Session 14: Inshore Fisheries

Moving aquaculture offshore: The developing landscape and multiple benefits

Presentation to the **Ocean Recovery** Online Conference

21st January 2021

POSEIDON

AQUATIC RESOURCE MANAGEMENT

Moving aquaculture offshore: The developing landscape and multiple benefits

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The developing landscape

- Why move aquaculture offshore?
- The strategic planning framework

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The developing landscape

1. Why move aquaculture offshore?

- Crowded inshore waters
- Vulnerable to terrestrial pollution
- Dynamic and changeable environmental conditions
- Poor flushing rates

Photo: Erik Woolcott / Sea Grown Ltd.

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The developing landscape

2. The strategic planning framework

- English Aquaculture Strategy (2021 – 2040)
- Regional aquaculture strategies
- Marine Plans under the Marine and Coastal Access Act (2009)

English Aquaculture Strategy 2021 - 2040

Final Report

November 2020

SEAFOOD 2040

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The challenges and development needs

- Rapid expansion of economic and conservation activities in English waters
- Case study: Offshore wind farms
- Specific challenges to moving aquaculture offshore

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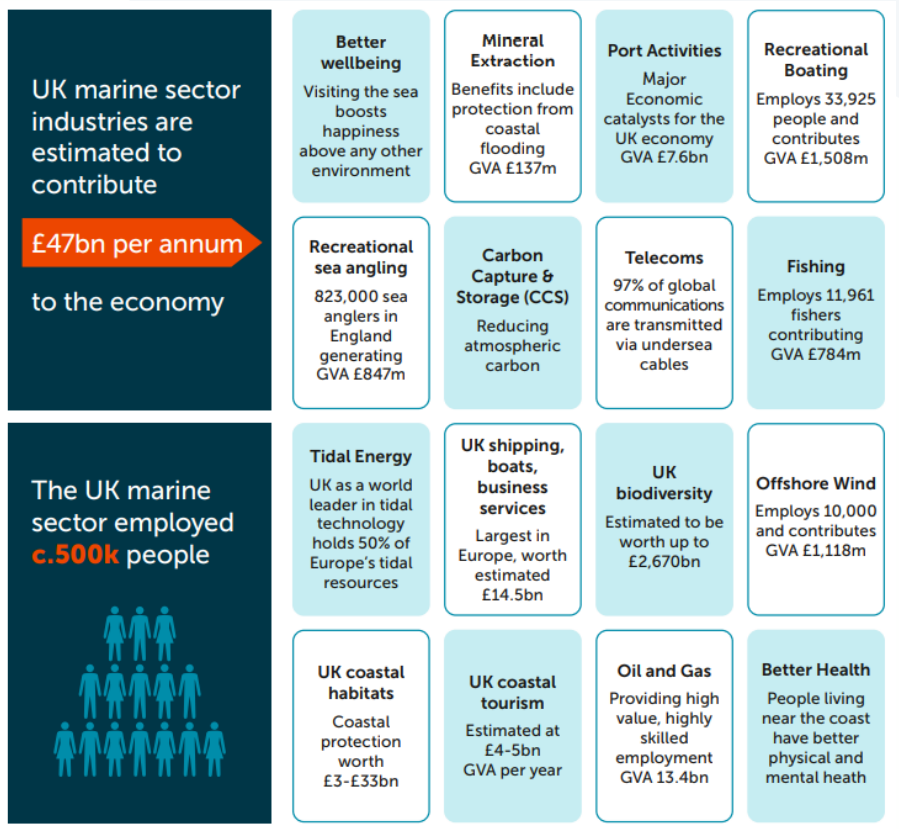
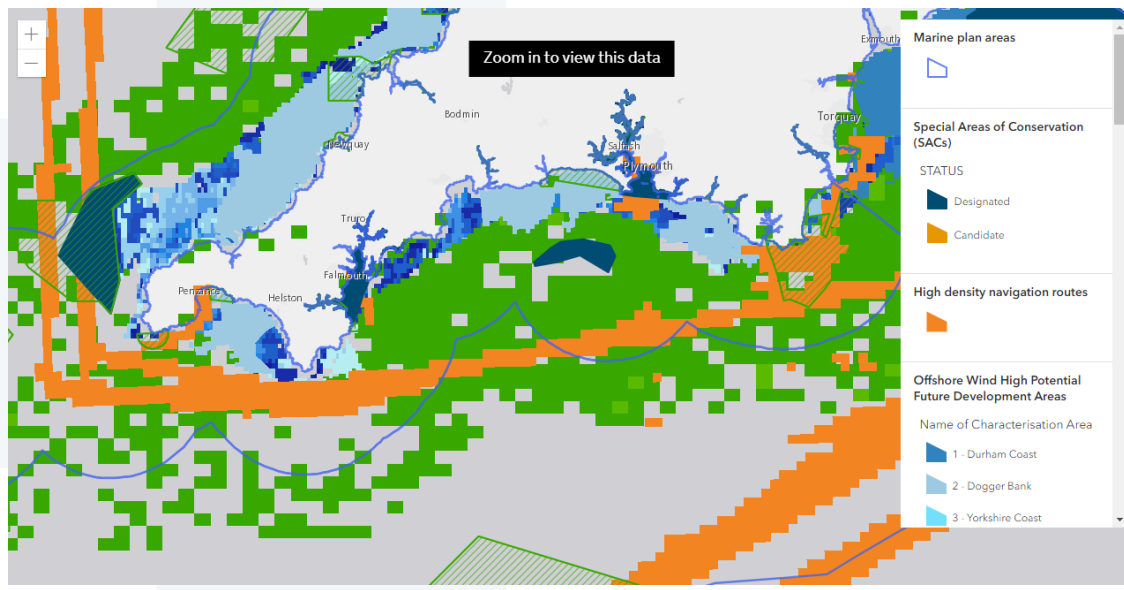
The challenges and development needs

1. Rapid expansion of economic and conservation activities in English waters

- Competition for sea space will become increasingly competitive
- The area set aside for environmental conservation is also set to increase, most likely with greater restrictions for extractive activities therein.





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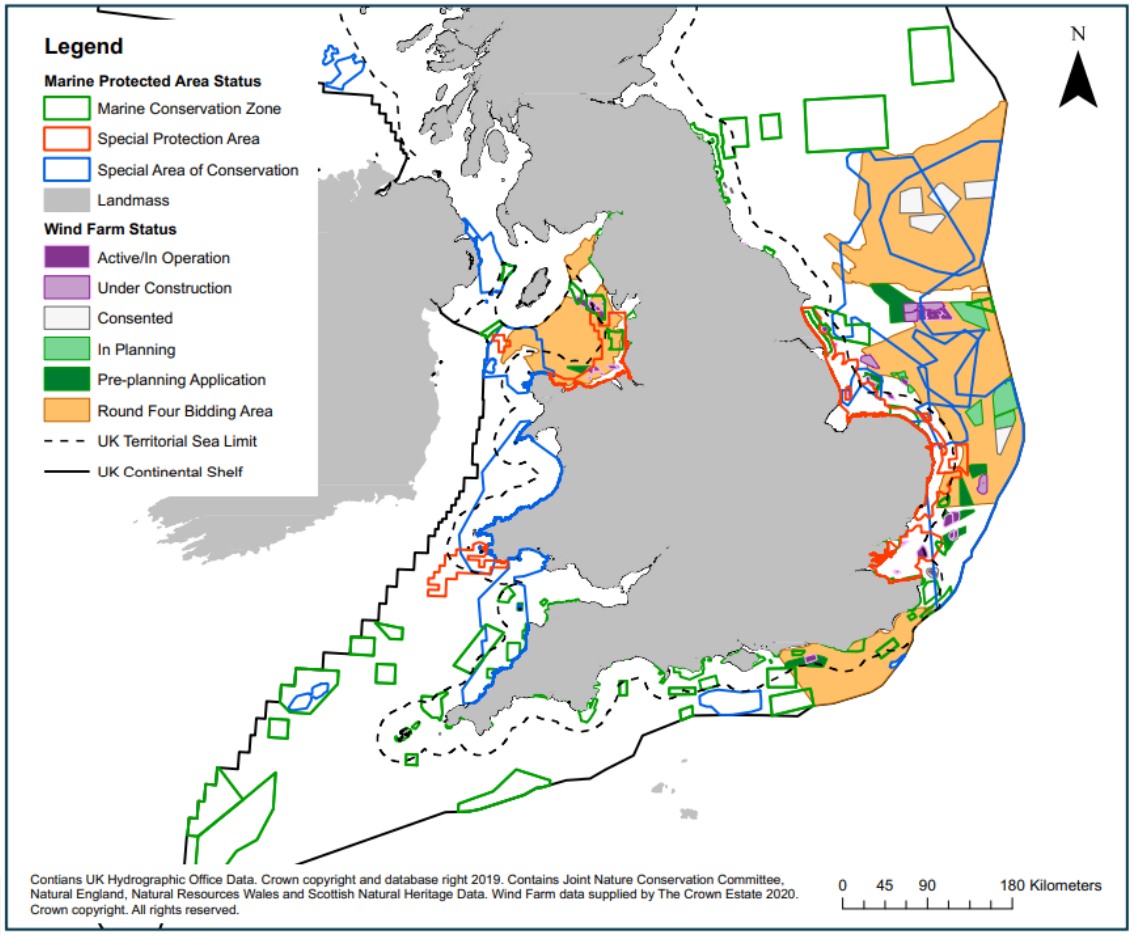
The challenges and development needs

2. Case study: Offshore wind farms

- The Offshore Wind Sector has the ambition to power one third of British electricity with offshore wind by 2030
- Currently mostly focused in the shallower North Sea, but will move deeper and further offshore



Source: Benyon Review Into Highly Protected Marine Areas.

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The challenges and development needs

3. Specific challenges to moving aquaculture offshore waters

- Hostile physical environment
- Logistical challenges
- Lack of knowledge and information

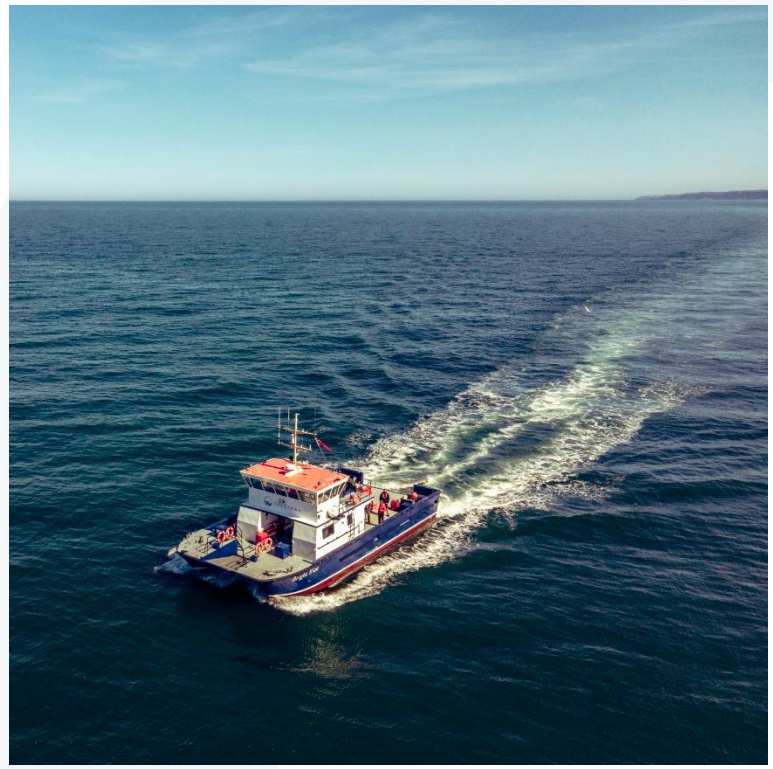

Photo: Erik Woolcott / Sea Grown Ltd.

Approaches, benefits and next steps

- Current and emerging state of art
- Coexistence with other maritime activities
- The way forward

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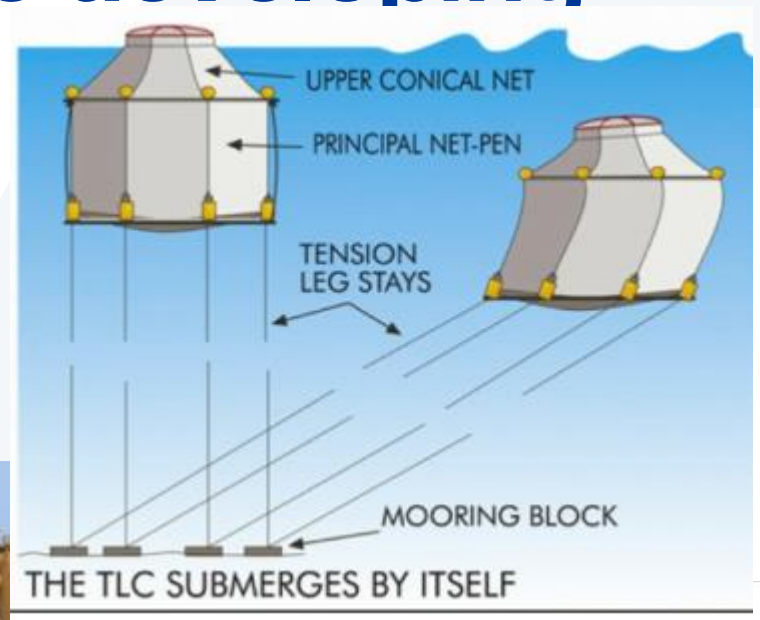
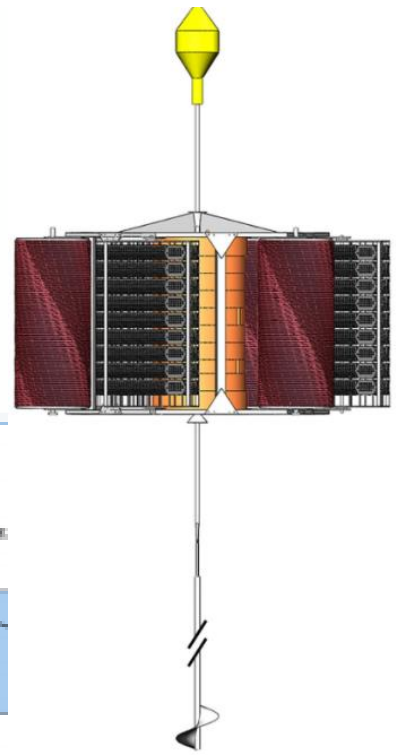
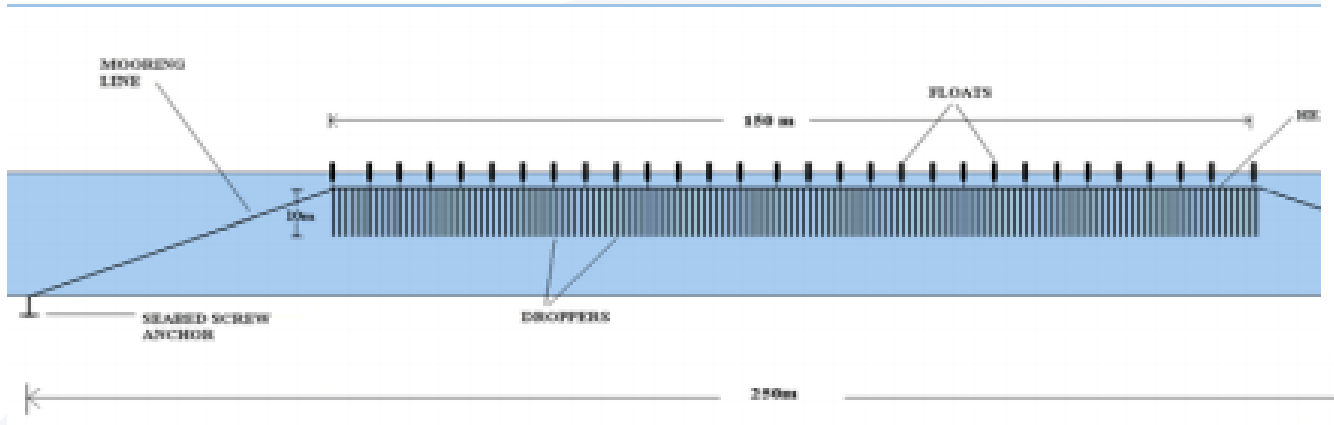
Approaches, benefits and next steps

1. Current and emerging state of art

- Finfish
  - Tension leg cages
  - Submersible & semi-submersible cages
  - Vessel-based farms
- Shellfish and algae
  - Longlines
  - Submerged towers







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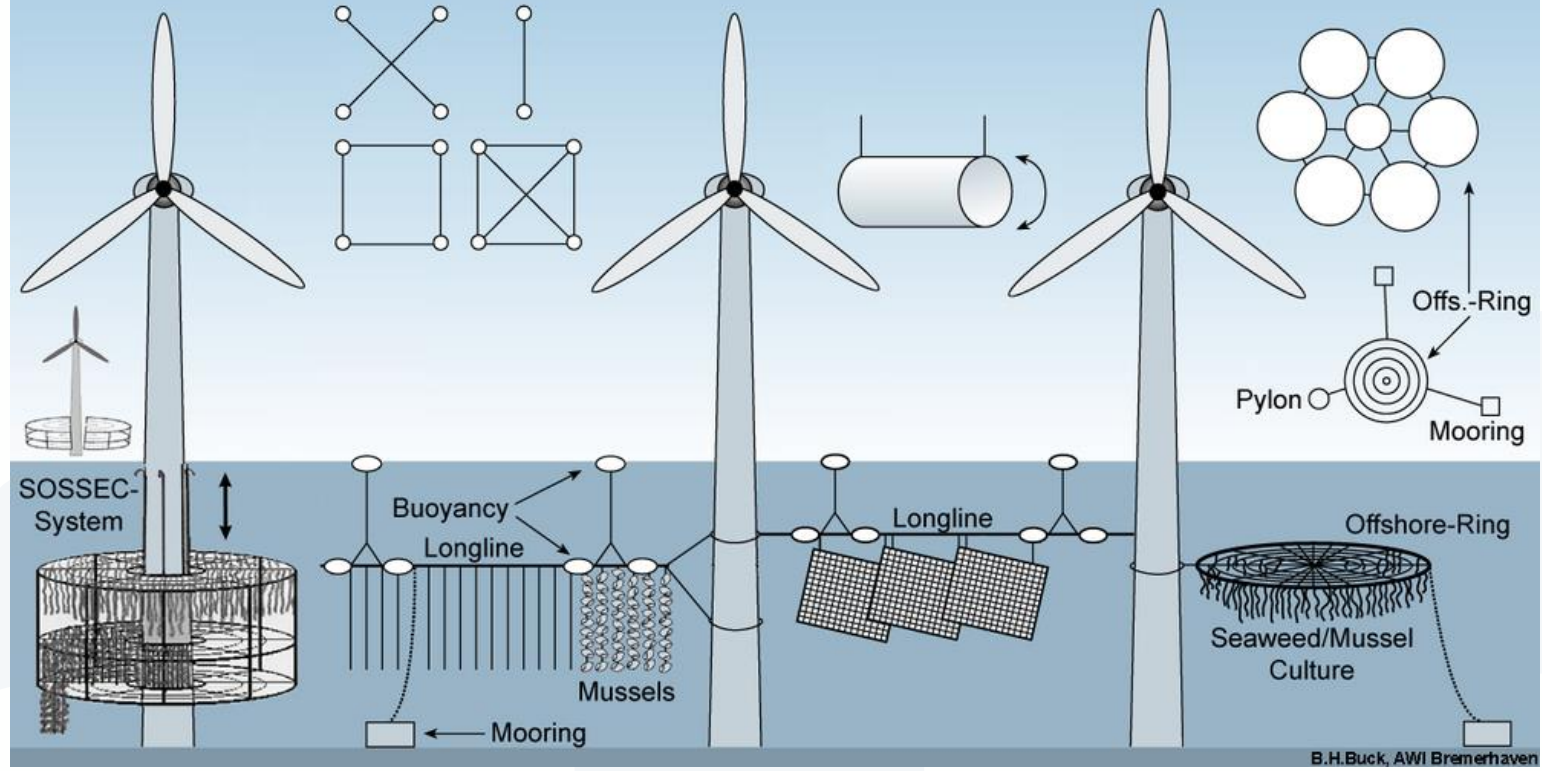
Approaches, benefits and next steps

2. Coexistence with other maritime activities

- Capture fisheries
  - Co-location
  - Stock enhancement
  - Habitat protection
- Renewable energy
  - Co-location
  - CSR

www.marin.nl



https://kennedybrian.wordpress.com

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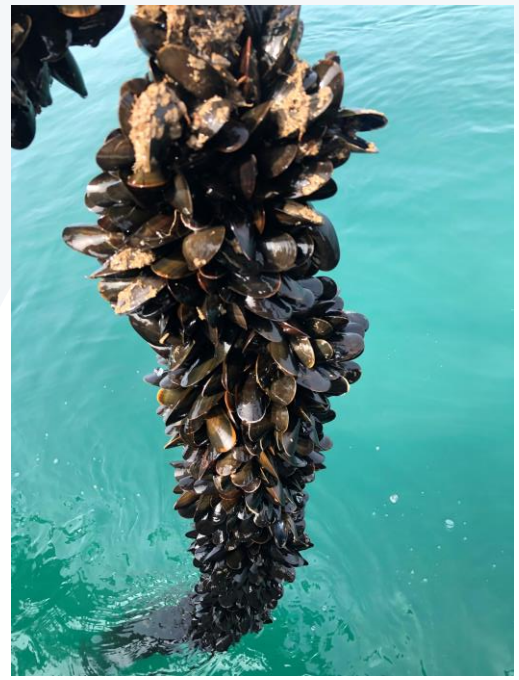
Approaches, benefits and next steps

3. Next steps

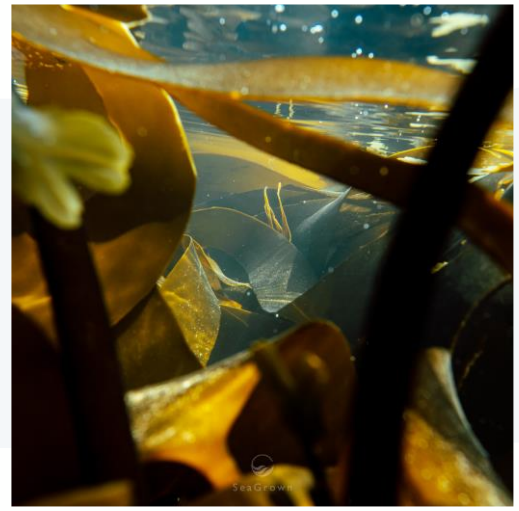
- Support the pioneers
- Build alliances and partnerships
- Support the development of the English ‘Blue economy’



Offshore Shellfish Ltd.

Dorset Coast Forum / Butterfly Effect Films / Dorset Cleaner Fish

Erik Woolcott / Sea Grown Ltd.



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