

# #CoastalFutures23

25-26 January, London & livestream



*Our Ocean and Coastal Future  
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30th annual conference

**Coastal Futures 2023**

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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**CHAIR**  
**Peter Barham MBE,**  
**Seabed User and Developer Group**

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Joly Macleod, Defra**

***Domestic Marine Policy –  
Update on progress***

25th & 26th January, 2023 | Royal Geographical Society, London & online



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Department  
for Environment  
Food & Rural Affairs

# Domestic Marine Policy Update

**Coastal Futures Conference**  
**25-26 January 2023**

Joly Macleod, Domestic Marine  
[Joly.macleod@defra.gov.uk](mailto:Joly.macleod@defra.gov.uk)



Environment  
Agency



Forestry Commission





# Context

## Approach and commitments

- UK Marine Strategy
- 25 Year Environment Plan
- Net Zero
- 30 by 30

## New in 2022:

- British Energy Security Strategy – 50 GW
- Nature Recovery Green Paper
- MPA statutory target



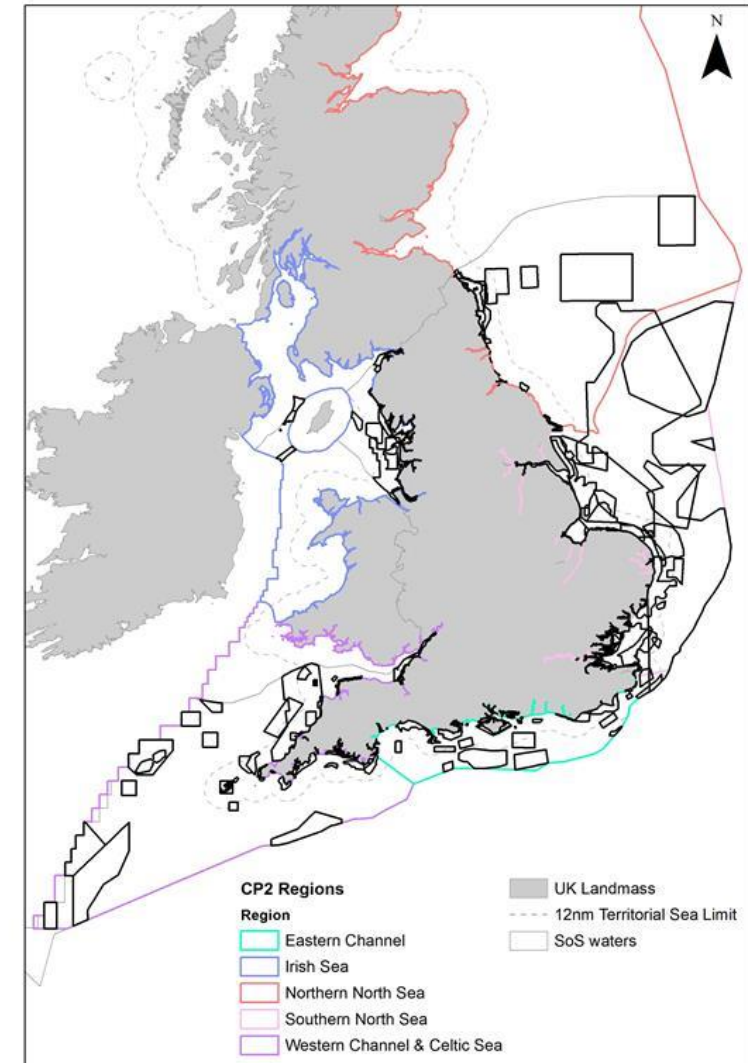
# Marine Nature Conservation

## Marine Protected Areas (MPAs):

- MPA network completed 2019
- 60% of 178 English MPAs protected from damaging fishing
- First offshore byelaws
- Current MMO consultations on next steps

## Highly Protected Marine Areas (HMPAs):

- Consultation on 5 candidate sites closed September 2022 – over 900 respondents
- Sites designated by 6<sup>th</sup> July 2023



English MPA Network





## Offshore Wind Environmental Improvement Package

British Energy Security  
Strategy (2022)

- Reform and streamline HRAs for offshore wind
- Measures to compensate impacts at a strategic level
- Set up a Marine Recovery Fund
- Deliver offshore wind environmental standards
- Deliver a strategic approach to environmental monitoring

# Marine Net Gain

Leaving the environment in a better state than before.

## Consultation launched on:

- Approach for the marine environment
- Scope and application
- Closed September 2022 – 92 responses

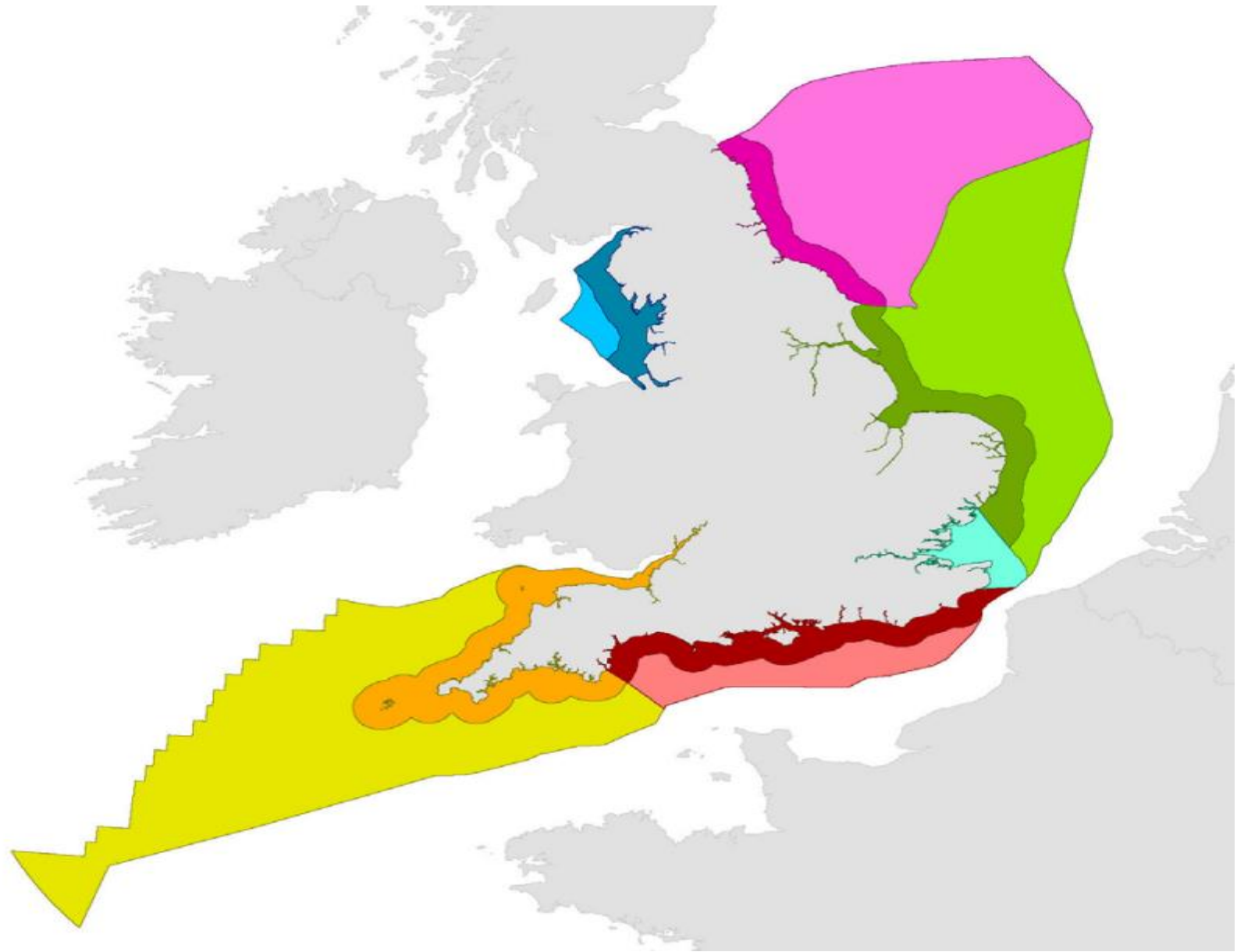
## Next steps:

- Publish Government response
- Evidence and delivery mechanisms
- Further consultation





# Marine Spatial Prioritisation



Marine Plan Areas in England (MMO)

# Year Ahead

- Passage of Energy Bill
- Continued progress on Strategic Compensation
- Policy decisions on the Marine Recovery Fund.
- More information on Offshore Wind Environmental Standards
- Updated Unexploded Ordnance Statement
- Further engagement on spatial prioritisation
- Offshore MPA byelaws
- HMPA designation decisions
- Marine Net Gain consultation response





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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Olivia Thomas, The Crown Estate**

*One space, multiple pressures: the need  
for a coordinated and holistic approach to  
managing the UK sea space*

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# One Space: Multiple Pressures

The need for a coordinated and holistic approach to managing the UK sea space

Olivia Thomas  
Head of Marine Planning  
The Crown Estate

26 January 2022



**Delivering for more than  
260 years, The Crown  
Estate is a unique  
business with a diverse  
portfolio that stretches  
across England, Wales  
and N. Ireland**



### **Reconstituted by The Crown Estate Act of 1961**

As a commercially independent business with accountability to Parliament.



### **Return our net revenue profit to the Treasury**

For the benefit of the nation's finances, with £3bn contributed in the last 10 years.



### **Active owners and managers of land and seabed**

We seek to leverage our scale and convening power to make a meaningful difference.



### **With a compelling purpose**

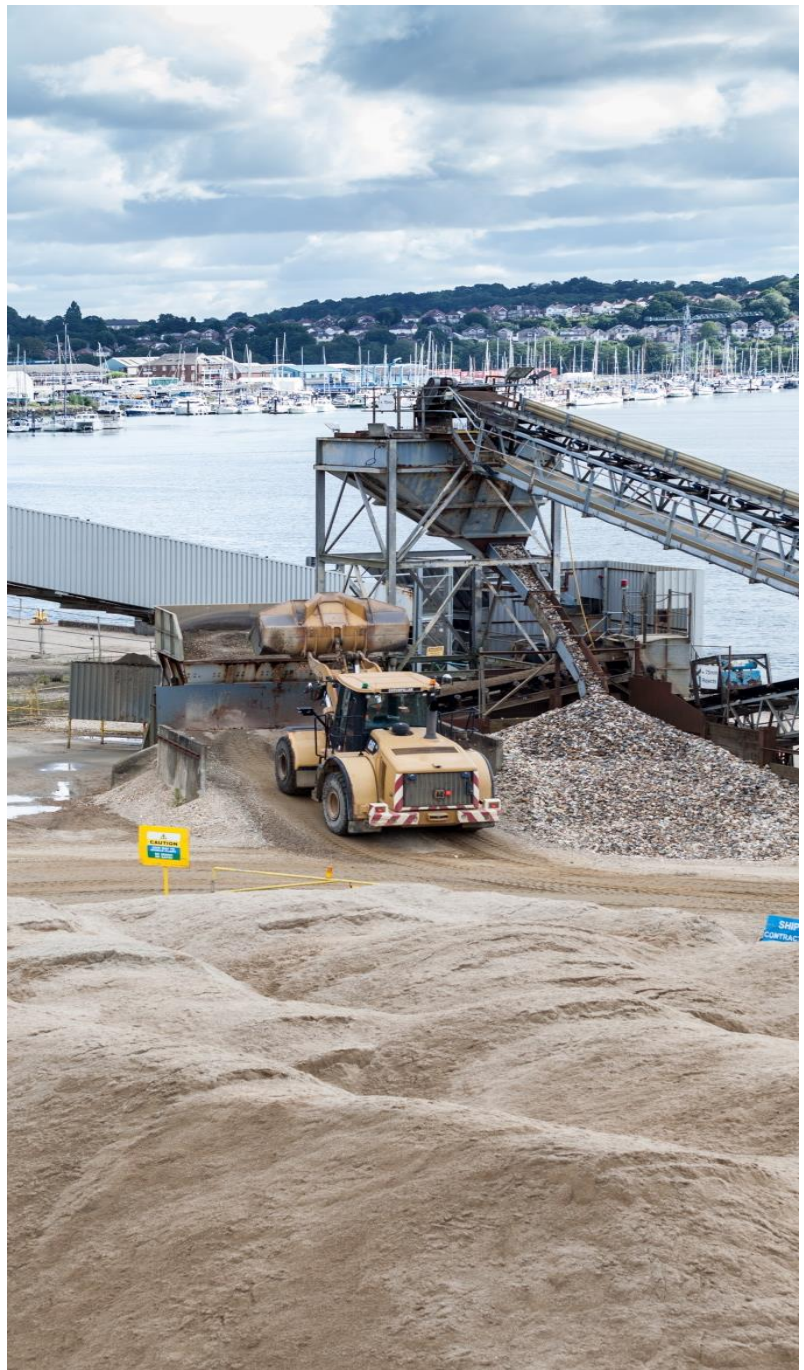
To create lasting and shared prosperity for the nation



### **And an ambitious new strategy**

Guided by our purpose and informed by major trends impacting our business, we seek to create broad financial, environmental and social value for our stakeholders, customers and the nation.







# One space: multiple pressures



Policy paper  
**British energy security strategy**  
Updated 7 April 2022

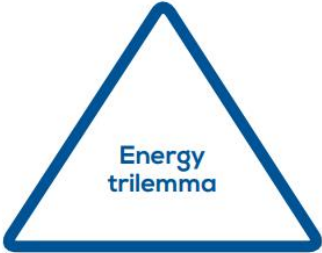
Support with  
energy bills  
this winter



East Coast Grid Spatial Study  
Summary Report  
April 2021

Prepared for:  
THE CROWN ESTATE  
Project Partners:  
nationalgrid nationalgridESO

Environmental sustainability



Energy security

Affordability

Figure 1. The energy trilemma.

## The RSPB's 2050 Energy Vision

Department for Environment Food & Rural Affairs

Home Find Activities We Asked, You Said, We Did

The Offshore Wind Environmental Improvement Package opportunity to comment survey

Overview

The Department for the Environment, Food and Rural Affairs (Defra) has developed proposals for the Offshore Wind Environmental Improvement Package (OWEIP) component of the British Energy Security Strategy. Defra is seeking initial views on the proposals, ahead of wider engagement this summer. Your response to the survey questions will be added to the points made at the engagement events held on 16<sup>th</sup> and 20<sup>th</sup> June 2022 so that Defra can consider stakeholders informed responses when formulating policy associated with the OWEIP.

Closes 7 Jul 2022  
Opened 23 Jun 2022

Contact  
Defra Offshore Wind Team  
[offshorewind@defra.gov.uk](mailto:offshorewind@defra.gov.uk)

Department for Environment Food & Rural Affairs

Home Find Activities We Asked, You Said, We Did

Consultation on the Principles of Marine Net Gain

Uyweddwrth Cymru  
Welsh Government

POLICY AND STRATEGY

**Renewable energy deep dive: recommendations**

Outcome of the exercise to identify opportunities to significantly scale up renewable energy in Wales.

First published: 8 December 2021  
Last updated: 9 December 2021



# The Crown Estate is taking three distinct actions to address the strategic challenges facing the marine environment

Greater spatial coordination



## Create the principal marine spatial data and evidence base

- Integrating spatial and evidentiary inputs to improve strategic decision making (e.g. through marine 2050 strategic seabed roadmap).
- Use trusted data and evidence to mitigate risks relating to consenting, technology integration, co-location.
- Develop a holistic understanding of seabed value and the opportunity cost of investment.

Clear responsibilities and priorities



## Develop new leasing and participation models

- Develop a transparent, repeatable and agile methodology for leasing that is integrated across various technologies.
- A proactive approach to protect the marine environment's rich biodiversity.
- New digital platform to improve agility and transparency of customer interactions.

Unblocking barriers to investment



## Putting our own capital to work in a new way


- Considering investments into enabling infrastructure (e.g. ports), data and evidence or environmental schemes.
- Leverage The Crown Estate's position and networks to convene public and private investors, alongside its own capital to maximise economic value.

In the context of broader change, these actions will:

- Provide clarity on what success looks like to 2050 **while creating a better balance for competing demands on the seabed**
- Unlock strategic opportunities to create **greater economic, environmental and social value** from the marine environment

# What can we collectively do?

## Who is involved?

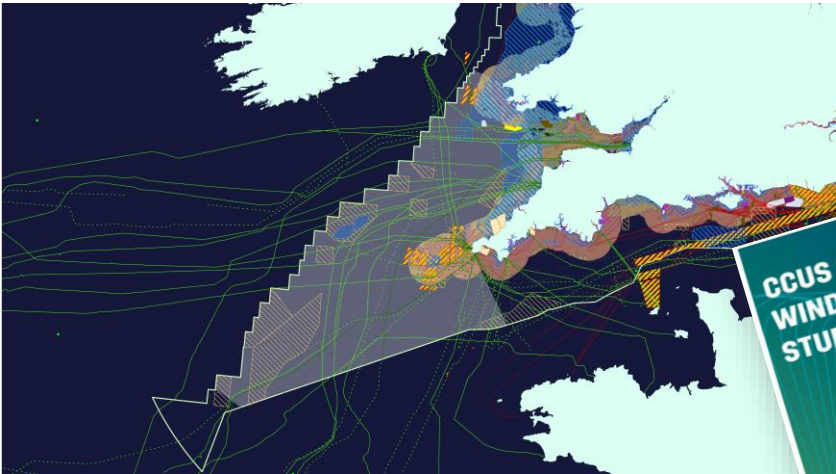
- Lead organisation  THE CROWN ESTATE
- Programme partners  Department for Business, Energy & Industrial Strategy  Department for Environment, Food & Rural Affairs
- Devolved governments  Northern Ireland  Wales  Scotland
- Industry representatives  renewableUK  nationalgridESO  Seabed User & developer group  Historic England
- Non Governmental Organisations  Offshore Wind Industry Council  ofgem  nationalgrid  RSPB  Wildlife Trusts
- Public bodies  Marine Management Organisation  Maritime & Coastguard Agency  Planning Inspectorate  JNCC  Cefas  Cyfoeth Naturol Cymru  Natural Resources Wales



## Evidence-led decisions



## Convening power



## Plan and prioritise





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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Kat Route-Stephens, Offshore Wind Industry  
Council and Audrey Jones, Defra**

***Collaboration on Offshore Wind Strategic  
Compensation***

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# Collaboration on Offshore Wind Strategic Compensation - COWSC

OffshoreWind  
IndustryCouncil



Department  
for Environment  
Food & Rural Affairs

Kat Route-Stephens (OWIC) & Audrey Jones (Defra)

26<sup>th</sup> January 2023  
Coastal Futures 2023



# Why is an approach to Strategic Compensation needed?

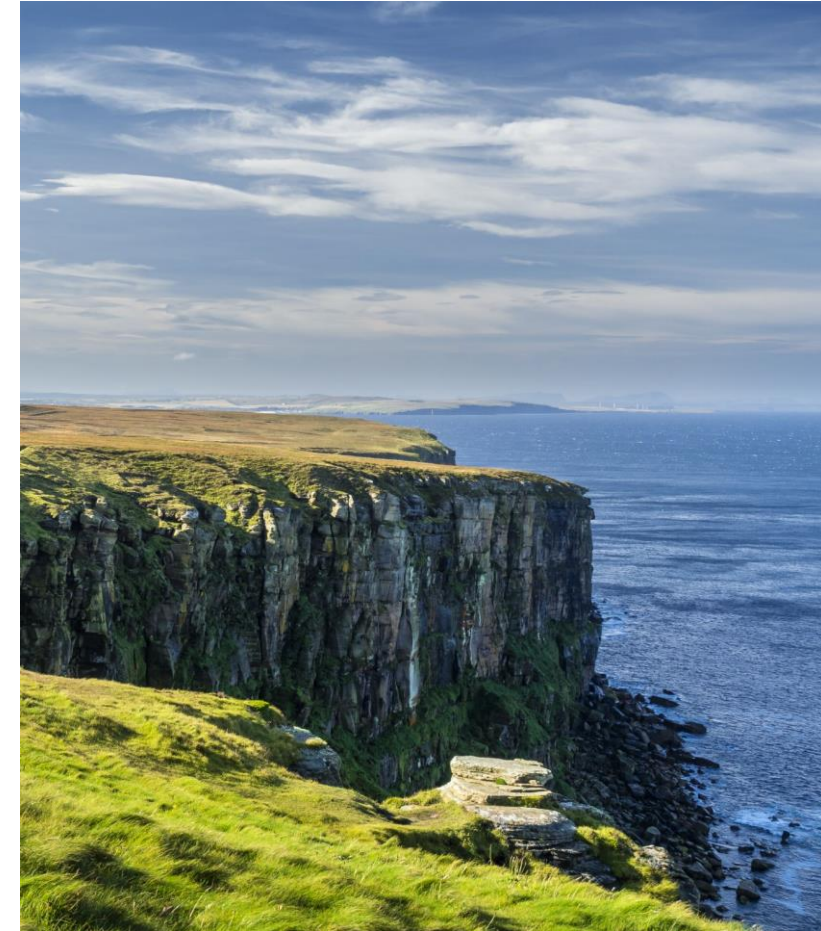
- Instances of derogations for offshore wind plans and projects increasing
- Significant delays to project consenting and deployment, up to 4 years
- UK ambition of 50 GW by 2030 and contributions to net zero target
- Alignment to achieve both:
  - Improved outcomes for the marine environment
  - Sustainable deployment of offshore wind at pace
- Need to move beyond project level compensation to "strategic approach"
- Identified as a potential solution for addressing OWF consenting challenges
  - British Energy Security Strategy
  - Defra's Offshore Wind Environmental Improvement Package
  - OWEC Priorities for Investment 2022
  - Round 4 Offshore Wind Leasing Plan Level HRA
- Near term and future leasing: ScotWind, INTOG, Celtic Sea and beyond





# Energy Bill Strategic Compensation Measures

- Enable measures to compensate for impacts on the marine environment to be taken at a strategic level across multiple projects, allocated across multiple public authorities, to enable banking and delivery of non like for like measures where there are no other viable alternatives.



# Collaboration on Offshore Wind Strategic Compensation – (COWSC)

## Aims and objectives

**Purpose:** To explore, develop and implement strategic compensation solutions to help enable an offshore wind industry that delivers on Government ambitions and the UK's net zero ambition whilst appropriately supporting thriving marine and coastal ecosystems.

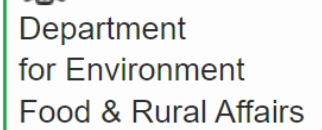
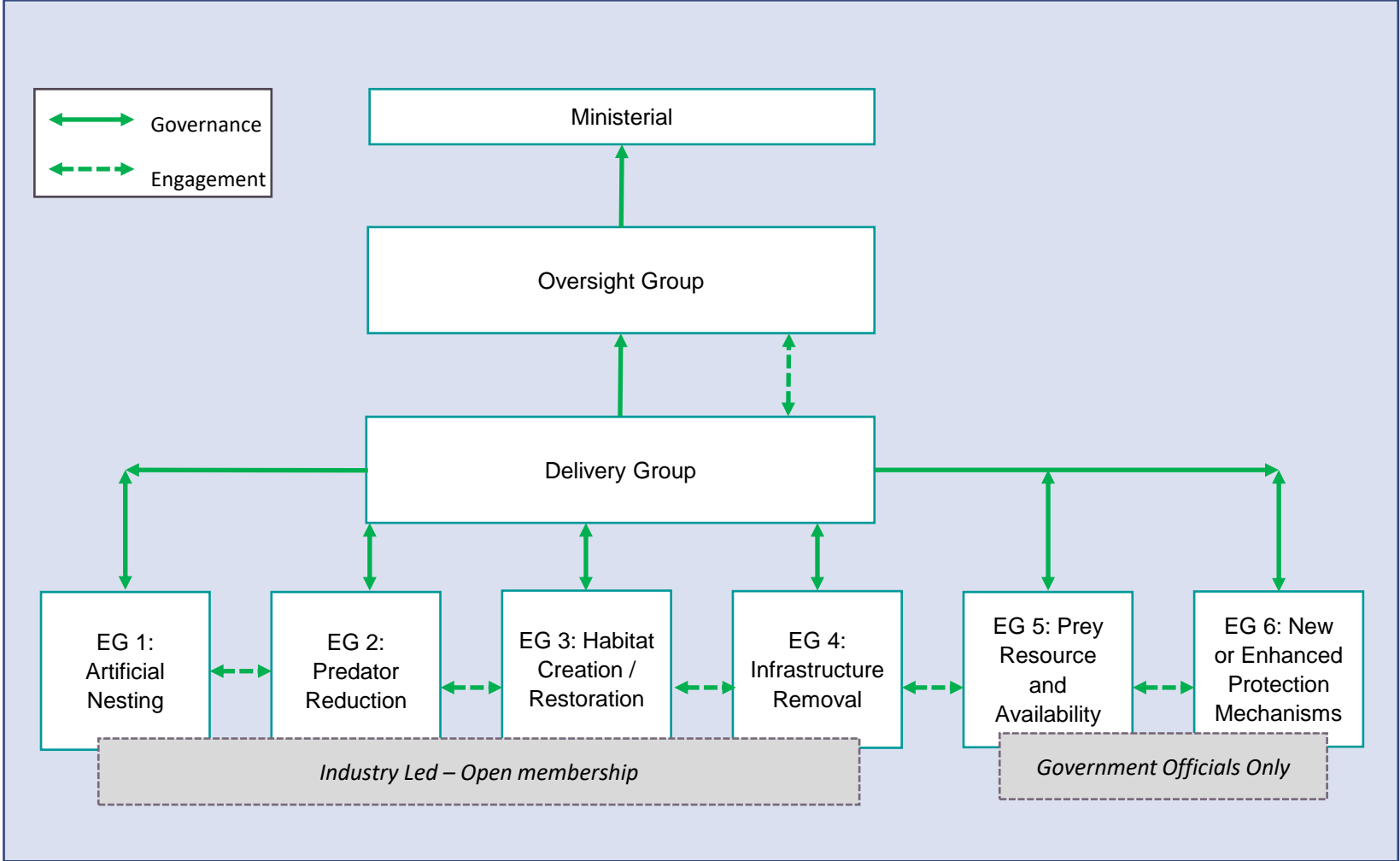
### Objectives:

1. To define and agree one or more delivery mechanism(s) for delivering strategic compensation in the UK.
2. To explore, define and agree feasible options for compensation measures that can be suitably applied at a strategic scale and that can be relied upon for offshore wind plans and projects.
3. To develop and undertake UK-wide pilot projects in priority areas to test compensatory measures and in-principle delivery mechanisms, including principles and guidance for monitoring and management, including adaptive management, enforcement and compliance, of strategic compensation pilot projects.
4. To monitor, steer and learn from the delivery of the pilot projects until such time that the pilot project objectives are met; with the potential for new pilots to be added if required.
5. To support the development of a library of ecologically robust and commercially feasible strategic compensatory measures which developers can use to meet their compensation requirements



# Collaboration on Offshore Wind Strategic Compensation (COWSC)

## Governance Structure



# Next Steps

- Submit Offshore Wind Evidence and Change (OWEC) bid for pilot studies for Industry led groups – **end of Jan 2023**
- Pilots commence - **July 2023**
- Establish feasibility of Government led measures – **by Summer 2023**
- Strategic compensation library and Marine Recovery Fund in place - **by Autumn 2023**
- Explore future compensatory needs - **ongoing**

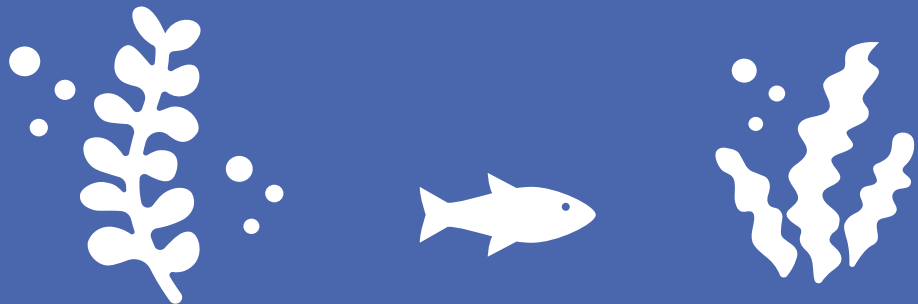




# Thank you!

Audrey Jones - [audrey.jones2@defra.gov.uk](mailto:audrey.jones2@defra.gov.uk)

Kat Route-Stephens - [kat.route-stephens@renewableuk.com](mailto:kat.route-stephens@renewableuk.com)



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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Mark Duffy, Natural England**

***Managing Environmental Impact  
Strategically***

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# MANAGING ENVIRONMENTAL IMPACT STRATEGICALLY

Dr Mark Duffy, Principal Advisor Fisheries



# Overview

- Reflection on where we have come from
- Marine conservation approaches
- Shift to Recovery (at scale)
- Good Environmental Status
- Scallops, Tuna & Sandeels
- Recommendations

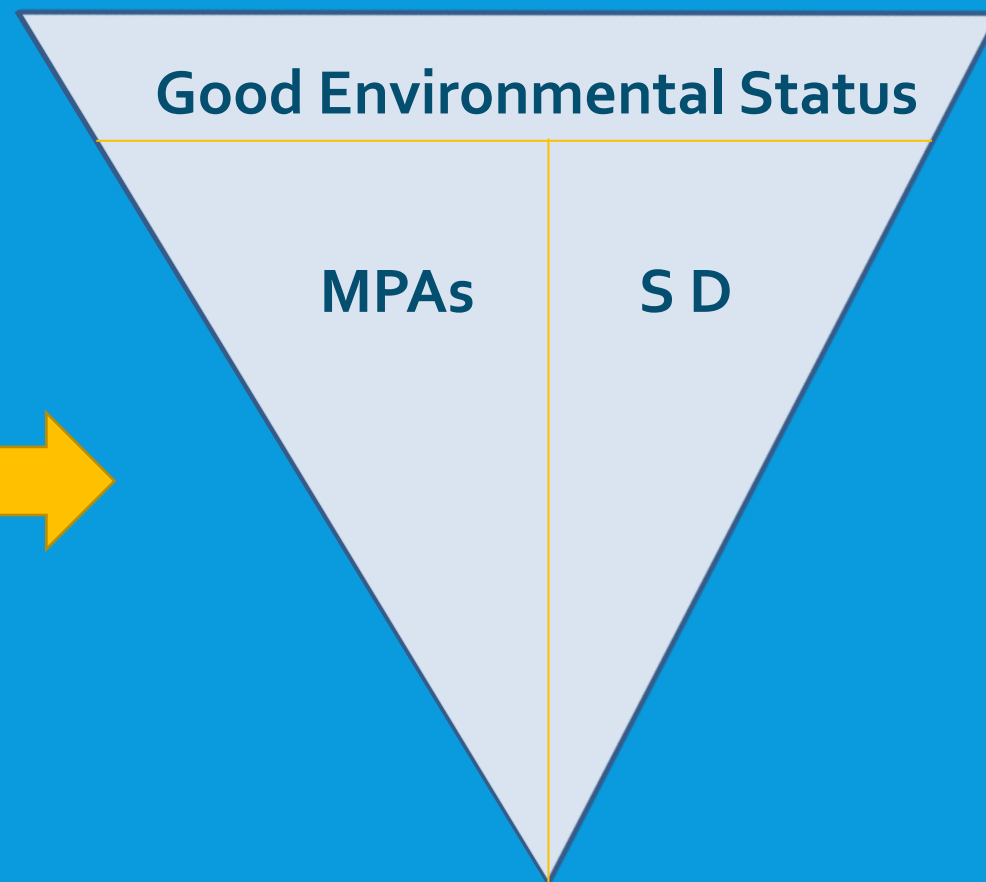
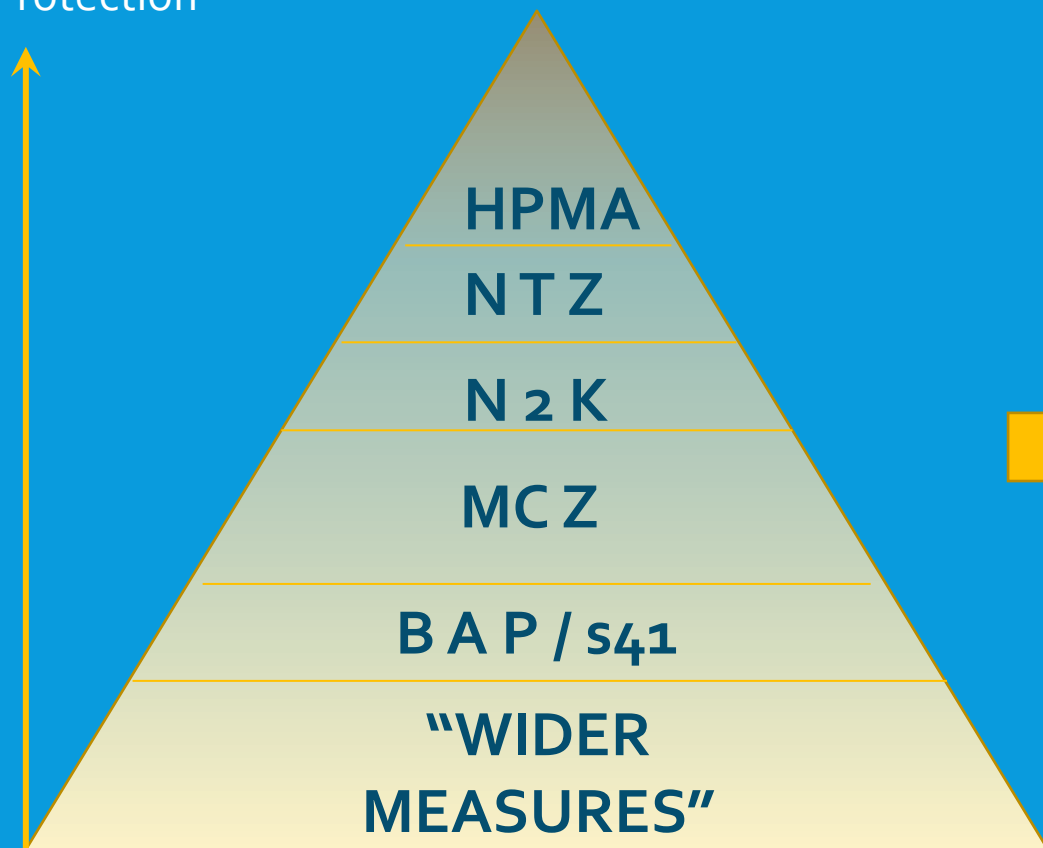
# Coastal Futures 2020

## COMPONENTS



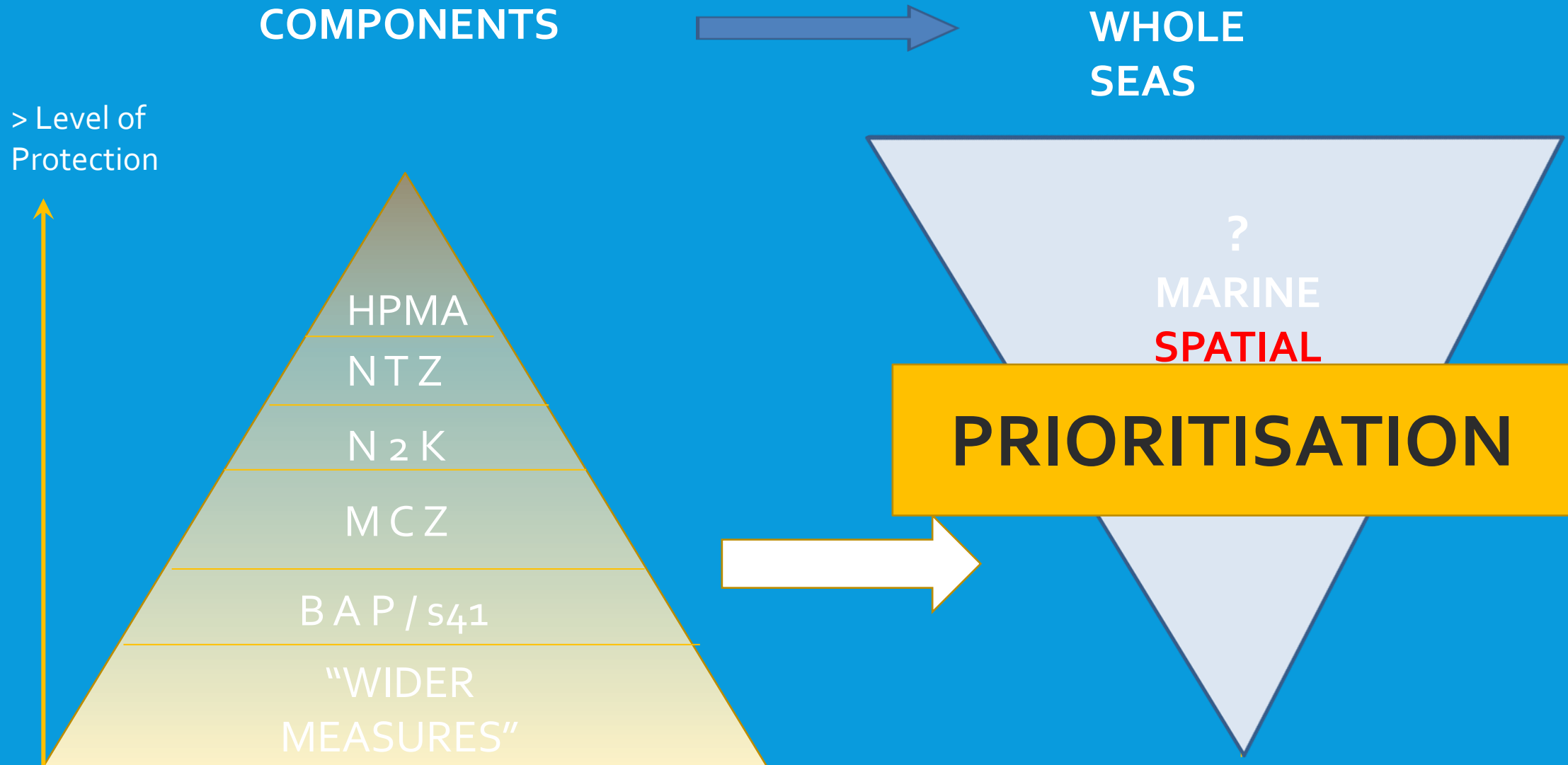
## WHOLE SEAS

> Level of Protection





# Coastal Futures 2023



# Evolving Marine Conservation

- BAP & MPAs
- MPA Network
- Maintain → Recover (& Net Gain)
- Recovery at Scale - GES
- Ecosystem Approach





# Recovery in the Marine Environment is Pressure Alleviation

- Pressure Alleviation in 95% of instances
- Work *with* sectors
- Shift from  $A+B = n$ , to  $A+C = <n$
- Cumulative Impacts / Net Gain

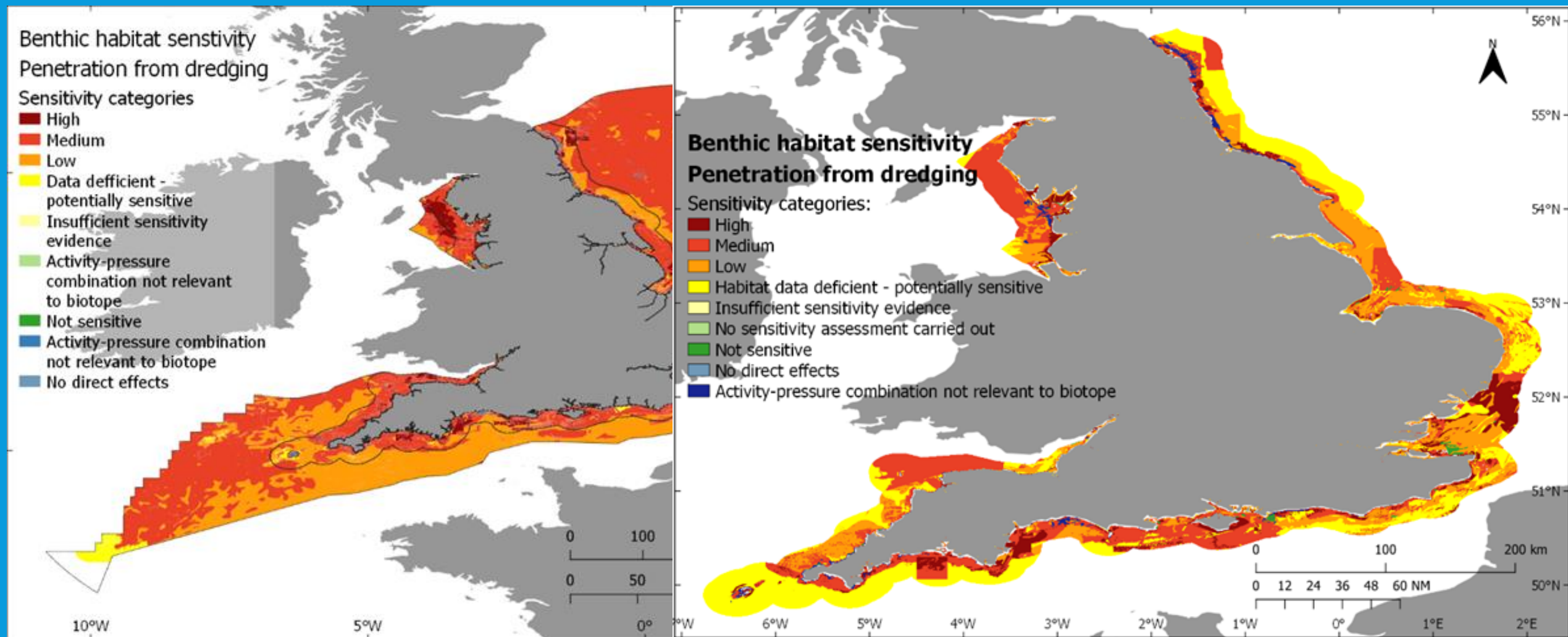


# Trade-offs & Balancing

- Classify the uses
- BESS
- Will be compromise
- Develop appropriate metrics
- Marine Spatial Prioritisation



# Natural England Spatial Sensitivity Tool (NESST)



benthic habitat sensitivity to penetration associated with dredging activities in the English inshore and offshore Waters using biotope proxies

using sub-bioregional biotope proxies.

# Restore to what?

- Understand Baseline
- Future Shifts
- Prevailing Environmental Conditions





# Coexistence v Colocation

- Coexistence
- Colocation
- How they work in spatially restricted areas



# Optimising use of Marine Biological Resources

- Scallops
- Bluefin Tuna
- Sandeels





# SUMMARY

- (i) Conservationists to think beyond MPAs
- (ii) Restore at scale
- (iii) Adopt Ecosystem-Based Management & deliver GES
- (iv) Recovery = Pressure Alleviation, thus...
- (v) Work *with* anthropogenic uses of the sea
- (vi) Develop appropriate metrics to facilitate trade-offs / balancing
- (vii) Enhance spatial tools to ascertain optimal positioning of activities
- (viii) Restore in context of future conditions
- (ix) Likely to be more coexistence than colocation



# THANK YOU

NATURAL  
ENGLAND



[mark.duffy@naturalengland.org.uk](mailto:mark.duffy@naturalengland.org.uk)





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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Katie-Jo Luxton, RSPB**

*Harnessing Nature Positive to deliver  
strategic ecosystem restoration solutions  
for our seas*

25th & 26th January, 2023 | Royal Geographical Society, London & online



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# Harnessing 'Nature Positive' to deliver strategic ecosystem restoration

Katie-Jo Luxton – Executive Director, Global Conservation



Ben Andrew ([rspb-images.com](https://www.rspb-images.com))

# Nature Positive: offshore wind



***Nature Positive offshore wind is measurable industry and government-led action to restore resilient seas, going above and beyond halting nature loss as part of the UK's renewable energy transition***

Ben Andrew (rspb-images.com)



# Powering Healthy Seas

- A new vision, renewable expansion to “Power Healthy Seas”
- Collaborative approach for solutions
- Strategic nature protection and a wider suite of Nature Positive measures
- Tackling the dual nature and climate emergency



**Report**



**Film**



# Strategic Nature Protection



- A new era of solutions
- Ecosystem-level approach vital
- Recommendations for nature protection, that halt nature loss at scale
- A clear, measured and ecologically meaningful application of strategic compensation





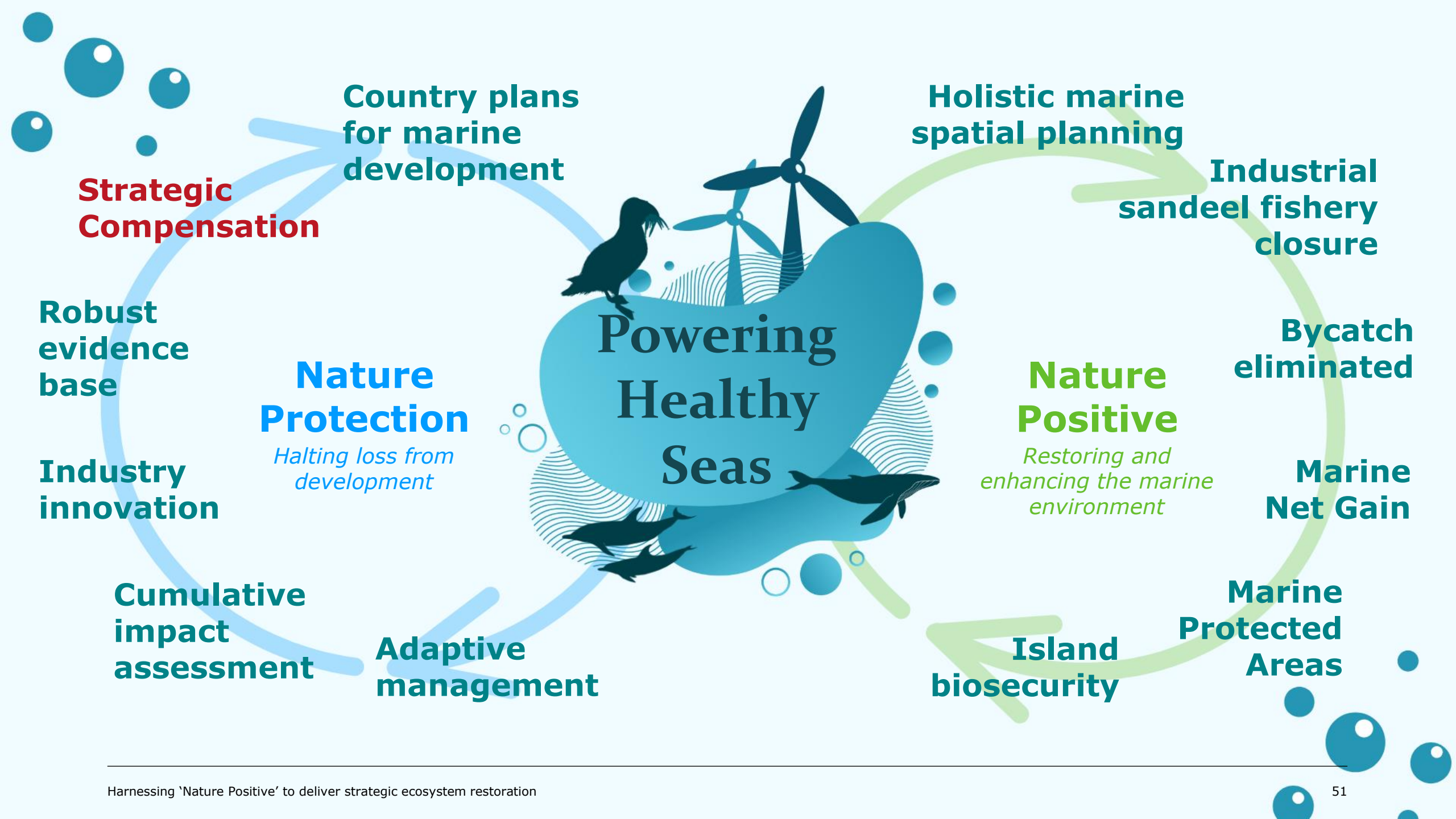
# Strategic Compensation



- A strategic system of pre-emptive, legally sound and **ecologically meaningful** compensation<sup>1</sup>
- Following the **mitigation hierarchy**, delivering at scale
- **Targeting species, habitats and protected sites** adversely impacted by offshore windfarm development.

<sup>1</sup>As required through Habitats Regulations to maintain favourable conservation status and protect the coherence of the National (or UK) Sites Network

Ben Andrew (rspb-images.com)





# Putting the “Good” in GES



A 2050 vision:

## Safe places to breed

- **Industry** have supported strategic\* programmes of eradicating Invasive Non-Native Species
- **Governments** have facilitated nationwide programmes for safer seabird islands

## Safe places to feed

- **Industry** have contributed to strategic, innovative data collection & mitigation to protect flyways and foraging areas
- **Governments** have led a reform of holistic marine spatial plans

## Abundance of food

- **Industry** have minimised impacts on seabird prey from developments
- **Governments** have closed UK waters to industrial sandeel fisheries
- Effective at-sea monitoring of fishing in UK waters

\* N.B. Not all strategic work constitutes compensation



# Thank you

Ben Andrew ([rspb-images.com](https://rspb-images.com))



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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Celestia Godbehere, Orsted**

*Strategic compensation as part of  
marine recovery*

25th & 26th January, 2023 | Royal Geographical Society, London & online



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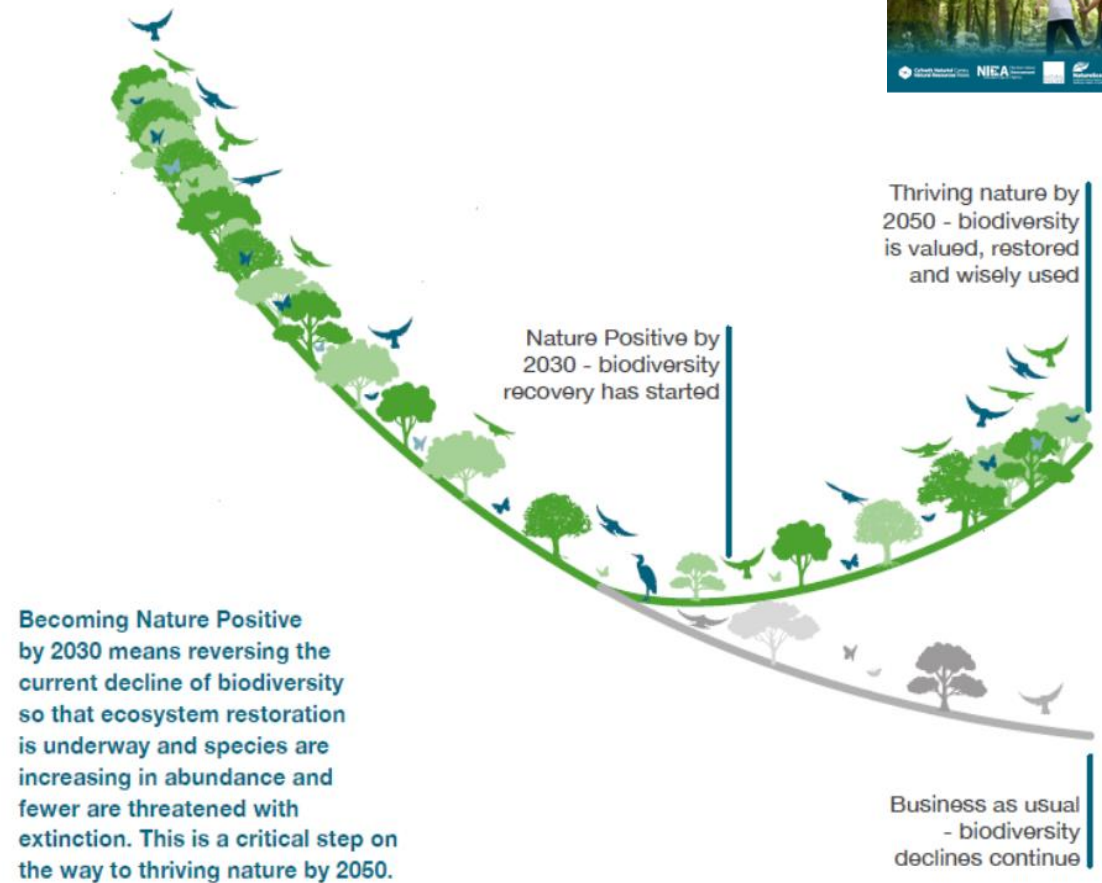
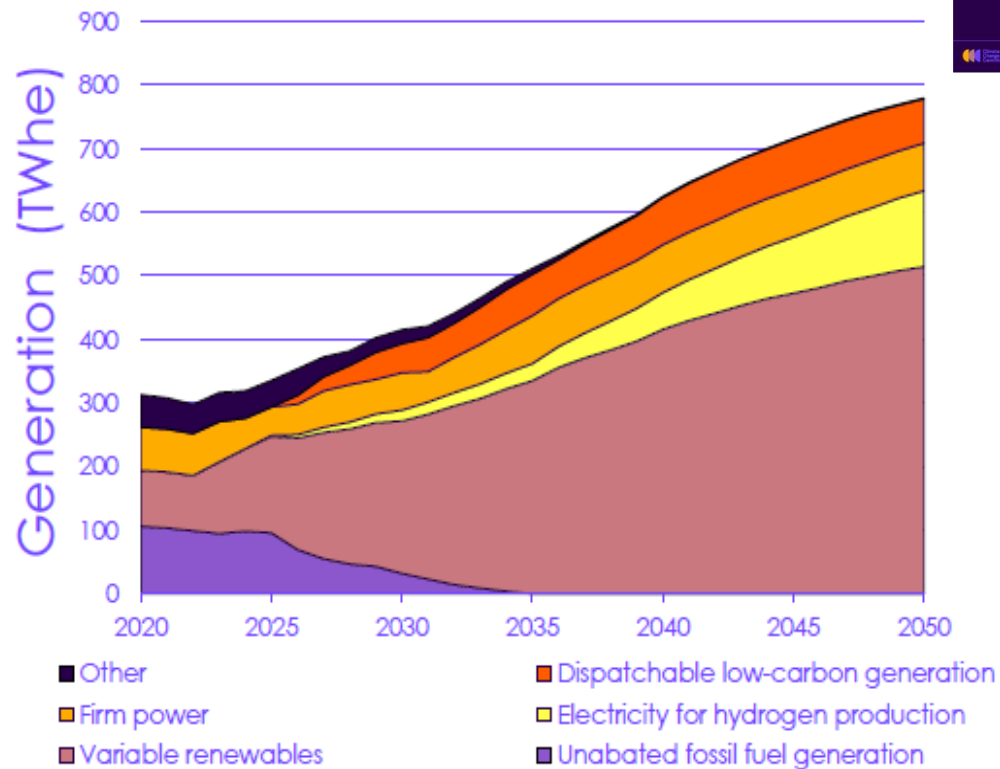
# Strategic compensation as part of nature recovery

Celestia Godbehere, Ørsted



# Two parallel goals for 2050

Electricity generation mix (Balanced Pathway)  
Changes from now to 2050





Let's create a world  
that runs entirely on  
green energy







# Ørsted's approach to compensation – let's be strategic!

## Hornsea Three

- First offshore wind project to be consented with a derogation case
- Kittiwake: Artificial nesting & Subtidal sandbanks: marine debris removal and prevention
- **Research contribution: OWSMRF linked research, colony monitoring**
- **Knowledge sharing across industry, Government and stakeholders**

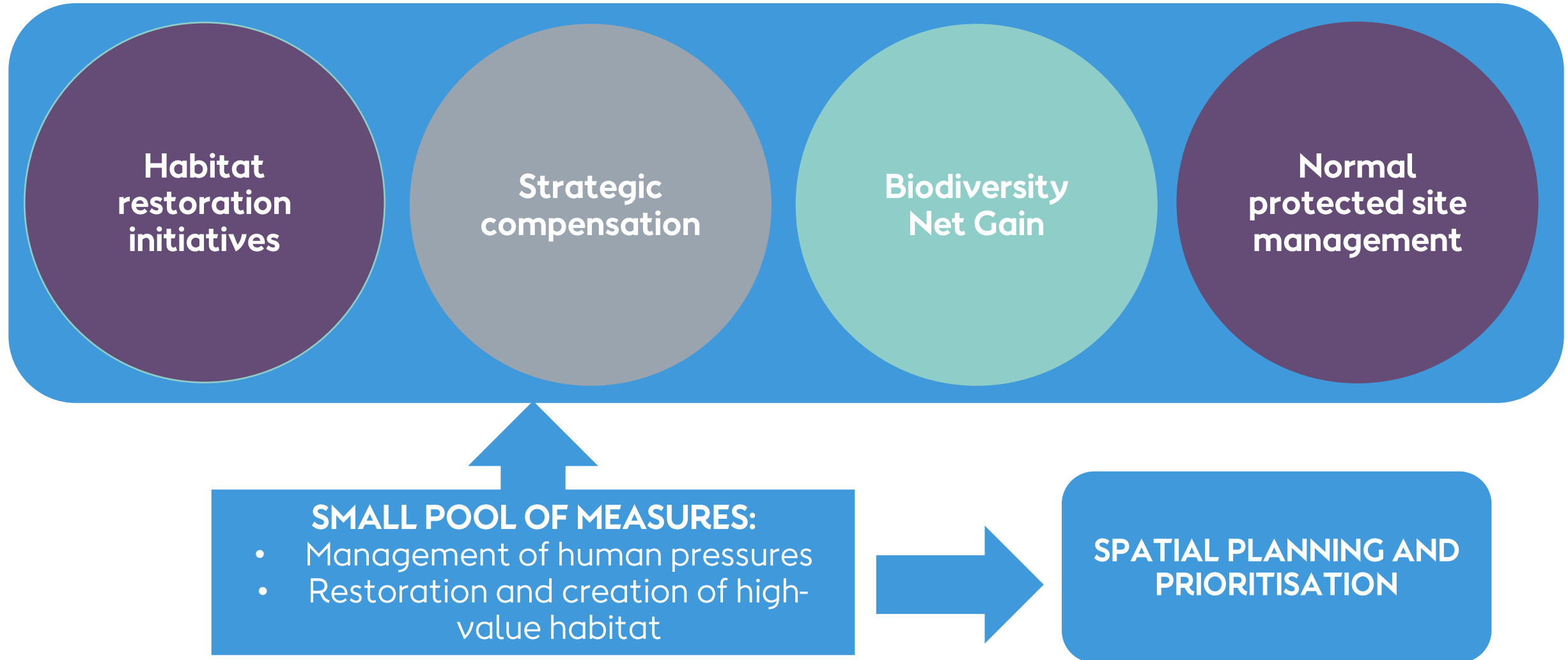
## Hornsea Four

- First offshore wind project to include a full derogation case on application
- Package of measures including artificial nesting, bycatch mitigation, predator management, and prey habitat restoration for seabirds.
- **Proposed contribution to strategic fund, knowledge sharing, research to explore future measures**

**+ projects in development**



# Nature recovery initiatives





# An offshore wind perspective on what is needed:



**Strategic vision**



**Industry  
contributions**

**Integrated  
management**



**Marine/terrestrial  
management  
differences  
acknowledged**

**Enhanced 'standard'  
monitoring**

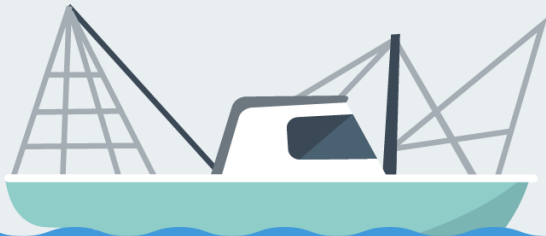
**Tailored approach to  
uncertainty**



**Confidence in  
nature  
recovery**

# Take home points

- Strategic compensation measures must be carefully aligned with other conservation and restoration initiatives for marine habitats and species, as in practice they are the same thing.
- Industry contributions, if strategically allocated, can significantly improve the condition of the marine environment.





An aerial photograph of the ocean with white-capped waves breaking against a deep blue background. The text "Thank you" is centered in a white, sans-serif font.

**Thank you**



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# SESSION 5

## **BALANCING ACT: Strategic Compensation and Spatial Prioritisation**

**Dr Andrew Gill, Cefas**

*How can we understand the  
outcomes of co-existence?*

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# How can we understand the outcome of co-existence?

Andrew B Gill | Principal Scientist,  
Strategic Lead for Offshore and Marine Renewable Energy





# Co-existence in the Marine Environment

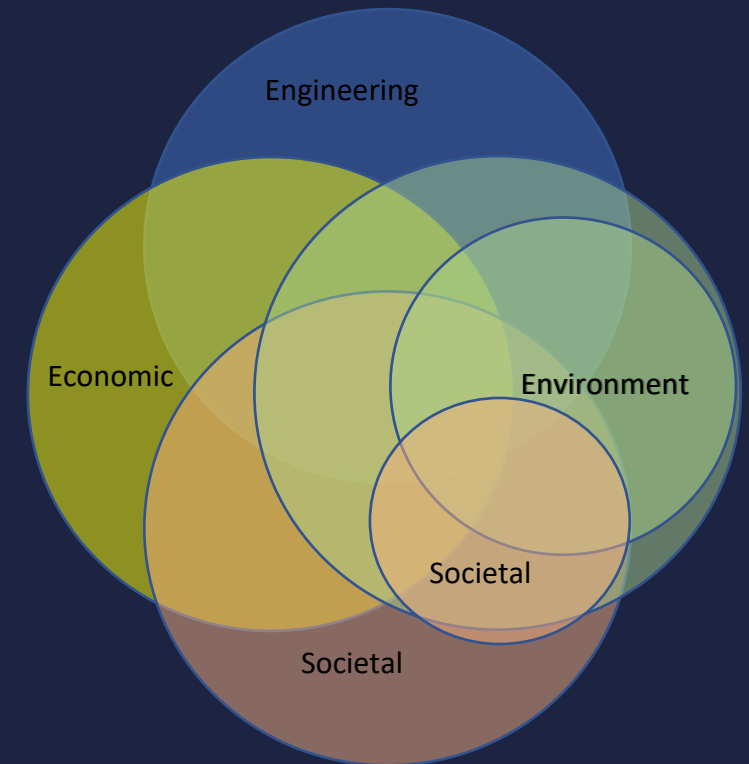
- National and regional policies
  - blue growth, energy security and climate change mitigation
  - range of policy targets and ambitions for sustainable uses of marine space
- UK Marine Plans recognise potential to make use of the same space
- “co-existence” of human activities and nature
  - positive (i.e. yielding benefits for co-activities)
  - negative (i.e. leading to conflict, such as the displacement or exclusion)
  - neutral (i.e. no net positive or negative outcome)
- Planning and managing co-existence requires appropriate identification of the constituent elements, their relationships and the outcomes.
- Q – how do we determine and ultimately understand the outcomes of our co-existence decisions for the environment, for society and the sectors involved?



# An answer ?

An integrated, multidisciplinary approach in support of UK OSW renewable energy, environmental and social goals drawing on existing knowledge and targetting new data collection and analysis.

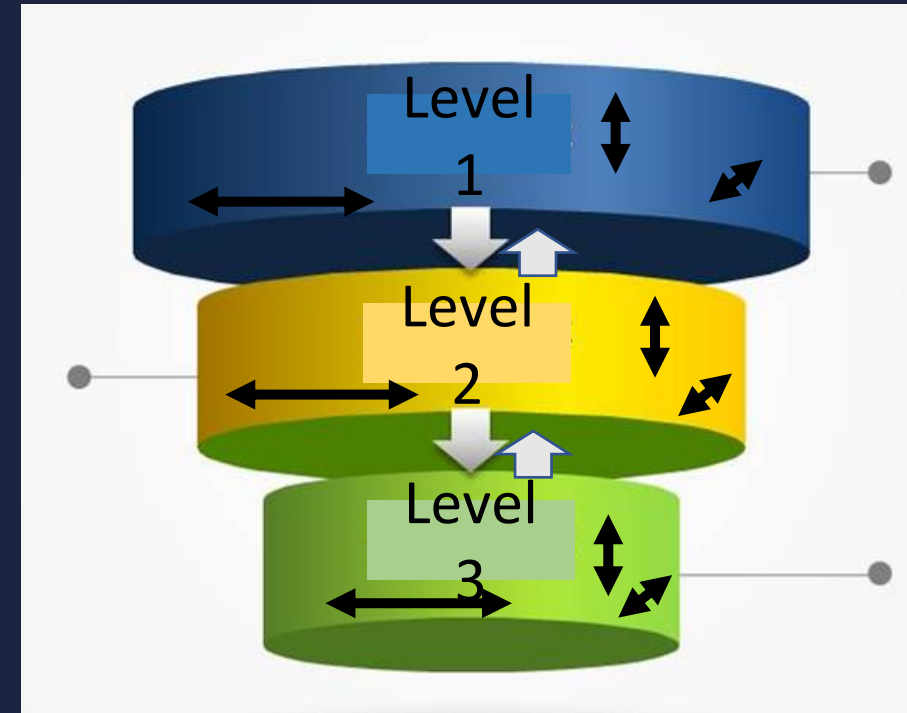
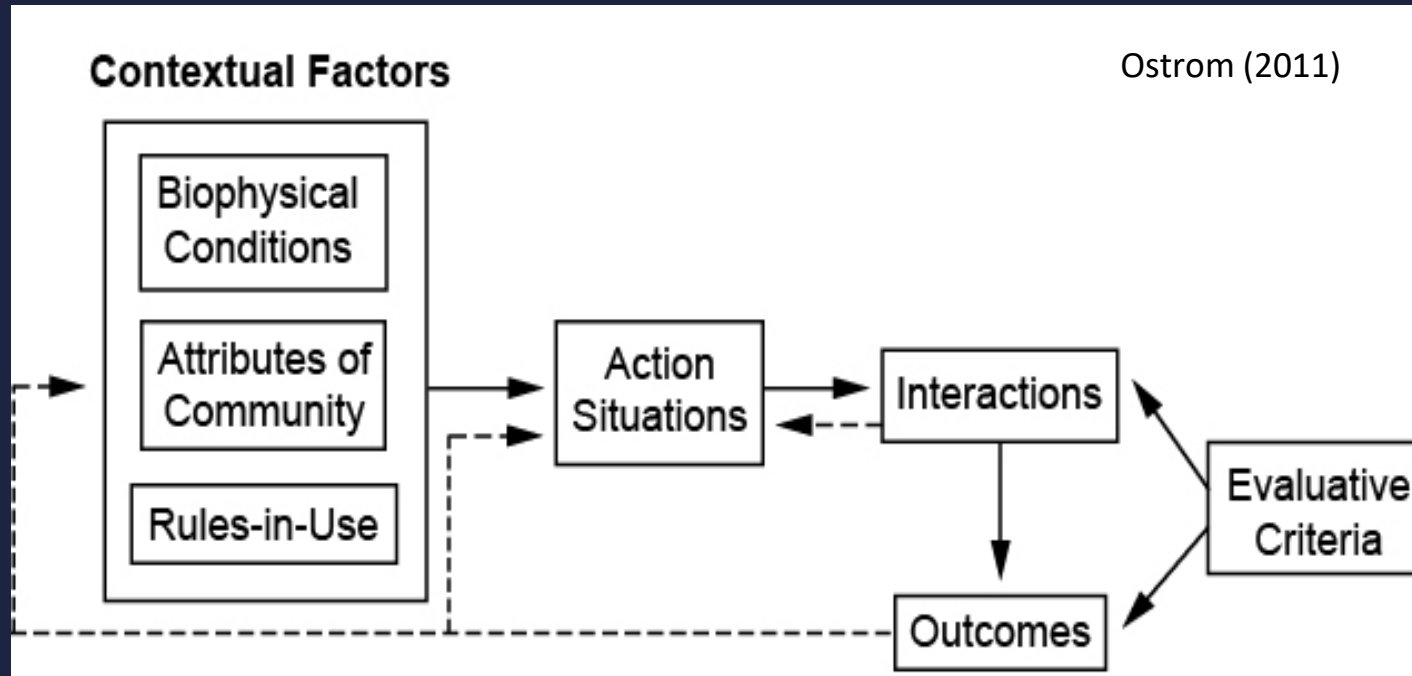
- A sustainable marine environment
  - Marine economic, technological, environmental/ecological, societal elements
  - The sustainability balancing act
  - Too much engineering and economics and partial environment and social consideration
- Taking a systems approach
  - Understanding the outcomes and consequences to feed into adaptive management
  - Identifying potential constraints/bottlenecks and opportunities/solutions



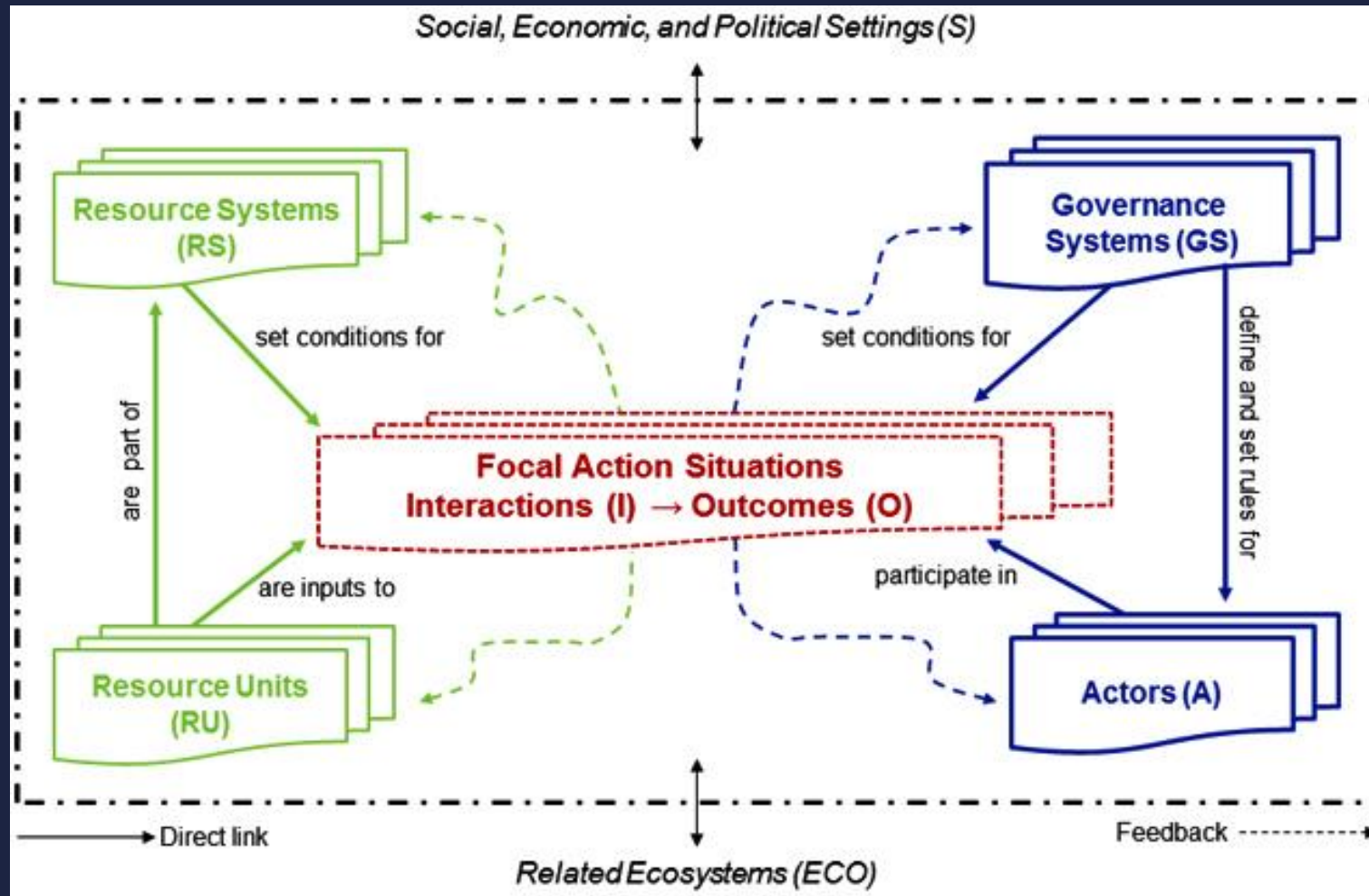


# Systems Context

## Socio-Ecological-Systems approach (S-E-S)



# Systems Context (S-E-S Elements)

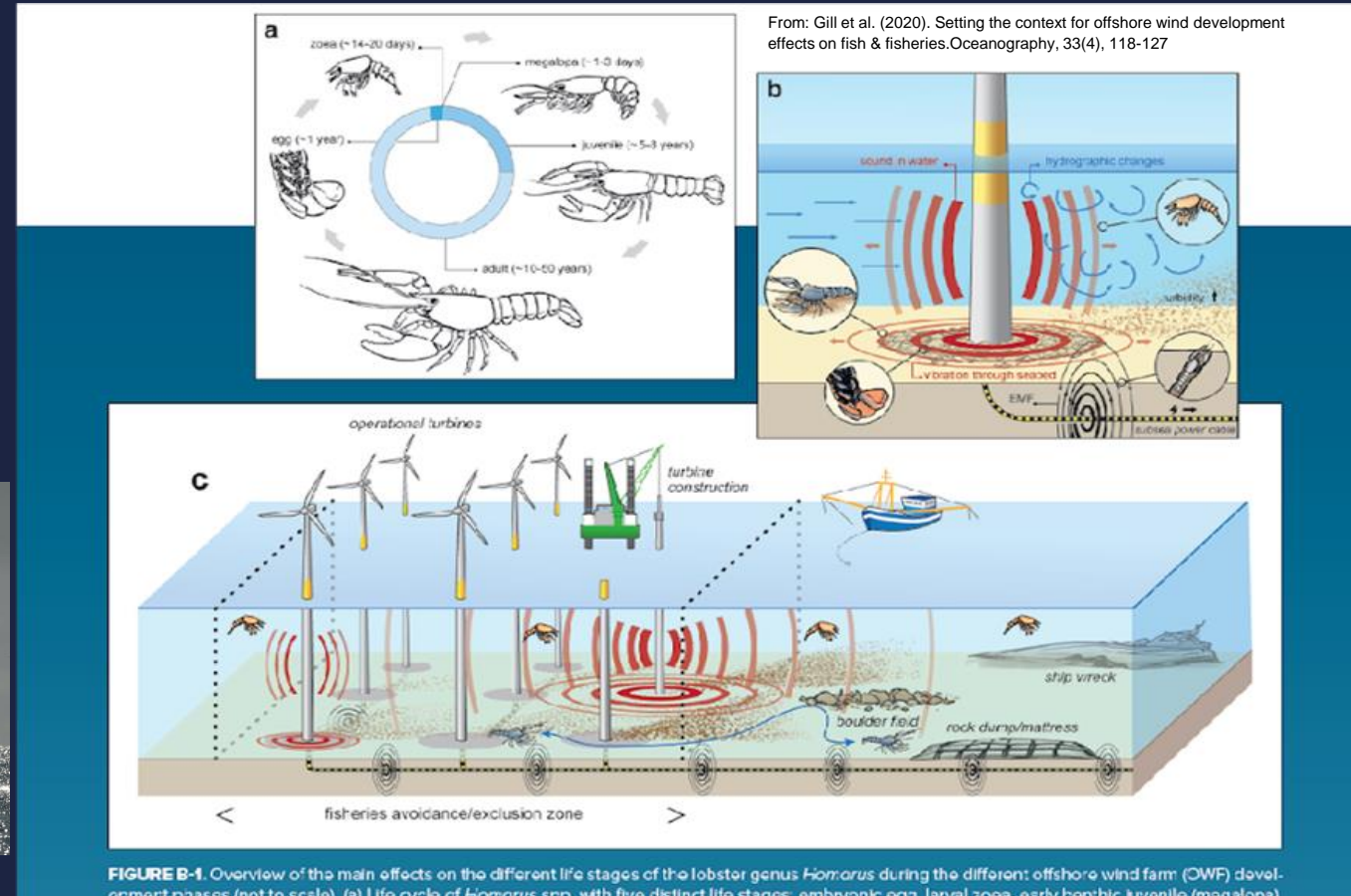




# Co-existence outcomes - Wind Farm interactions with fisheries

Effects on:

- Interactions could be +ve or -ve or neutral
- Fisheries species (including life history)
- Fishers (catch and community)



# Understanding the outcomes of co-existence

- Whatever type of co-existence, the system will change
- Clear definitions of element, levels and interactions/action situations (i.e. outcomes)
- To determine outcomes
  - need to appropriately quantify change and impacts
  - determine the knowns and unknowns in the system
  - target research at appropriate level within system (collaborative approach)
  - monitoring and data collection (at right scale) and knowledge sharing
  - ensure objectivity in evaluating outcomes





# References

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## BALANCING ACT: Strategic Compensation and Spatial Prioritisation

*How do we deliver strategic marine resource  
management in the UK?*

### CHAIR

Peter Barham, SUDG

Joly Macleod, Defra

Olivia Thomas, The Crown Estate

Kat Route-Stephens, Offshore Wind Industry Council

Audrey Jones, Defra

Mark Duffy, Natural England

Katie-Jo Luxton, RSPB

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# Q&A

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