



FMIG 17/04/24

Selectivity - Approaches & Technologies
The importance of having fishers at the heart of Precision Fishing.

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Precision Fishing?

Precision Fishing enables economically and environmentally healthy fisheries

\$53bn
profits¹

\$11bn
cost savings²

9.1m tons
species saved
per year³



Fishers definition - Catch what you need to catch, avoiding everything else and using the least amount of resources.



Revenue increase



Fuel costs and CO² decrease



Sorting time decrease



Avoidance of fines



Retain fishing rights



Simple regulatory compliance

Precision Fishing

OBSERVE

CatchCam

MEASURE

Enki

RESPOND

Pisces

Enhanced Biodiversity

Sustainable Blue Economy



Selective fishing – there is a lot happening

- UK Gear Forum
- Fishing Gear database
- Gov funded Project (FIPS etc.)
- Northern Ireland Gears
- International (ICES etc.)



But change is difficult

- Costs
- Knowledge / Awareness
- Not a 1 size fits all
- Incentives



Approach is critical

- We must work hand in hand with the fishers
- Use the right tools
- Communicate better
- Clear the way for adoption



Approach is critical

<https://www.youtube.com/watch?v=BexuUzxq-RM&t=5s>



Precision Fishing tools

- If you can't measure it you can't manage it!

SeaSensor



CatchCam



Seeing is knowing

https://www.youtube.com/watch?v=N_nJ4Somd-o



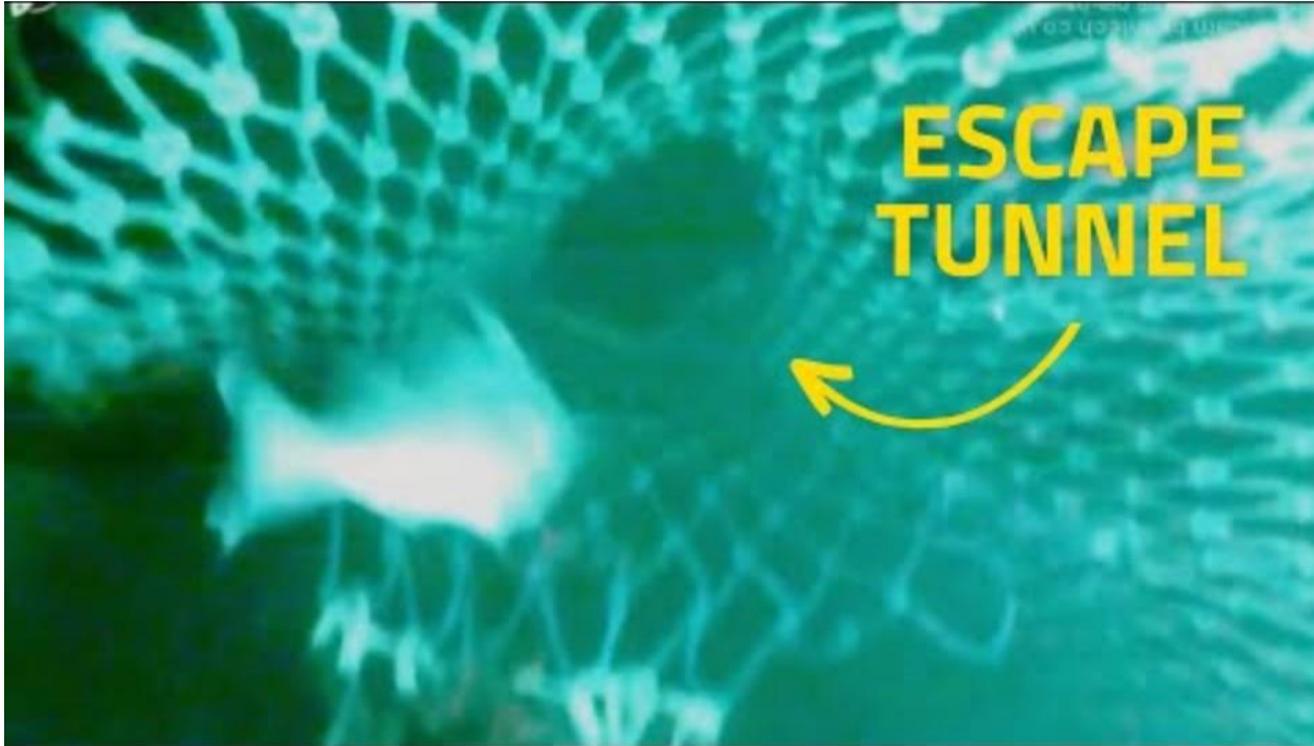
Seeing is knowing

<https://www.youtube.com/watch?v=ieYJtYVIgpl>



Seeing is knowing

<https://www.youtube.com/watch?v=u9W9esfQvJQ&t=1s>



Precision Fishing incentives

- Operational efficiency
- Ecological efficiency

<https://www.youtube.com/watch?v=O4nAnfH0zzs>



Precision Fishing incentives

<https://www.youtube.com/watch?v=KzU7dWkOz2k&t=1s>

- Operational efficiency
- Ecological efficiency
- Present the facts



Future work Priorities

- Measuring the impacts of fishing gears & developing / trialling mitigation measures
- Selectivity & Fish behaviour
- Catch welfare and quality





Thank you & Questions

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