

Clean Catch: Reflections Workshop 9 May 2024



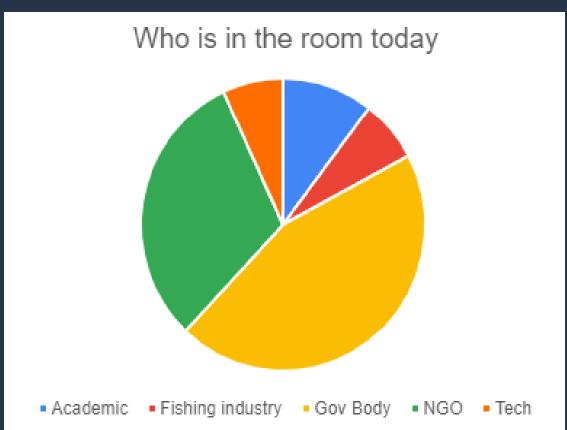


Centre for Environment Fisheries & Aquaculture Science









Welcome

Objectives for today:

- Reflect on Clean Catch
- Co-create building blocks for an effective Clean Catch expansion

Rules of engagement:

- Provide constructive feedback with a solutions focus
- Create a safe space to share different perspectives
- Free Prior Informed Consent (FPIC)

Housekeeping:

- Notetakers and anonymity
- MWC on hand throughout the day



Agenda

- 11.00am: Welcome and housekeeping
- 11.10am: The bigger bycatch picture
- 11.25am: Introducing the Clean Catch Expansion
- 11.40pm: Clean Catch to date Reflections
- 12.30 13.15: Lunch
- 13.15: Looking forwards the structure and function of Clean Catch
- 13.30: Interactive carousel
- 14.50 15.00: Short coffee break
- 15.30: Closing remarks
- 15.40: Close



The Bigger Bycatch Picture

Jonny Peters - Deputy Head of Quota Policy and Negotiations Division

(Note: this presentation was given at the inperson workshop by Mike Dowell, Chief Negotiator for UK-EU fisheries negotiations at Defra)

Policy context

Overall aim:

- The principal requirement for the Clean Catch programme will be to deliver an initiative which helps meet the Government's ambitions that incidental catches of sensitive marine species are minimised, and where possible eliminated, as set out in the ecosystem objective of the Fisheries Act 2020.
- The Clean Catch programme will form a significant part of the strategic UK bycatch programme of work. Delivering pilot studies and trials, working closely with UK stakeholders to develop the evidence and knowledge underpinning work on bycatch.









Marine Wildlife Bycatch Mitigation Initiative (BMI)



The government set out its ambitions in the BMI

This includes commitments to:

- 1) Increase and diversify bycatch monitoring.
- 2) Develop and mitigation measures.









Marine Wildlife Bycatch Mitigation Initiative (BMI)

The ambition of the Clean Catch programme will be to support delivery of the BMI objective:

- 1) Improve our understanding of bycatch and entanglement of sensitive marine species through monitoring and scientific research.
- 2) Identify "hotspot" or high-risk areas, gear types and/or fisheries for bycatch and entanglement in the UK in which to focus monitoring and mitigation.
- 3) Develop, adopt, and implement effective measures to minimise and, where possible, eliminate bycatch and entanglement of sensitive marine species.
- 4) Identify and adopt effective incentives for fisheries to implement bycatch and entanglement mitigation measures.
- 5) Work with the international community to share best practice and lessons learned to contribute to the understanding, reduction and elimination of bycatch and entanglement globally.











Clean Catch aims and objectives

- 1) Supporting the implementation of the UK Marine Wildlife Bycatch Mitigation Initiative (BMI).
- 2) Expanding the geographical and species scope from the existing Clean Catch programme.
- 3) Implementing the recommendations from the Hauling up Solutions 2 workshop. Recommendations included:
 - Identifying key areas and fisheries at risk of sensitive species bycatch through effective monitoring (existing and new)
 - Delivering trials on modified fishing gear, or modified fishing practices. Eight options were identified at the workshop that could be explored further to test for practicality, robustness, and effectiveness at reducing bycatch.
 - Developing best practice guides in collaboration with the fishing industry that could include advice on actions that could be taken to monitor and reduce bycatch
 - Building and strengthening collaboration around local trials of alternative gears or other methods to reduce bycatch, including clearly outlining roles and responsibility and feeding back results from trials.
- 4) All of the above are to be conducted in a collaborative way with close involvement of stakeholders including the fishing industry, scientists and NGOs. Implementation of a strong governance framework at local and national levels to oversee the programme to ensure stakeholders have a formal role in steering it.

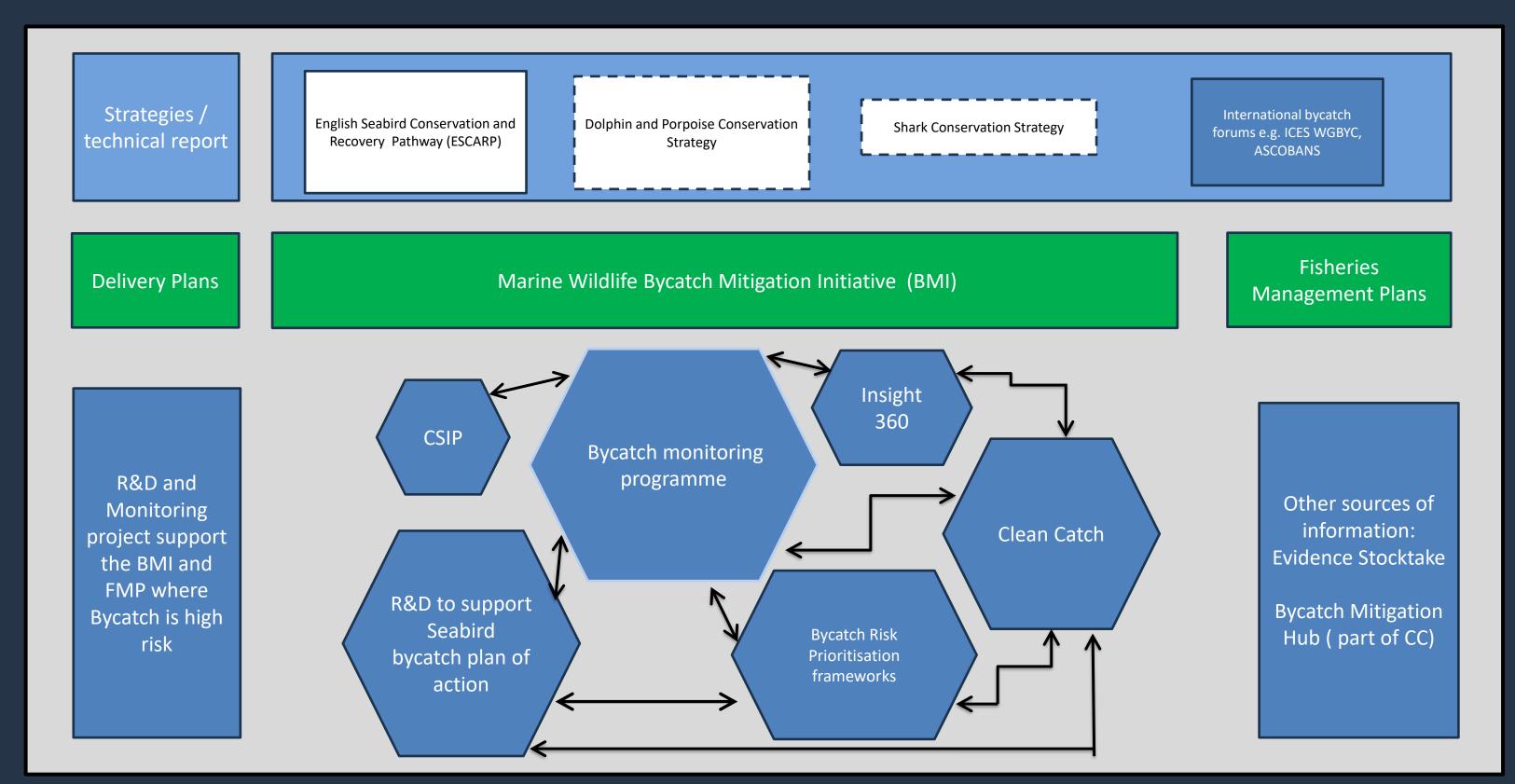








Defra's Bycatch Programme of Work





Introducing...

The Clean Catch Expansion

Alasdair Davies, Arribaba



Arribada Initiative

- A UK conservation technology research and development organisation focused on open source solutions.
- We co-develop conservation technologies with partners to solve conservation challenges.

The Clean Catch programme



A collaborative programme key to the UK Government's ambitions to help minimise and – where possible – eliminate bycatch of sensitive marine species, as set out under the ecosystem objective of the Fisheries Act.

• Through co-designed research, dialogue and knowledge exchange, Clean Catch aims to contribute to improving the monitoring and mitigation of bycatch of marine mammals, seabirds, sharks, skates and rays

Clean Catch Expansion - Consortium Partners

| Person or organisation | Lead for: |
|---|----------------------------------|
| MMO Consulting | Programme management |
| Mindfully Wired Communications | Communications |
| Arribada Initiative | Research & development |
| Zoological Society of London | Science and fisher co-design |
| Cefas | Mitigation and monitoring trials |
| Strategic oversight and leadership from Defra | |

Project Organogram













MMO Consulting

Project management

Arribada

Research & development ZSL (IoZ)

Science and knowledge transfer

ZSL (C&P)

Equitable co-design Cefas

Mitigation & monitoring trials

Mindfully Wired Communications

Communications

Clean Catch (Expansion)



Objectives & goals for discussion

- Work closely with adjacent initiatives, including Insight360 and the Bycatch Monitoring Programme.
- Enhance inclusion and representation of key people and groups via equitable co-design.
- Expand geographical focus beyond the Southwest.
- Complete a comprehensive bycatch hotspots review.
- Establish new mitigation trials, potentially focusing on other wildlife group(s).
- Support trials of Passive Acoustic Reflectors.
- Understand and overcome barriers to broader fisher engagement

Clean Catch (Expansion)



Objectives & goals for discussion

- Develop novel interdisciplinary approaches to monitor, analyse and assess results of case study monitoring and mitigation trials.
- Deliver bycatch mitigation guides, written with and for the fishing industry.
- Foster national and international knowledge exchange (particularly new EU consortium programme for bycatch 'CIBBRINA')

All Clean Catch work underpinned by strategic engagement and communications

Project Timeline

2024-25

2025-26

2026-27

Reflection workshops

UK bycatch hotspots review

Continuous acoustic monitoring using PODs

Passive Acoustic Reflector (PAR) trials

Bycatch mitigation / pinger trials

Best practice guides developed

Mitigation/monitoring trial begins (new location/taxa/gear)



Interim analysis of trial monitoring data



Tools for bycatch monitoring (self-reporting & REM)

Equitable engagement and co-design with local fishery partners





Clean Catch to date: Reflections

Joanna Murray Cefas

Clean Catch - to date



Funded by Defra since 2019, CCUK set out to work directly with the fishing industry to collect industry-led data on where PETS bycatch occurs and how it can be reduced, and to support the UK's PETS bycatch policy objectives (BMI).



Monitor PETS population and abundance

Passive acoustic monitoring – Can monitoring of underwater sound be used as an effective and reliable method for understanding the presence and distribution of cetaceans in an area of higher bycatch risk?



Monitor PETS bycatch

<u>Self-reporting</u> – What tools are available for industry to self-report, and can they be used to generate reliable data on PETS bycatch?

Remote Electronic Monitoring – Can REM be used to develop protocols for PETS bycatch monitoring, and to validate skipper self-reported data?



Develop PETS bycatch mitigation tools

How do acoustic deterrents perform in reducing bycatch of common dolphins in a southwest net fishery?

Can passive acoustic deterrents that are co-designed by fishers offer an effective cetacean bycatch mitigation?



Monitoring of abundance and distribution



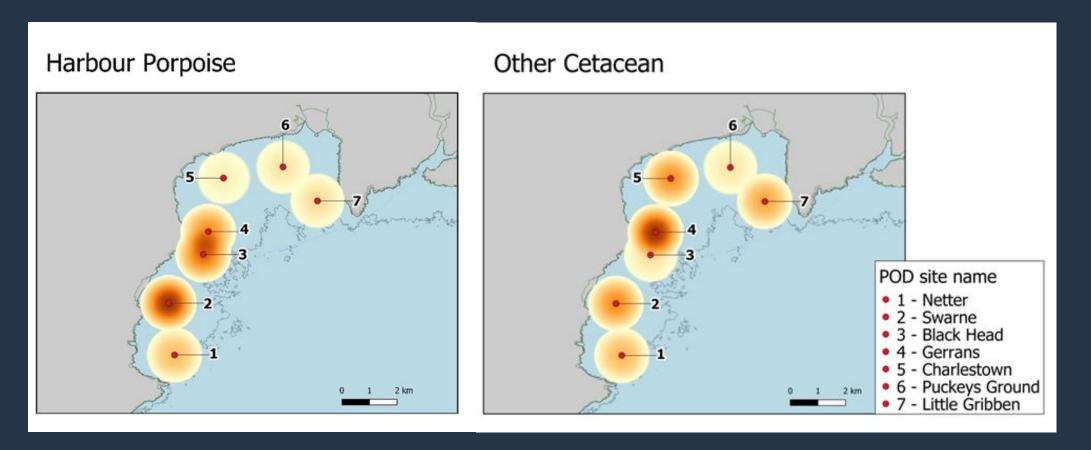
PODs to monitor the presence of cetaceans within an area of known PETS bycatch



Once the quality of the data is understood, overlap between fishing activity and cetacean distribution will be explored.



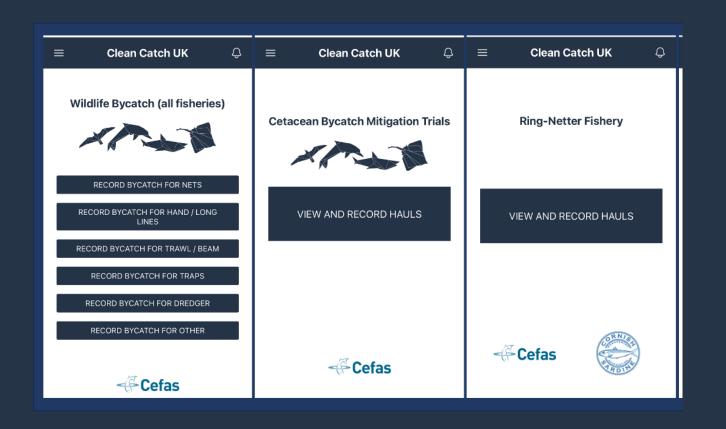
Mooring locations. For each POD deployed showing the 1 km maximum detection range around the device.



Total detection positive hours (DPH) for each animal group over the study period. Darker colours correspond to higher levels of DPH for a given POD

Monitoring of bycatches

Self-reporting: A smartphone app (CCUK app)
has been developed by Cefas, fishers and AST
Marine Sciences Limited to enable the voluntary
reporting of PETS bycatch.



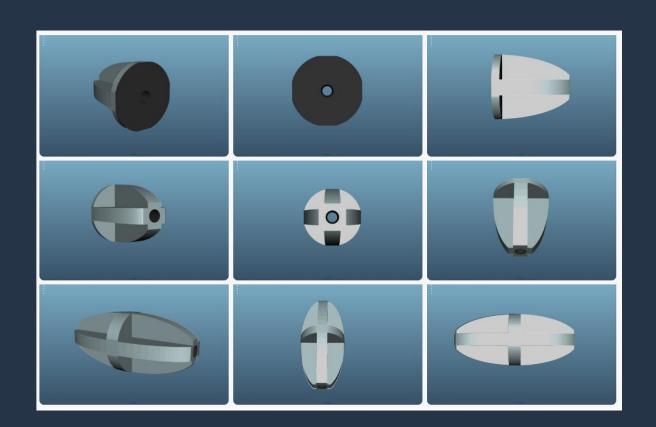


REM: being used to develop protocols for bycatch monitoring, build image libraries (AI), used to validate self-reported data provided by the skippers on the CCUK app (including in the pinger trial).

Mitigation of bycatches

Pingers: Trial paused after last NSG, during "pinger working group" a simplified "paired net" design was proposed and discussed. Planned restart May 2024, extended geographical scope, more skippers, sharing of REM footage with BMP.





Passive Acoustic Reflectors: Arribada
Initiative co-developed with fishermen a low-cost PAR suitable for attachment to fishing gear via a single point attachment.

Practicality and robustness testing planned for 2024.

Reflections



Who was asked and who responded

Survey link sent to 143 recipients (note this includes consortium team/Defra and a portion are those who have not been engaged in Clean Catch previously).

Eight responded to the online survey (4 x NGO, 1 x fishing industry, 1 x government body, 2 x science & research)

Six southwest fishers were engaged in conversations.

Other feedback from NGOs, Government bodies and science/research came in through informal conversations/emails.



Programme scope



Reinventing the wheel.



Suggestions for UK-wide reach and link with international initiatives.

Taxa

Positive for the inclusion of all impacted taxa, with suggestions to focus on seals.

Governance

Strong science is essential, trial locations should be based on bycatch evidence.



Collaboration and inclusion

Governance

- NSG meetings had too many voices, conflicts and repeated discussions.
 Concerns were not heard, and roles were unclear.
- Communication with Cefas had improved and meetings were useful.
- Suggestions to work regionally with local fishers, improve collaboration and for the project to tolerate differences in opinions.

Politics

• Distrust of political motives, needing clear communication of benefits to the fishing industry.



Collaboration and inclusion



Representation

- Lack of key actors with bycatch experience and lacking fisher involvement.
 Independent expert advice not acted upon and some actors feeling excluded.
- Fisher representation and involvement. Array of backgrounds and expertise from government to fishing industry.
- Suggestion to include wider community and present at more events.

Communication

Comms lacking following Hauling Up Solutions, but effective and open discussions.



Trial

- Input from the trials was not taken on board.
- · Positive feedback for the implementation of bycatch mitigations.

Data collection

D

Data

- Critical of app having self-reporting flaws (science/research).
- Positive feedback for the simplicity and efficiency of data collection methods e.g. app and Anchorlab (fishers).



Transparency in communication

Communication

Lacked comms on progress and updates. Suggested quarterly update emails.

Governance

- Lacking transparency of finance and NSG member sign-up.
- · Suggestions to increase transparency and clarity and flag updates through emails.

Scope (links to programme scope)

Aims and objectives were unclear. Uncertainty over the different SW projects.

Website

Positive feedback for the Mitigation Hub Review.



Trial design and execution



Governance

• Lacking regional groups outside SW. Disregard for expert opinion.



Representation

Suggestion to increase fisher recruitment and involvement.



Scope

Suggestions to include voluntary bycatch reporting, compulsory REM, align with wider PET policies.



Trial

- Trials should have recruited/retained more fishers and lacked robust data.
- Disappointment in removing lights; fishers prevented from using pingers.
- Suggestions to focus on effective solutions and bycatch areas.
- Suggestions to consider alternative gears and spatial management.













Thank you

Joanna Murray Joanna.murray@cefas.gov.uk





Clean Catch to date: Your reflections

Breakout group discussions (20mins) Feedback to main group (10mins)



Lunch break

New fishery partner:

Your suggestions please!

Please return promptly for this afternoon's session at 13.15. Thank you.

Criteria for shortlisting candidate new fishery partner

These are **draft** essential and desirable criteria for a new fishery partner(s) in Clean Catch to trial monitoring and mitigation. These should be used to seek and shortlist candidate partners and ultimately select the fishery(ies) we will work with in Project Years 2 and 3 of Clean Catch. Any feedback or suggestions would be really helpful...

Essential criteria

- Has a bycatch issue with marine mammals and/or seabirds and/or elasmobranchs
- Is a fishery with English vessels/port/waters
- There is **appetite from the fishery**, perhaps because for the fishery bycatch poses a risk, or is costly, or a barrier to eco-label/certification, or results in negative PR, or conflicts with their environmental commitments. The fishery demonstrates willingness to be **actively involved** providing access, sharing information and/or committing resources (time, people or money).
- Sufficiently large fishery in terms of the number of fisher/vessels. A larger fishery offers more opportunities to gather meaningful monitoring data and conduct informative mitigation trials.

Do you have feedback on these criteria, or, even better, do you have a suggestion of an appropriate fishery?

Please put your thoughts in the Zoom chat, or email stephen.long@ioz.ac.uk



Welcome back

Afternoon objective:

Shape equitable governance mechanisms

Afternoon agenda:

- 13.15: Looking forwards the structure and function of Clean
 Catch
- 13.30: Interactive carousel
- 14.50 15.00: Short coffee break
- 15.30: Closing remarks
- · 15.40: Close



Looking Forwards: Equitable Governance

Milly Oakley – Clean Catch Programme Manager, MMO Consulting

Equitable Governance Framework



Key Objective:

Establish a new streamlined governance framework to better engage with relevant actors and co-design the programme

Aim: effective fisher-led, science-based Clean Catch project activities including bycatch mitigation trials, best practice guides, knowledge exchange









Equitable project co-design

Tailored outreach to ensure inclusion
Dedicated fisher liaison

Governance framework

Streamlined, effective
Appropriate people/groups
Equitable input & co-design
Agile, transparent decisionmaking

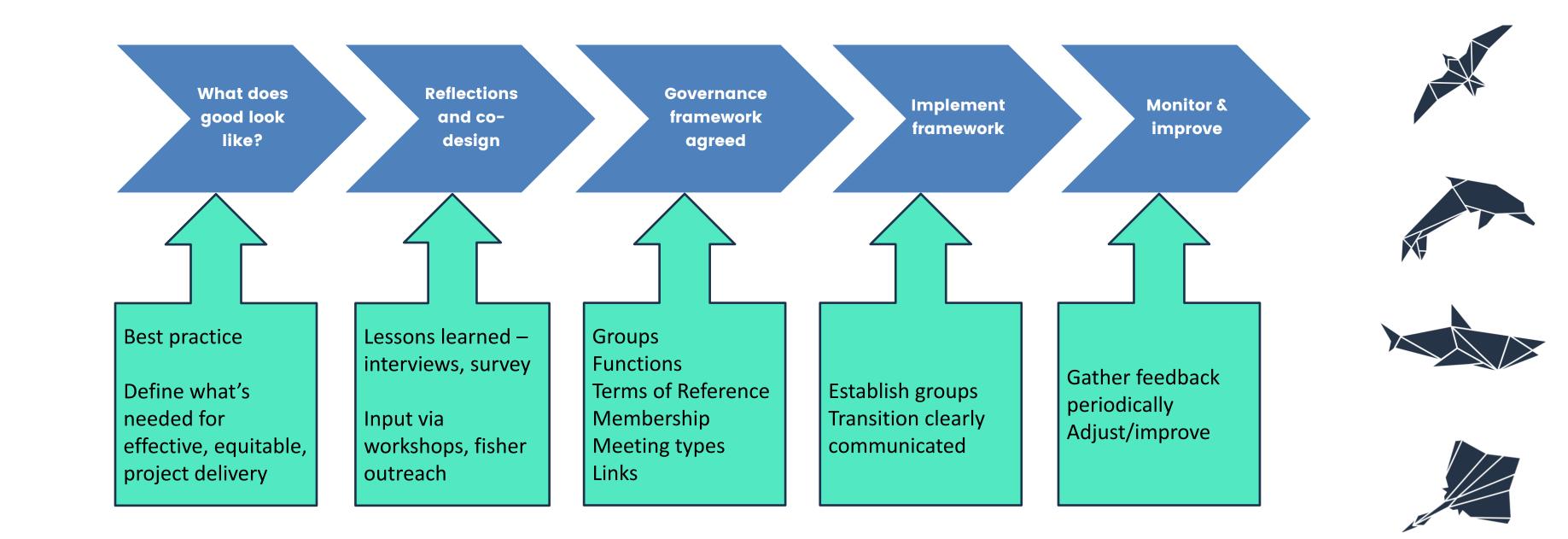
Engagement & Outreach

Comms & Networking

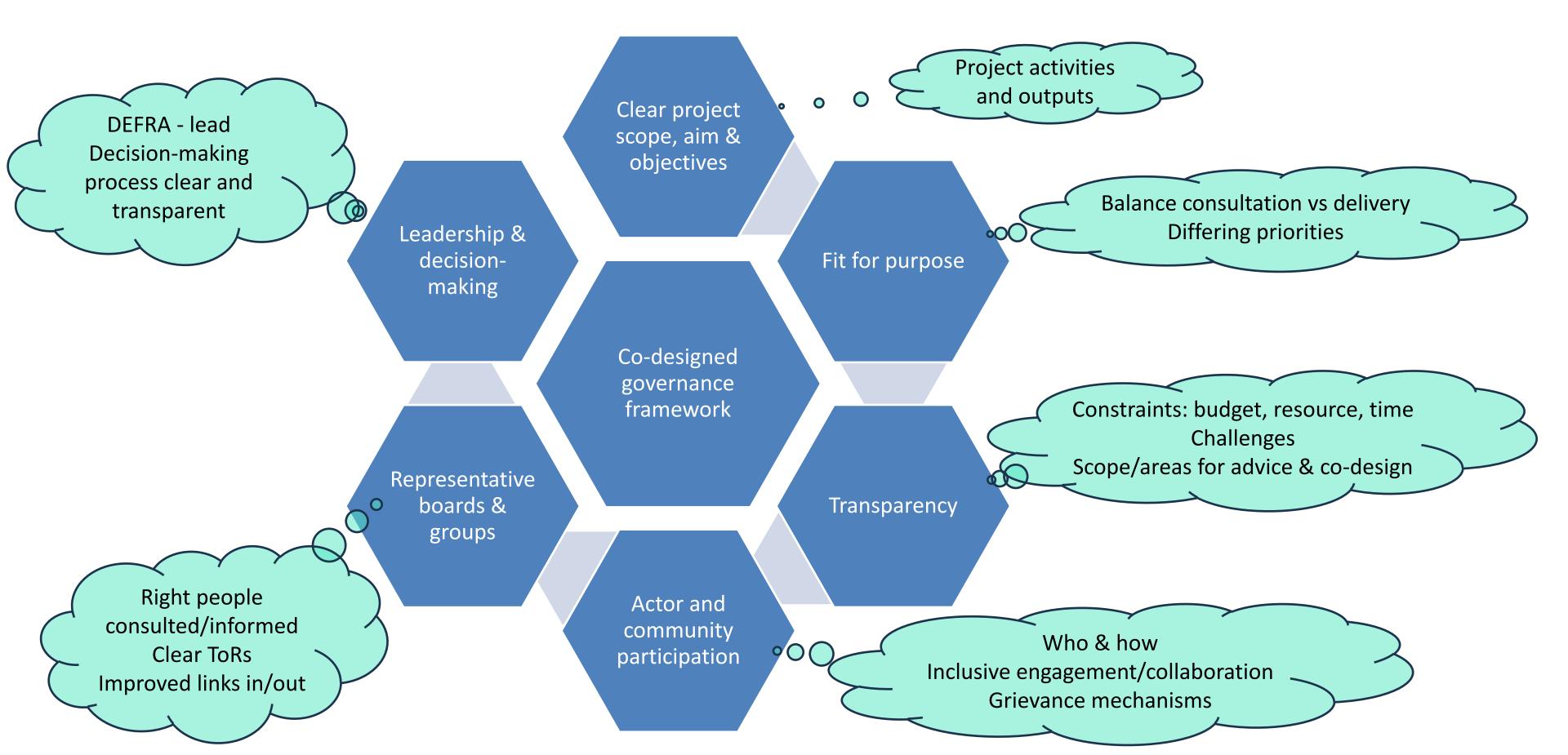
Effective communication & information sharing Forging links with existing groups and networks



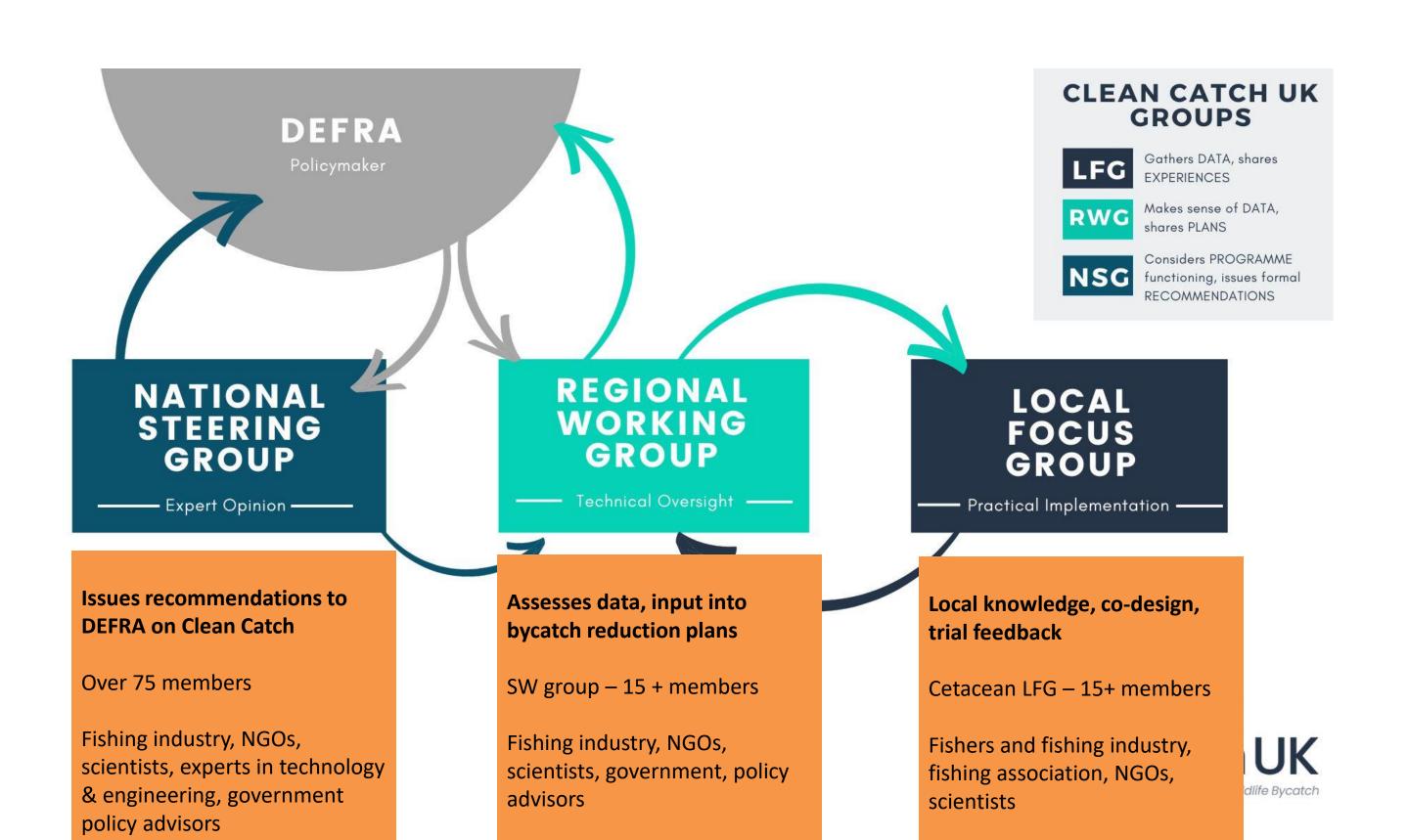
Governance Framework – Design Approach



Best practice – design principles



Governance - Clean Catch to date



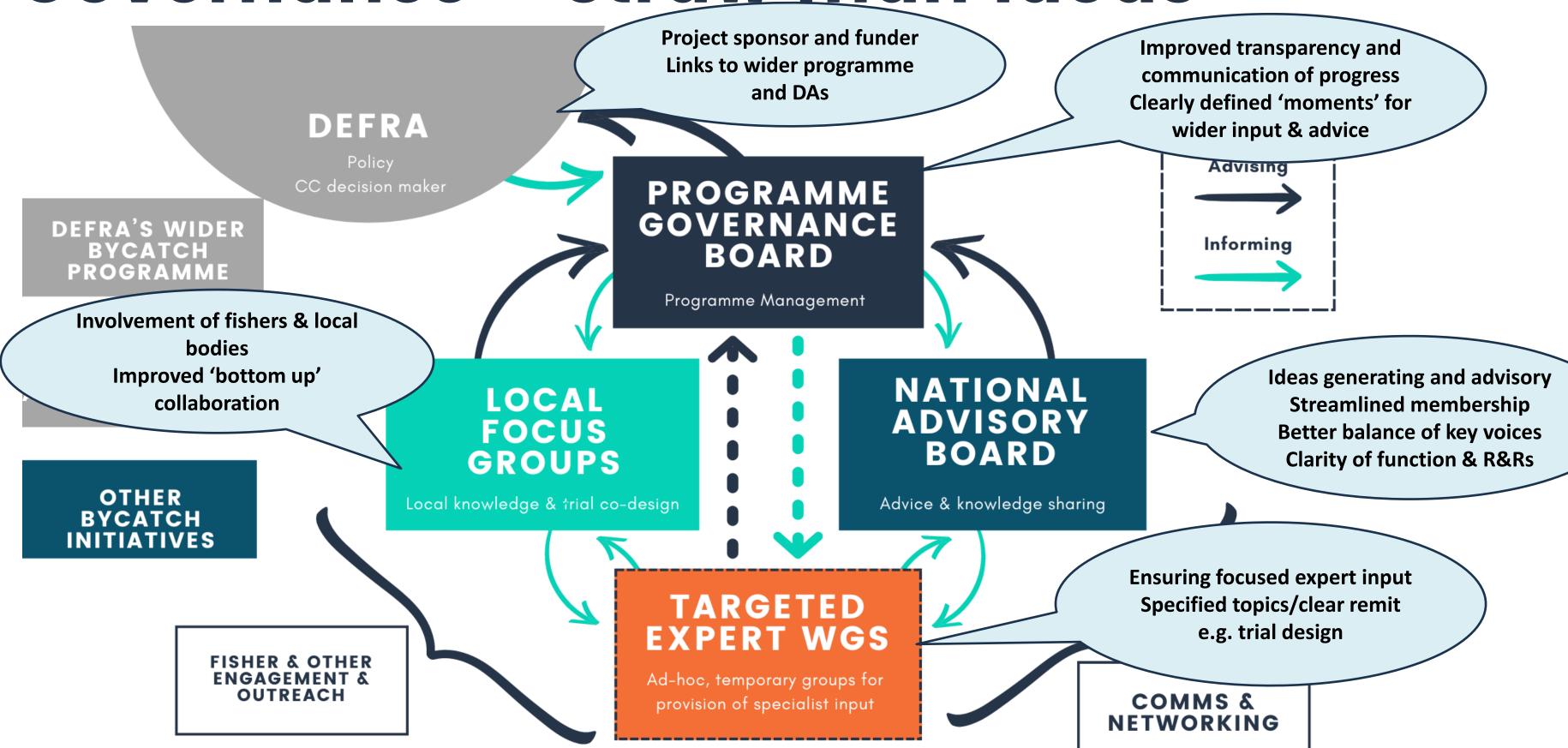








Governance – straw man ideas



Governance – straw man ideas

- Programme Governance Board (delivery team, DEFRA. Observer seats for 2-3 key group reps incl. fishers) programme management & direction. DEFRA is project authority & decision-maker
- National Advisory Board (fishers, fishing industry & producer orgs, NGOs, Scientists, Engineers with relevant expertise) - advisory function, ideas generating, knowledge sharing
- Local focus groups existing SW cetacean & new group for new trial location (fishers and associations, IFCA, local NGO, MMO) – local knowledge, co-design and practical implementation
- Targeted (temporary) expert working groups (membership dictated by remit) expert input and advice

Next steps

- Gathering feedback on straw man & input to co-design
- Finalise governance framework design
- Implement











Equitable Governance - Clean Catch Expansion

Three rotating stations:

- 1) How can all voices be heard?
- 2) Transparency in information flow
- 3) Who makes up the Clean Catch network?

25 mins at each station

14.50: Short coffee break

15.00: Reconvene as a group for feedback



Closing Remarks

Brigid Finlayson Defra



Next steps:

- Thank you
- Was today useful?
 - Slido.com 4148750
- Next steps













Thank you

