



UNITED PROJECT

Key results and recommendations

Ivana Lukic – SUBMARINER NETWORK FOR BLUE GROWTH EEIG



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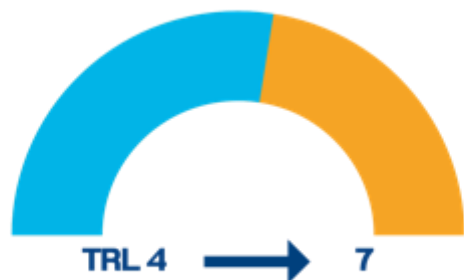
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Building On Lessons To Move Forward

Capitalised on the FP7 Oceans of Tomorrow, European Horizon 2020, and national projects to make a leap to practical demonstration

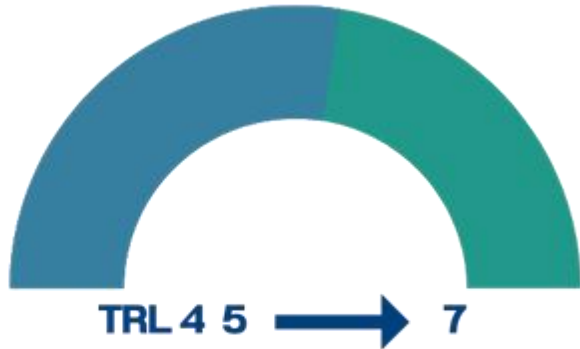


UNITED Achievements

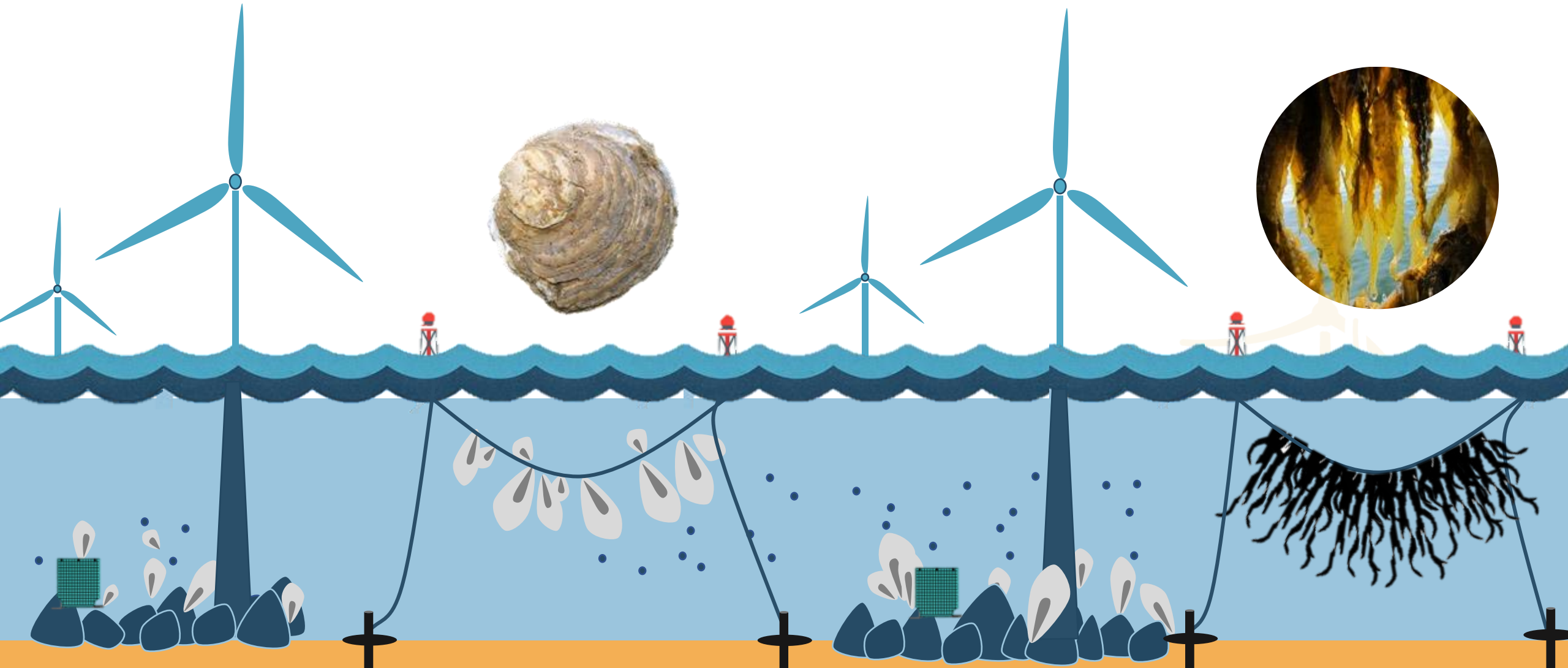


BELGIAN PILOT

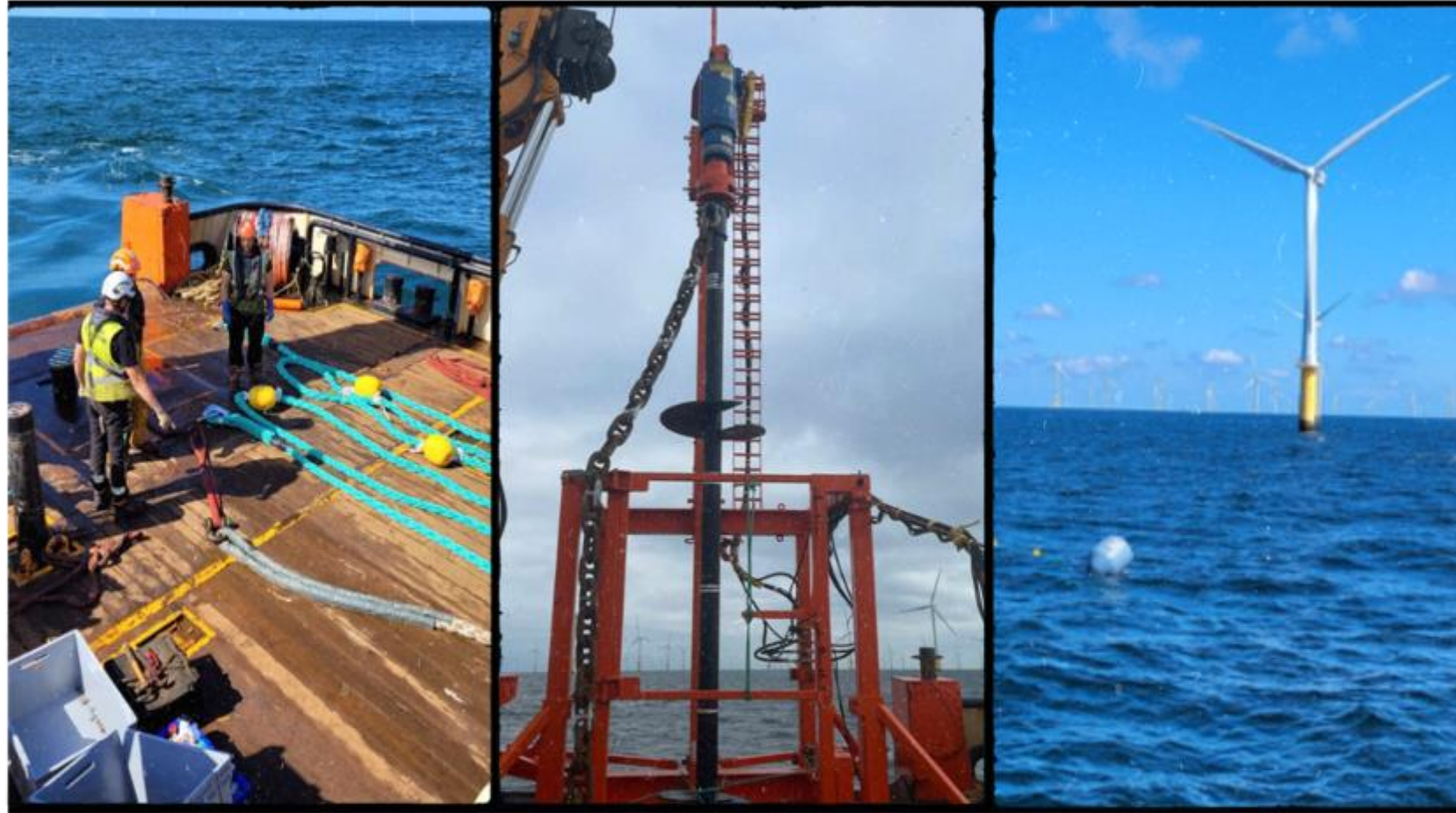
- 50 km from Belgian coast
- Commercial multi-use site within Belwind



First time to combine oyster & seaweed production and oyster restoration within offshore wind farms



Installation of screw anchor and aquaculture structures



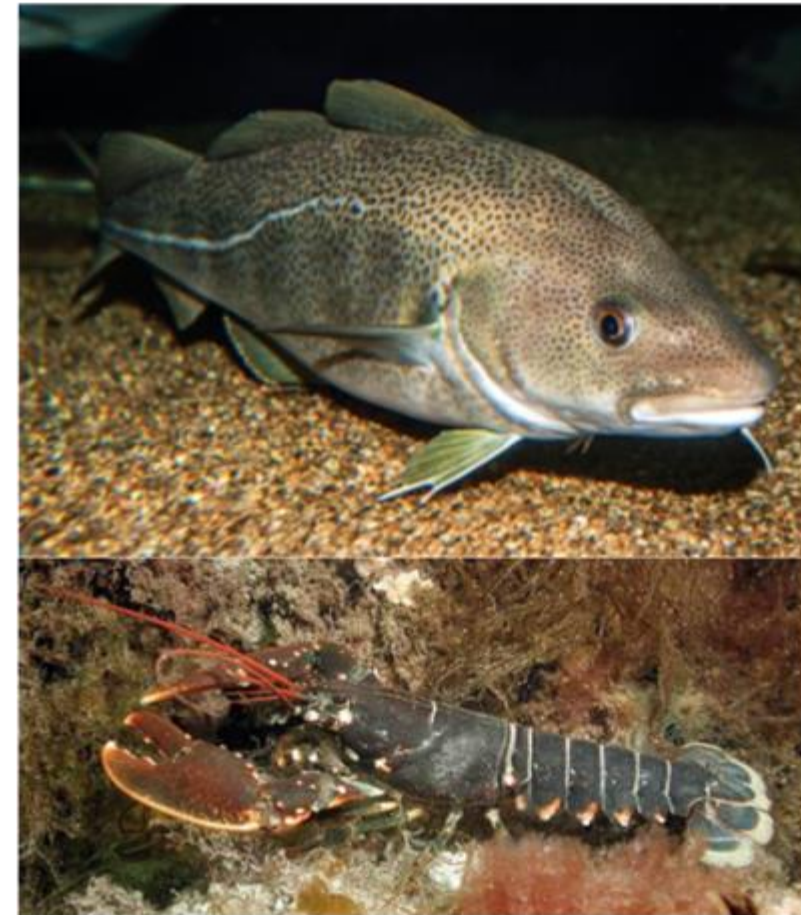
Successful harvest of the seaweed nets



Successful oyster restoration



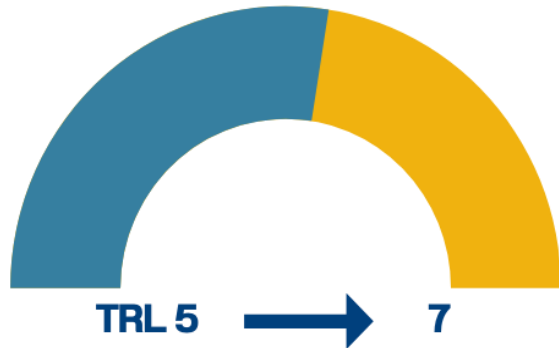
- Tube-building polychaete worms started to form an embryonic reef – promising for future restoration efforts of biogenic reefs
- Restoration efforts also benefited other species such as the Atlantic cod and European lobster



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GERMAN PILOT

- 80 km off the North-German coast (high energy environment)
- FINO3 Research platform



Mussel and Algae offshore cultivation

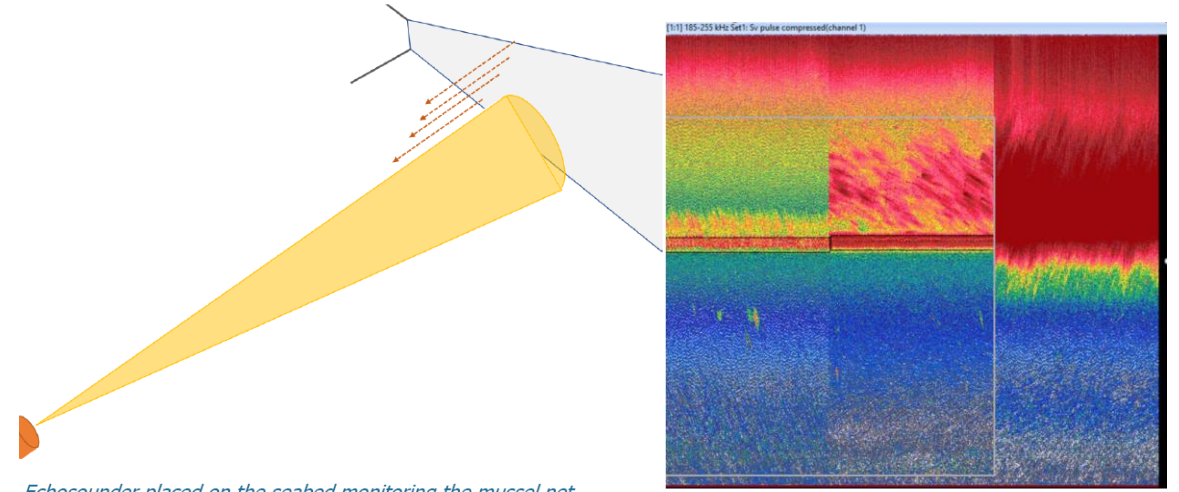
- **Most remote pilot** (80 km Offshore) in the **high energy** North Sea environment (currents, waves, storms)
- **Successful mussel and algae cultivation**



Monitoring and Data collection



- Harbor porpoise and environmental monitoring



- Echosounder monitoring of growth and environment

Results to be taken up in MSP revision

School project

- Growing Kelp with local High School

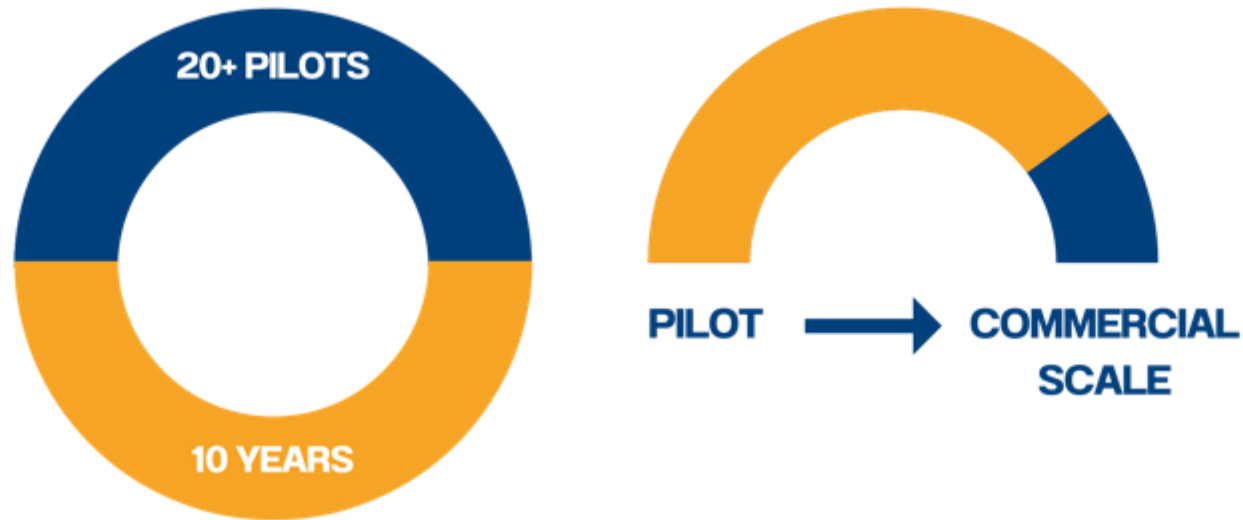


LERNWERFT

CLUB OF ROME SCHULE KIEL



Multi-Use over the years...



Are we ready to transition from pilot to commercial scale?

SUBMARINER
TROPOS
MERMAID
MUSES
WIN@SEA
WIER&WIND
UNITED
MUSICA
MULTI-FRAME
ULTFARMS
OLAMUR

...



May 17th 2021

POLICY BRIEF

Key Findings for multi-use pilots in terms of legal, governance, and insurance

visit United website

Authors:
David Bergman, Frank Marx, Wayne Roberts and Margaret Tisdale
University of Stirling

Editors:
Hans Lidsky, Agneta Gonzalez
Sustainable Research for Blue Growth (SRBG)

POLICY BRIEF

Findings and recommendations for pilots in terms of Operation and Maintenance

Authors:
The Netherberger, B & S Service University of Applied Sciences, Kiel, Germany

Editors:
Hans Lidsky, Agneta Gonzalez, Francisco Rivera-Correa
Sustainable Research for Blue Growth (SRBG)

POLICY BRIEF

on the added value of Marine MS-Use within UNITED pilots

Authors:
Marcel Laga - UNU/UNU, Project Leader - UNU

Editors:
Hans Lidsky, Agneta Gonzalez
Sustainable Research for Blue Growth (SRBG)

United Nations University (UNU) and the United Nations Development Programme (UNDP) are pleased to announce the launch of the Sustainable Research for Blue Growth (SRBG) project. The project aims to explore the potential of marine renewable energy (MRE) and other blue economy activities to contribute to sustainable development. The project is led by the United Nations University (UNU) and the United Nations Development Programme (UNDP), with support from the European Union (EU) and the German Federal Government (BfG). The project is currently in its early stages, with a focus on identifying key challenges and opportunities for MRE and other blue economy activities. The project will involve a series of pilots in different regions, with the aim of testing different models of MRE and other blue economy activities. The project will also involve a range of other activities, including research, policy development, and capacity building. The project is expected to run for several years, with the first results expected to be published in 2022.

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NATIONAL LEVEL

Active involvement of farmers and fishers in the MSP process
e.g. Community of practice

Identification of multi-use zones in MSP
e.g. Area Passports in the NL

Regulatory incentives
e.g. non-financial tendering criteria integrating multi-use

Centralised support for the risk assessment data collection
e.g. centralised platform

Clear legal framework for multi-use
e.g. multi-use permitting, combined EIA

Insurance
government backed funds

Governmental financial support / innovative finance
esp. for aquaculture farmers and multi-use that does not generate financial benefits
e.g. nature restoration

Business cases to reach the break even point
e.g. develop premium products

EU LEVEL

Official recognition of multi-use
e.g. in the MSP Directive

Common multi-use principles

Mainstream multi-use in sectoral policies
e.g. EU Restoration Law

Integration of multi-use in regional fora
e.g. North Sea Energy Cooperation, Helcom-Vasab MSP WG

Combined-use related certifications and standards
e.g. ISO



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Multi-Use Roadmap is published

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