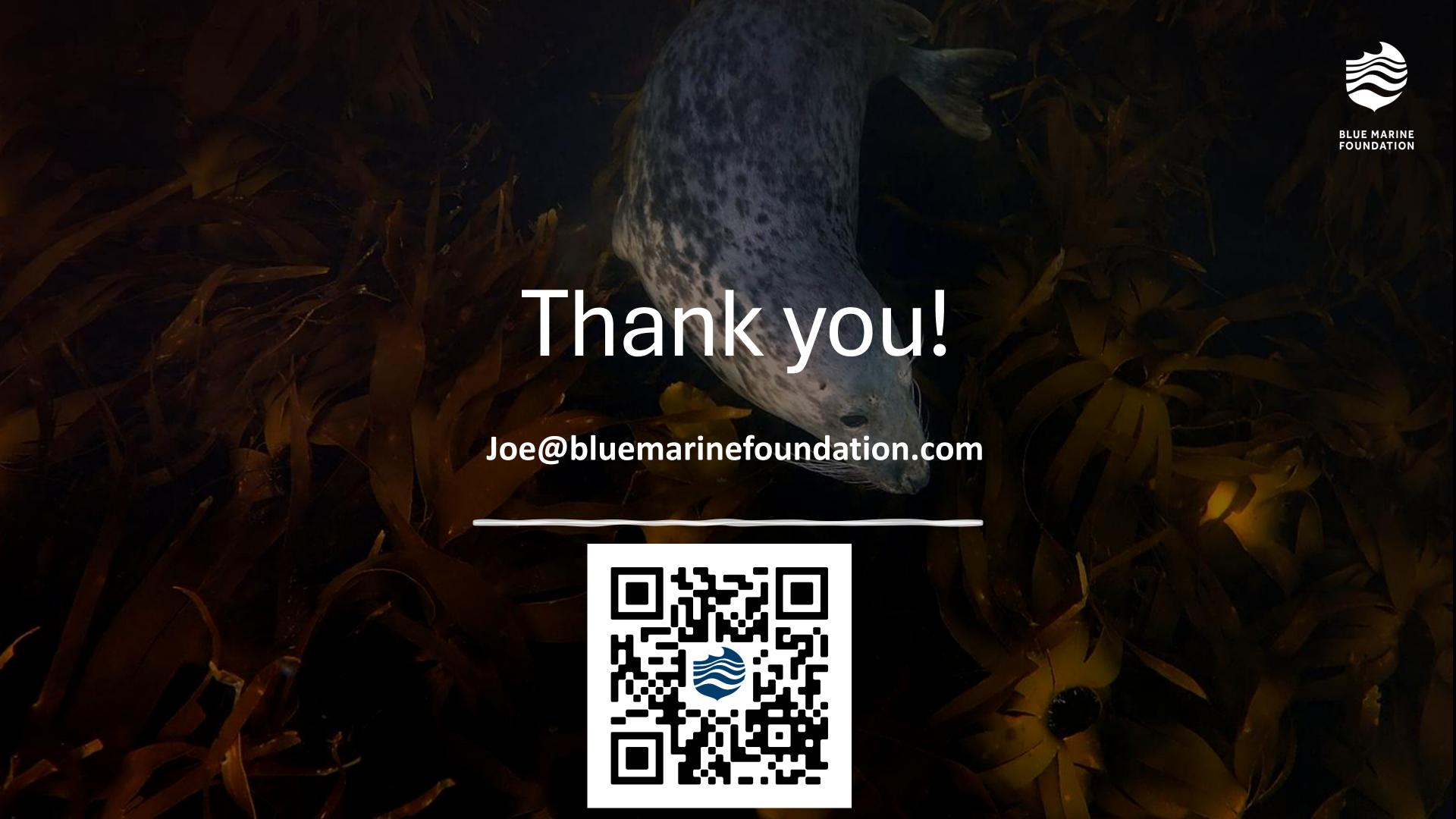


Conclusions

A just transition in fishing requires:

- A multifaceted approach that addresses the environmental, economic and social dimensions of fisheries management and involves stakeholders.
- Understanding the scale of costs and benefits (environmental, social and economic) and who, and what, will be impacted.
- Access to robust data.
- Careful planning and investment.
- Adoption of transition principles into national policy on spatial management is key to a fair and equitable just transition.







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Session Five Future Fishing

The case for spatial management in Scotlands inshore fisheries'

Alistair Bally Philp, Scottish Creel Fishermen's Federation



Protecting the livelihoods of small scale inshore fishermen

The case for spatial management in Scotland's inshore waters



The Right gear in the right place at the right time

33 member orgs, in 15 states Incorporating Approx 10,000 fishers



What is a Small Scale Fisher?

Usually under 12m

Small crew of 1~3

Fishing operation usually within 12 miles

Normally fishing less than 24 hours

Mostly owner operated

Deploying static gears

• The definition of 'small scale' in terms of fishing vessels within the European Union can be found in the European Maritime and Fisheries Fund Regulation 508/2014. Article 3(14) states that: "small-scale coastal fishing' means fishing carried out by fishing vessels of an overall length of less than 12 metres and not using towed fishing gear as listed in Table 3 of Annex I to Commission Regulation (EC) No 26/2004".



Unlike countries like
 Norway which has a
 12 mile limit on the
 use of mobile gears,
 Scotland does not use
 spatial management
 to protect or
 incentivize SSF or low
 impact fisheries

Efficiency of the Under 10m Inshore Fleet

Landings (100) (10

Why is it so important to protect Small Scale and Artisan Fishers?

Value

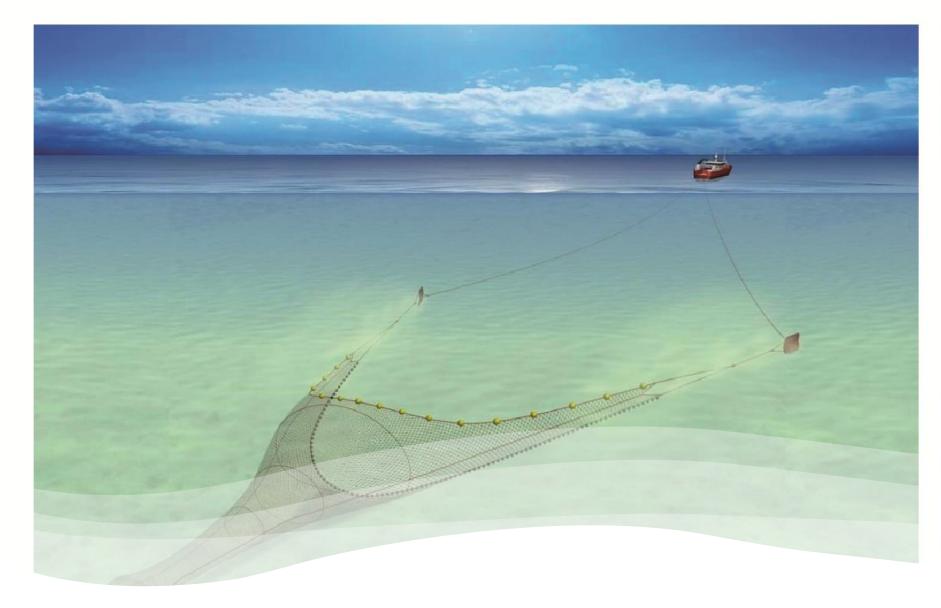


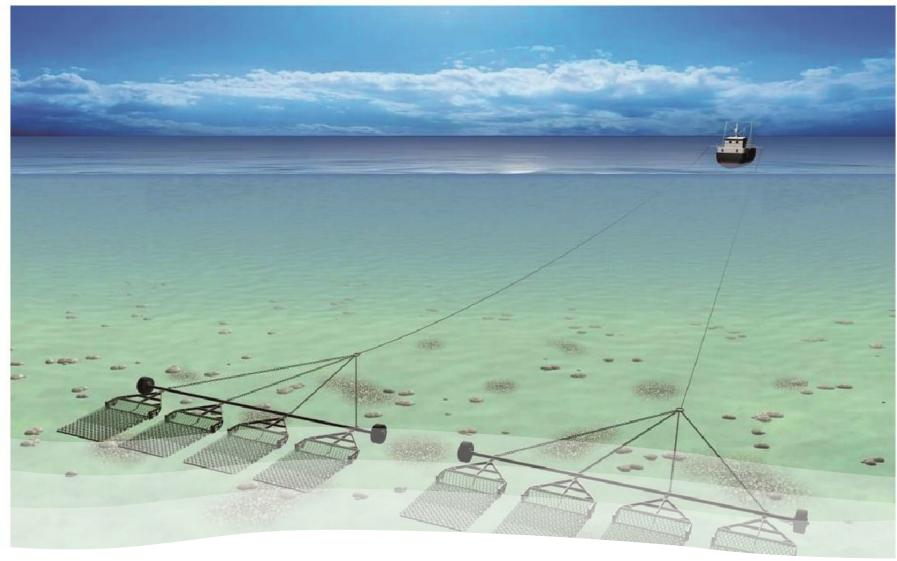


* SPICe breifing 2019

Demersal Irawl

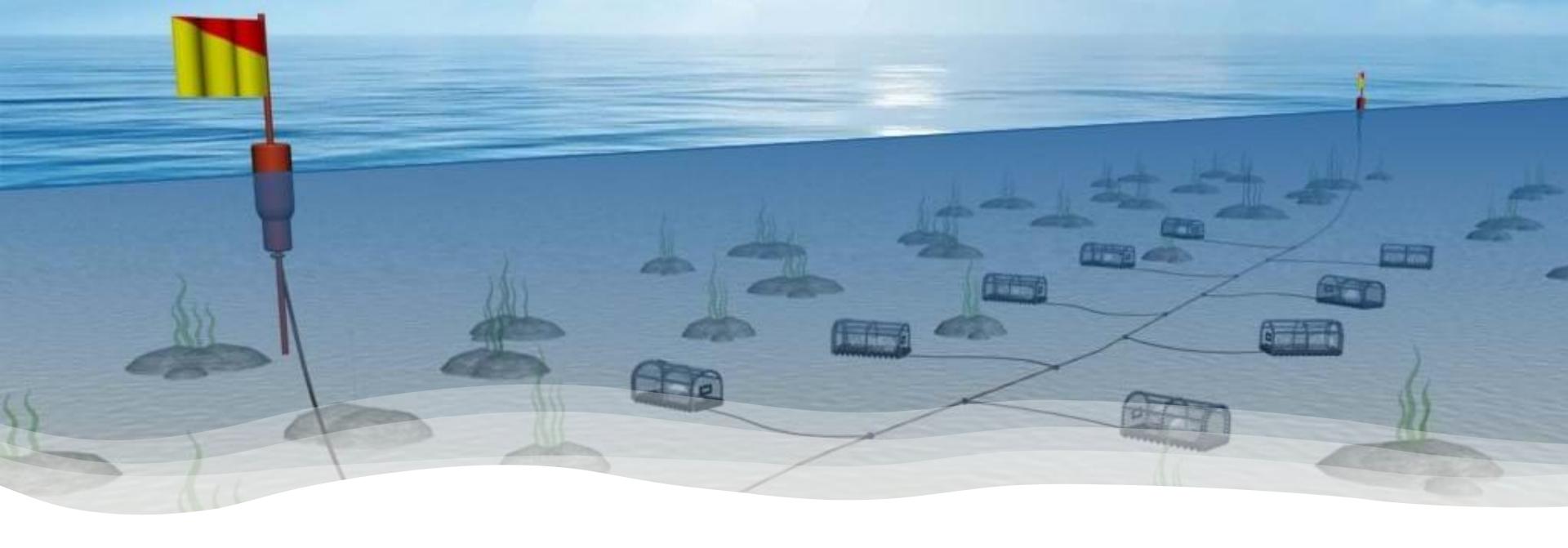
Scallop Dredge





What are examples of low impact and high impact fishing gears?

 Towed demersal gears such as dredges and trawls can impact very extensive areas of seabed habitat and often suffer from poor selectivity between non target and target species



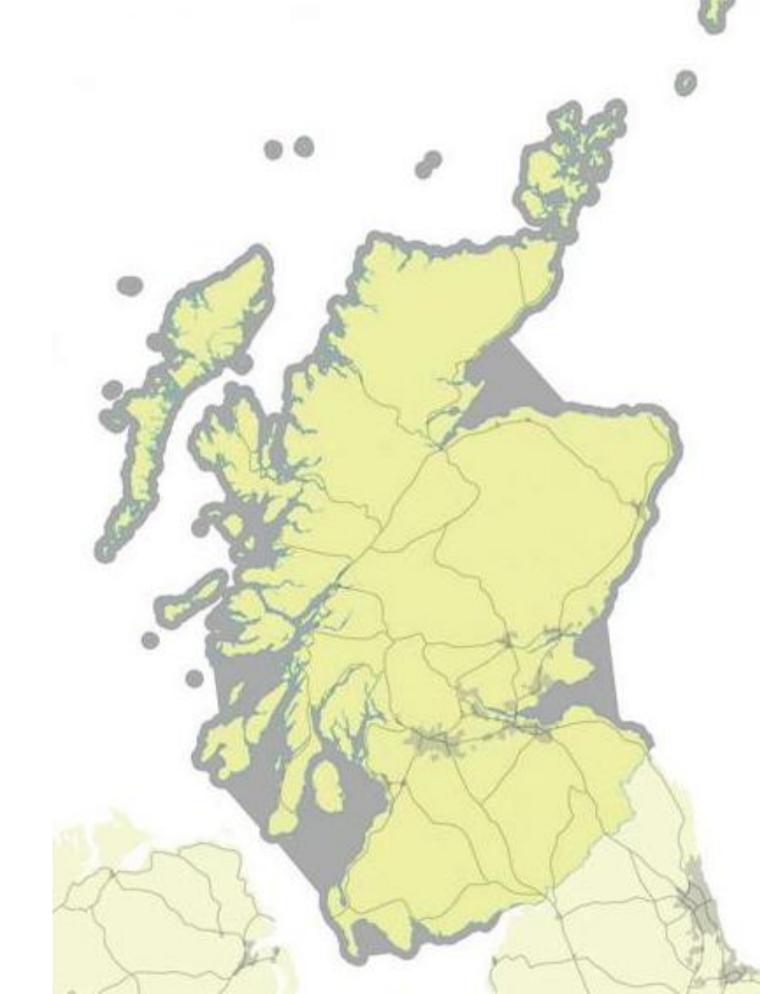
Creel Fishing is the principal static gear used in Scotland

- Our ecosystems and the creel fisheries themselves would benefit from improved management such as catch and effort limits.
- However even badly managed creel fisheries offer superior social, economic and environmental outcomes when compared to mobile gears!



Historically Scotland had extensive spatial management in the Firths & the Three mile limit

 Trawl restrictions were in place round Scotland's inshore waters from 1889 until 1960's when the Firths were opened up then 1984 when the three mile limit was removed to allow demersal trawling.



THE FIRTH of CLYDE

Prior to the 1960's

Over 10,000 thousand tons of herring

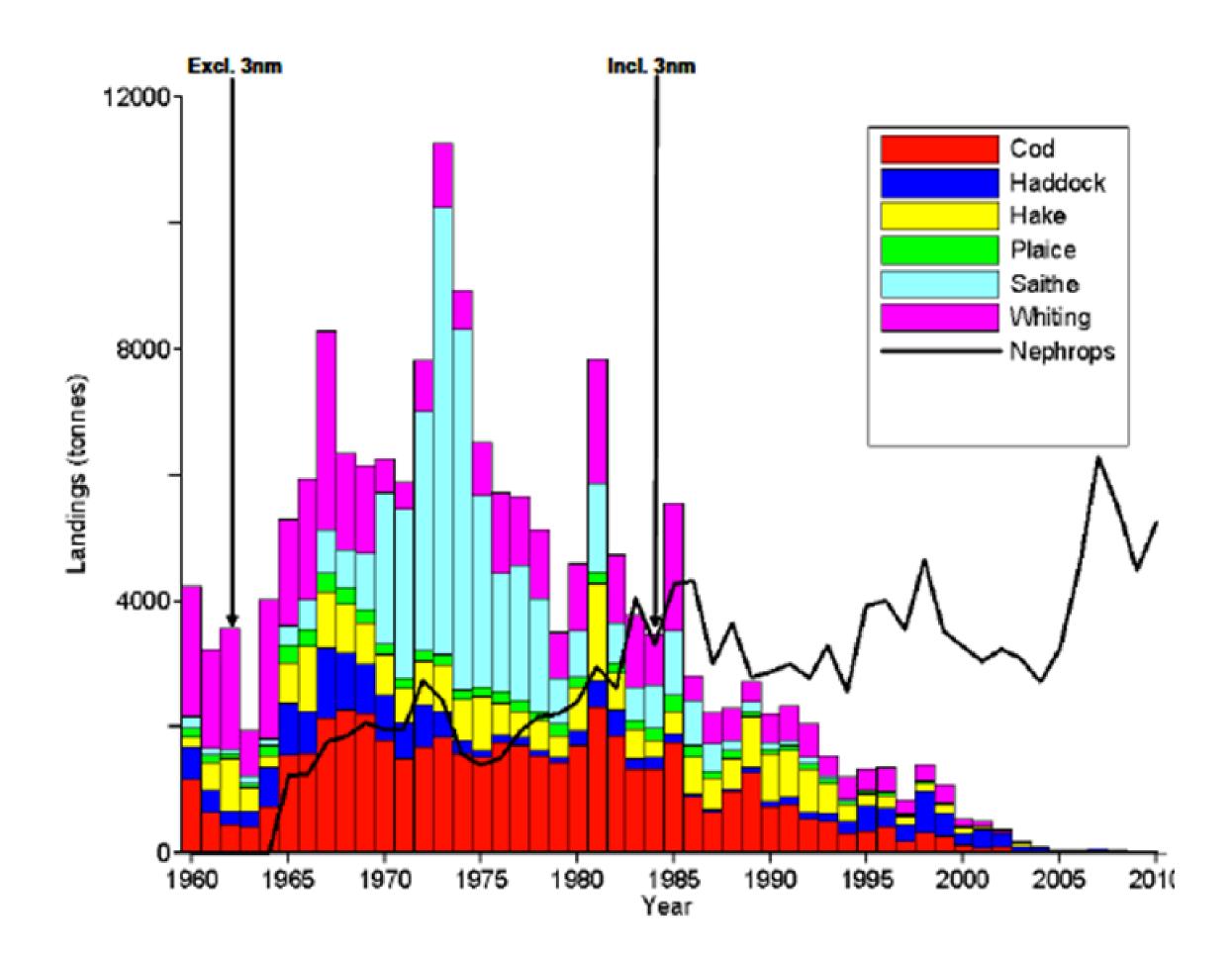
And

Several thousand tons of demersal whitefish were landed from the Clyde in each year.

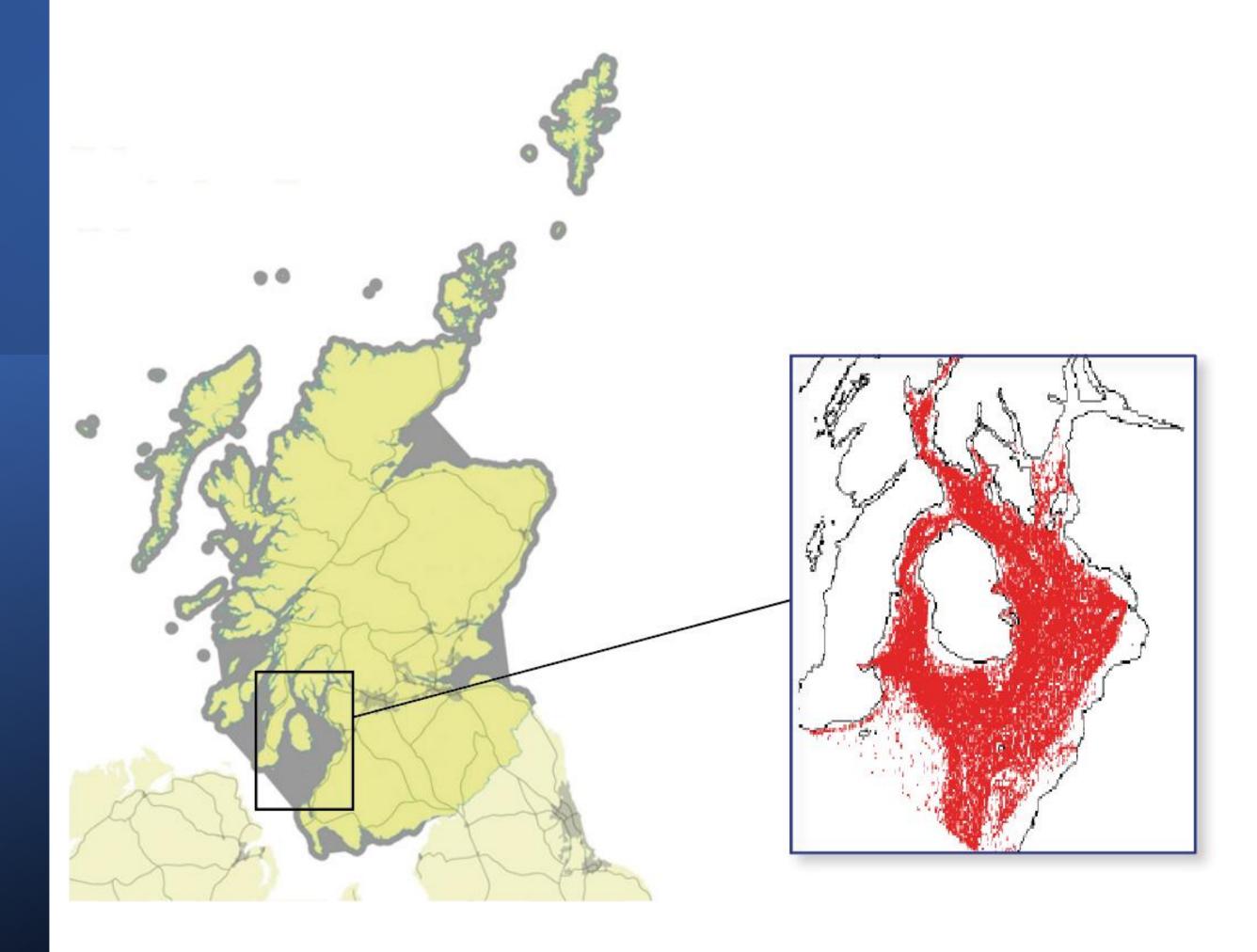
Current annual landings of all finfish from the whole Clyde sea area are near zero



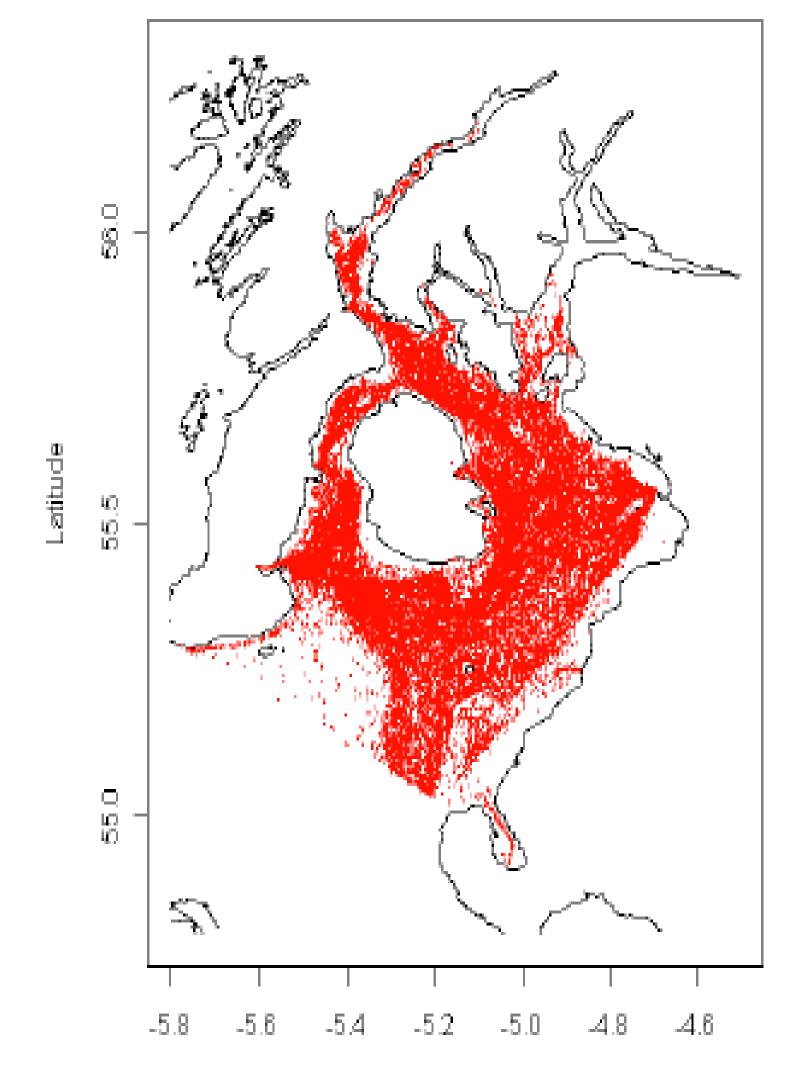
The introduction of extensive trawling precipitated the complete collapse of Demersal fish landings from the Clyde



VMS pings from over 12m Nephrops trawl vessels in the Clyde show the extent of the seabed regularly impacted and the limited opportunity for creel fishing



Lack of Spatial management restricts the opportunity for low impact fisheries



UK 2020 Fisheries Act Section 25 (3) When distributing catch quotas and effort quotas for use by fishing boats, the national fisheries authorities must seek to incentivise—

(a)the use of selective fishing gear, and (b)the use of fishing techniques that have a reduced impact on the environment (for example that use less energy or cause less damage to habitats).

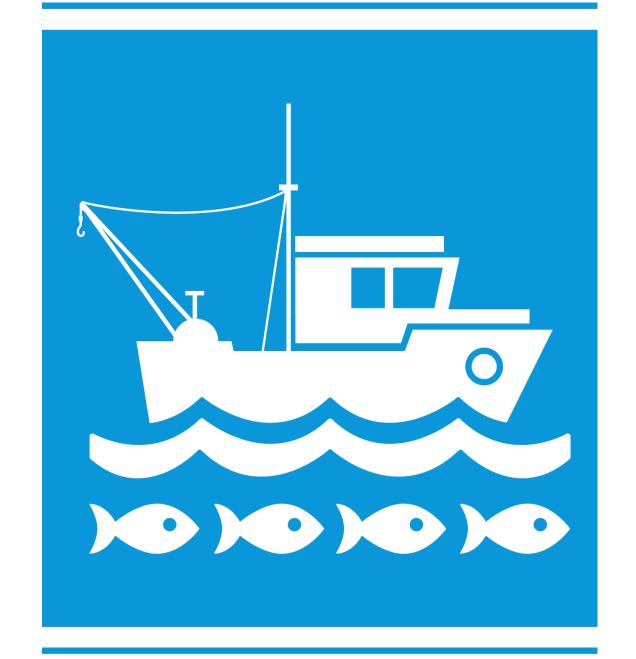
Like Art 17 of CFP



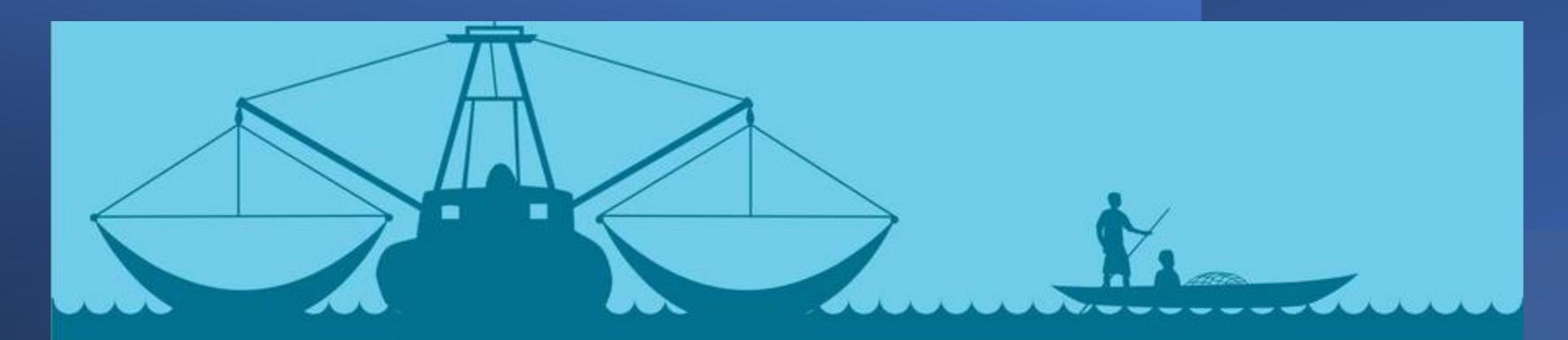
Our commitments via UN SDG's are clear about our obligations to provide access to fishing opportunity for SSF

- Target 14.b provide access of small-scale artisanal fishers to marine resources and markets.
- Do we have a plan, policy or framework to protect access to fishing opportunity for small scale and artisan fishers?

TARGET 14 B



SUPPORT SMALL SCALE FISHERS



Industrial fishing fleets

10% of global fisheries employees
1 job per 100 tons of fish

Small-scale fisheries

90% of global fisheries employees
40 jobs per 100 tons of fish

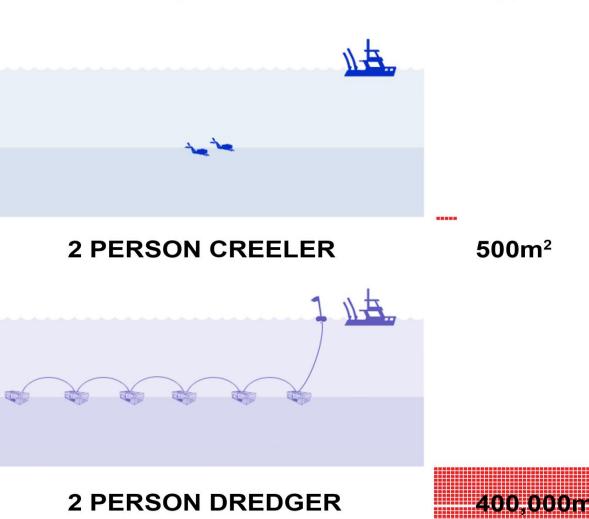
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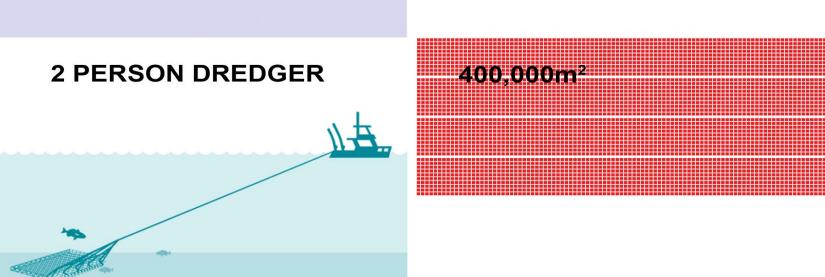
SSF generate more jobs and revenue per kg of fish

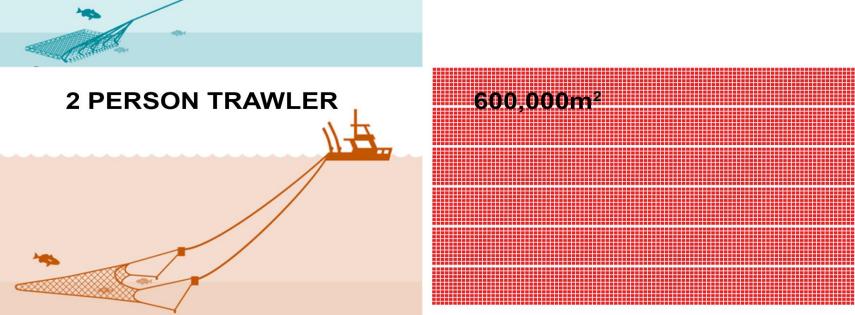
	LARGE SCALE	SMALL SCALE
Number of fishermen employed	İ AROUND 500,000	1111111111 OVER
Annual catch of marine fish for human consumption	AROUND 29 MILLION TONNES	AROUND 24 MILLION TONNES
Capital cost of each Job on fishing vessels	\$2525555555555555555555555555555555555	\$ \$ 250-2,500
Fishermen employed for each \$ 1 million invested in fishing vessels	i 5-30	111111111111111111111111 1111111111111
Fish destroyed at sea each year as by-catch in shrimp fisheries	6-16 MILLION TONNES	NONE

Not only do SSF generally offer superior social and economic returns by employing more fishermen and maximising value, when compared to mobile demersal trawls they often have far superior environmental outcomes

SEABED DISTURBANCE OF FISHING TYPES PER DAY SMALL INSHORE VESSELS 2 DIVERS 200m²









We currently fail of 7 out of the

11 indicators for GES



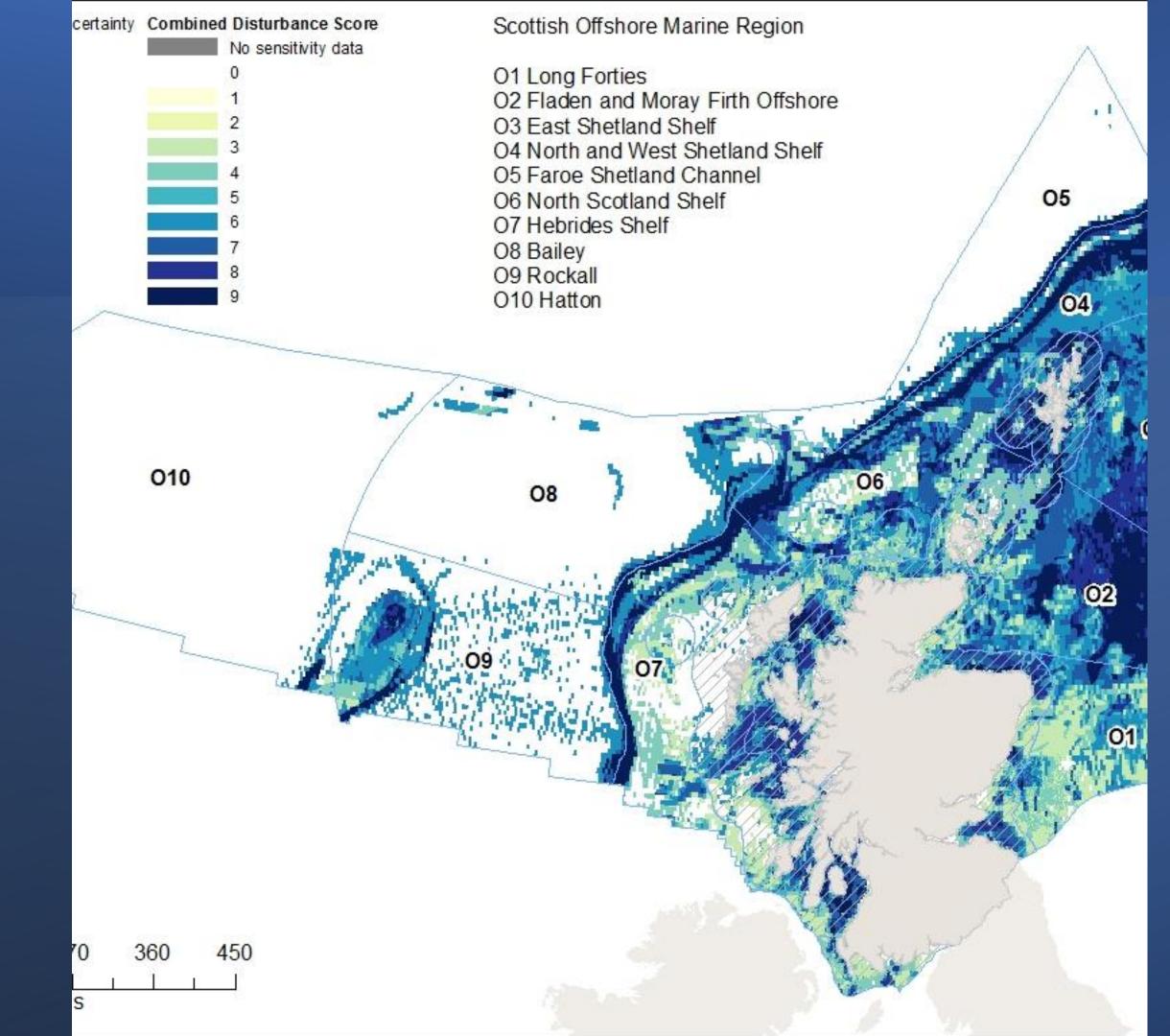
Good Environmental Status





Extent of Physical damage D1 - Biological Diversity D6 - Seafloor Integrity

86% of the assessed areas in the Greater North Sea and the Celtic Seas have physical disturbance, of which 58% showed higher disturbance.



Scotland's current MPA network extends to 37% of our seas

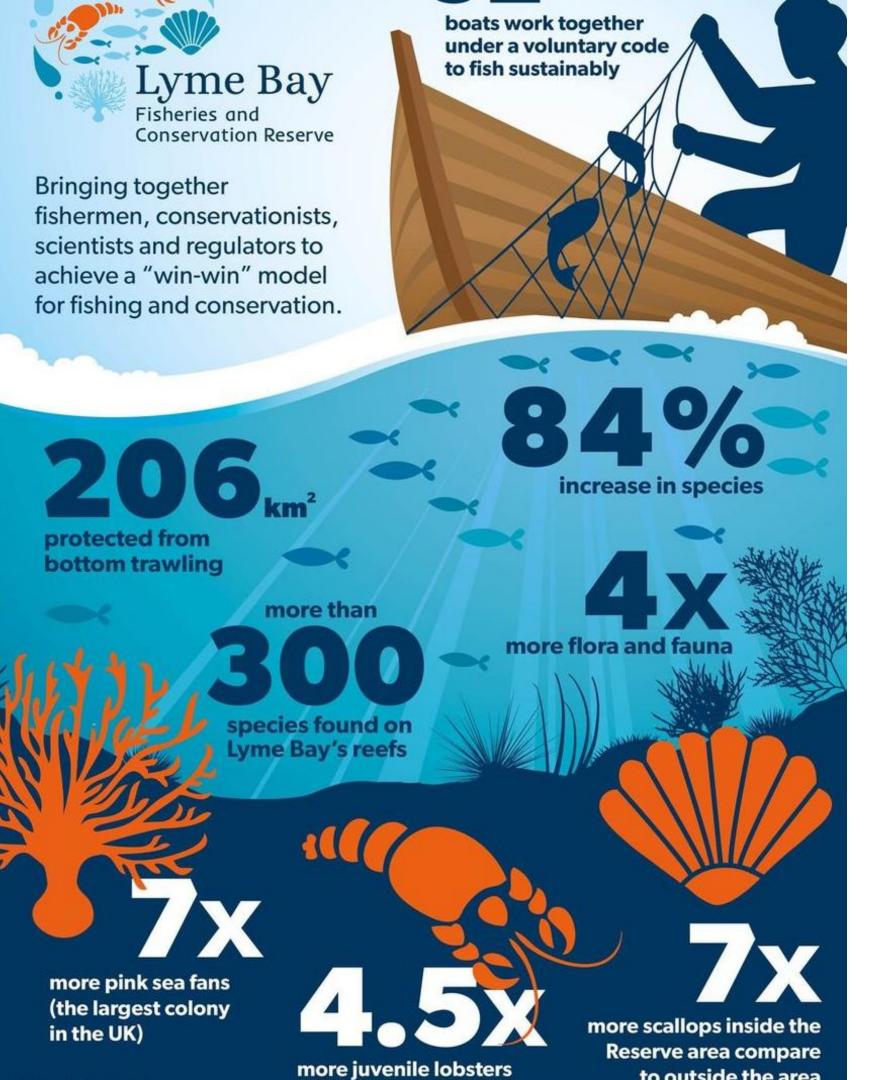
Trawling & Dredging are only restricted in a small fraction of that area (Approx. 5%)

In order to meet our GES D1 seabed indicator those restrictions are anticipated to become far more extensive



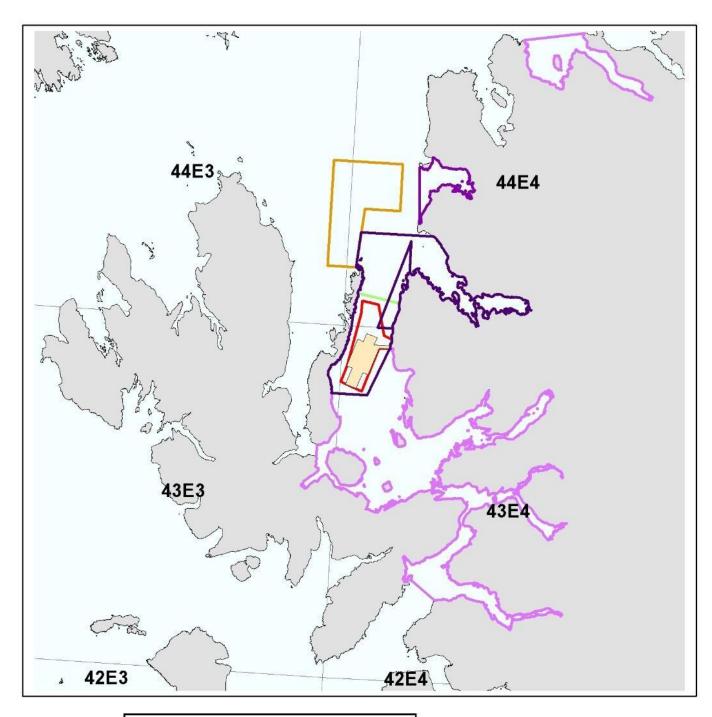
UK Fisheries Act 2020

- (1)When distributing catch quotas and effort quotas for use by fishing boats, the national fisheries authorities must use criteria that—
- (a) are transparent and objective, and
- (b)include criteria relating to environmental, social and economic factors.
- (2)The criteria may in particular relate to—
- (a)the impact of fishing on the environment;
- (b)the history of compliance with regulatory requirements relating to fishing;
- (c)the contribution of fishing to the local economy(d)historic catch levels.
- (3) When distributing catch quotas and effort quotas for use by fishing boats, the national fisheries authorities must seek to incentivise
- (a)the use of selective fishing gear, and
- (b) the use of fishing techniques that have a reduced impact on the environment (for example that use less energy or cause less damage to habitats).



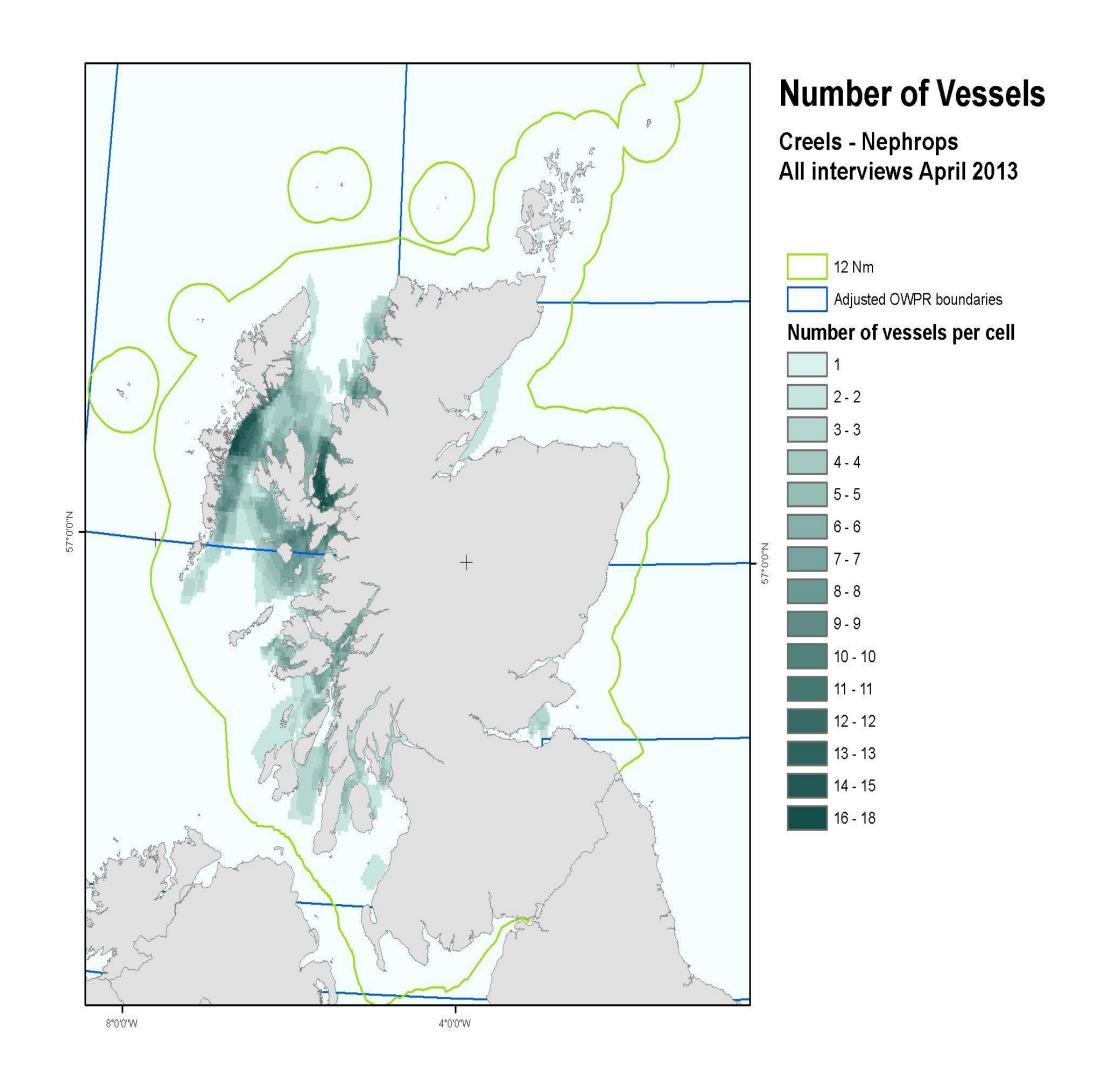
- There are few examples of spatial management in the UK
- However this example of a thriving fishery in Lyme Bay in England illustrates what can be achieved by restricting mobile gear and introducing fit for purpose management for the remaining static gears

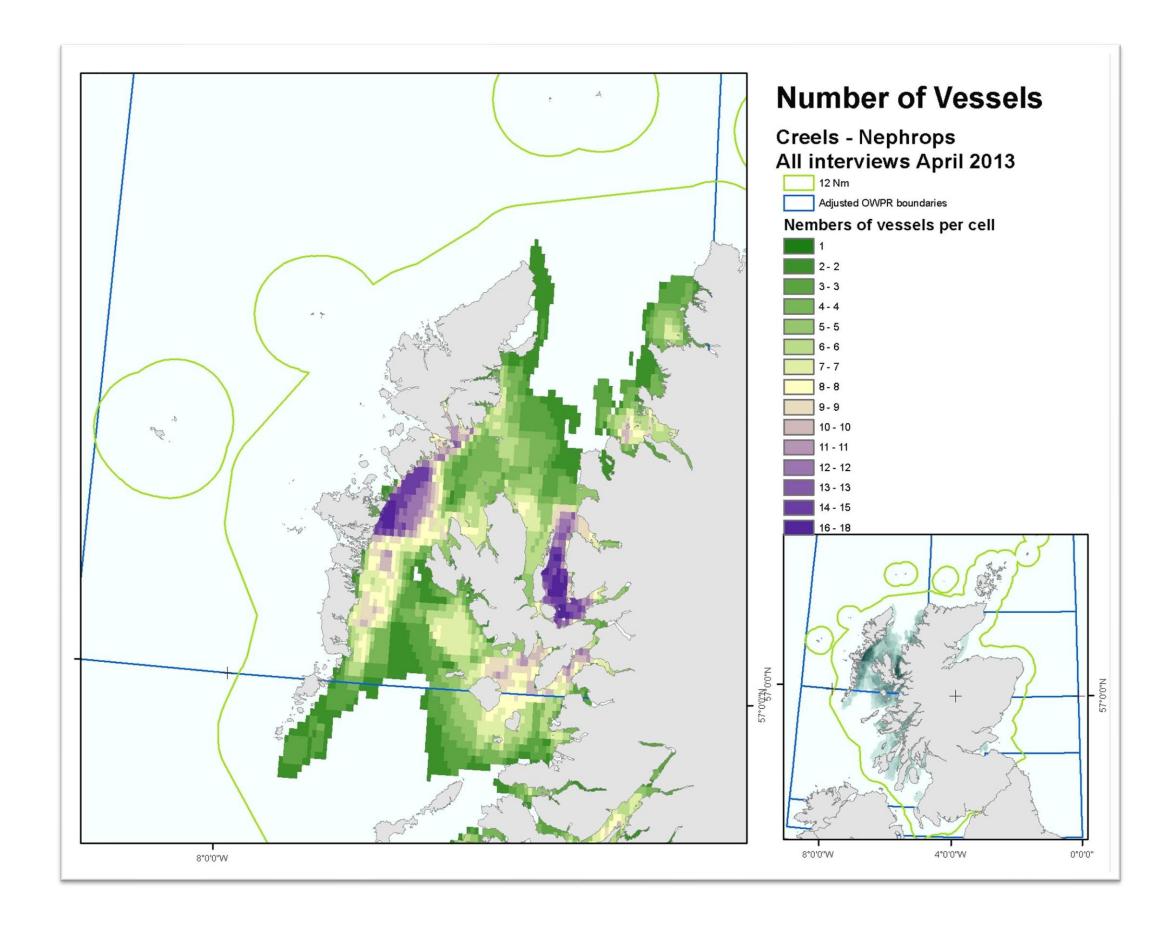
The Inner Sound is exceptional in containing an extensive no take zone, creel only zones and not being fully opened to trawling all year round





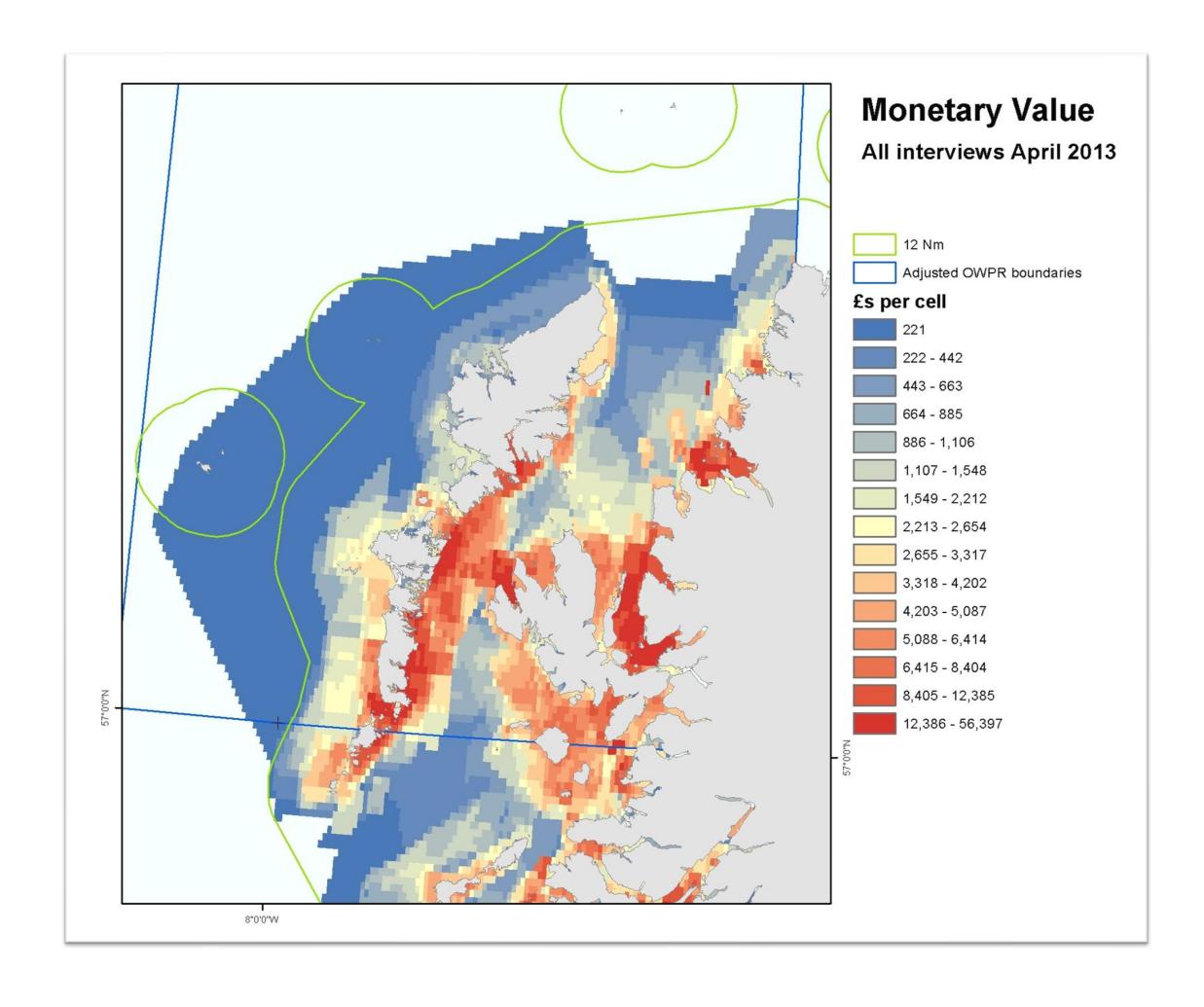
The Inner Sound
Supports more
vessels per Sq
km than any
other area in
Scotland





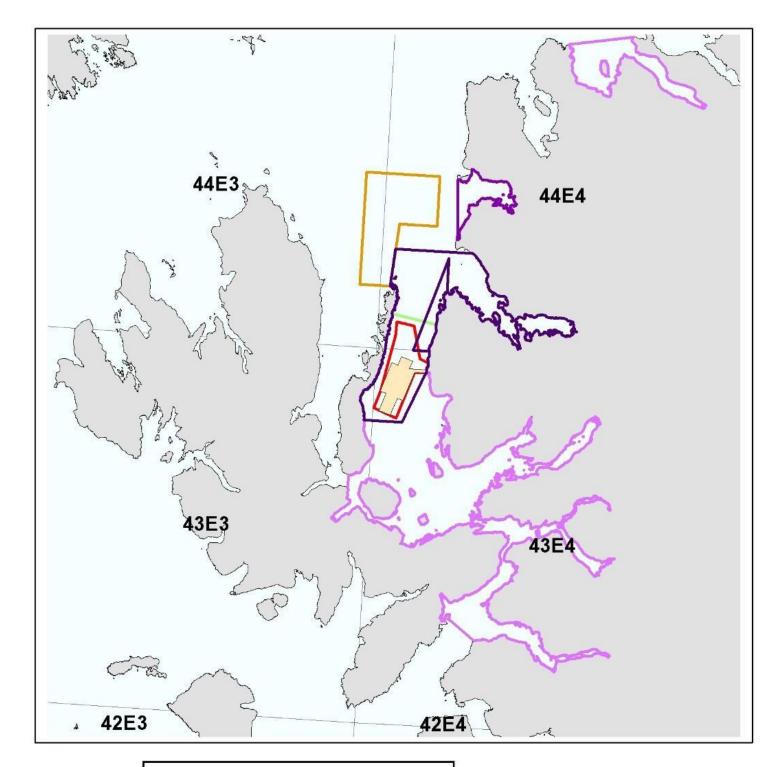
More Fishing Jobs

 Scotmap illustrates that due to restrictions on trawling and dredging the Inner Sound supports a higher density of vessels and therefore more jobs per Sq km than almost any other inshore fishery in Scotland.



More Revenue

 Scotmap illustrates that the Inner Sound clearly generates more revenue per Sq km than almost any other fishery in the west coast of Scotland Lyme Bay, the Inner Sound and the Norway model all demonstrate that Spatial Management is the way to incentivize low impact & SSF





Extensive spatial management of High and Low impact fisheries will protect fishing jobs in our coastal communities and facilitate meeting our commitments for marine conservation



The Fisheries Act obliges us to introduce ecosystems based fisheries management plans

This has the potential to facilitate the required spatial management.

It's simple really

Large scale and high impact fisheries should not be allowed to displace SSF fisheries that offer superior social, economic and environmental outcomes!



Else we are not only failing to meet our national and international conservation commitments and our obligations to protect small scale fishers,

We are also unnecessarily sacrificing the jobs, revenues and the environments that our coastal communities depend on!



Ultimately...Protecting fishing Jobs and the environment comes down to...

Using the right gear In the right place At the right time!



Thank You!



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Session Five

Future Fishing

Recognising and harnessing the national benefit of sustainable fisheries across the UK: You don't know what you've got 'til it's gone'

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Rob Clark, CEO, Association of Inshore Fisheries and Conservation Authorities

























Securing Sustainable Inshore Fisheries in the UK: navigating a roadmap for change.

Robert Clark



SUSTAINABLE FISHING



fish in the OCEAN,





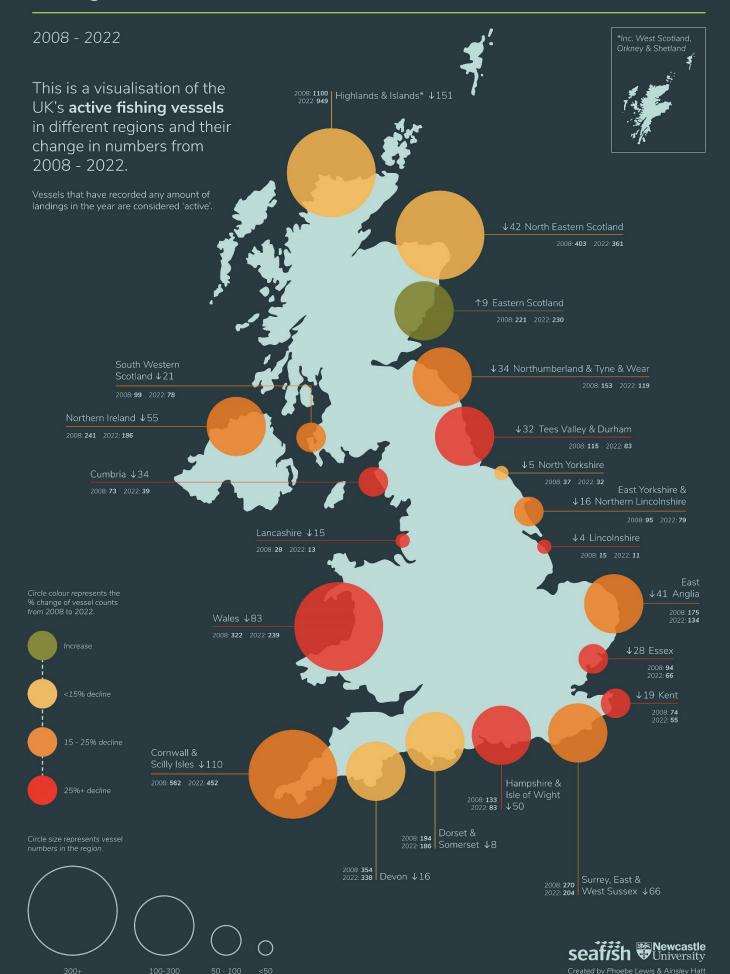
RESPECTING HABITATS



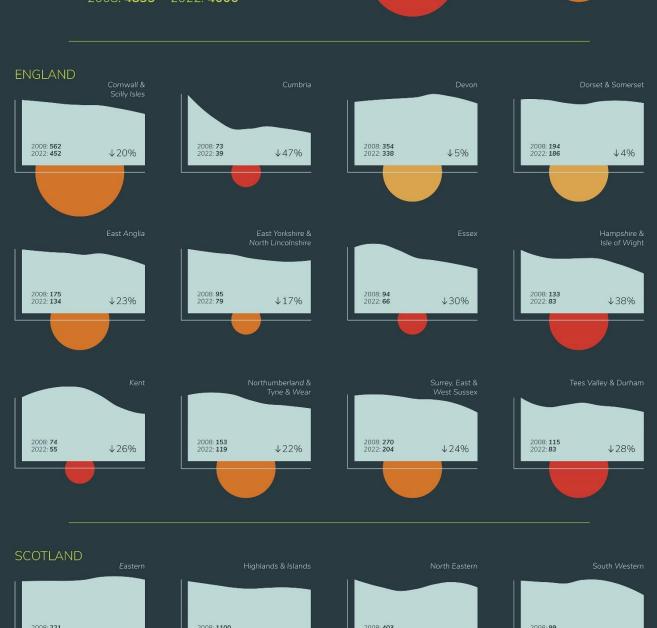
people who DEPEND onfishing

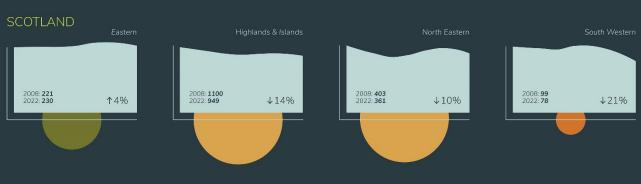
CAN MAINTAIN their LIVELIHOODS









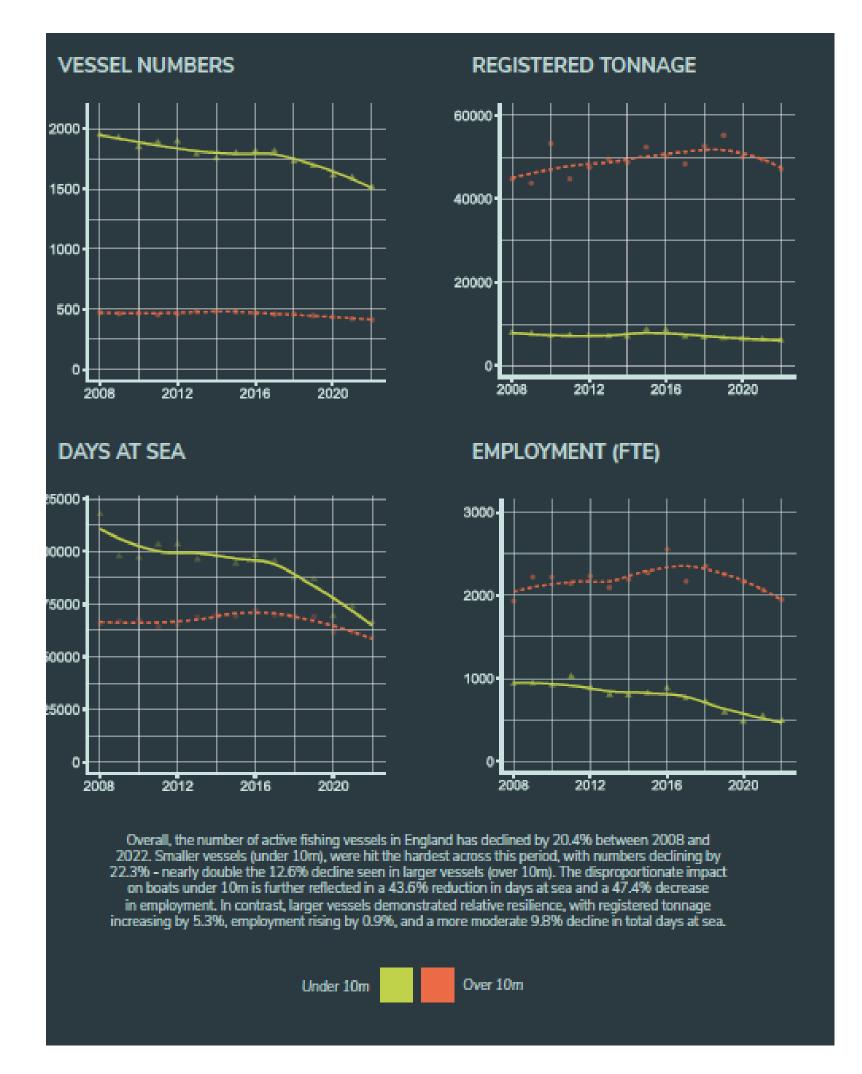


What is the nature of the decline in the fishing fleet?

Sector disparity in England with under 10m sector being hard hit

Between 2008-2022 (England data)

- Overall decline in active fishing vessels 20.4%
- Under 10m boats declined by 22.3% compared with 12.6% decline in over 10m vessels
- 30% of under 10m boats land their catch in rural areas relative to 13% over 10m vessels, indicates the fleet decline may hit rural areas harder



The public values our fleet

 Social values research in fishing towns of Cromer, Whitby and North Shields.

(Newcastle University, AIFCA and Natural England)





Autumn 2024: Inshore and small-scale fisheries workshops – addressing decline in the fleet

Consortium of 7 organisations (facilitated by Esmée Fairbairn Foundation funding).

Poole (southern) and Whitby (northern), 120 participants, 55 of which were active fishermen

- 1. Improve understanding of the drivers of decline/ co-create a narrative to support the data
- 2. Drilling down into the regions: fishermen's organisations, IFCAs and MMO RFG team
- 3. Platform for under 10m skippers (not exclusively) to share their experiences of decline
- 4. Discuss **viable** options to mitigate the decline in the fleet (mixed groups: fishermen, eNGOs and regulators)
- 5. Shining a light on livelihood maintenance as a part of sustainable fisheries

























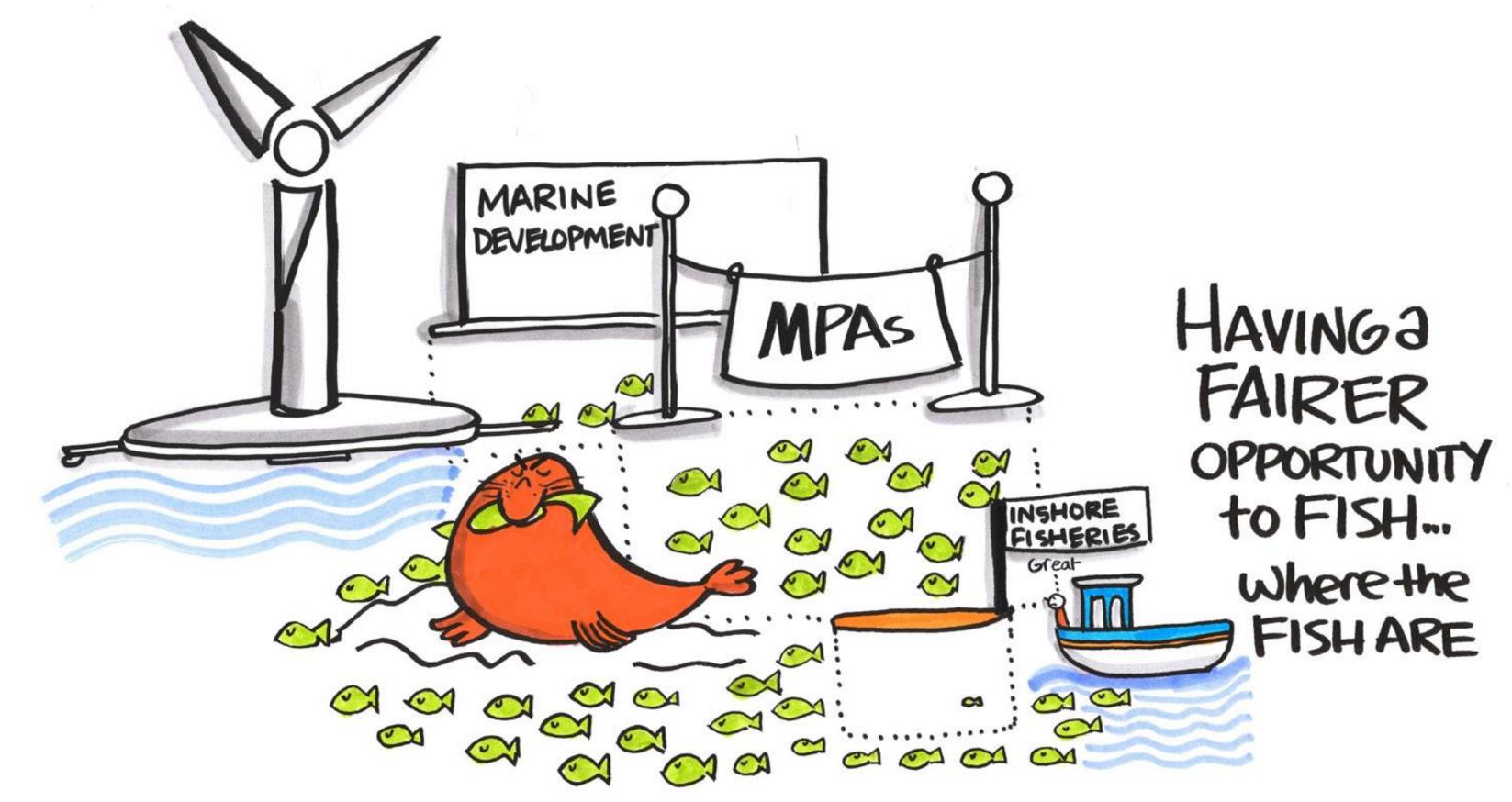
Priority 1. Being heard



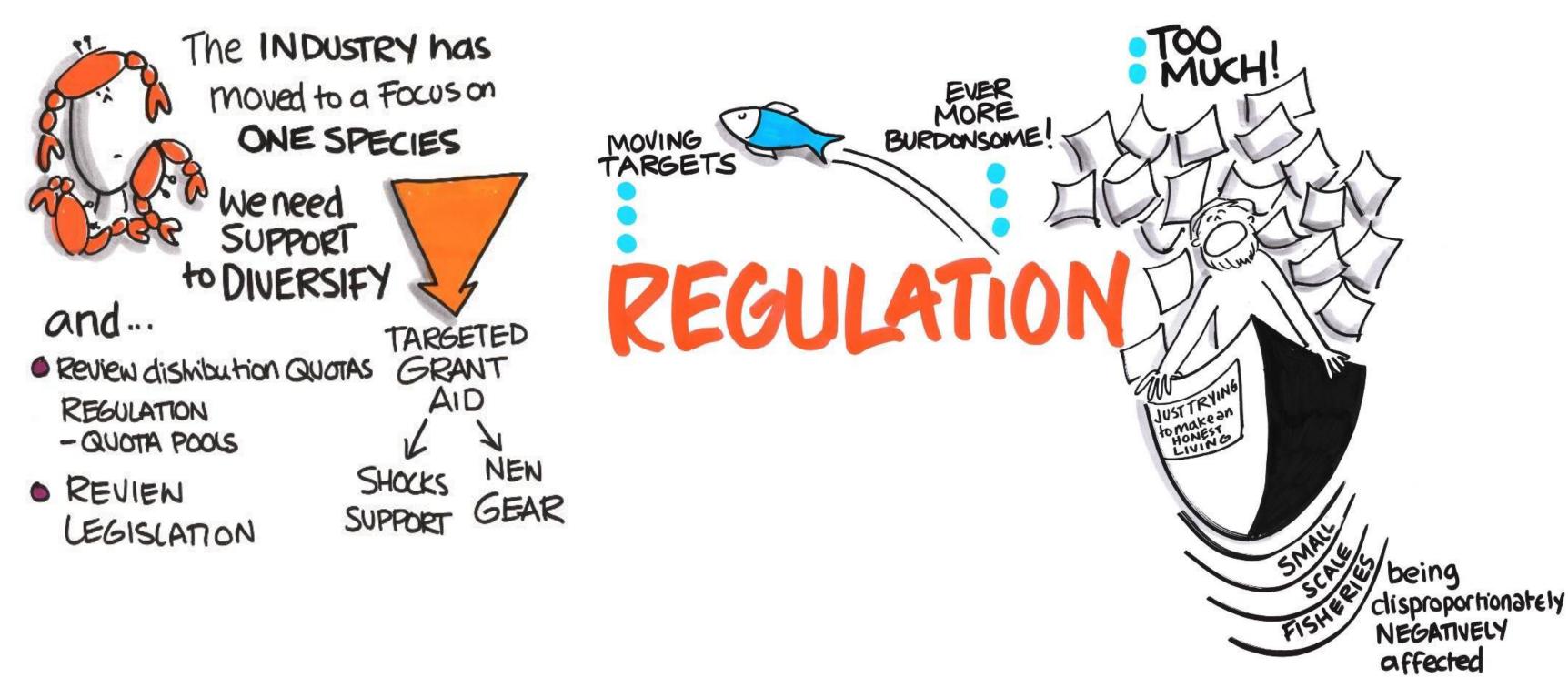


Priority 2: Effective regulation of all sea

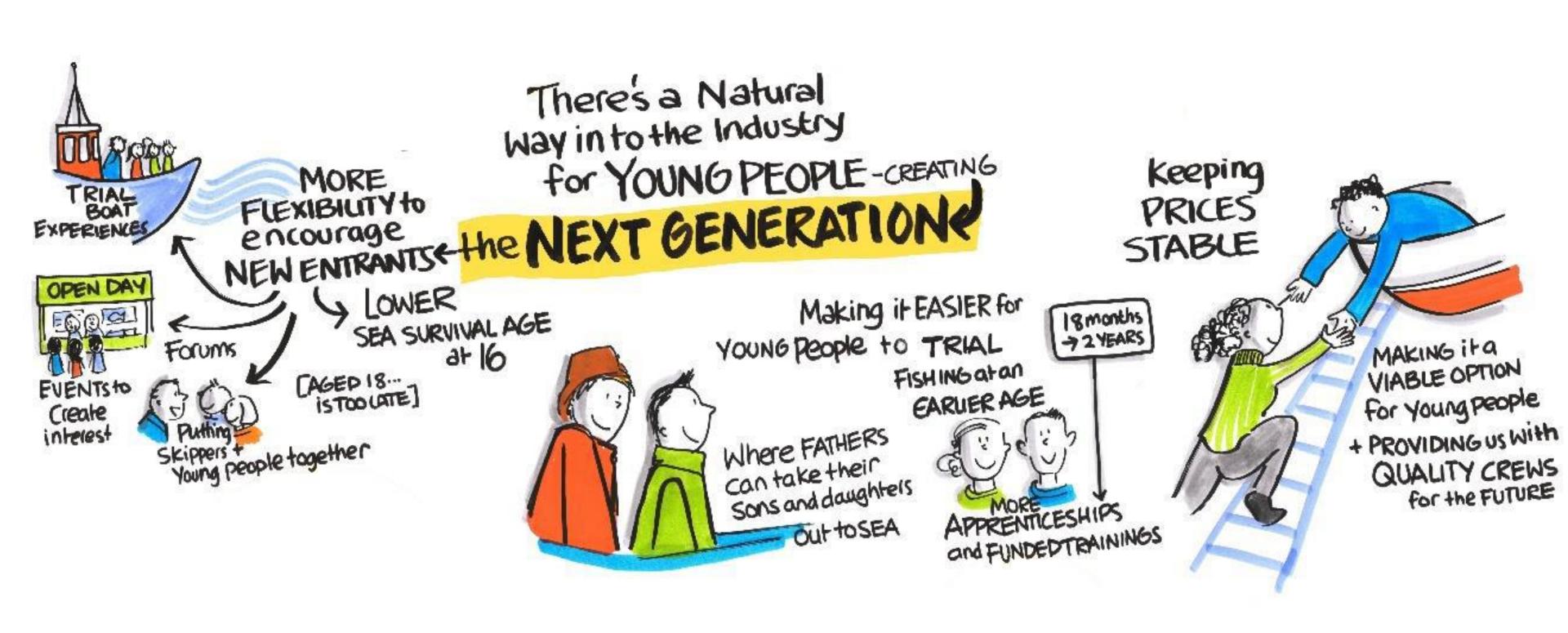
users



Priority 3 MCA – health and safety regulations that match reality of fishers Priorities 4/5 Diversification and grants access



Priority 6 – Recruitment into fishing



Priority 7 – Greater recognition



Pride in the seas II – The English coast





How will future fishing be balanced with restoration efforts & space for renewable energy?

- Value flows. We can and do have well managed inshore fisheries, but the value of this management is lost without effective management across the range of the stocks we manage. Let this not be a race to the bottom.
 - Where do coastal fishers fit into restoration?
- Consider social economic and environment impacts of decisions (or a lack thereof!). Stimulating a greater focus on 'stability of the fleet' and fishers' lives including in FMPs. Balanced sustainable fisheries management 'protected stocks, respect to habitat, maintenance of livelihoods' (MSC 2024).
- Our inshore fleet is particularly vulnerable, disparate, remote and poorly engaged.
 The planning and licensing system needs i) local resolution and capacity, ii) the ability to consider in combination effects and iii) iVMS needs to be introduced!







- Parliamentary event in March
- Further coastal engagement in England over the summer, pride of the seas on tour!
- Mini-conference in Autumn 2025, Newcastle University, to identify further opportunities to collaborate with a much wider audience.

For further info. and resources

<u>Coastal fisheries cluster – NICRE</u>

National Innovation Centre for Rural Enterprise (NICRE) Newcastle University





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Session Five Future Fishing

Co-existence of fisheries and offshore wind farms: opportunities, challenges, and perspectives

Claire L. Szostek, Plymouth Marine Laboratory

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Plymouth Marine Laboratory

Research excellence supporting a sustainable ocean

Coexistence of fisheries and offshore wind farms: Opportunities, challenges and perspectives

Dr Claire Szostek, Dr Stephen Watson, Prof. Nicola Beaumont, Dr Neda Trifonova, Prof. Beth Scott

Coastal Futures Conference, 30th January 2025





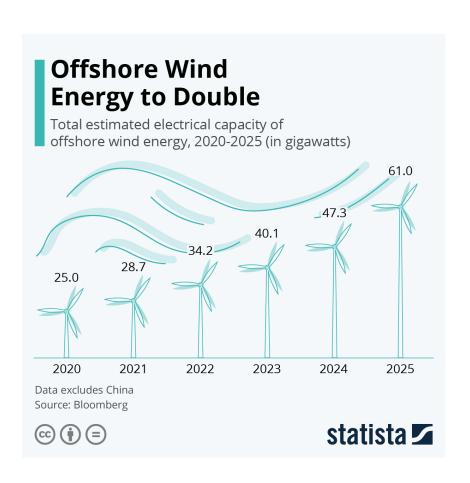


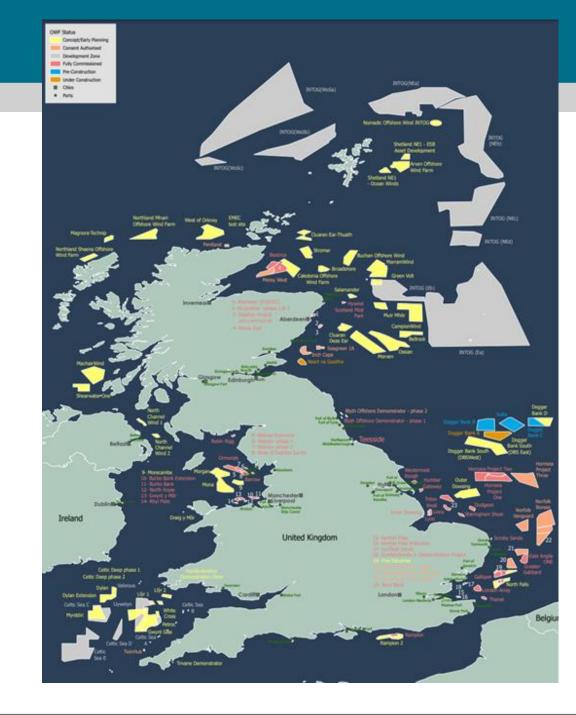




Rapid expansion of offshore wind energy

- Increase in UK, Europe and globally
- Conflicts with other marine users e.g.:
 - shipping
 - commercial fishing
 - aquaculture
 - aggregate extraction
 - marine conservation





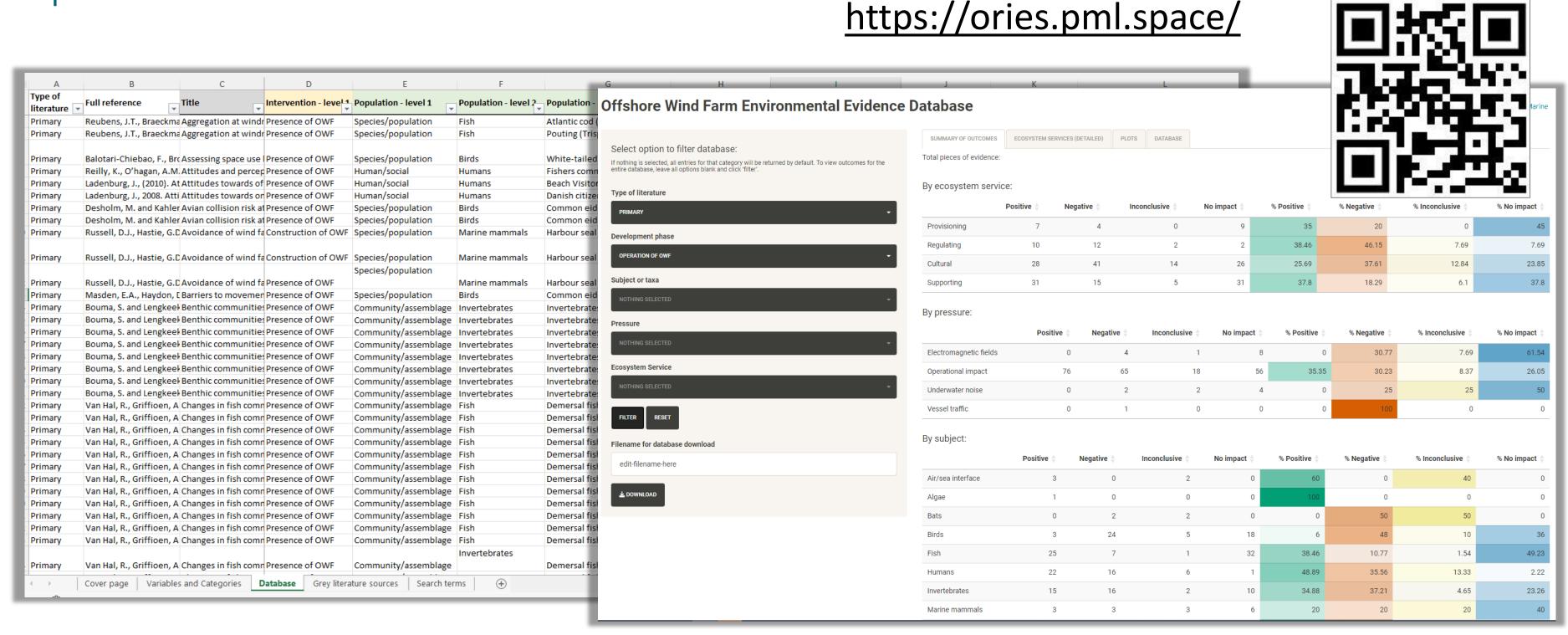


Research excellence supporting a sustainable ocean

ORIES: Offshore Renewable Impacts on Ecosystem Services

Open access evidence tool





Fishing industry survey

- > Poor understanding of socio-economic implications OWF/fishing
- > Survey to gauge experiences/responses to present & future wind farms



Target audience

- Commercial fishermen, or recently retired, industry representatives
- Fishing in UK waters
- All gear types/target species

Respondents

- Vessel length 5-50m
- 26 target species
- 11 gear types (mobile & static)
- UK, Ireland, Isle of Man, Netherlands









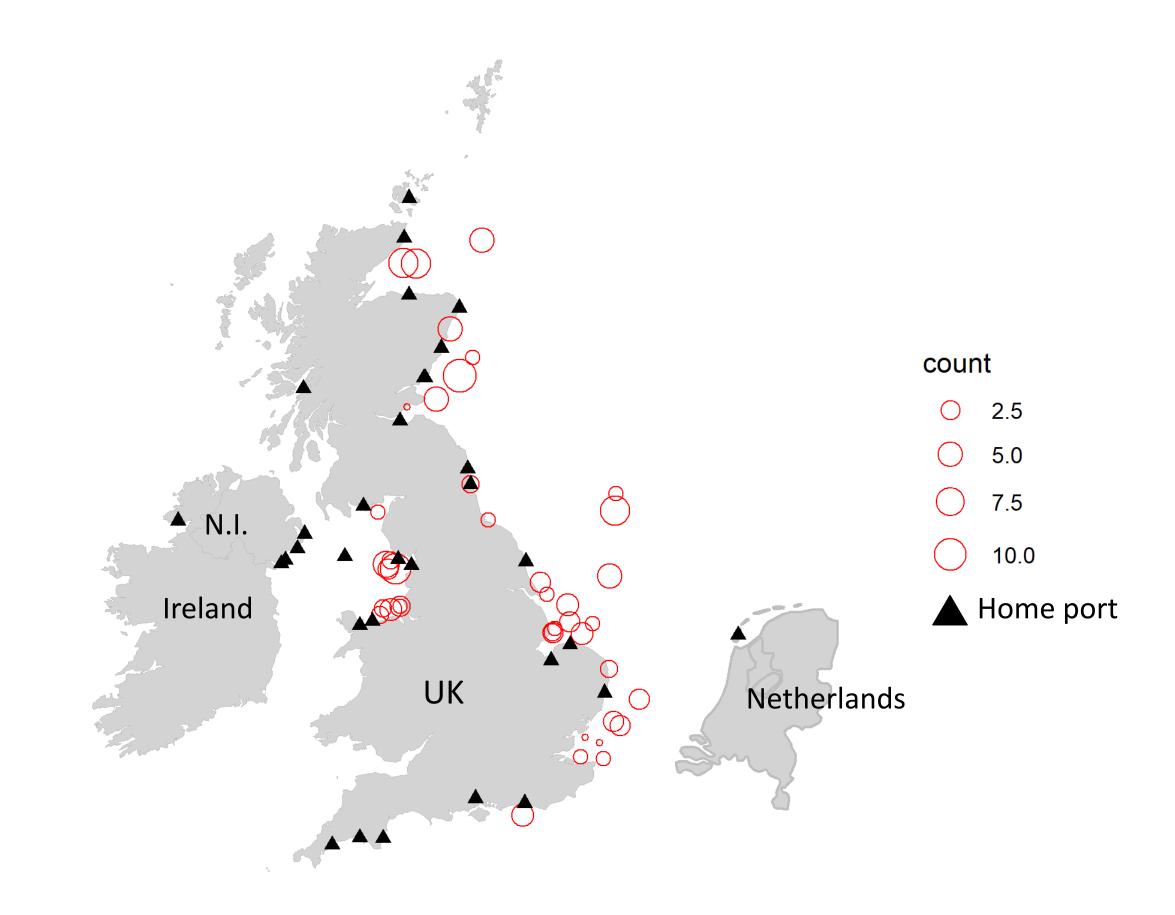




Preprint: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5047823

Wind farms reported as impacting commercial fishing (operational or under construction)

No correlation between date operational, or capacity (MW), of wind farm and number of votes



Source: Fishing News

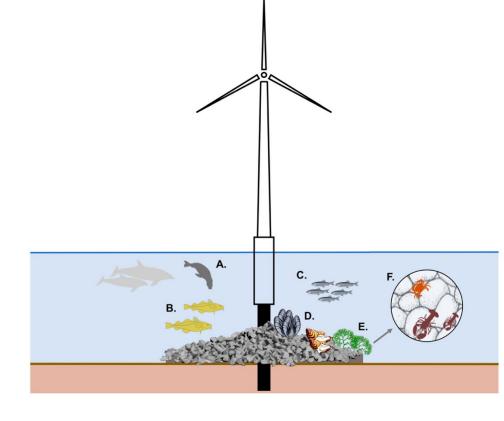
Impacts and responses

- Displacement (35/52), leading to knock-on impacts, including:
 - -Spatial conflict (32/52)
 - -Impacts on catches & profitability (35/52)
 - -Impacts on safety (39/52)
 - -Travel further to fish (38/52)
- Varied experiences around **compensation** inadequacies, inequity, lack of transparency, intimidation and lack of industry standard/framework
- All respondents expected to be impacted by future OW developments



Potential benefits to the fishing industry

- ✓ Short-term improvement in fishing
- ✓ Lobster fishing around turbines
- Rock armour and cable protection designed to encourage biodiversity
- Compensation
- ✓ Community benefit scheme (although not direct benefit to fishermen)
- ✓ Potential employment opportunities
- ✓ Supply of conspicuous pot buoys



Glarou et al. (2020) J. Mar. Sci. Eng., 8(5), 332

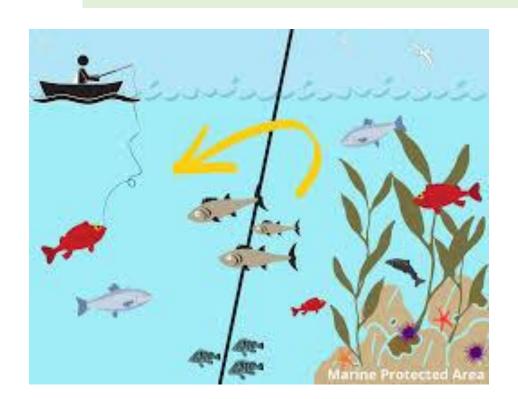


Image credit: www.westofmorecambe.com

Potential ecological impacts cited

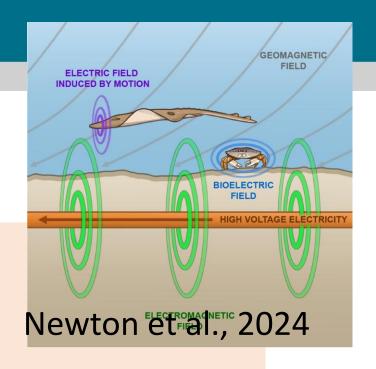
Positive

- MPA effects
- Possible spillover effects



Negative

- Habitat disturbance
- Disruption during spawning periods
- Impacts of electromagnetic fields
- Pile-driving impacts
- Influence on larval transport
- Lack of species-specific data



Research excellence supporting a sustainable ocean

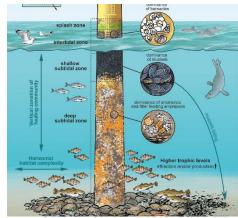
Interview themes

Compensation











ElAs Wellbeing

Consultations

Licensing

Planning

Coexistence

Benefits

Cables

Solutions

Ecological impacts

Displacement

Solutions proposed by fishermen

Wind farm design





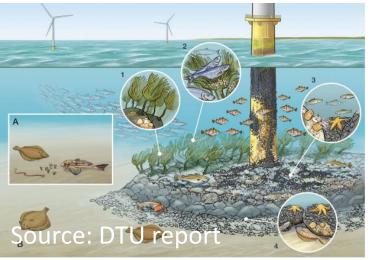






Ecological







Policy recommendations

- 1. Defined legal framework for interactions between OWF and fishing
- 2. Regional working groups
- 3. Co-design of turbine and cable layout
- 4. Statutory consultee status for fishermen
- 5. Regulation, enforcement and monitoring of cable burial depth

- 6. Regulation of Electro-magnetic fields
- 7. Economic and ecological assessments prior to leasing
- 8. Mechanism for reporting and resolution of safety issues
- 9. Regulation of speed limits for vessels passing fishing gear
- 10. Regulation for timing of pile-driving and seismic surveys



Research excellence supporting a sustainable ocean

How can fisheries & OWF coexist?

- Impacts will increase
- Affects all fleet sectors and vessels
- Displacement ripple effects

- Overview of concerns
- marine space

- Guidelines translated to legal frameworks
- Increase collaborative working/solutions







- Multiple trade-offs in
- pml.ac.uk/news/uk-fishing-community-shares-its-views-on-offshore/ fishingnews.co.uk/features/fishing-in-a-renewable-future/





Coastal Futures Conference 2025

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Session Five Panel Debate

Delivered by OCF

Futures Fishing

How will future fishing be balanced with restoration efforts & space for renewable energy?

Chair: Daniel Owen, Fenners Chambers

Mike Cohen, CEO, National Federation of Fishermen's Organisations Joe Richards, Blue Marine Foundation Alistair Bally Philp, Scottish Creel Fishermen's Federation Rob Clark, CEO, Association of Inshore Fisheries and Conservation

Authorities

Claire L. Szostek, Plymouth Marine Laboratory Ashley Mullenger, Independent Small Scale Fisherman





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Session Five Posters

Sunley Room

3. William Ross Hunter: Mapping seabed carbon storage and fishing pressure to support Northern Ireland's Blue Carbon Action Plan

10. Dan Cutler: Managing Fishing in England's Offshore Marine Protected Areas





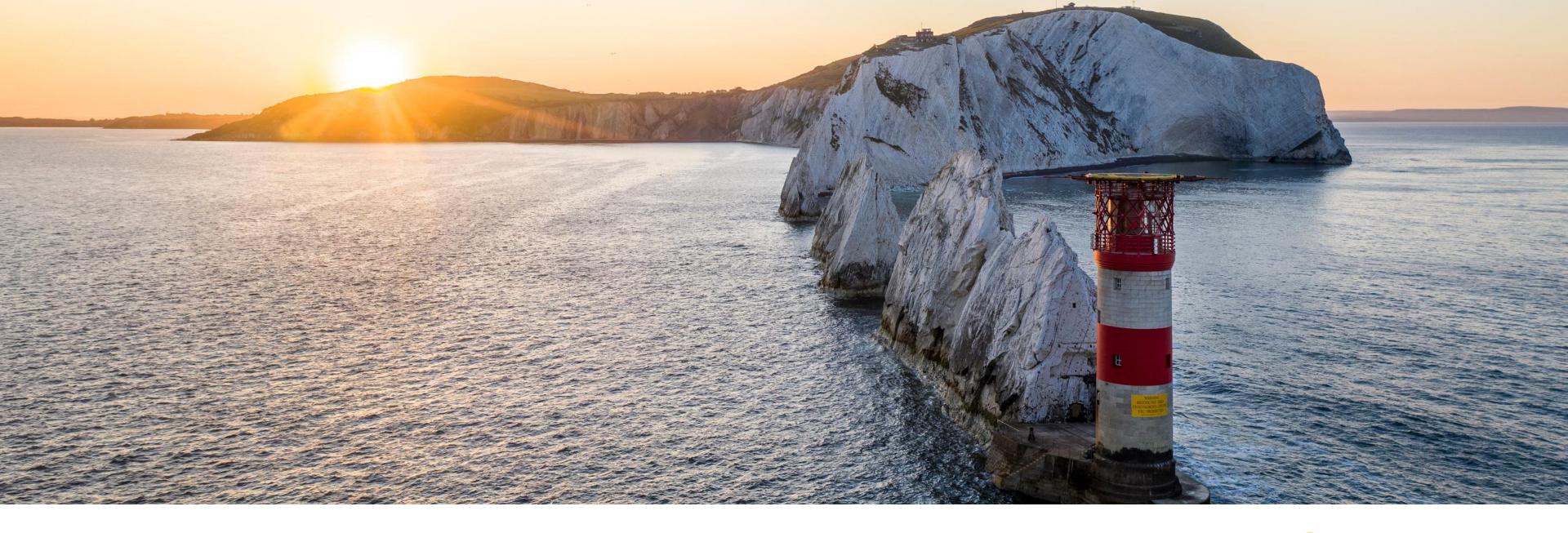


Session Six Posters

Sunley Room

8. Will Manning: Habitat Compensation and Restoration Programme (HCRP): 20 Years of Managed Realignments and Counting

20. Gemma Smith: The Interconnectedness of Marine Management Challenges and the Effectiveness of Social-Ecological System Management Practices



Refreshments 14:00 - 15:00

29 & 30 January 2025



Coastal **Futures** 2025

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