

# Floating wind in the Celtic Sea

Engagement Event / July 2022

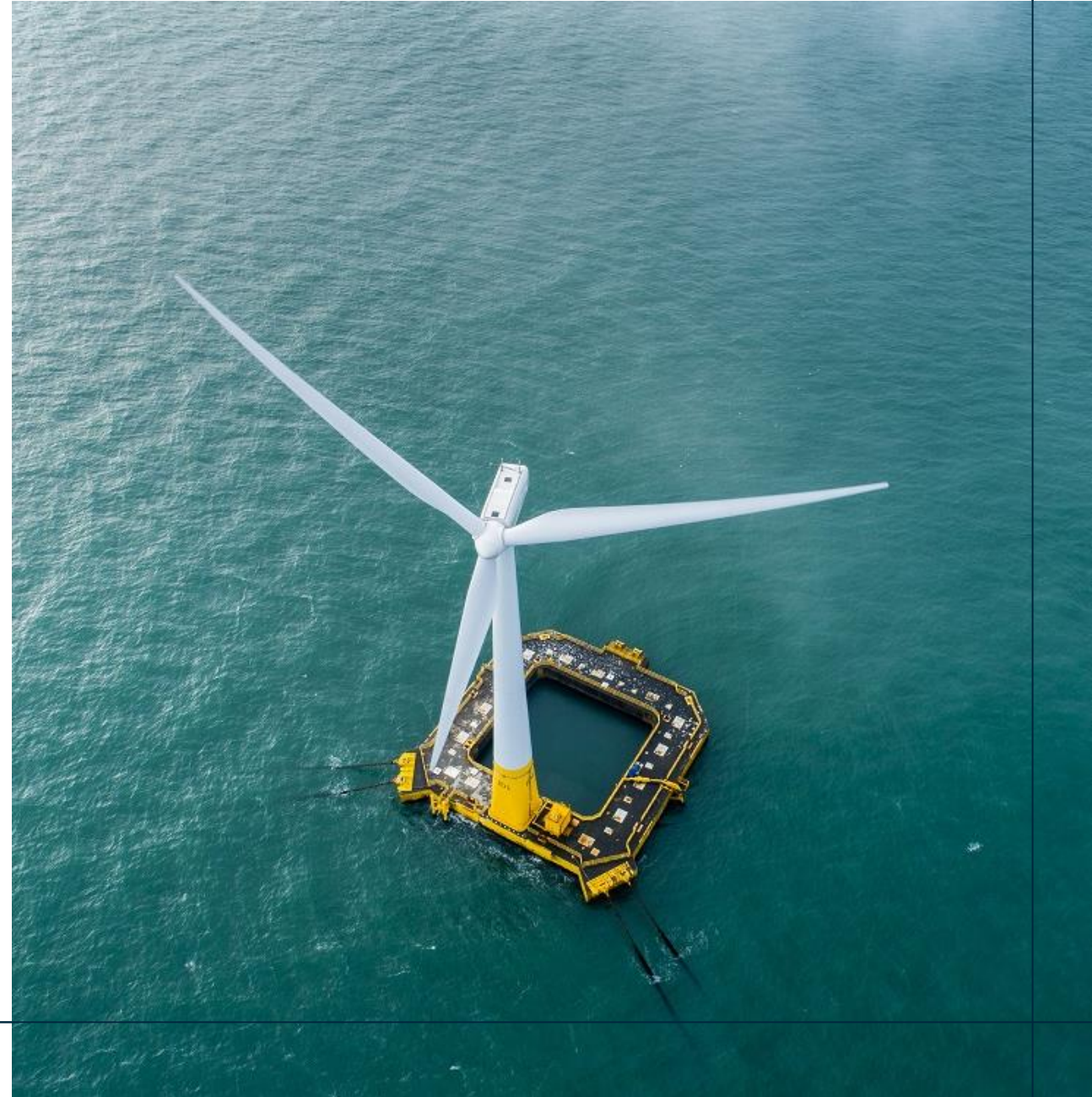
1. Image: BW Ideol & V.Joncheray



# Welcome

The purpose of today's webinar is to:

- Provide information on our engagement to date
- Update on our approach and progress on the spatial design of Floating Wind in the Celtic Sea
- Share with you the initial Areas of Search and outline how we will be taking these forward and further refining these areas
- Provide further information on the forward timeline
- Opportunity for Q&A and feedback



# Floating offshore wind and our engagement with you so far



Tim Stiven

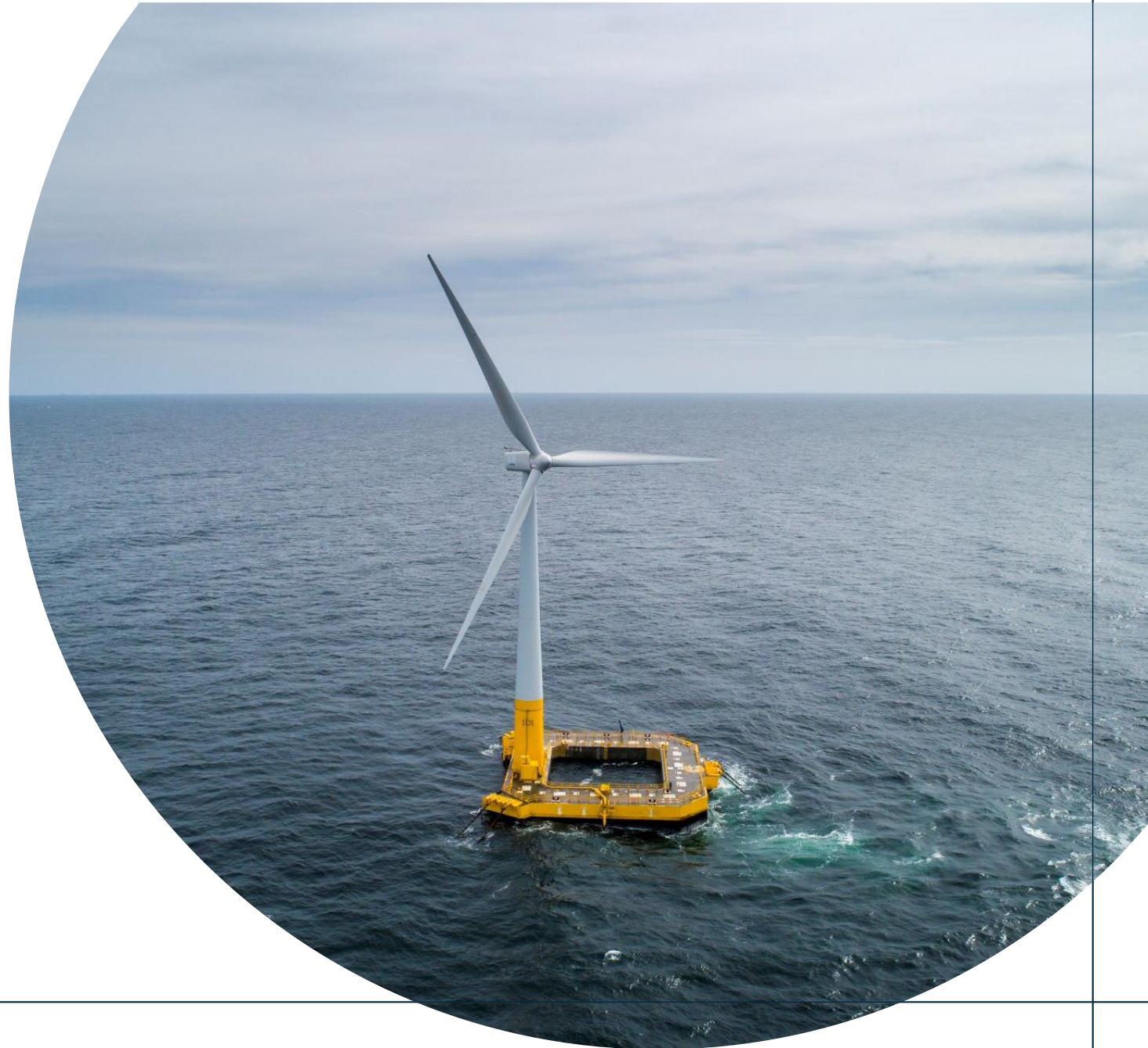
Senior Development Manager,  
Marine



# Our aims

## Our aims for this floating wind leasing opportunity in the Celtic Sea are:

- **Unlock clean energy in new areas, in support of net zero**
- **Support the development of floating wind in the UK, including the cost-reduction of the technology**
- **Incentivise investment in critical enabling infrastructure**
- **Help create economic and social value, through new skills and regional jobs**
- **Balance the needs of the environment, other sea users, and communities onshore**



DEC 2020



### INITIAL INVITATION FOR VIEWS

**Invitation to market** for views on how best to accelerate the development of floating wind in the UK

Input from **over 30** interested market participants across industry

Responses received confirmed strong capability and appetite for floating wind, and helped refine our proposition from 1GW to 4GW



DEC 2020 - NOV 2021



### ONGOING INFORMAL ENGAGEMENT

**Bilateral engagement** with market and other marine stakeholders to shape plans and thinking



FEB 2022



### MARINE STAKEHOLDER WORKSHOP

**Online workshop** to explain how spatial design approach responded to stakeholder feedback

The workshop was attended by **over 70** individuals from c.30 organisations

Explored data weightings which directly informed the way we have used data in our spatial modelling, which resulted in the Areas of Search



NOV - DEC 2021



### SPATIAL DESIGN AND DATA QUESTIONNAIRES

Questionnaires issued to **over 150** stakeholders requesting:

Input on spatial design from marine and market stakeholders

Datasets to support spatial modelling and flag any risks to existing seabed users and interests



FEB - JUNE 2022



### ENGAGEMENT TO INFORM SPATIAL AND TENDER DESIGN

**Informal engagement** to refine spatial modelling work and identify other significant factors, including the environment, navigation, fisheries, aviation, and defence



MAY - JUNE 2022



### PRE-CONSENT SURVEYS ENGAGEMENT

**Over 50** developers invited to share their views on datasets, methods, standards, and areas of focus that will accelerate delivery as much as possible



JULY 2022 - AUTUMN 2022



### ENGAGEMENT TO INFORM DEFINITION OF PROJECT DEVELOPMENT AREAS

**Targeted engagement** undertaken to further understand project risks, refine Areas of Search and inform the definition of Project Development Areas



JULY 2022



### AREAS OF SEARCH

**Establishes areas** of seabed that will be taken forward into plan-level Habitats Regulations Assessment (HRA) and grid infrastructure



KEY:



Market



Marine



Happening now

# Our approach to spatial design – a recap

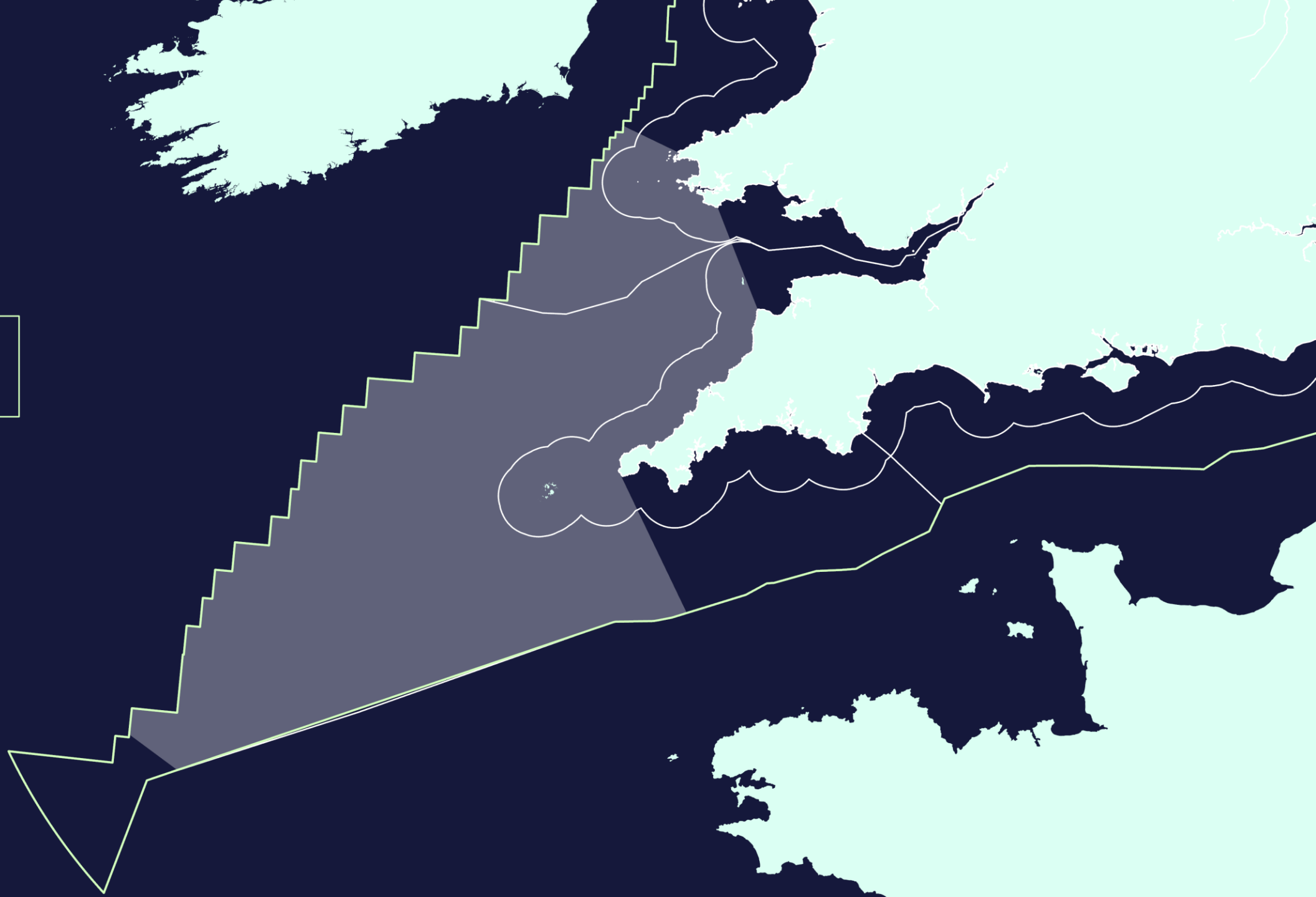
## Spatial modelling



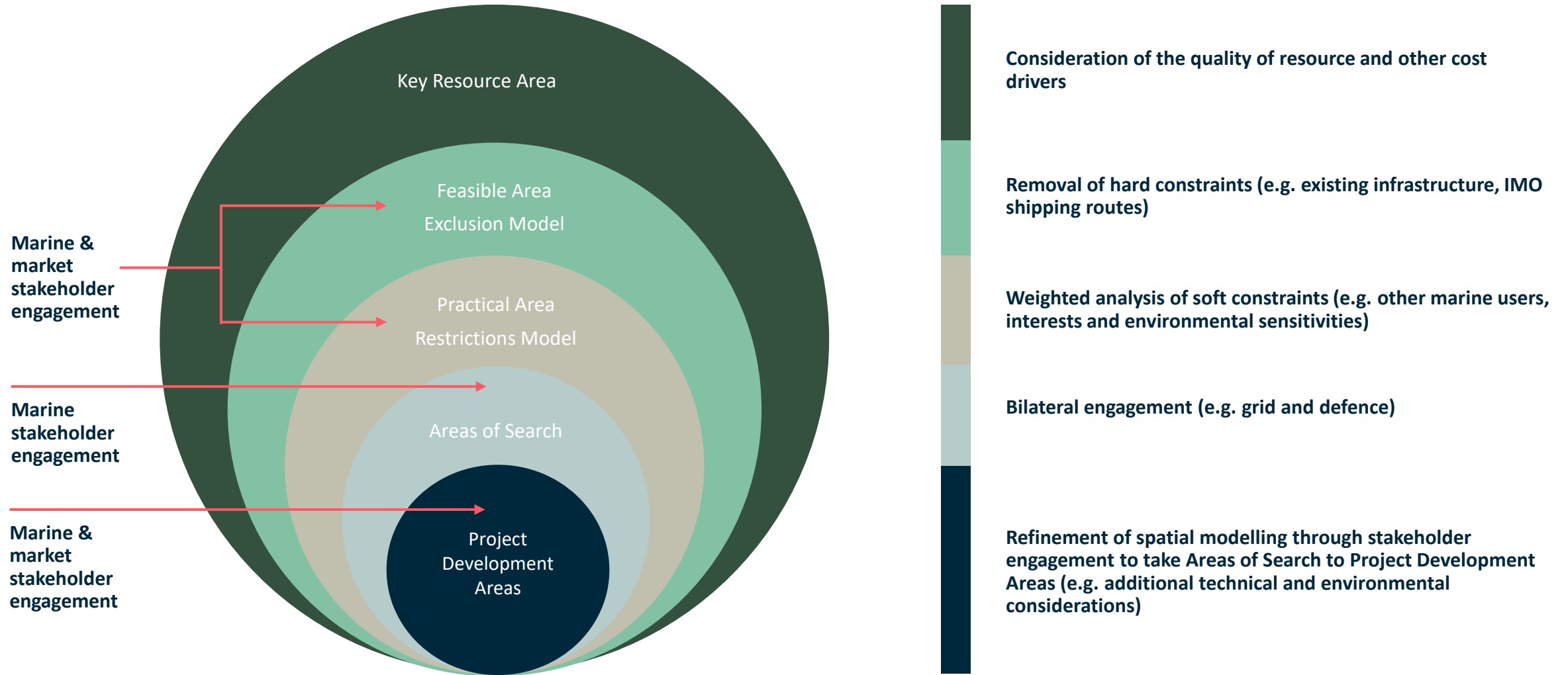
Michelle Moore

Senior Spatial Marine Planning  
Manager





# Spatial opportunity

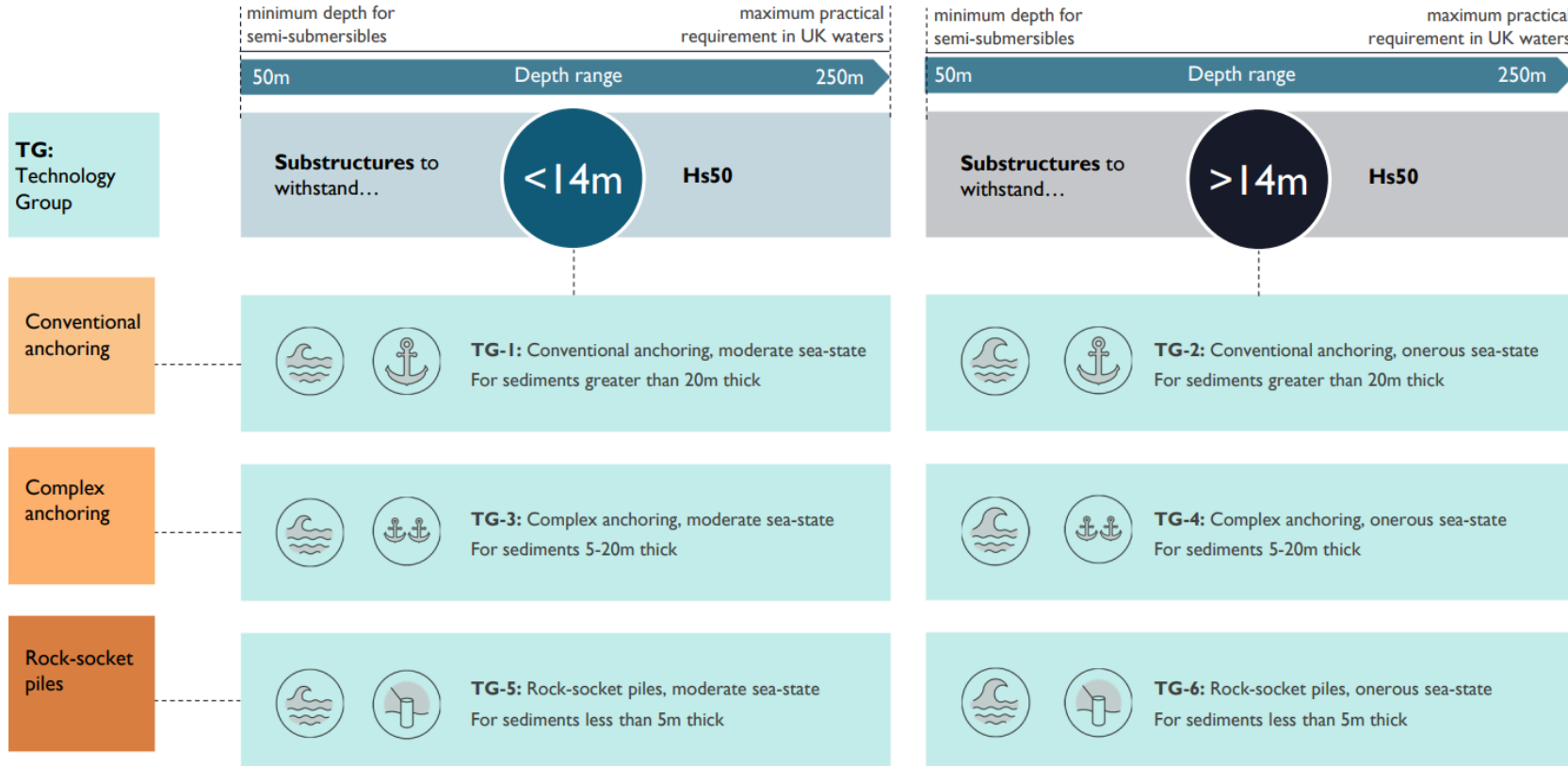
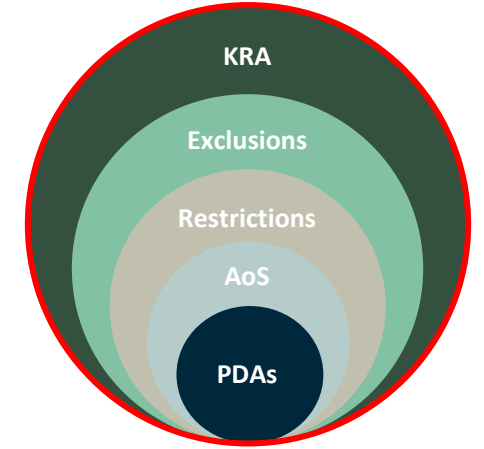




# Key Resource Area

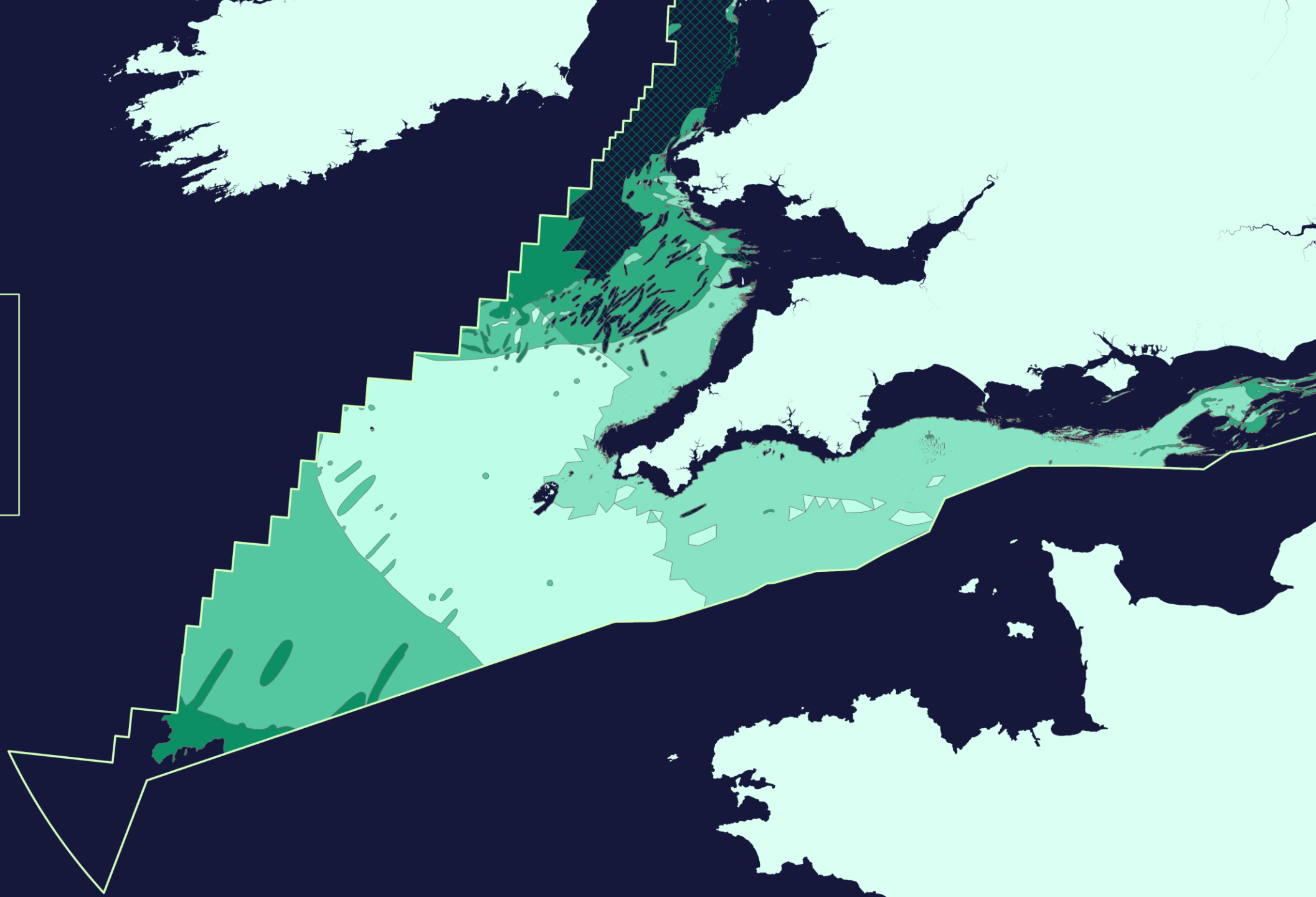
## Broad Horizons Report:

<https://www.marinedataexchange.co.uk/details/2117/2020-everoze-characterisation-of-key-resource-areas-for-offshore-wind-a-report-for-the-crown-estate/summary>



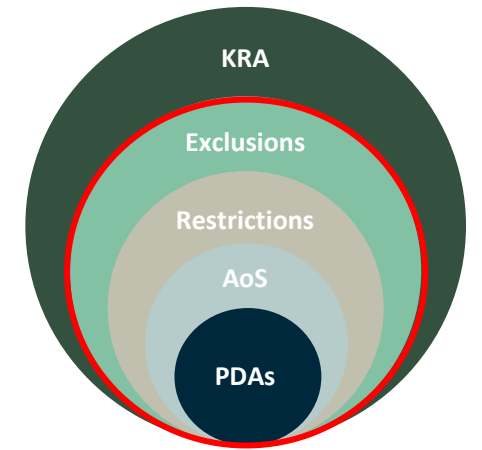
Floating Wind Key Resource Areas

- Technology Group 1
- Technology Group 2
- Technology Group 3
- Technology Group 4
- Technology Group 5
- Technology Group 6
- Renewable Energy Zone Limit and UK Continental Shelf



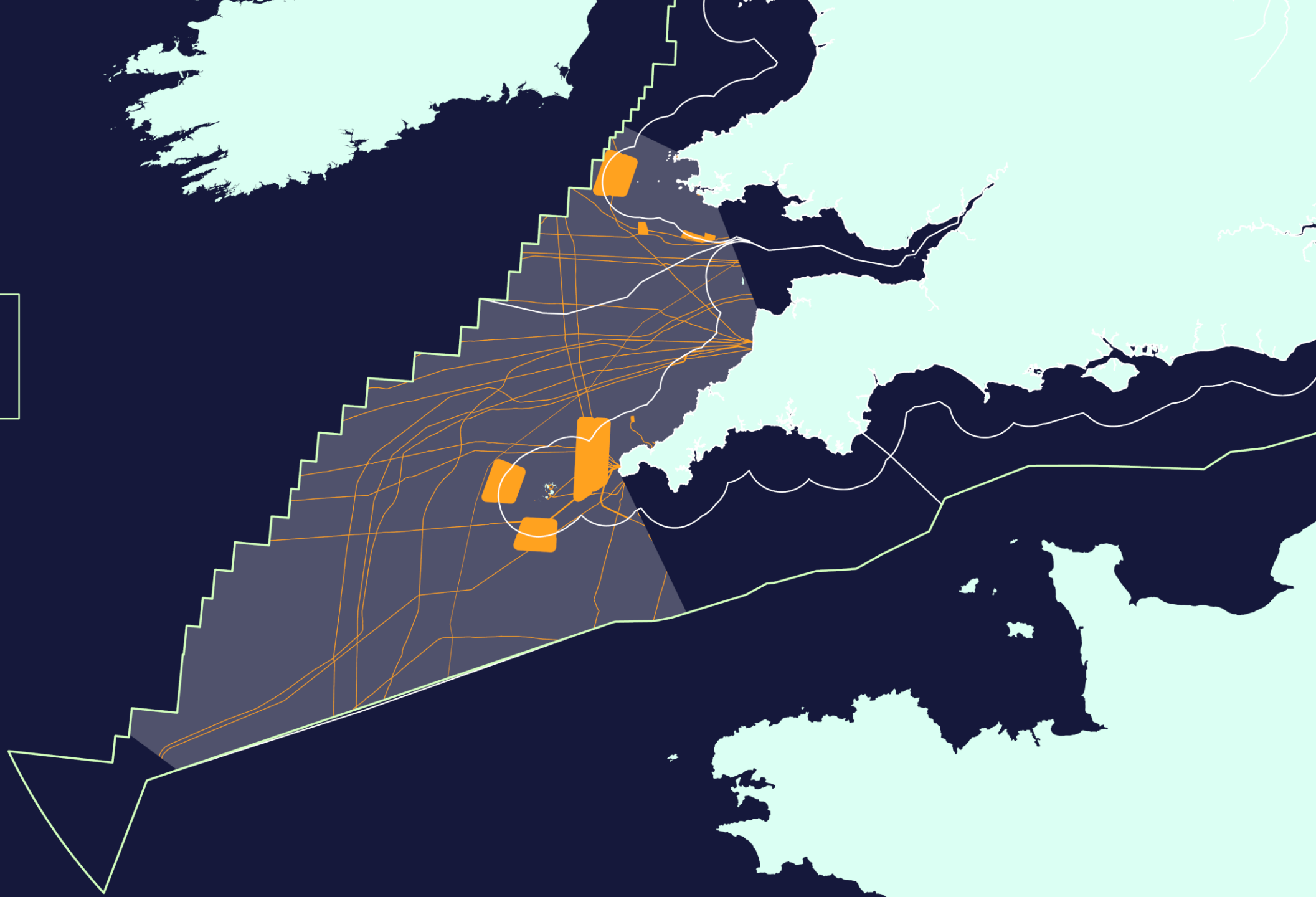
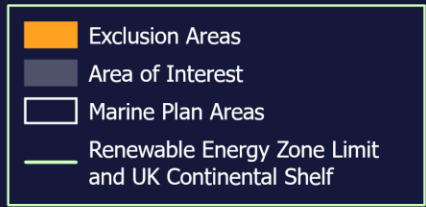
# Exclusion Model

**Hard constraint: Data inputs relating to activities and receptors that currently preclude floating offshore wind development**



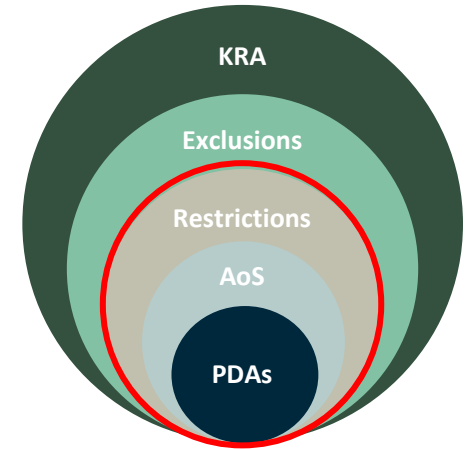
Reasons for exclusion:

1. Existing infrastructure in place that would preclude development
2. Safety reasons would inhibit development
3. Existing rights have been granted over the seabed which preclude development

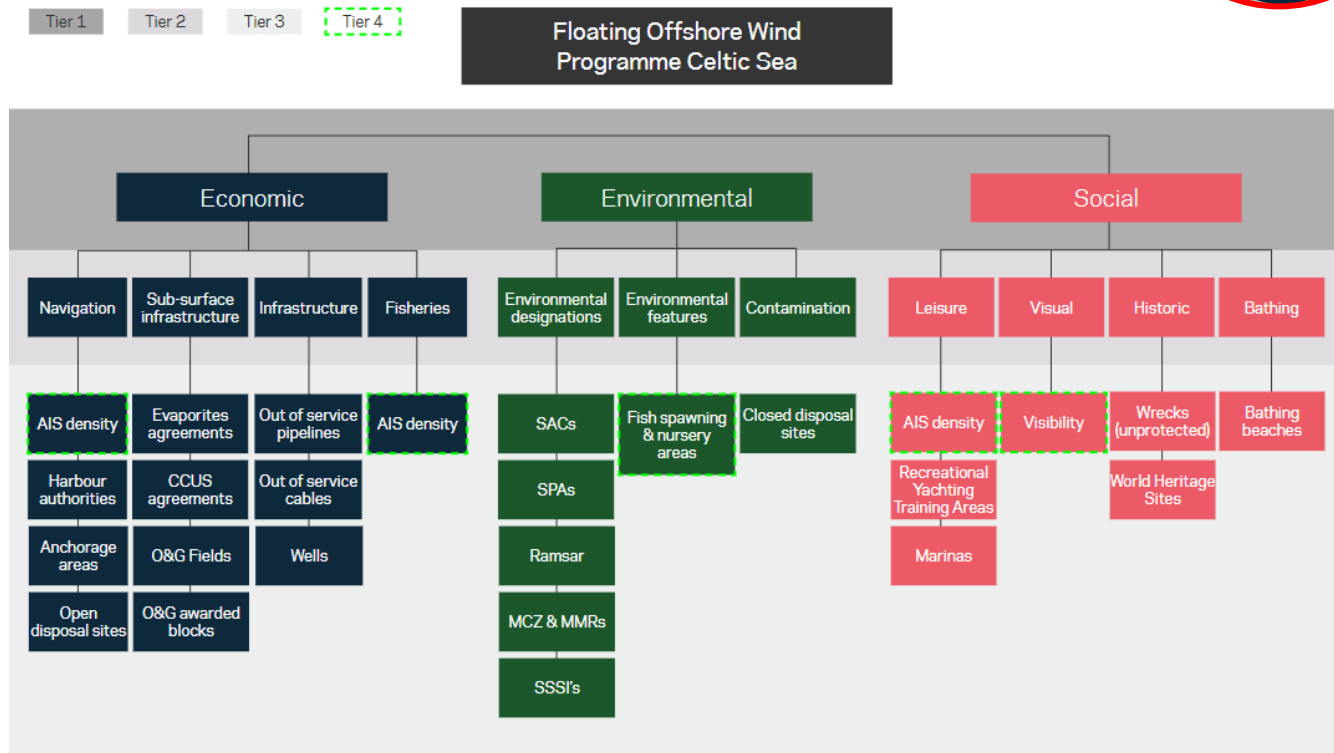
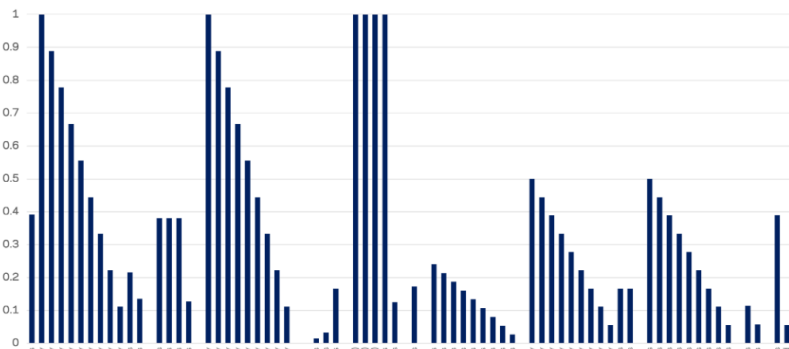


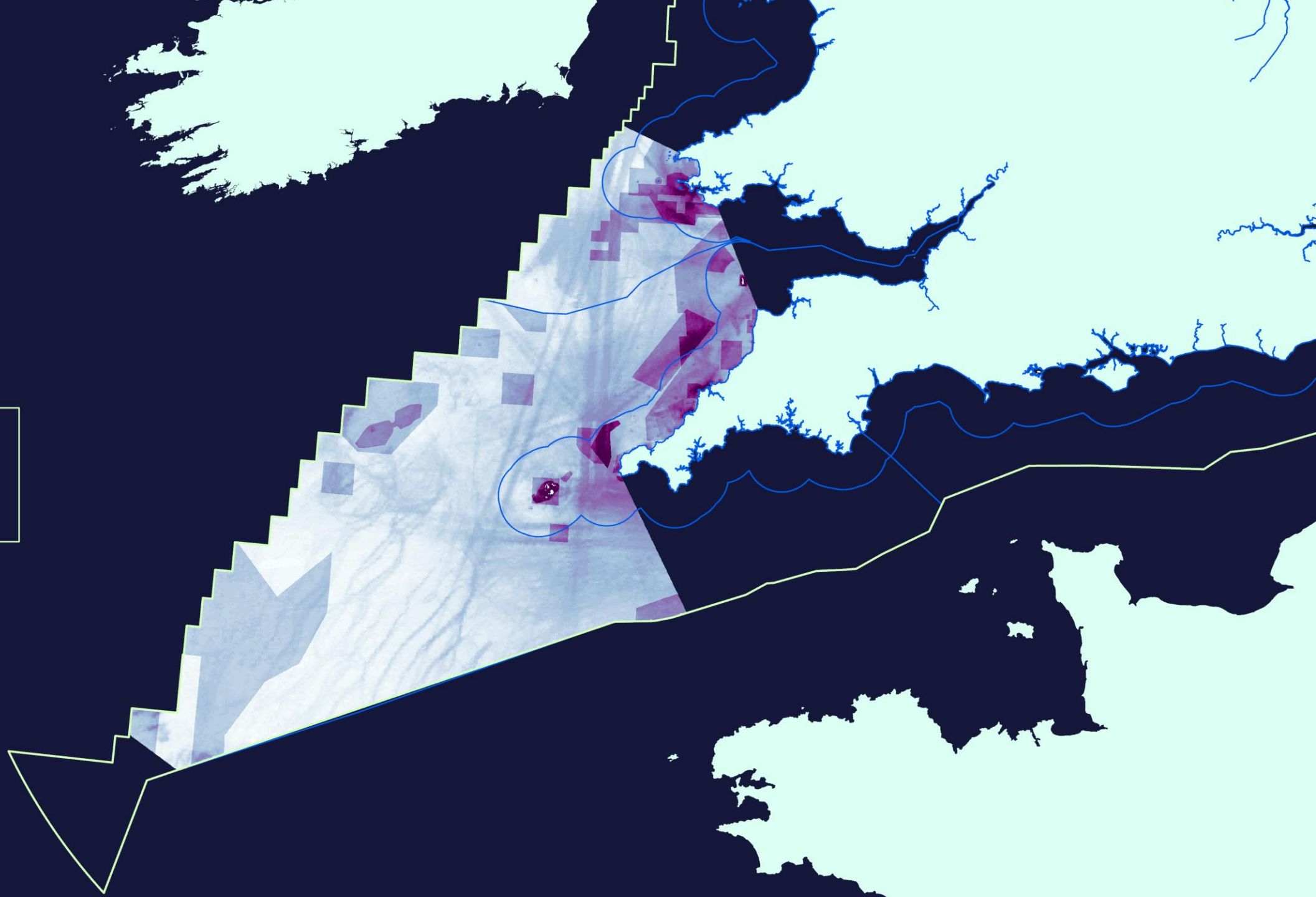
# Restriction Model

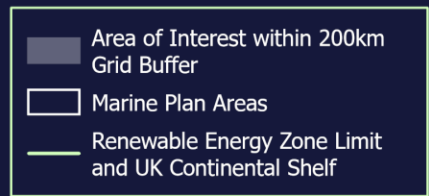
**Soft constraint:** Data on activities and sensitivities that may provide varying levels of constraint on the development of floating offshore wind, but not necessarily preclude development

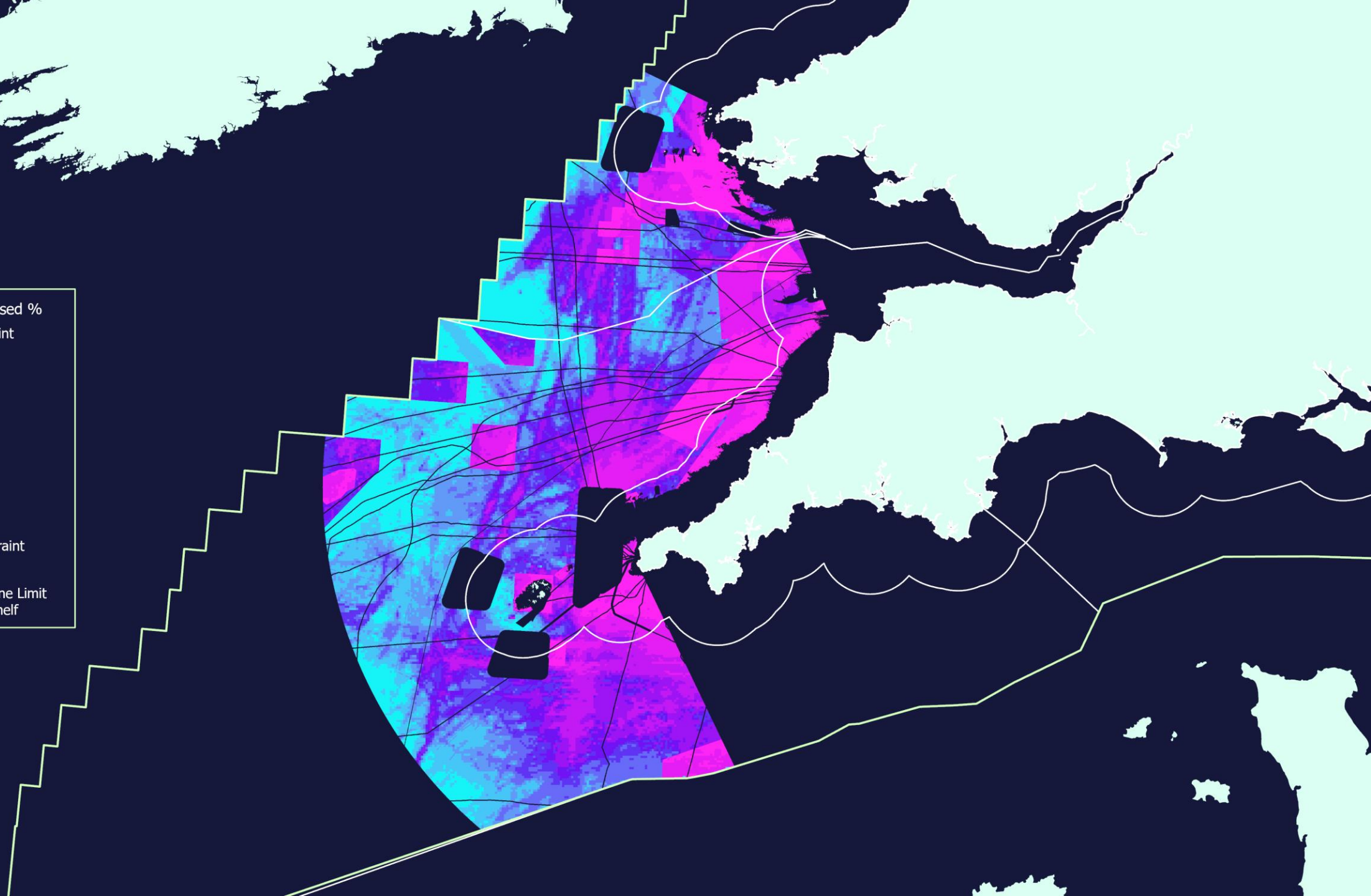


- Marine Resource System (MaRS) tool
- Analytical Hierarchy Process (AHP)
- Pairwise comparisons process ran in the February workshop













# Areas of Search



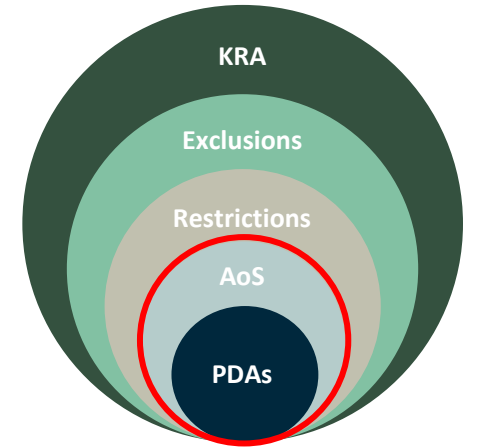
Joe Smithyman

**Marine Resources Manager**



# Areas of Search Identification

Using spatial outputs to drive bilateral engagement on Areas of Search with a wide range of stakeholders across a range of industries, user groups and activities



Areas of Search

- Area 1
- Area 2
- Area 3
- Area 4
- Area 5

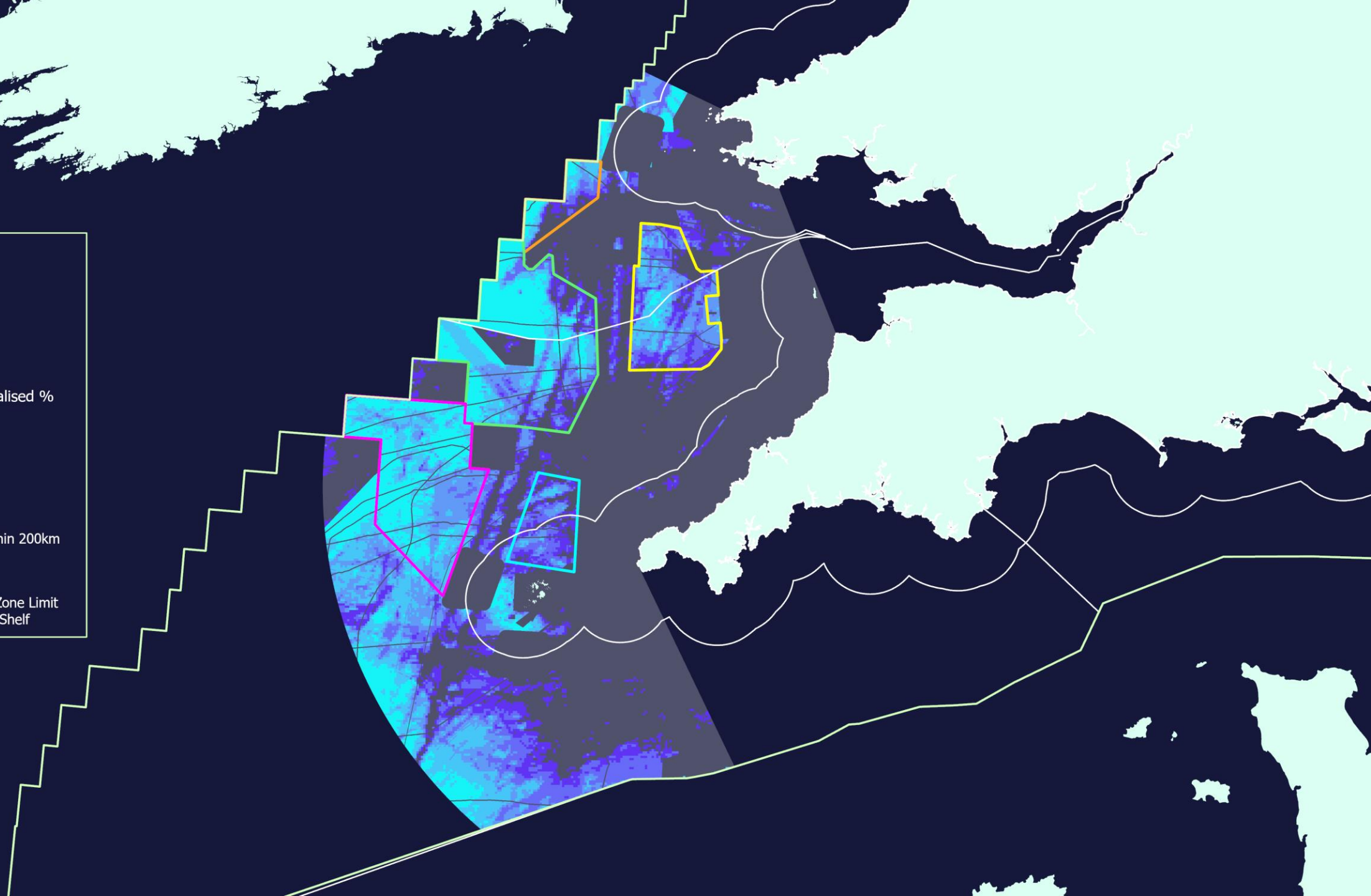
Constraint Class - Normalised %

- ≤10
- ≤20
- ≤30
- ≤40
- ≤50

Area of Interest within 200km Grid Buffer

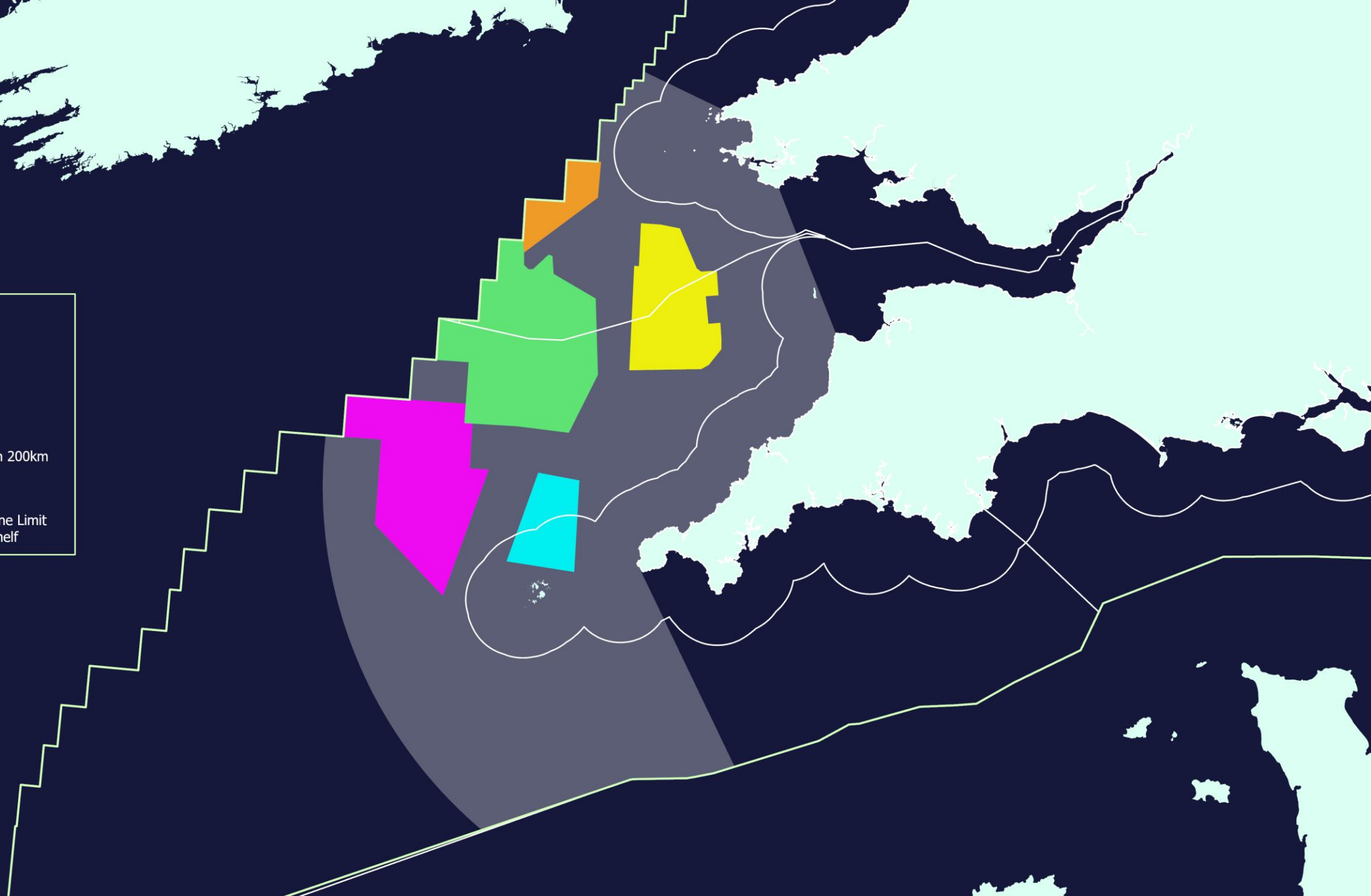
Marine Plan Areas

Renewable Energy Zone Limit and UK Continental Shelf



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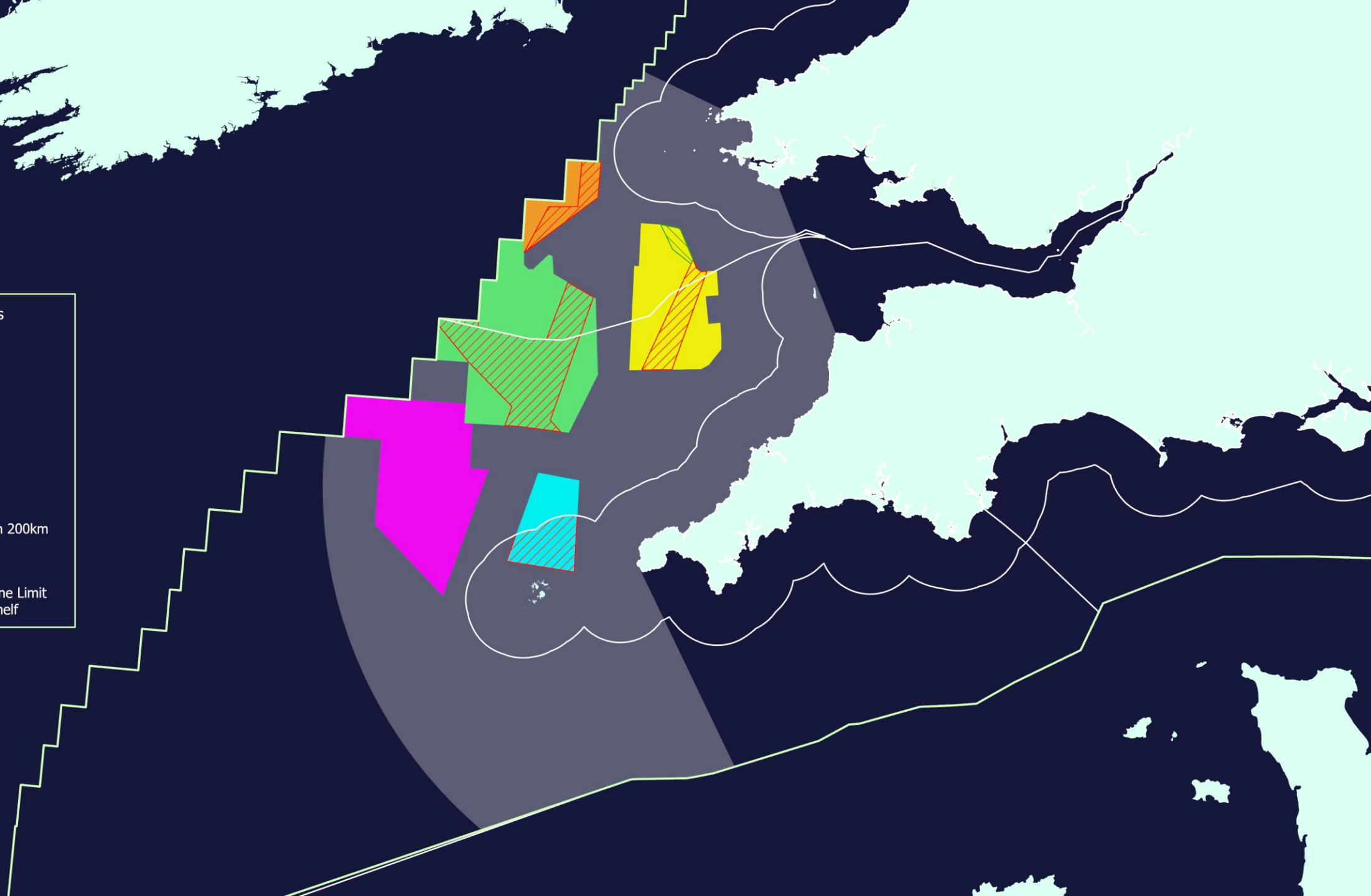


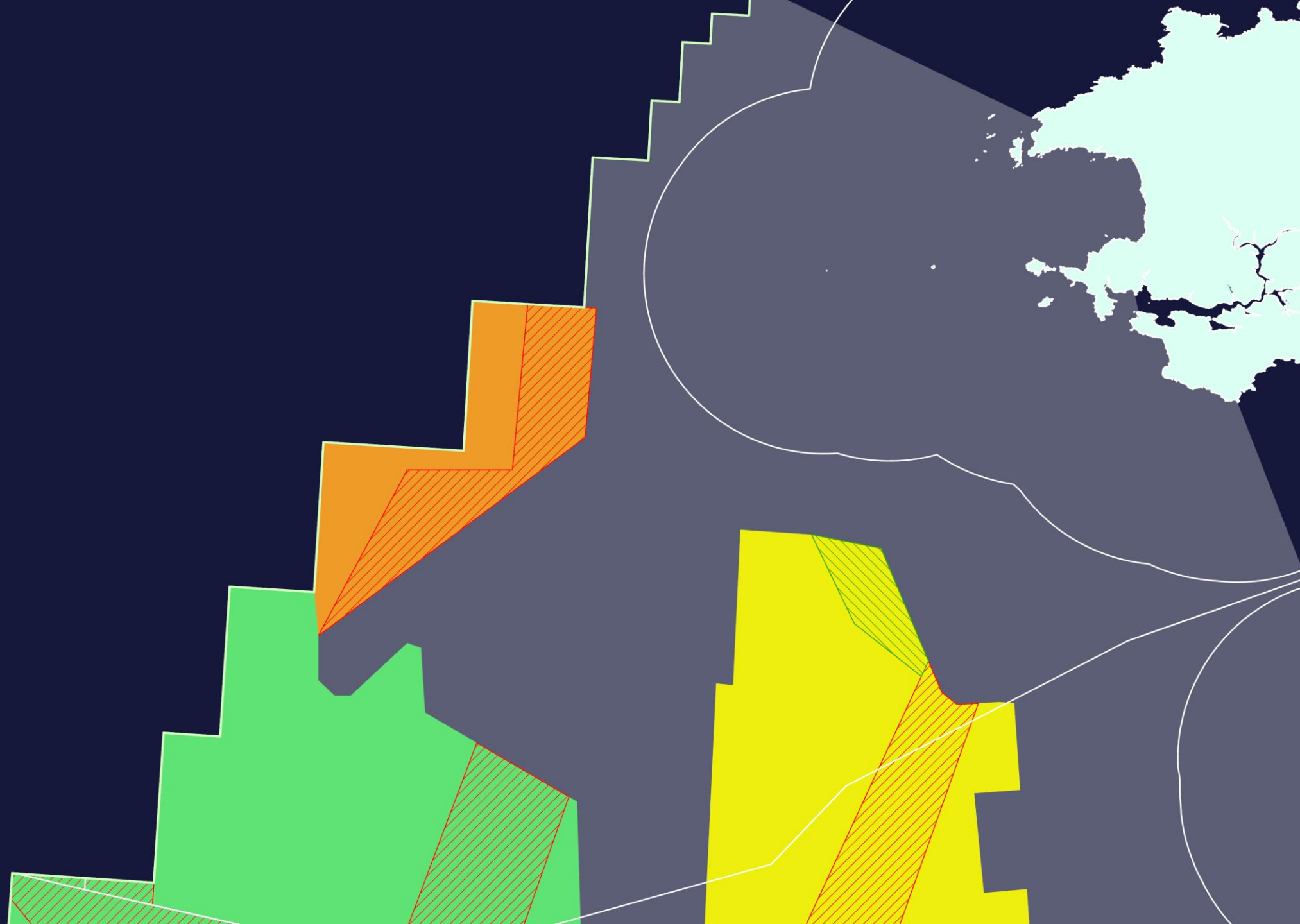
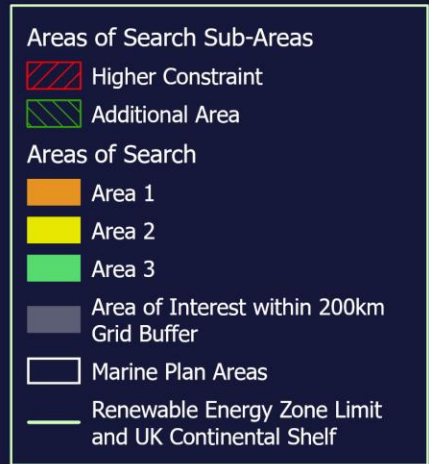
Areas of Search Sub-Areas

- Higher Constraint
- Additional Area

Areas of Search

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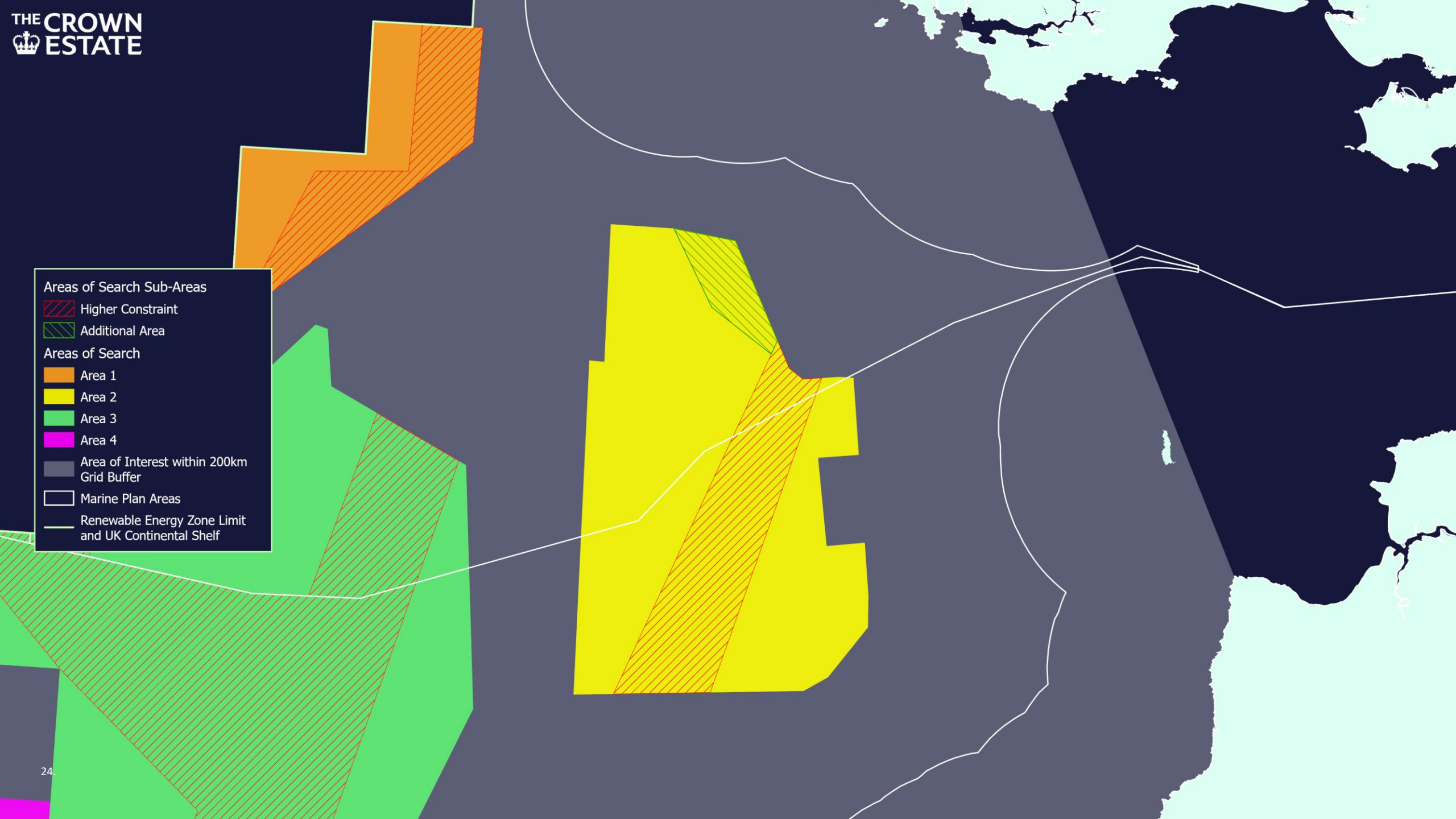


Areas of Search Sub-Areas

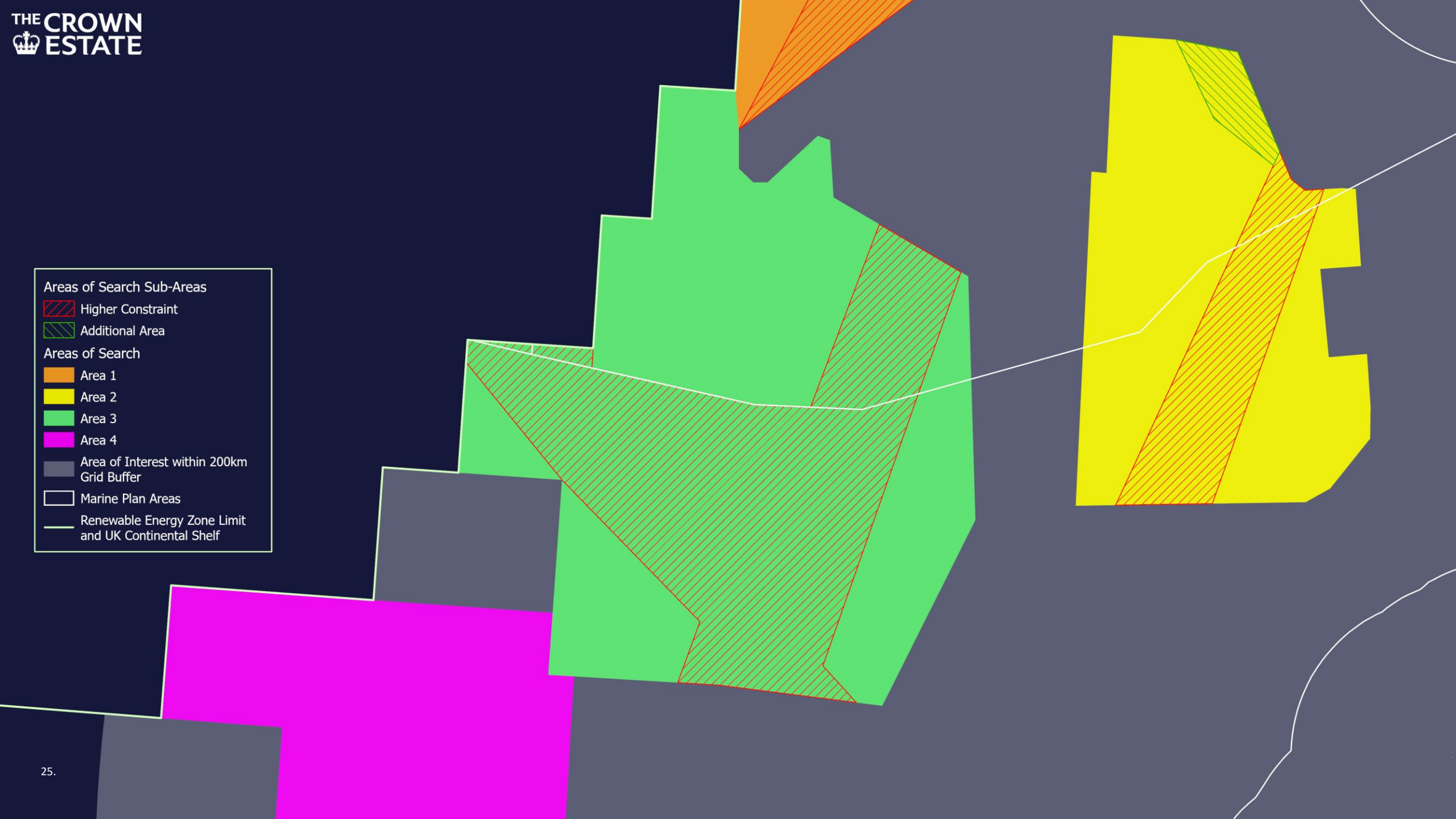
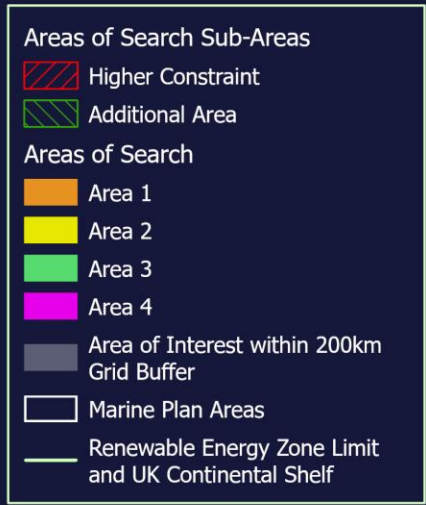
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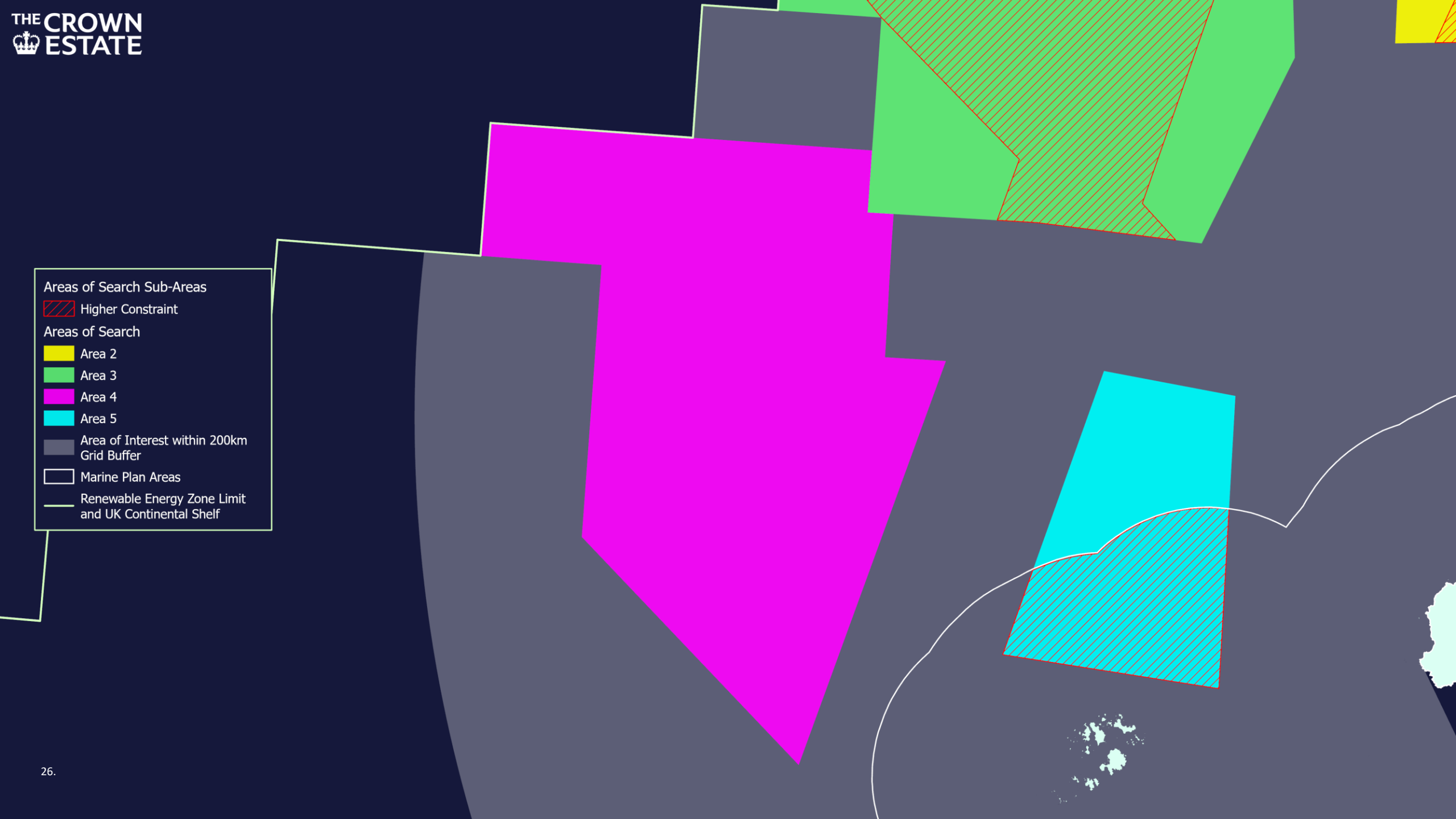


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Areas of Search Sub-Areas

 Higher Constraint

Areas of Search

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 Area 5

 Area of Interest within 200km  
Grid Buffer

 Marine Plan Areas

 Renewable Energy Zone Limit  
and UK Continental Shelf

# Habitats Regulations Assessment



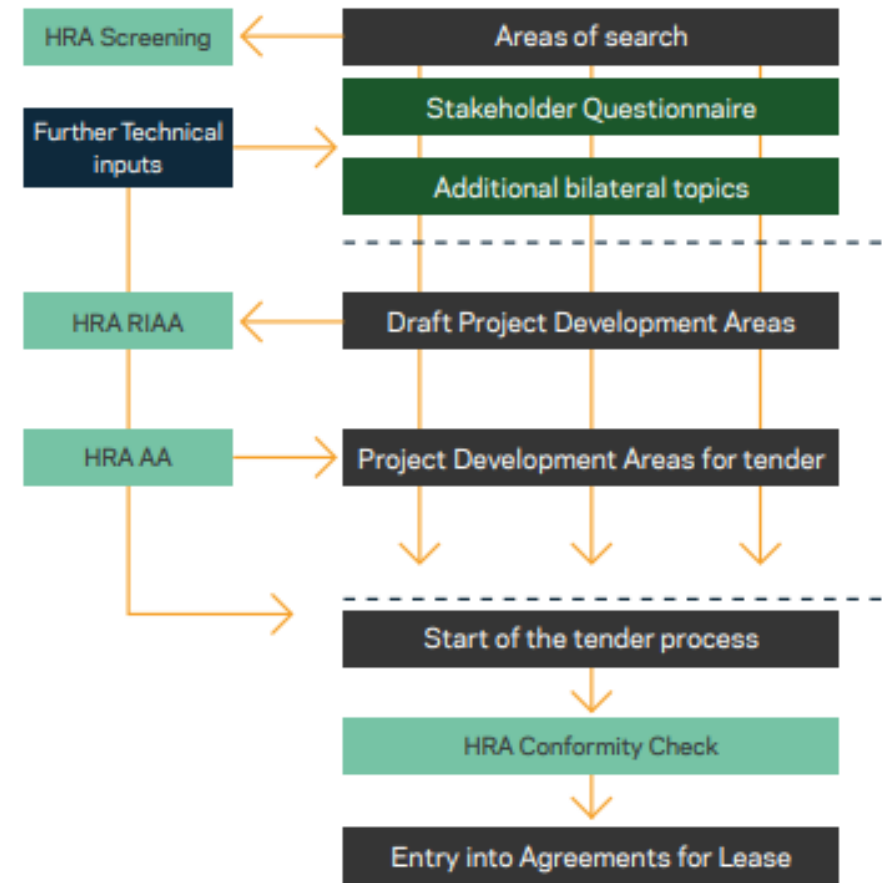
Sion Roberts

Marine Consents Manager



# Spatial Design and HRA Approach

- The Crown Estate is a Competent Authority under the Habitats Regulations\*
- We therefore conduct a plan-level Habitats Regulations Assessment (HRA) for any leasing/licensing activity that constitutes a 'plan'
- This will assess the plan's impact on protected sites before seabed rights can be awarded
- HRA will take place before tender commences
- A conformity assessment will be required after the conclusion of the tender to ensure the conclusions of the HRA remain valid when Agreements for Lease are entered into
- We will also undertake a Marine Conservation Zones (MCZ) assessment in line with our obligations under the Marine and Coastal Access Act 2009 to consider the potential impact of our leasing plans on MCZs.



\*Habitats Regulations:- The Conservation of Habitats and Species Regulations 2017 (as amended), The Conservation of Offshore Marine Habitats and Species Regulations 2017 (as amended)

# Next steps



Tim Stiven

Senior Development Manager,  
Marine



## Next steps: we want to hear from you

**Validation of  
our technology  
design envelope**

**Any additional  
data or evidence  
to support further  
refinement**

**Feedback on  
our engineering  
and LCOE  
methodology**

# Next steps: Engaging, identifying areas for development, and tendering





# Further information

**We know that sharing information with one another, providing regular updates and publishing key reports is what will help us achieve our collective ambitions for this region.**

The Crown Estate's website has a wealth of resources and information available:

- [February 2022 workshop outputs](#)
- [Offshore Wind Environment Change Programme](#)
- [Latest press releases](#)
- [Draft site selection methodology](#)
- [Areas of Search story map](#)
- [Areas of Search data viewer](#)
- [Open data portal](#)

The presentations from today's webinar will also be made available on The Crown Estate's dedicated floating offshore wind page: [thecrownestate.co.uk/floatingwind](https://thecrownestate.co.uk/floatingwind)



# Close

## Thank you for your participation.

If you have any questions, please contact us at:

[offshorestakeholder@thecrownestate.co.uk](mailto:offshorestakeholder@thecrownestate.co.uk)

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