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

LOW IMPACT FISHERS OF EUROPE

What is a Small Scale Fisher ?



 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 Why is it so important to protect Small Scale and Artisan Fishers? Efficiency of the Under 10m Inshore Fleet

Landings 5%

Value

All Jobs

* 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!



A lack of spatial management restricts the use of low impact 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



LOW IMPACT FISHERS OF EUROPE



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?





SUPPORT SMALL SCALE FISHERS



Industrial fishing fleets 10% of global fisheries employees 1j0b per 100 tons of fish Small-scale fisheries 90% of global fisheries employees 40 jobs per 100 tons of fish tititi tititi tititi SSF generate more jobs and revenue per kg of fish

	LARGE SCALE	SMALL SCALE
Number of fishermen employed	Î AROUND 500,000	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	\$ \$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$\$	s \$ 250-2,500
Fishermen employed for each \$ 1 million Invested in fishing vessels	i 5-30	500-4,000
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



MSFD Good environmental status

We currently fail of 7 out of the 11 indicators for GES



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!