

# 55th Annual Conference

Shellfish Association of Great Britain

#SAGB55

# Ropes to Reefs -

## **Harnessing Restorative Aquaculture to Benefit Ecosystems and Fisheries**

**Amy Cartwright -** Applied Marine Ecosystems Research unit, University of Plymouth

Llúcia Mascorda-Cabré, Danni Eager, Clare Embling, Tim Scott, Jake Hebb, Tom Stamp, **Emma Sheehan** 

Shellfish Association of Great Britain 55th Annual Conference. 10th June 2025.





























Grow food and restore habitat

Boost biodiversity

Enhance local fisheries



## The challenge -

food demand, marine degradation, climate change, spatial pressure...













#### **Project Overview**

• June 2023 – March 2025

DEFRA FISP

• Previous 10 years of data, including baseline study































Danni Bridger: 2015 - 2019





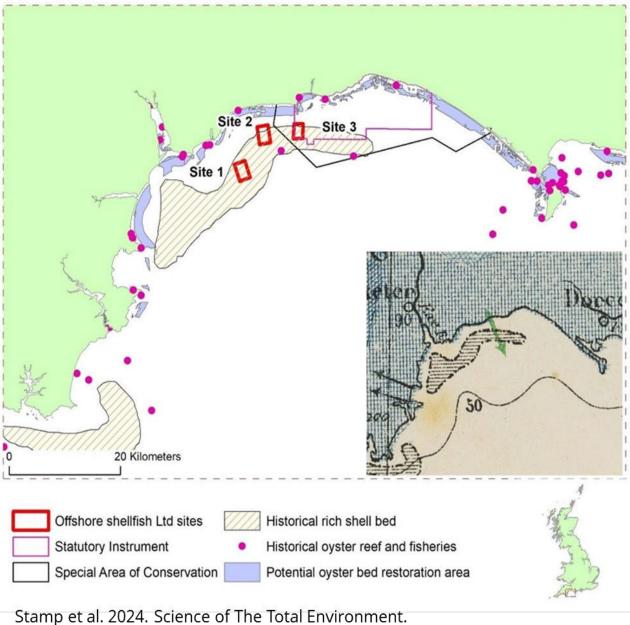
Llúcia Mascorda-Cabré: 2019 - 2023





Jake Liam Hebb: 2023 - 2027



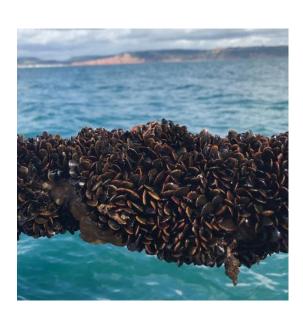


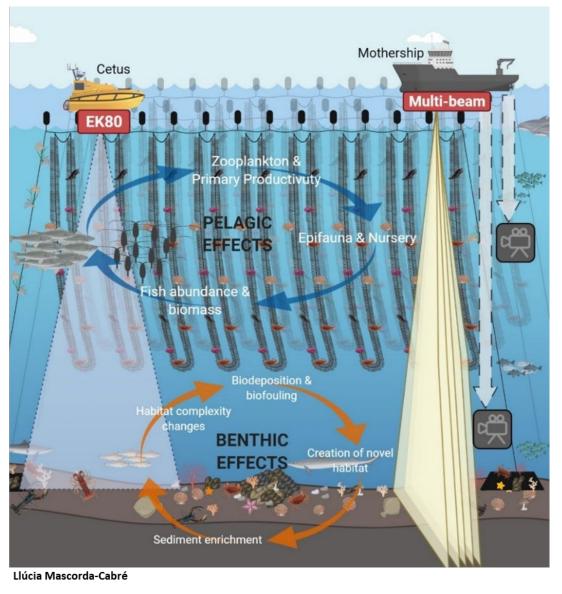
### **Advancing Our Knowledge**

- Building on a decade of long-term monitoring to explore new ecological and fisheries outcomes
- Essential Fish Habitat (EFH)
- Interaction with Lyme Bay MPA Connectivity
- Ecosystem services
- Spillover effect



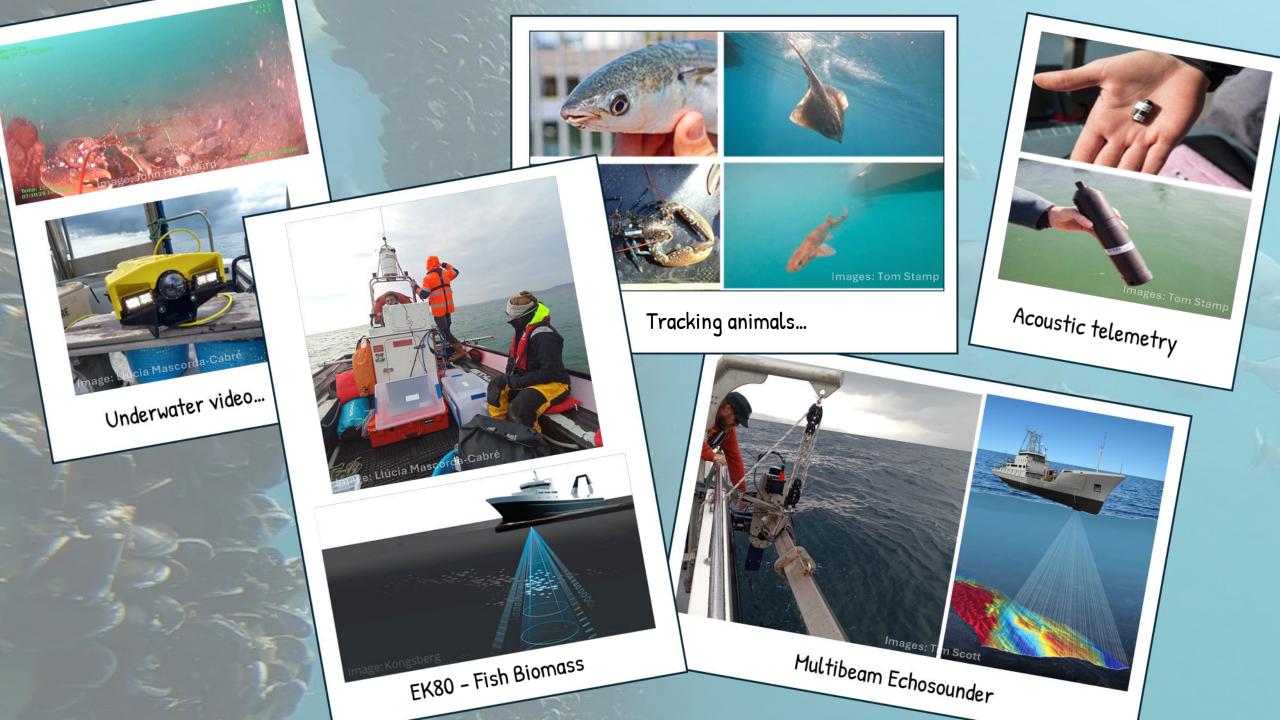
**Images: John Holmyard** 

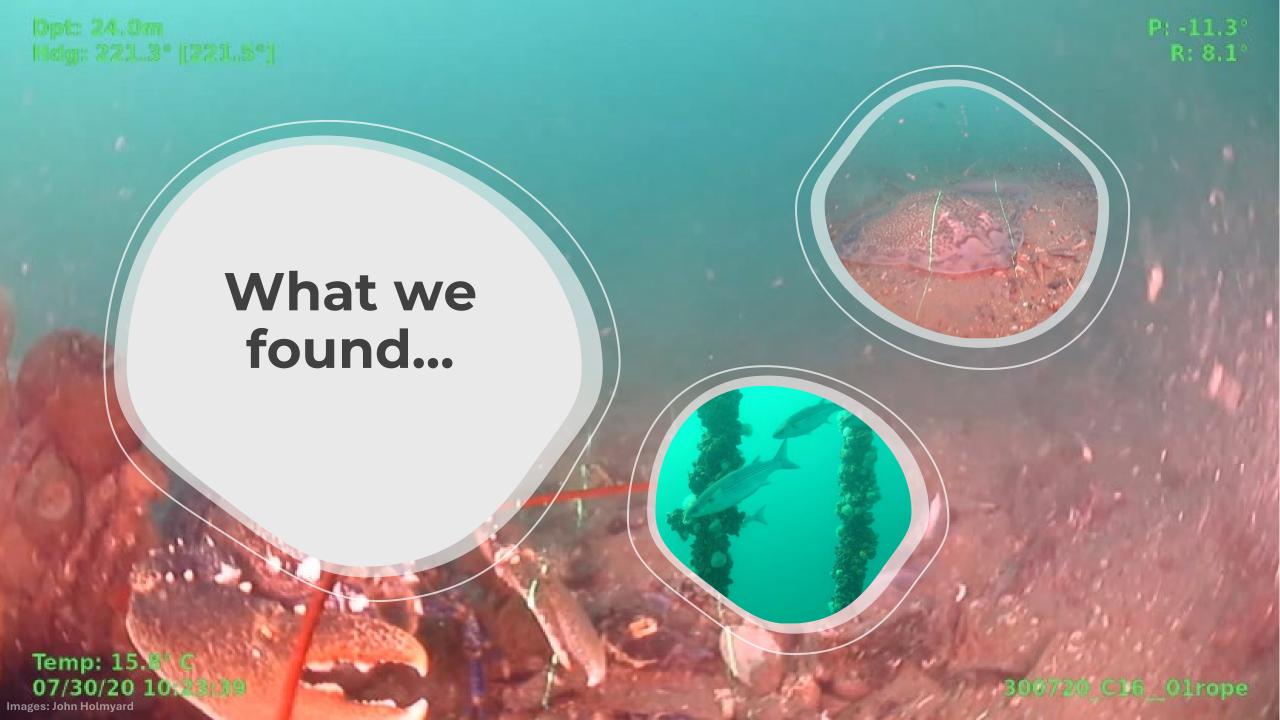






















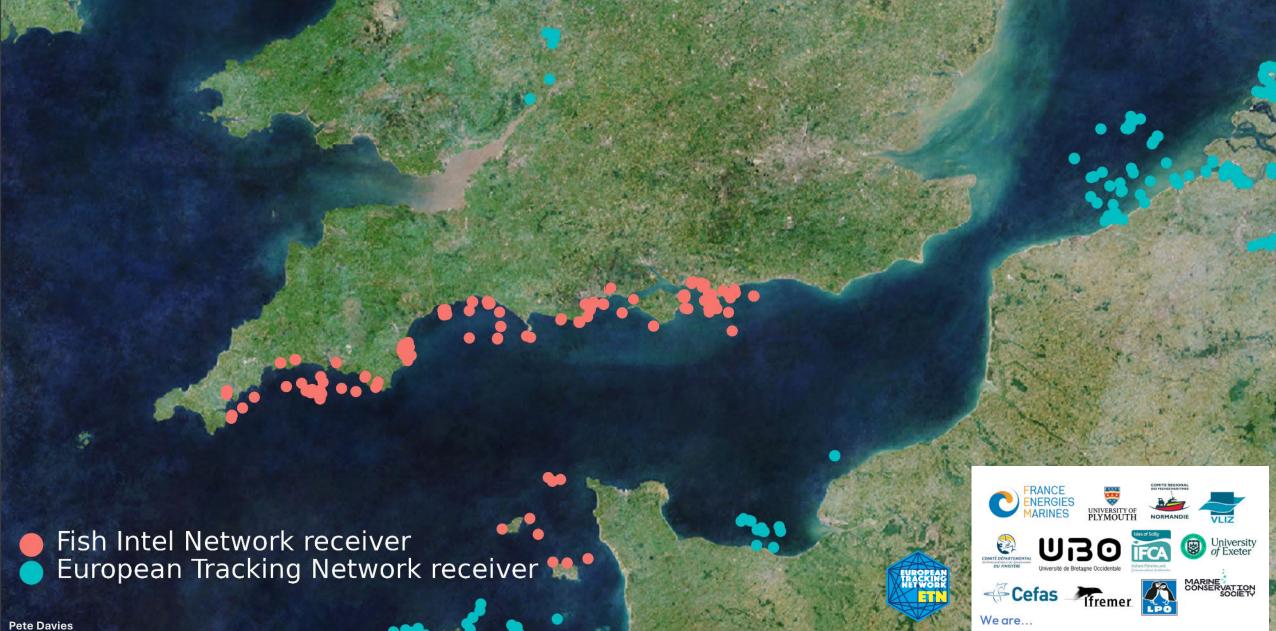












#### Why it matters



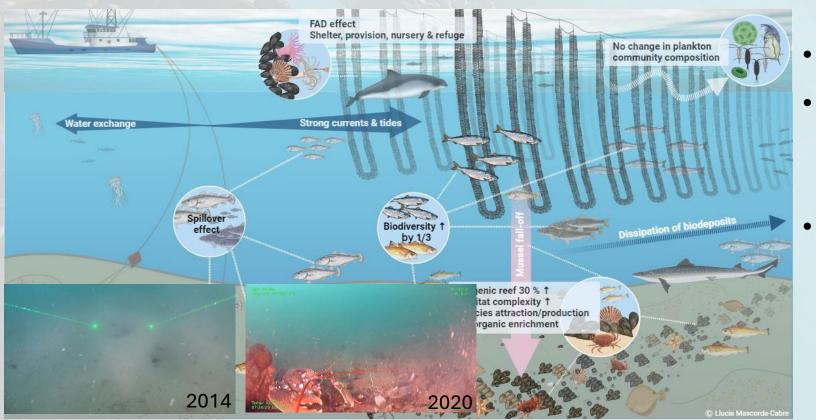
1. Ecosystem security – habitat creation & vertical complexity on previously degraded seabed.



2. Fisheries resilience – shelter for juveniles could translate into increased future catches.



3. Climate-smart protein – low-carbon seafood that **actively supports nature**.



- Biodiversity enhancement
- Essential Fish habitat nursery space for juvenile fish, feeding grounds etc.
- Evidence of connectivity and spillover

ROPES

"...The project will provide long term value to planning of sustainable offshore aquaculture and forms a solid base on which to build future research."

John Holmyard, Offshore Shellfish Ltd



"At a time when we are trying hard to demonstrate...the benefits of the sector and promote an expansion of this ecofriendly industry, the Ropes to Reefs project is both relevant and critically important."

David Jarrad, Shellfish Association of Great Britain

Shellfish

"The project represents an important contribution to MMO's evidence base across all our departments, and we have begun discussions with colleagues on uses of the evidence."

Marine

Management

Organisation

Miranda Willis, Marine Management Organisation

"To see the transformation in the site from boring featureless and barren mud to a vibrant and thriving community has been fascinating. The chance to eat some of the farm's product has also been a bonus!"

Rob King, Blue Turtle Dive Charters

### Sharing the story: 2023 - 2025



Talks & Panels

25 Presentations incl. Project Webinar Panel



**Media Reach** 

3 national press pieces • BBC Radio Devon segment



Peer-review & reports 2 journal articles • 1 Policy Brief



**Digital Engagement** 

Project video 4 k views • social impressions 55 k









#### Your Part in the Blue Food Revolution

Who

**Funders & Ministers** 

**Regulators & Managers** 

**Shellfish & Aquaculture Industry** 

**Scientists** 



#### What is needed

Ring-fenced support for 'nature inclusive aquaculture' R&D and monitoring programmes

Fast-track licensing for farms that adopt biodiversity-positive designs; integrate them into MPA objectives

Pilot schemes, share data, champion success stories

Keep testing, keep tweaking, keep publishing open data

#### Why it matters

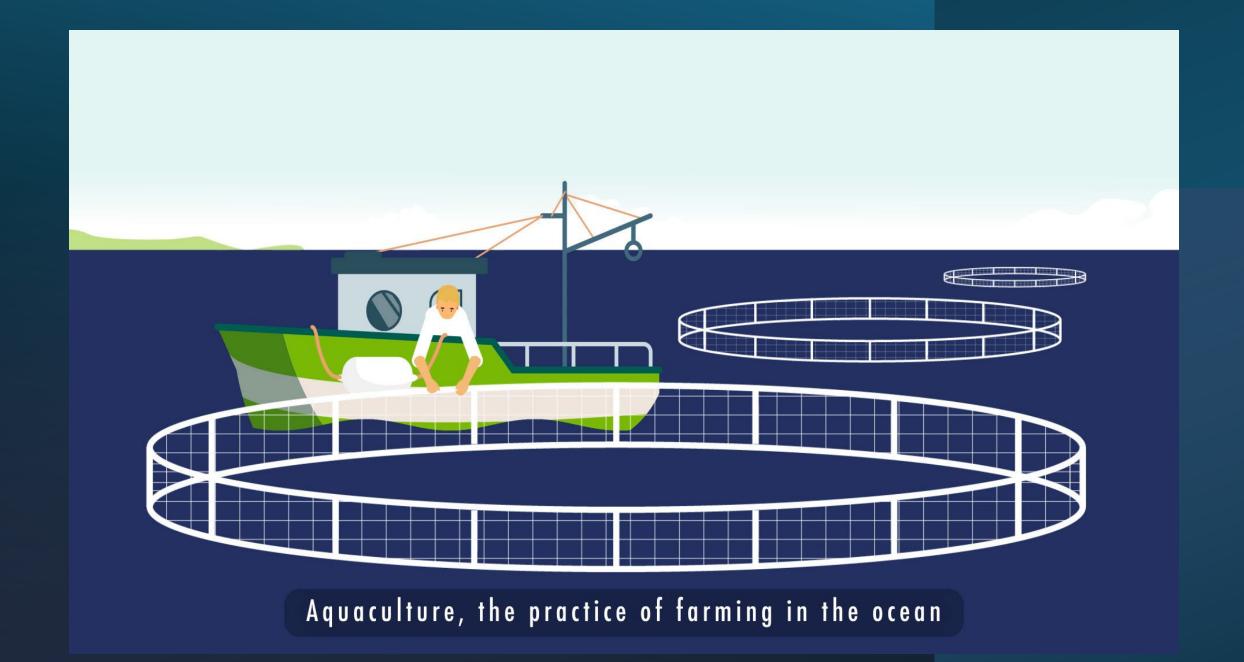
Turns good-news pilots into national standards

Rewards best practice, lifts the whole sector

Builds market trust, opens premium markets

Keeps the evidence base solid and evolving to support the growth of restorative offshore aquaculture











Read: Policy Brief





Watch: Webinar



Paper: Stamp et al. 2024



Paper: Mascorda-Cabré et al. 2024

#### Explore more



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