



# German Pilot: BLUE MUSSELS, SEAWEED AND OFFSHORE WIND RESEARCH

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# Overview

- *Introduction*
- *Regulatory and planning challenges in the German Pilot*
- *Which regulations or planning guidelines are necessary for future projects?*
- *Way forward: What is needed for a role-out in Europe/Germany?*



# Introduction



## Aim

- Assess the technological, environmental and financial feasibility of offshore seaweed and mussel cultivation nearby offshore wind parks

## Pilot Location

- 80 km west of Sylt next to the OWP DanTysk
- Hydrodynamic conditions: 1 m/s current, 18 m maximum wave height
- FINO3: Helicopter platform, power supply and internet connection for remote monitoring

## Experienced Synergies – UNITED and FINO3

- Sharing logistics, transport, planning and maintenance
- Monitoring and surveillance

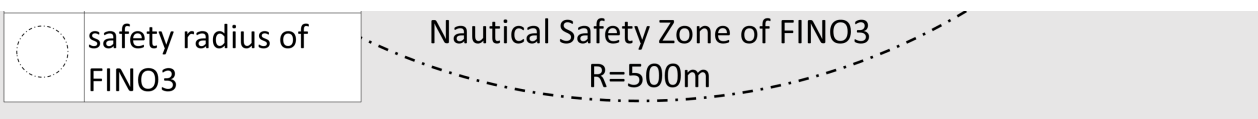
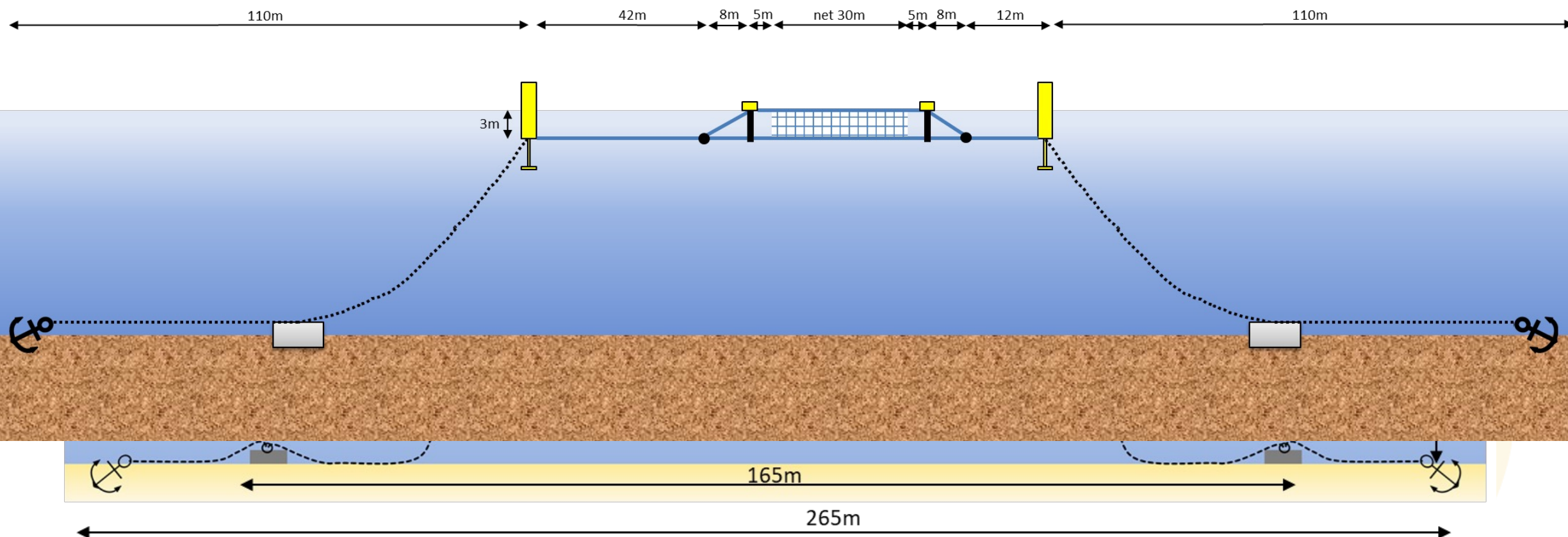




# Introduction



## Seaweed System

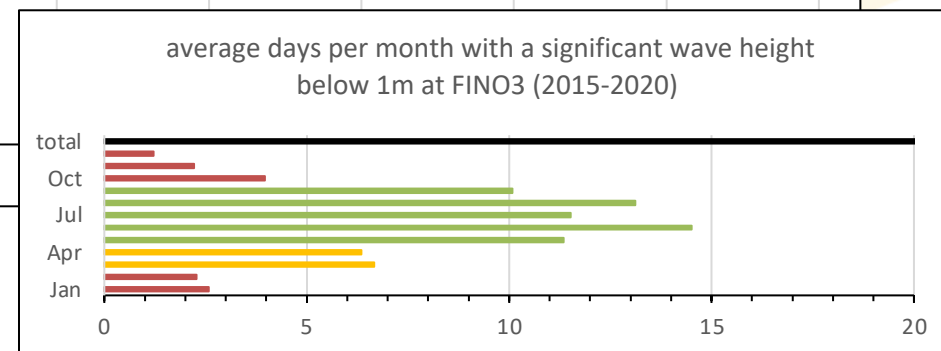
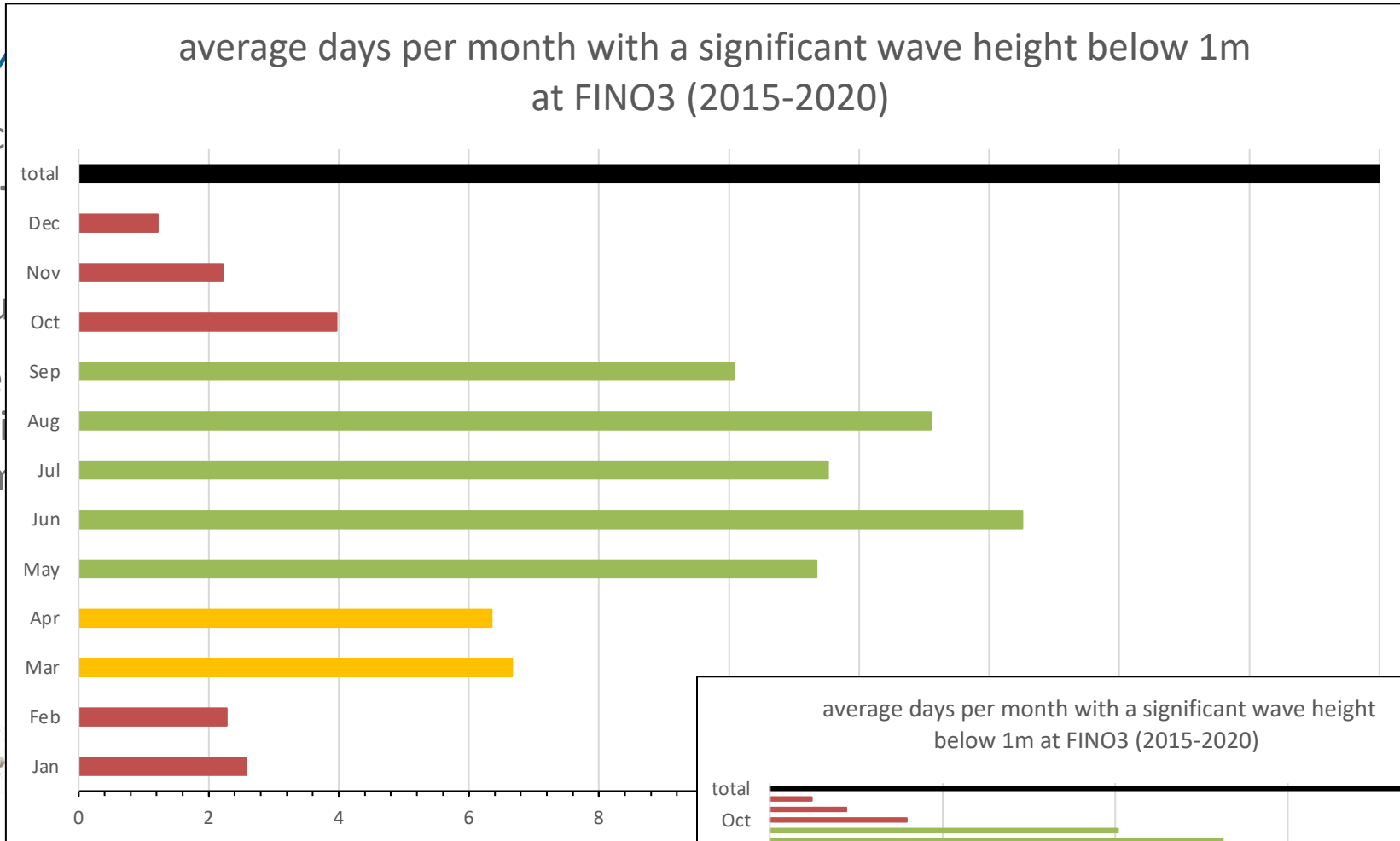
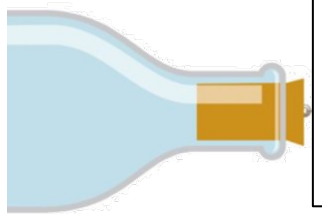


# Regulatory and planning challenges

## Regulatory

- Prolonged lic installations - Germany

- Many qu
- Increase authoriti requirem



ts/services

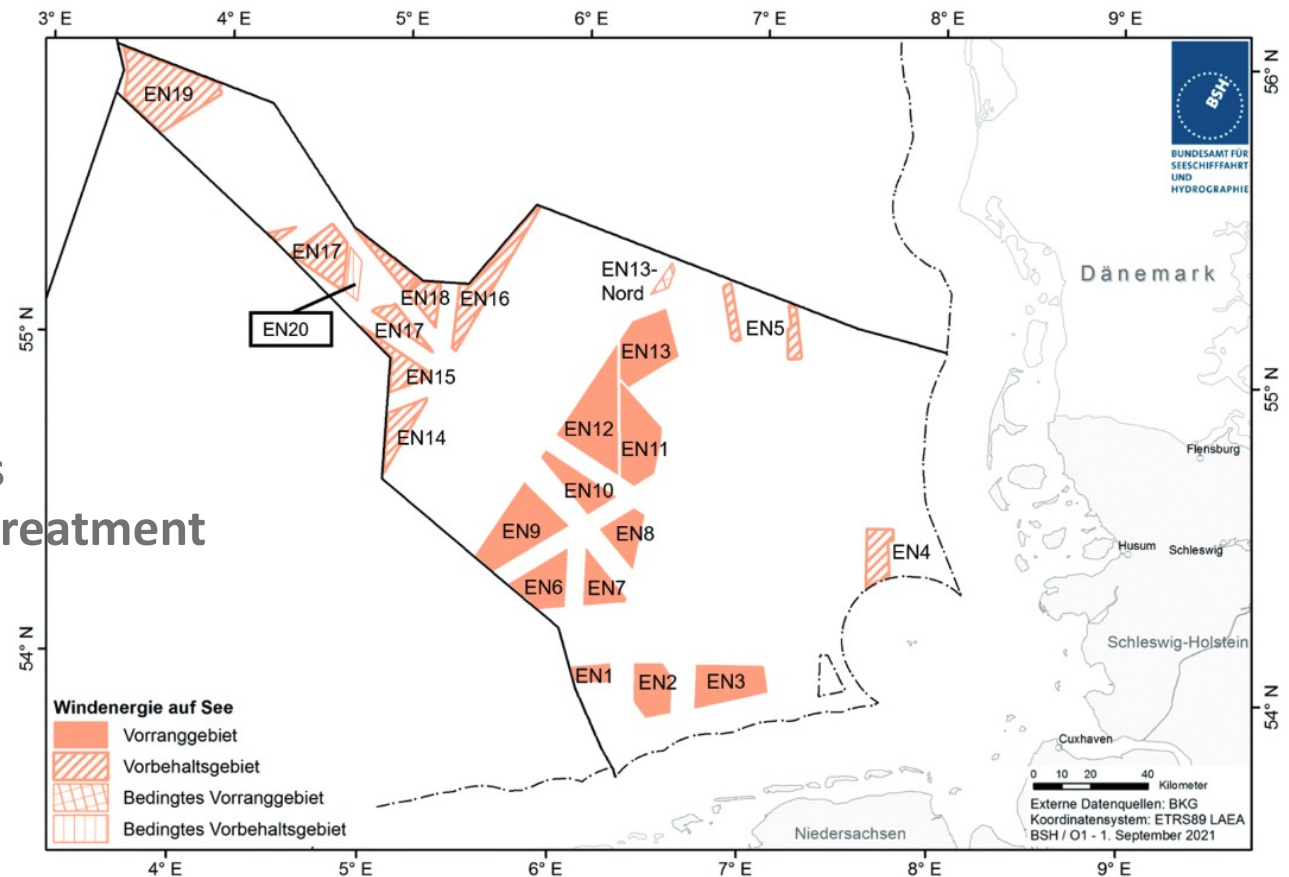
and partners

trips had to

# Which regulations or planning guidelines are necessary for future projects?

- Including Multi-Use with aquaculture in general
  - Current spatial plan proposes an installation of already existing structures (OWP)
- Guidelines for new buildings of Multi-Use
  - Codes and standards (Eurocode, DNV-GL)
- Explicit areas for Multi-Use purpose are necessary
- **Currently, aquaculture or other co-use parties are only seen as piggy bags – no equal treatment**

Where to go?



# Way forward: What is needed for a role-out in Europe/Germany?

## *Research and Development*

- Larger Pilot scales to highlight synergies, benefits and potential downsides

## *Policy and Regulation*

- Synchronization of marine spatial planning across European Seas
- Explicit encouragement for the development of Multi-Use role-out
  - No more new Single-Use installations
  - At least a combination of two different parties
- Strengthening of all parties involved
  - Support of co-development instead of developing each part alone





*Thank You for Your Attention*





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