BLUE ACTION BANOS

EMPOWERING

SUSTAINABLE TRANSITIONS FOR BALTIC & NORTH SEA BLUE COMMUNITIES

Turning Ideas into Action – Stories from Community Projects
Part 1, 16th of December 2025

Funded by
the European Union

www.blueactionbanos.eu

Agenda

1. **Vision & objectives of BlueActionBANOS and Mission Ocean**
2. **Eligible activities and consortia for BAB funding**
3. **Stories from community projects:**
   - *CoolBlue*
   - *ULTFARMS*
   - *BlueBioClusters*
   - *Saucisse à l'Ostendaise*
4. **Q&A, next steps and closing**

BLUE ACTION BANOS

Vision & objectives of BlueActionBANOS and Mission Ocean

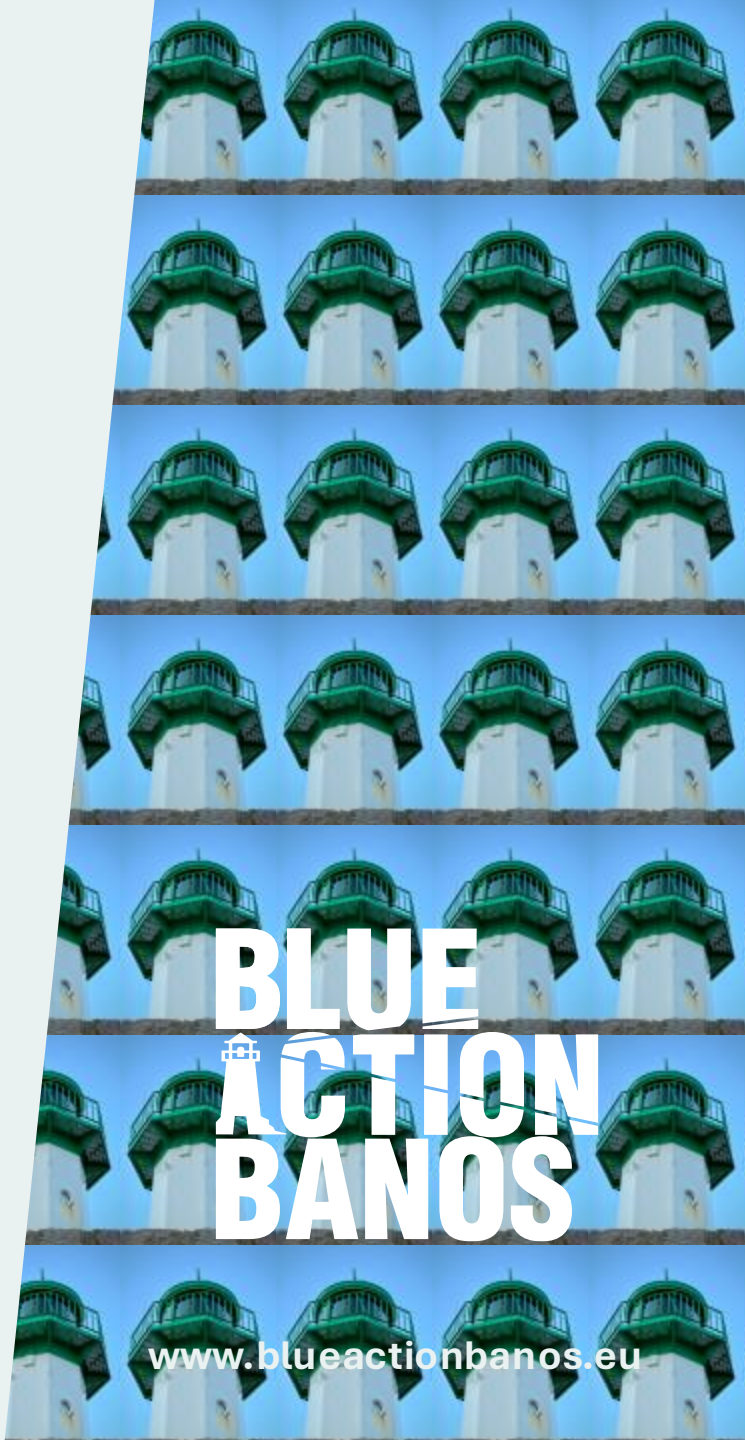
Alberto Terenzi

Team Lead, Innovation Support and Blue Skills

SUBMARINER Network for Blue Growth EEIG

Project Facts

- **18** Project Partners
- **11** Countries
- **48** Months (September ’25 – August ‘29)
- **12.4** Million EUR Budget (Horizon Europe Programme)
- Coordinated by SUBMARINER Network For Blue Growth EEIG



Netherlands

Netherlands Enterprise Agency

Norway

NIVA
Norsk institutt for vannforskning

Sweden

innovatum science park

ivl Swedish Environmental Research Institute

Finland

GTK

Belgium

BLUE CLUSTER

VLIZ pioneer in marine science

Coordination

SUBMARINER NETWORK

Estonia

TARTU ÜLIKOOL
UNIVERSITY OF TARTU
1632

Latvia

LATVIJAS HIDROEKOLOĢIJAS INSTITŪTS

Lithuania

Klaipeda University

Denmark

Food & Bio Cluster Denmark

SDU

Germany

C|A|U
Christian-Albrechts-Universität zu Kiel

Poland

GDYNIA MARITIME UNIVERSITY
1920
POLAND

FundingBox
#FundingChampions

UBC UNION OF THE BALTIC CITIES

ERRIN European Regions Research and Innovation Network

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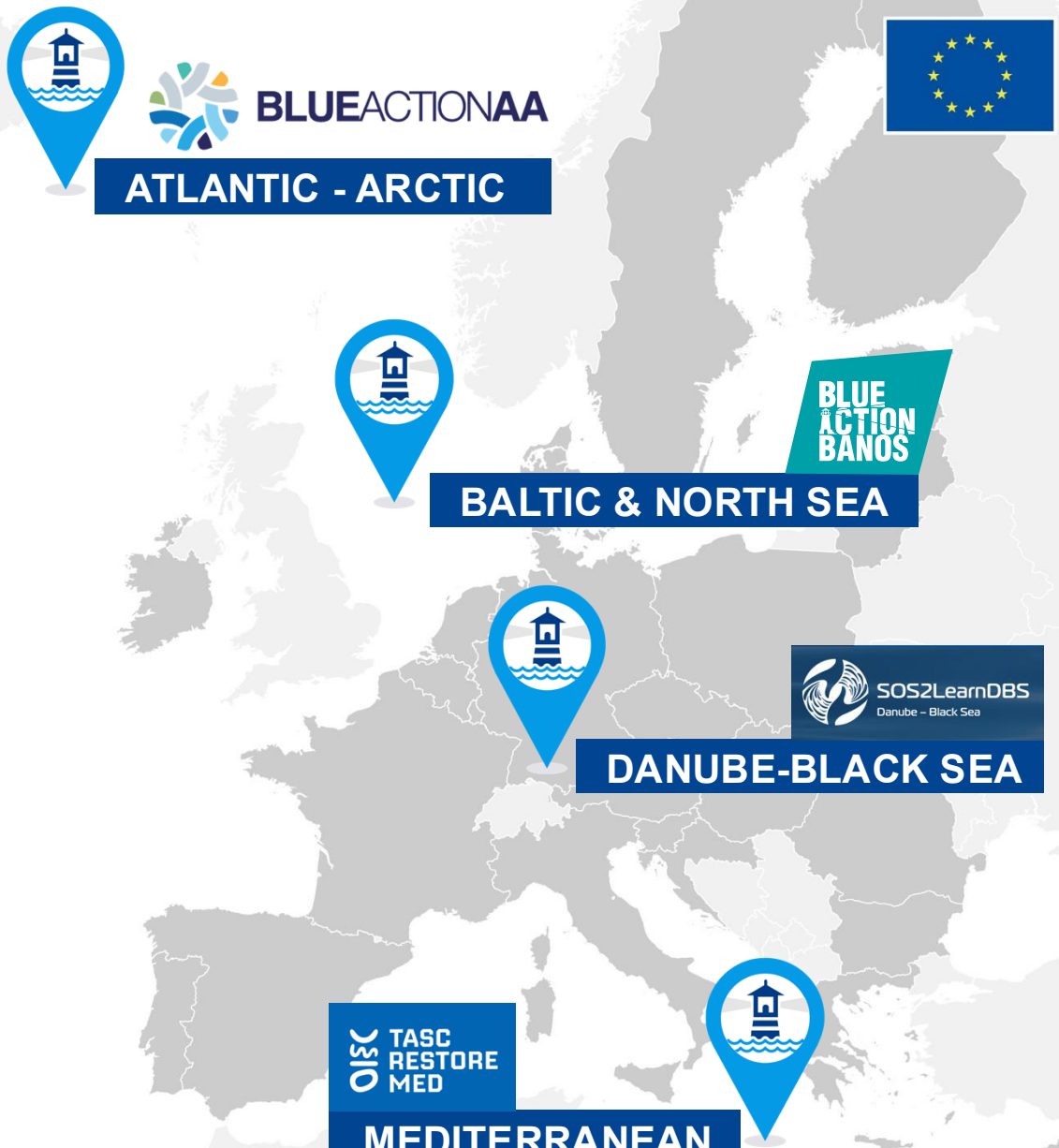
MISSION LIGHTHOUSES

Mission lighthouses are sites to test, demonstrate, and deploy the Mission activities across EU seas and river basins.

They try out new ideas and involve local businesses and people in the process.

EU MISSIONS
RESTORE OUR OCEAN & WATERS



BlueActionBANOS & Mission Ocean

Four-year project part of the EU Mission *Restore Our Ocean and Waters*.
To **restore, protect, and preserve** the health of our ocean, seas, and inland waters by 2030.

Protect and restore marine and freshwater ecosystems and biodiversity.

Prevent and eliminate pollution of our oceans, seas, and waters.

Make the sustainable blue economy carbon-neutral and circular.

Mission Ocean and Project Objectives

- Aligned with **the EU Mission "Restore Our Ocean and Waters by 2030"** and the European Green Deal.
- To deliver and support measurable contributions to:
  - Biodiversity conservation
  - Pollution reduction
  - The transition to a climate-neutral, sustainable blue economy
- To facilitate the transition from Phase 1 to Phase 2 of Mission Ocean in the BANOS Lighthouse Area:
  - Scaling up solutions piloted in the early stages
  - Deploying them across a broader set of contexts and regions

Mission Ocean and Project Objectives

Mobilise & empower diverse communities of actors with **practical, easily accessible support** to implement **innovative, high-impact actions** to restore our ocean, seas and waters.

- Aligned
  2030”
- To deliv
  - Bi
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- To facil
  in the E
  - Scal
  - Deploying them across a broader set of contexts and regions

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BlueActionBANOS: Vision

Provide **targeted financial assistance**, **technical guidance**, and **strategic knowledge-sharing** to support the scale-up and deployment of Mission Ocean **solutions within the Baltic and North Sea Lighthouse Area.**

Community-Led Actions

Transition Agendas

Technical Assistance & Knowledge-Sharing

Eligible activities and consortia for BAB funding

Jonas Lescroart

Science officer

Flanders Marine Institute (VLIZ)

WHAT can be funded

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WHAT can be funded

PROTECT AND RESTORE MARINE AND FRESHWATERS ECOSYSTEMS AND BIODIVERSITY

- Protect at least 30% and strictly protect 10% EU's sea areas
- Restore 25.000 km free flowing rivers
- Marine nature restoration targets (incl. degraded seabeds, coastal ecosystems)

PREVENT AND ELIMINATE POLLUTION OF OUR OCEANS, SEAS AND WATERS

- Reduce by
- Reduce b
- Reduce by

MAKE THE BLUE ECONOMY CARBON- NEUTRAL AND CIRCULAR

- Net zero
- Zero carb
- Low carbo

Concrete solutions for our greatest challenges

ENABLERS

Digital Ocean and Waters Knowledge system

Public mobilization and engagement

WHAT can be funded

- Protect at least 30% and strictly protect 10% EU's sea areas
- Restore 25.000 km free flowing rivers
- Marine nature restoration targets (incl. degraded seabeds, coastal ecosystems)

- Reduce by at least 50% plastic litter
- Reduce by at least 30% microplastics
- Reduce by at least 50% nutrient losses, chemical pesticides

- Net zero maritime emissions
- Zero carbon aquaculture,
- Low carbon multipurpose use of marine space

Full breakdown of Mission Ocean objectives is developed by the Marine Information System for Europe (WISE Marine)

WHAT can be funded

For definitive list of concrete activities that can be funded, please refer to the **Annex I** in the **Call Terms & Conditions.**

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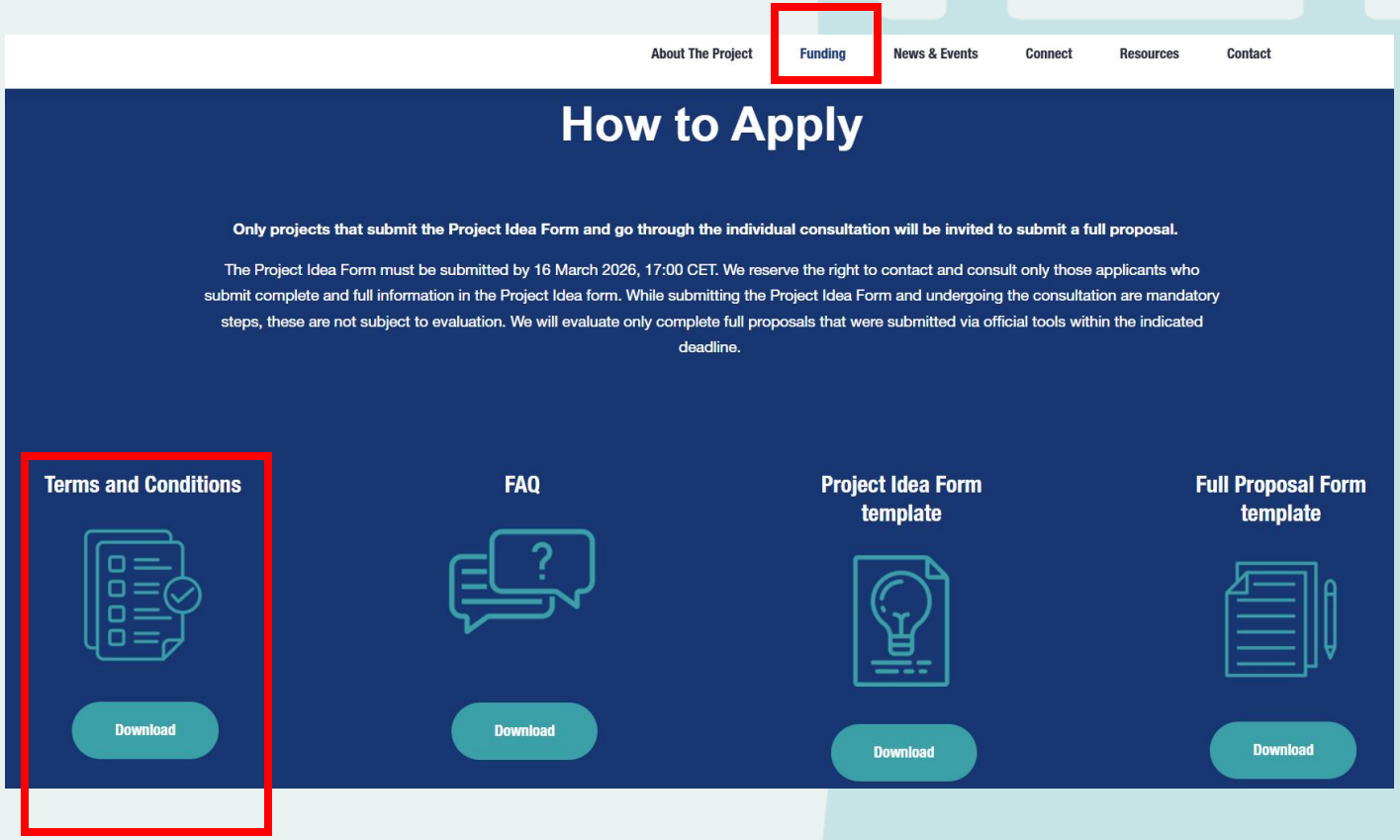

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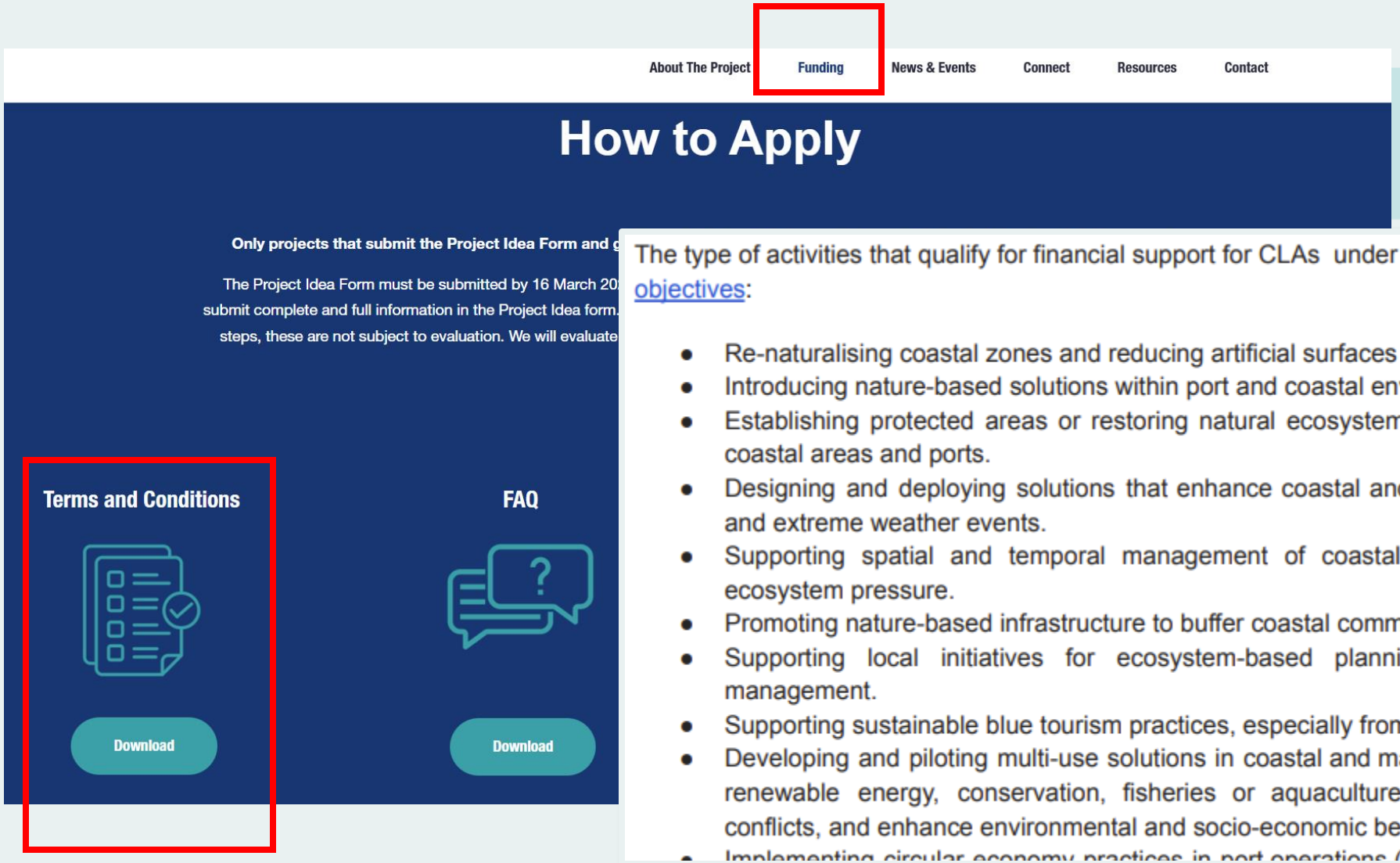
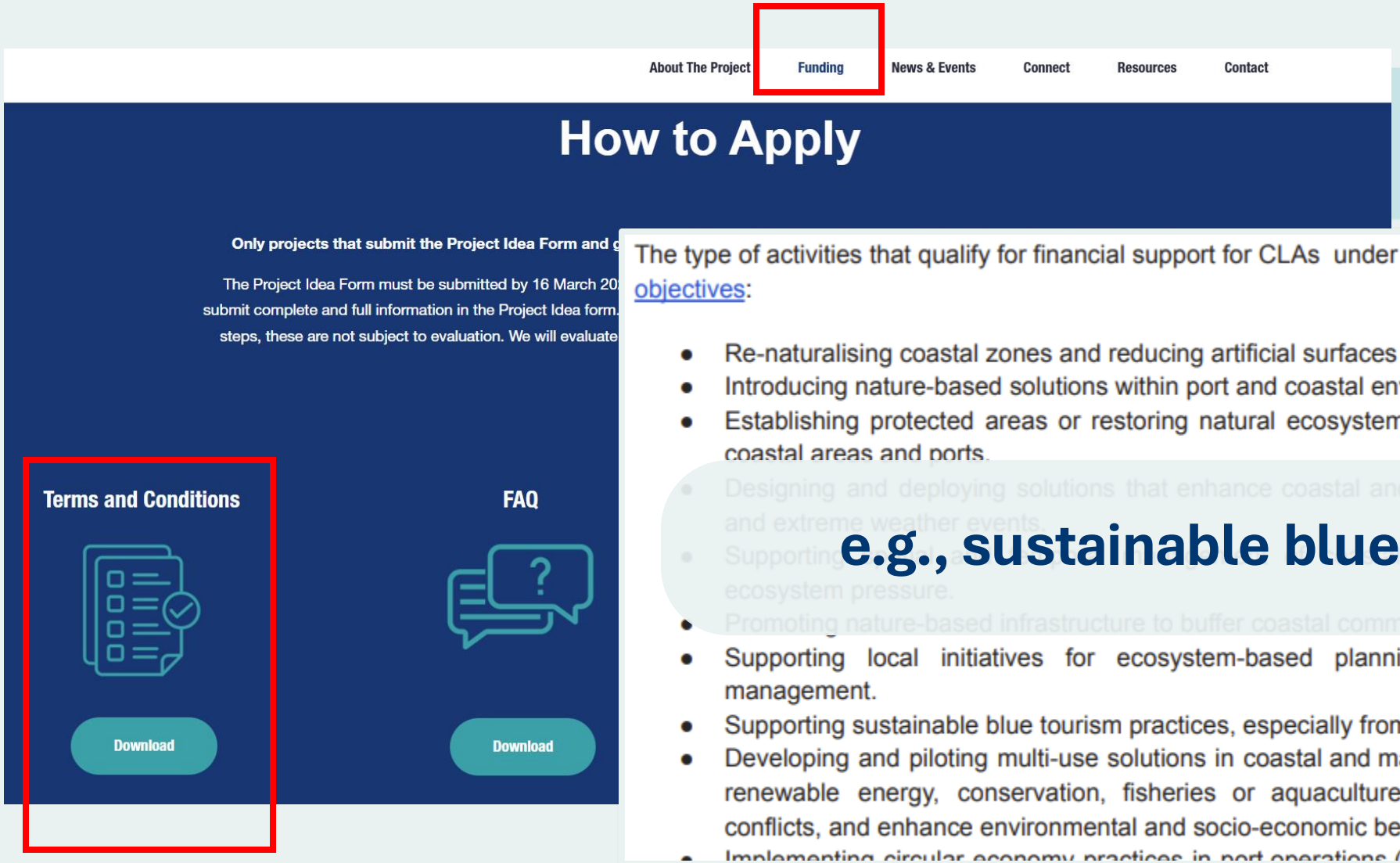


The type of activities that qualify for financial support for CLAs under the Mission Ocean and Waters objectives:

- Re-naturalising coastal zones and reducing artificial surfaces within and around port areas.
- Introducing nature-based solutions within port and coastal environments.
- Establishing protected areas or restoring natural ecosystems in riverine, lacustrine and marine coastal areas and ports.
- Designing and deploying solutions that enhance coastal and riverine resilience to sea level rise and extreme weather events.
- Supporting spatial and temporal management of coastal and fisheries activities to reduce ecosystem pressure.
- Promoting nature-based infrastructure to buffer coastal communities against climate-related risks.
- Supporting local initiatives for ecosystem-based planning and stakeholder-led resource management.
- Supporting sustainable blue tourism practices, especially from a multi-use perspective.
- Developing and piloting multi-use solutions in coastal and marine areas (e.g. co-locating tourism, renewable energy, conservation, fisheries or aquaculture) to optimise space, reduce user conflicts, and enhance environmental and socio-economic benefits.
- Implementing circular economy practices in port operations (e.g. waste treatment, reuse systems

WHAT can be funded



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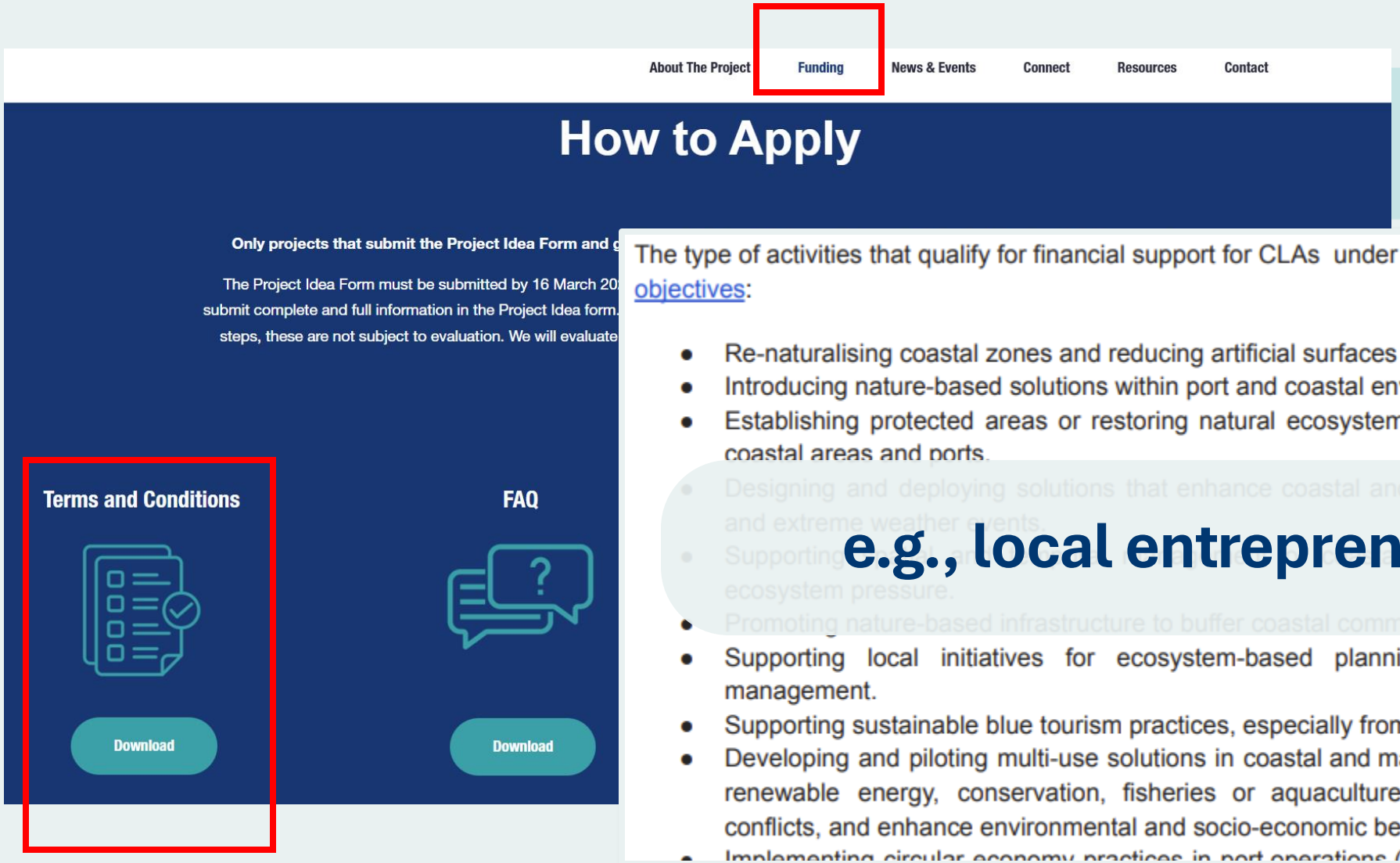
e.g., sustainable blue tourism

WHAT can be funded



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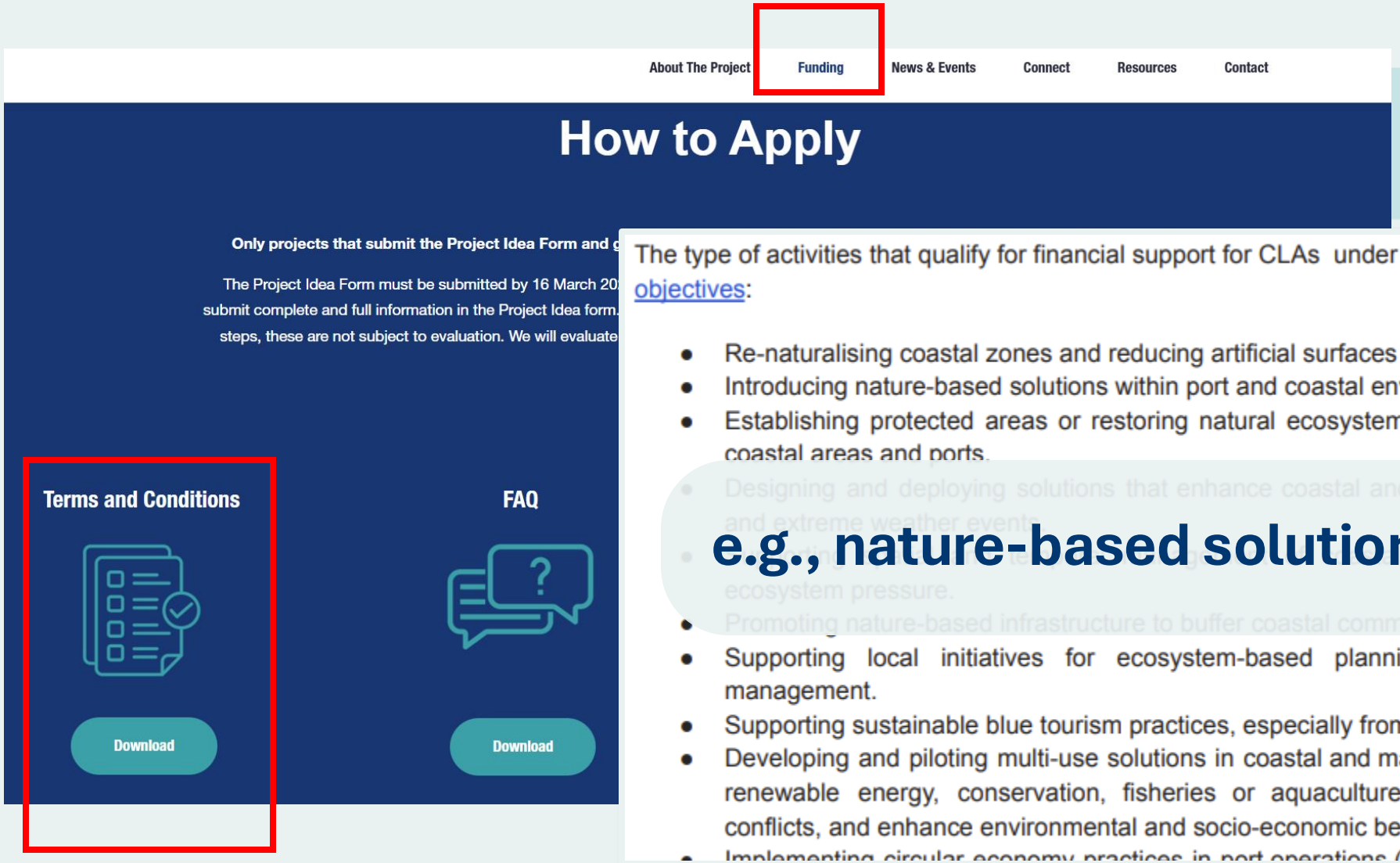
- Implementing circular economy practices in port operations (e.g. waste treatment, reuse systems

e.g., local entrepreneurship

WHAT can be funded



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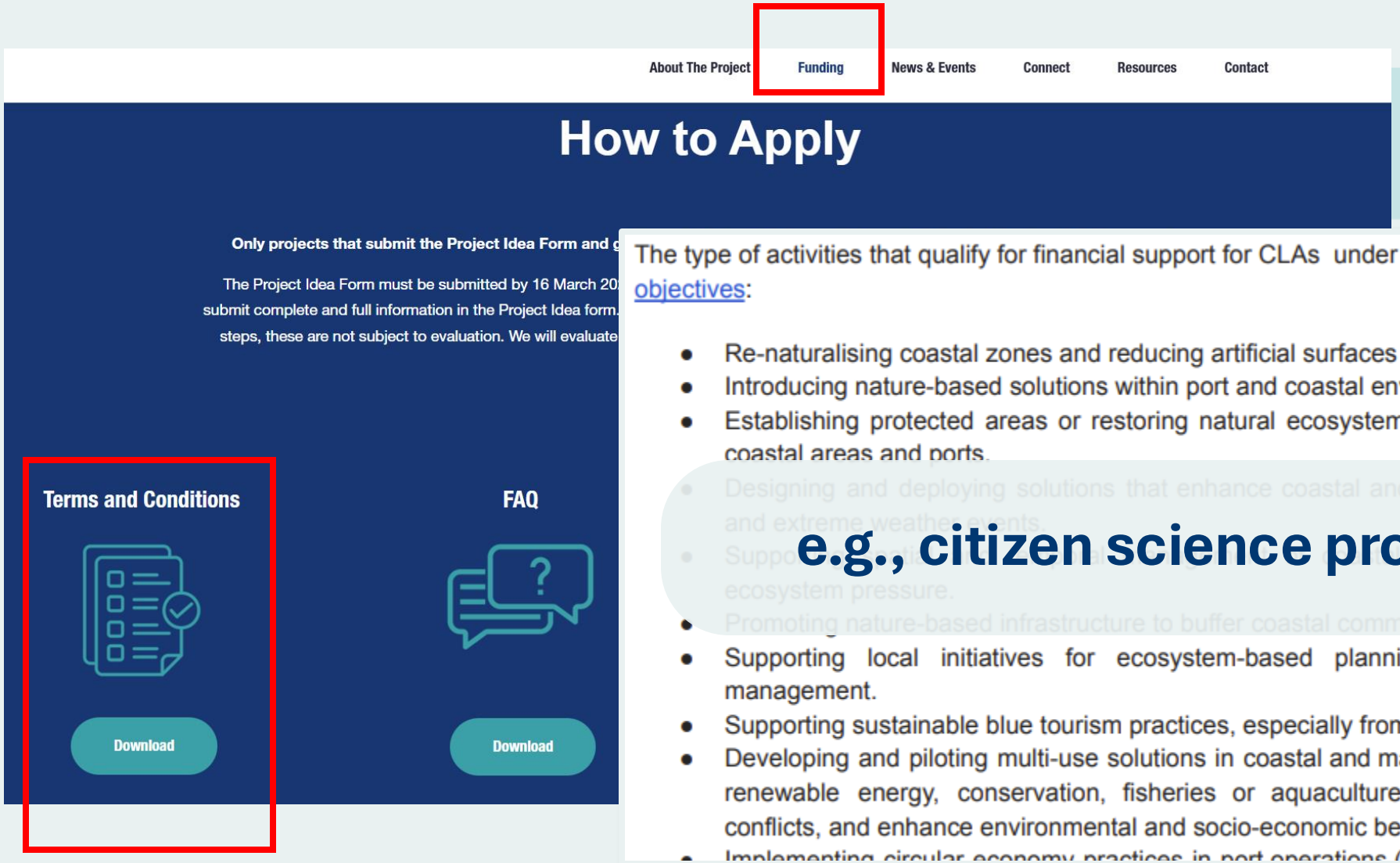
- Implementing circular economy practices in port operations (e.g. waste treatment, reuse systems

e.g., nature-based solutions in shipping

WHAT can be funded



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- Implementing circular economy practices in port operations (e.g. waste treatment, reuse systems

e.g., citizen science programmes

WHAT can be funded

- Actions are bottom-up, but need justification through Mission Ocean objectives
- WISE Marine breakdown of Mission Ocean objectives as guidance, although not exhaustive
- See https://water.europa.eu/marine/europe-seas/eu-mission-restore-our-oceans-and-water
- For list of concrete actions that can be funded, see **Annex I** (p. 21) in **Terms & Conditions** on BAB website under 'Funding'

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WHO can be funded

- In short: any legal entity registered in a Baltic or North Sea basin (BANOS) country

Government

- Regional and local authorities

Academia

- Knowledge institutions
- Educational establishments
- Research organisations

Industry

- Locally-based companies
- Knowledge brokers, consulting, facilitators
- Financial institutions
- Professional associations, cooperatives

Civil society

- NGOs, foundations
- Any registered entity fostering inclusion, nature conservation, local development…

WHO can be funded

- Types of communities: see Call Terms & Conditions (p. 7)

- Ports (including inland ports);
- Islands authorities and communities;
- Fishing and aquaculture communities, producers, processors, retailers and manufacturers, and other representatives of blue economy;
- Operators of various vessels;
- River basin and inland water communities engaged in water r management and pollution reduction;
- Citizen [illegible] ves contributing to marine or freshwater monitoring or restoration;
- Indigenous and traditional knowledge communities involved in sustainable use and stewardship of marine and freshwater resources;
- Blue tech and digital innovation communities contributing to ocean observation, data sharing, or circular blue economy;
- Cultural heritage and maritime identity communities promoting ocean literacy and traditional connections to the sea;
- Local financial institutions, cooperatives, and impact investors supporting sustainable blue investments;
- Social enterprises and organisations fostering inclusion, skills, and

e.g., aquaculture cooperatives

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- River basin and inland water communities engaged in water
- Citizen
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e.g., marine cultural heritage community

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- Local financial institutions, cooperatives, and impact investors supporting sustainable blue investments;
- Social enterprises and organisations fostering inclusion, skills, and

e.g., social enterprises for blue skills development

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- Social enterprises and organisations fostering inclusion, skills and

e.g., environmental protection community

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Two open calls

COMMUNITY-LED ACTIONS OPEN CALL

WHO CAN APPLY:

Teams/consortia of a minimum of 2 up to 12 entities registered in the Baltic and North Sea basin (BANOS) countries

Grants between **€200,000 and €2 million** to carry out action-oriented projects that tackle pollution, restore marine ecosystems, or advance sustainable blue economy solutions.

24 months Support Programme at maximum

1ST TRANSITION AGENDAS OPEN CALL

WHO CAN APPLY:

Individual entities or consortia of up to 3 entities registered in the Baltic and North Sea basin (BANOS) countries

Up to €**100,000 each** to design action plans guiding local sustainability, marine or freshwater ecosystem restoration, decarbonisation and climate adaptation pathways

18 months Support Programme at maximum

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Inspiration for **Community-Led Action (CLA)** funding

CoolBlue Baltic & North Sea

Frederick Bruce

Senior Project Manager

s.Pro – sustainable projects GmbH

SUBMARINER Network for Blue Growth EEIG

CoolBlue

- *Towards community-driven business models: regenerative ocean farming*
- Horizon Europe Coordination & Support Action
- ca. 1m€ (100% funded)
- April 2023 – March 2026

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CoolBlue partners

- s.Pro (DE)
- Havhøst (DK)
- University of Gothenburg (SE)
- Aktion Österbotten (FI)
  - Fisheries Local Action Group

- *Formed via a shared interest in* ***community-led local development (CLLD)*** *and* ***low-/multi-trophic aquaculture***

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The communities

- Nordic Network
- Havhøst represents ca. 40 communities
- Gothenburg represents 1
- Aktion Österbotten represents 1
- ca. 12 additional communities identified in the project

- The communities will benefit from
  - shared experiences
  - good practices
  - international cooperation partners

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Examples

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Bændel

– Bruges til at indfange muslingeyngel

Bundvægt

– Bruges til at holde muslingebændel således at det hænger vertikalt i vandsøjlen
– Findes allerede fastgjort til bændel

Stropper

– Bruges til at binde på enderne af muslingebændel således at det kan fastgøres på rebet
– Kan fastgøres direkte på rebet eller hægtes på karabinhage først

Karabinhager

– Bruges til at fastgøres bændel og muslingestrømper på hovedline eller bæreline (reb)

Fiskemærke og tusch

– Bruges til markering af hobbyanlæg/ nyttehavens ejerforhold
– Skal placeres et tydeligt sted på anlægget og være nemt at aflæse

Reb

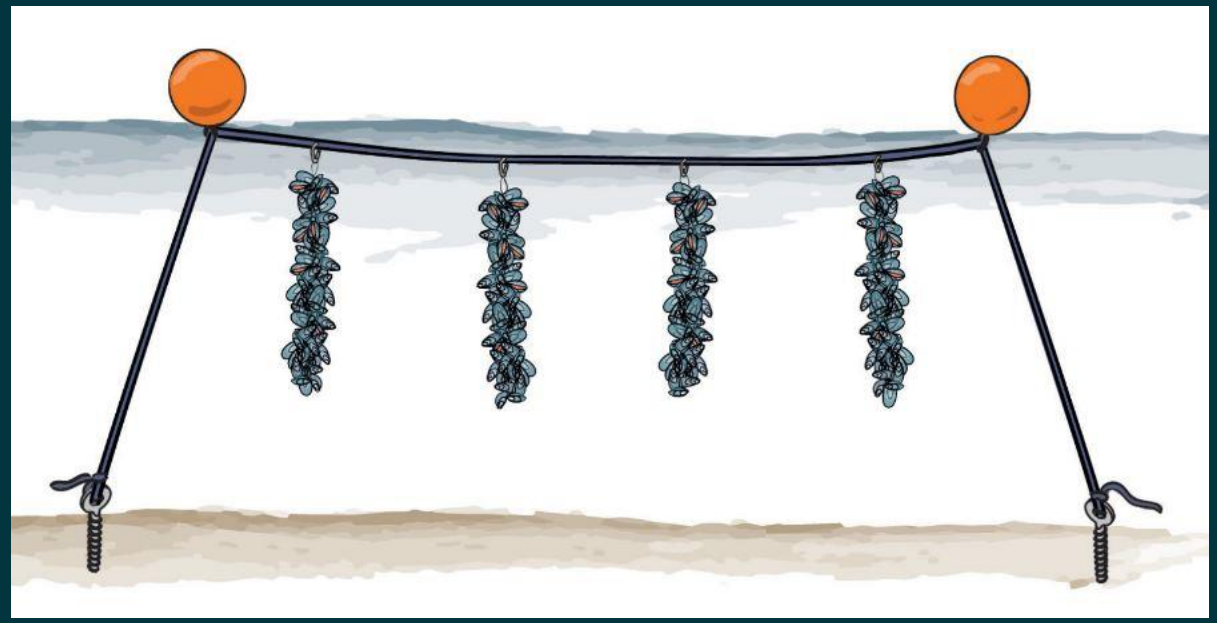
– Bruges som hovedline eller bæreline der spændes ud vandret i overfladen
– Herpå kan der således fastgøres strømper og bændler

Stopperør

– Bruges til nemt at få muslinger i muslingestrømper
– Kommer i to forskellige størrelser: 32 mm og 50 mm diameter
– Det lille passer til strømpe: lilla og sort
– Det store passer til strømpe: grøn

Muslingestrømper

– Bruges til at gro muslinger i og består af stærk polyestertråd (sort) og bomuldssnøre (hvid)
– Kommer i tre forskellige maskestørrelser
Sort: Til de små nye babymuslinger
Lilla: Til dem over 1 cm
Grøn: Til dem over 2 cm



OL BLUE BALTIC) and 101112747 (COOL BLUE). Views and opinions expressed are however
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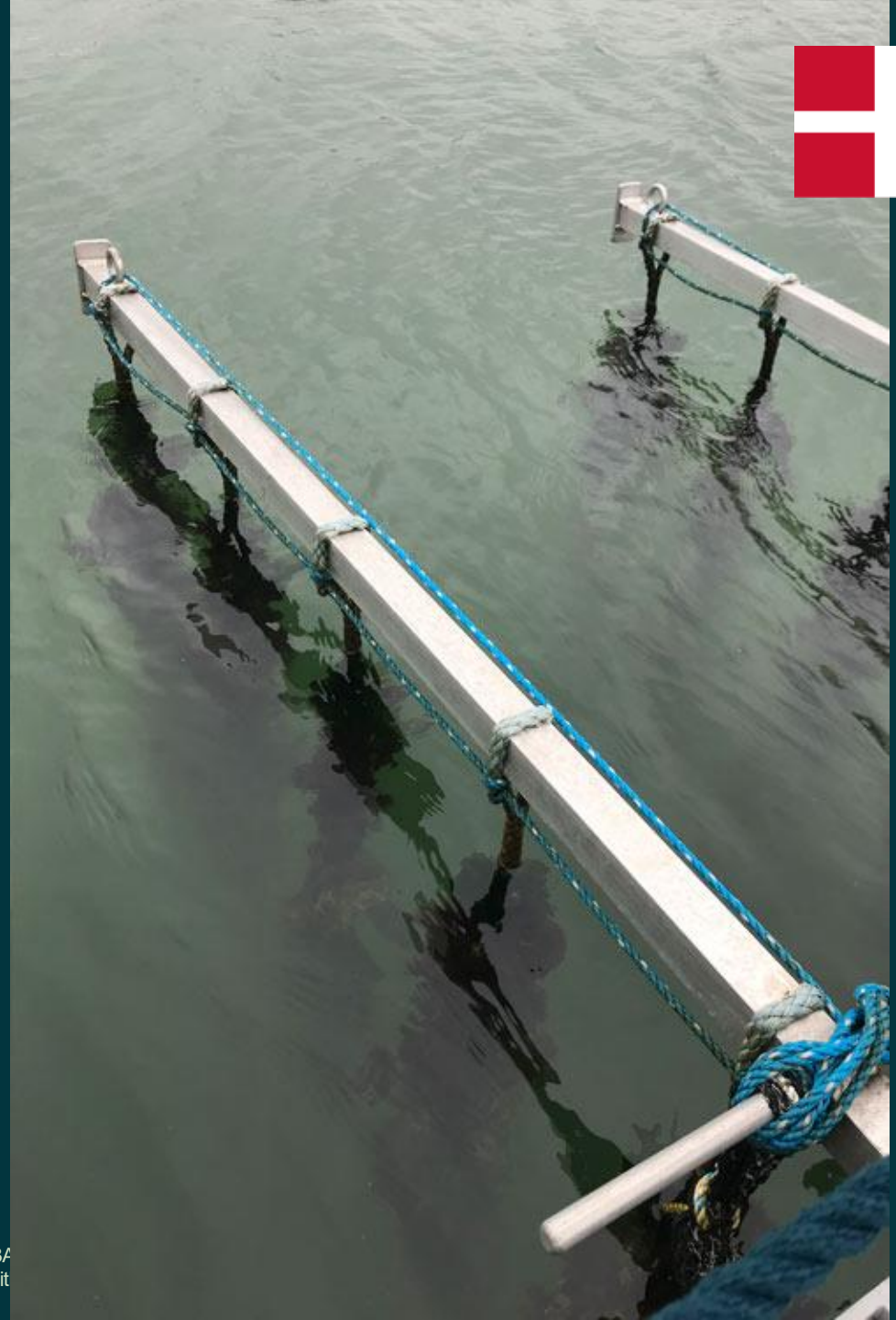

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Ministeriet for Fødevarer, Landbrug og Fiskeri
Fiskeristyrelsen

REGISTRERING AF ET HOBBYOPDRÆTSANLÆG[1]

til Fiskerikontrollen i *vælg afdeling* for året *vælg år*

Ansøgers navn, adresse, telefonnr. og mail:	Forbeholdt Fiskeristyrelsen
Navn *Gade og nr.* *Postnr. og by* *Telefonnummer* *E-mail adresse*	Sagsnr.: *sagsnr.* Registreringsnr. *Registreringsnr.* Modtaget d. *vælg dato*

[1] § 11 i Bekendtgørelse nr. 1456 af 24. juni 2021 om opdræt af muslinger og østers i vandsøjlen

Vigtig information:

- Hobbyopdrætsanlægget må ikke opstilles, før du har modtaget et registreringsnummer fra Fiskeristyrelsen.
- Ethvert hobbyopdræts redskab skal, på et synligt sted over vandet, være forsynet med et forsvarligt, fastgjort, gult mærke med registreringsnummer, navn og adresse på brugeren. Bogstaver og tal skal være 1 cm høje.
- Hvis der anvendes stager eller pæle, skal mærket placeres mindst 1,2 m over vandet.
- Der kan kun registreres ét hobbyopdrætsanlæg pr. person.
- Hobbyopdræt må kun foregå ved fangst af naturligt forekommende yngel af hjemmehørende arter.
- De liner som anvendes til yngelopsamling, må tilsammen være maksimalt 10 meter lange.
- Der må ikke anvendes foder eller kemikalier i anlægget.

Farven i firkanterne svarer til afdelingernes kontrol-område på kortet, som findes på bagsiden af dette tilmeldingsskema.

Afdelingen i Frederikshavn
Sandholm 10, 9900 Frederikshavn

Afdelingen i Nykøbing Mors
N.A. Christensensvej 40, 7900 Nykøbing Mors

Afdelingen i Hvide Sande
Vesterhavsvej 302, 6830 Nørre Nebel

Afdelingen i Ringsted
Frejasvej 1, 4100 Ringsted

Ringsted modtager alle tilmeldinger fra følgende afdelinger i Inspektorat Øst:

- **Afdelingen i Randers**
  Haraldsvej 60, 2. sal, 8960 Randers SØ.
- **Afdelingen i Kolding**
  Eltangvej 230, 6000 Kolding
- **Afdelingen i Rønne**
  Munch Petersens Vej 8, 3700 Rønne

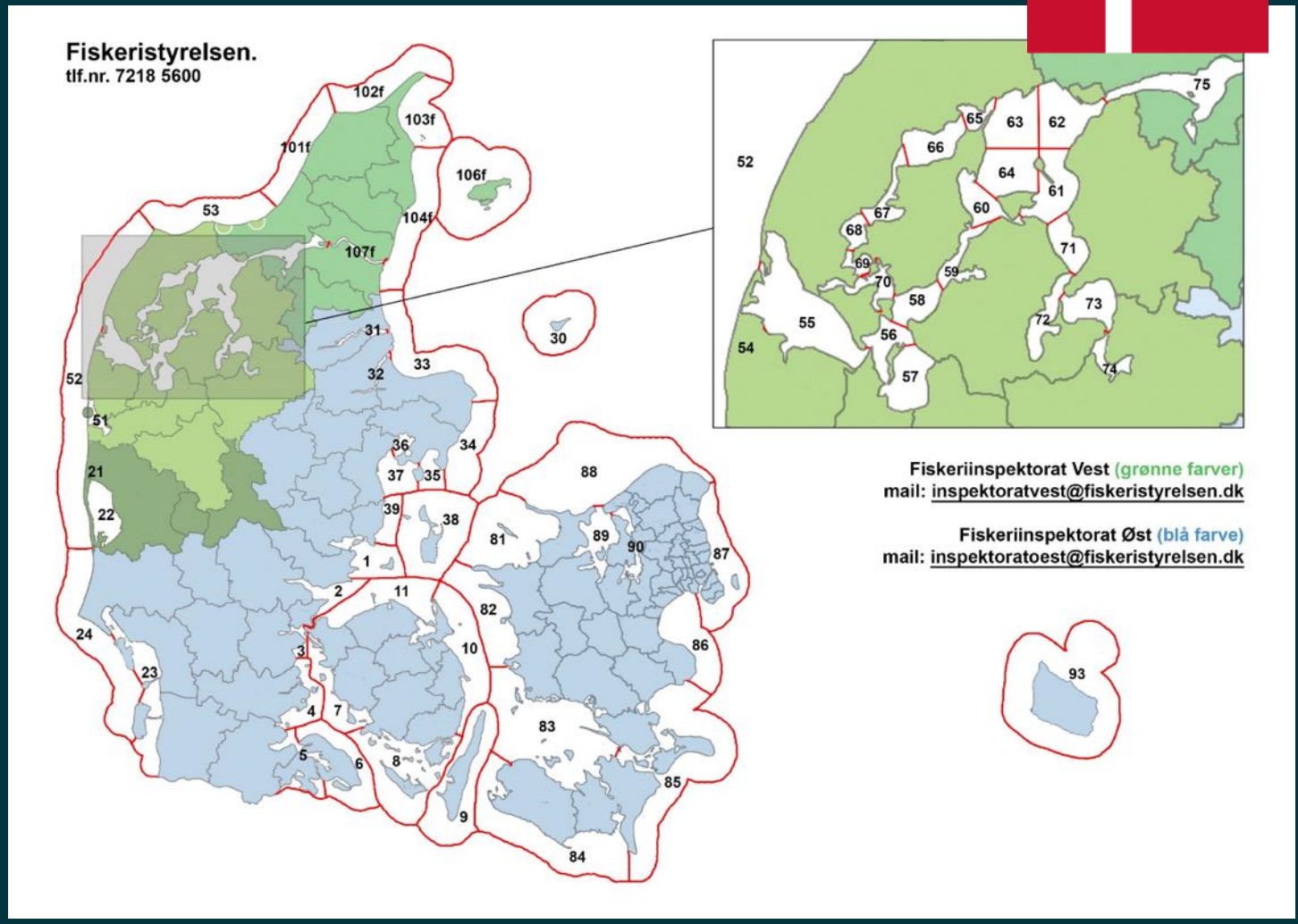
Arter der dyrkes i hobbyopdrætsanlægget:		
☐ Blåmusling	☐ Østers	☐ Andet. Art: *navngiv art*

Områdenummeret aflæses på kortet, som findes på bagsiden af dette ansøgningsskema.

Anlæggets geografiske placering:	Position: Nordlig bredde:	Østlig længde:
Område nr.	*2 decimaler° 2 decimaler.3 decimaler´*	*2 decimaler° 2 decimaler.3 decimaler´*

Positionen angives i WGS-84-Datum, som skrives i grader, minutter og 1/1000 minutter.
Eksempel: *Nordlig bredde: 56° 26.233´ - Østlig længde: 09° 15.036´*

Underskrift:	Sted:	Dato:
Navn	*Sted*	*Vælg dato*



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CoolBlueFuture

a platform for blue community enterprise

BANOS

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www.blueactionbanos.eu

Tisdag 21 oktober 2025 +9°

VASABLADET

”Alla kommuner bör se över skolnäten”

3 Nyheter. 2030 är antalet barn i grundskolan i Finland cirka 80 000 färre än i dag. Det leder till utmaningar som ingen kan förbise, enligt Ulf Stenman på Kommunförbundet. Han säger att alla kommuner behöver se över skolnäten.

8–9 Nyheter. Österbotten först med ätbara dammusslor

10 Nyheter

Vöråföretag hoppas ta del av jätteaffären

11 Nyheter

Gosedjur fick övernatta på museum

19 Kultur

Rolf Holm ger konstsamling till Borgå stift

Höst&Vinter

55c

ekstra

Höstens GH hoppen

LAURIE

byxdagar 20–25.10.

Alla Laurie byxor

-20%

Foods

The restaurant in Vaasa collected 4 000 lake mussels – then the authorities banned their serving

Restaurant owner Kim Hellman was surprised and disappointed by the decision.

Gustav Wasa's restaurateur, chef Kim Hellman, was amazed by the decision of the environmental service. Photo: Jarkko Heikkinen / Yle

Co-funded by the European Union

CoolBlueFuture

a platform for blue community enterprise

BLUE ACTION BANOS

www.blueactionbanos.eu

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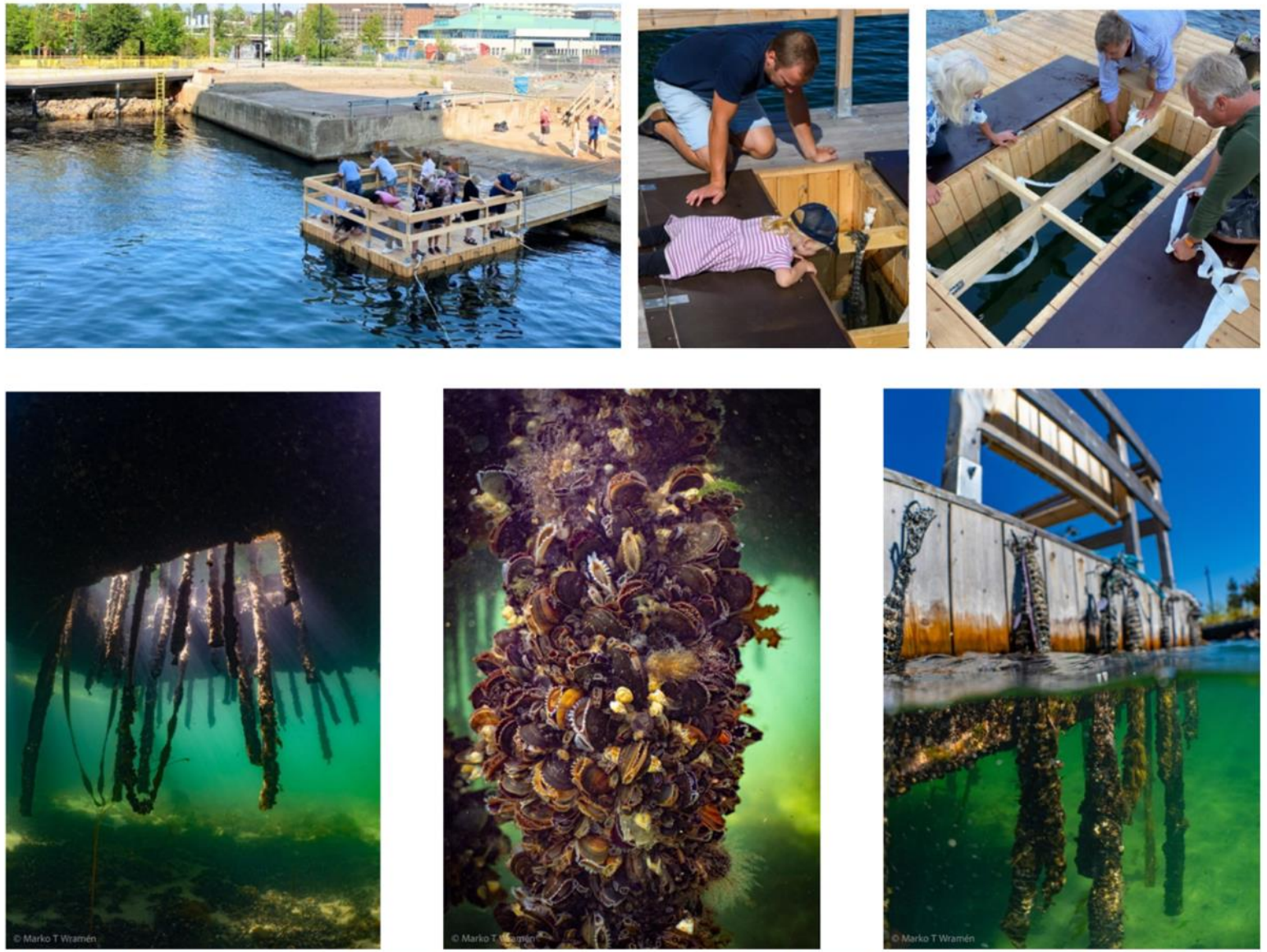

Figure 3: Example of a community ocean farm or "blue community garden" in Helsingborg, SE

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Top-down

Top-down approach

Community resistance

No action

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Individual

Individuals

No reaction from authorities

No action

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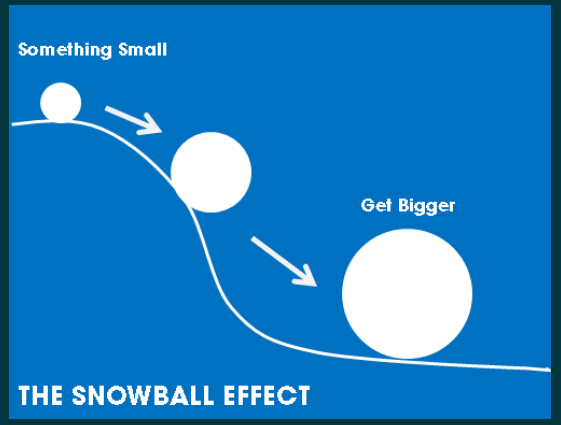
Bottom-up



Community-led action

Community replication

Reaction from authorities

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Lessons learned

1. People respond to stories and pictures, not facts & figures
2. Communities have the best local knowledge
3. Communities know what they need
4. Communities cannot be pushed / forced
5. Community-building takes time
6. Lead by example (“stone soup” folk story)
7. Start small
8. Many hands make light work
9. **It is easier to beg forgiveness than ask for permission**

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- “…we need to accept that we don’t know all the answers and just start [taking action] on a wide scale [because] **some action is better than no action**.”

John Dickson
Marine Trees

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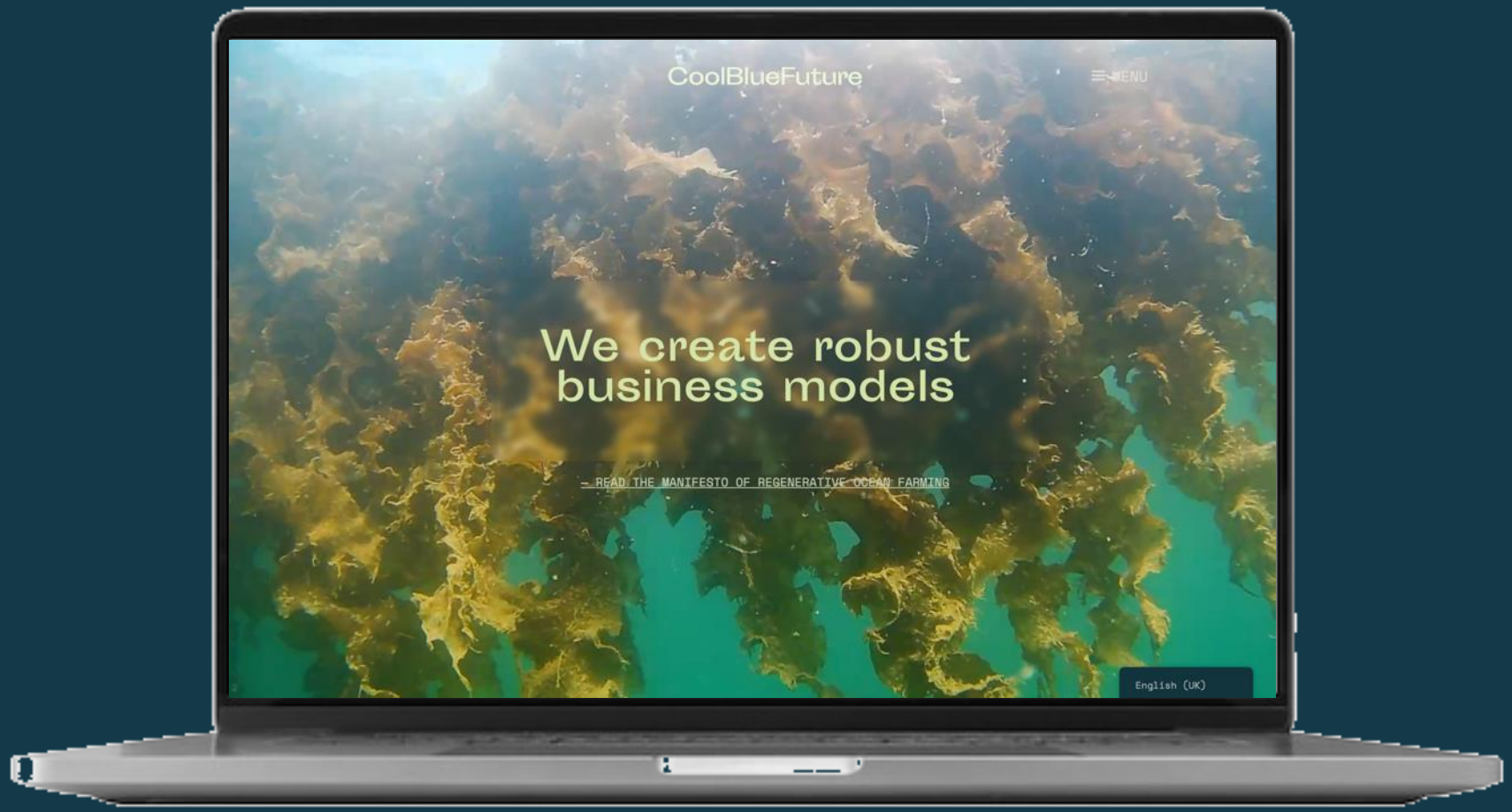

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Thank you

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Inspiration for **Community-Led Action (CLA)** funding

ULTFARMS

Ir. Alex Ziemba

Advisor & Researcher

Deltares

Advancing Multi-Use Aquaculture in Offshore Environment – Overview of the ULTFARMS Project

Alex Ziemba

Deltares

16 December 2025

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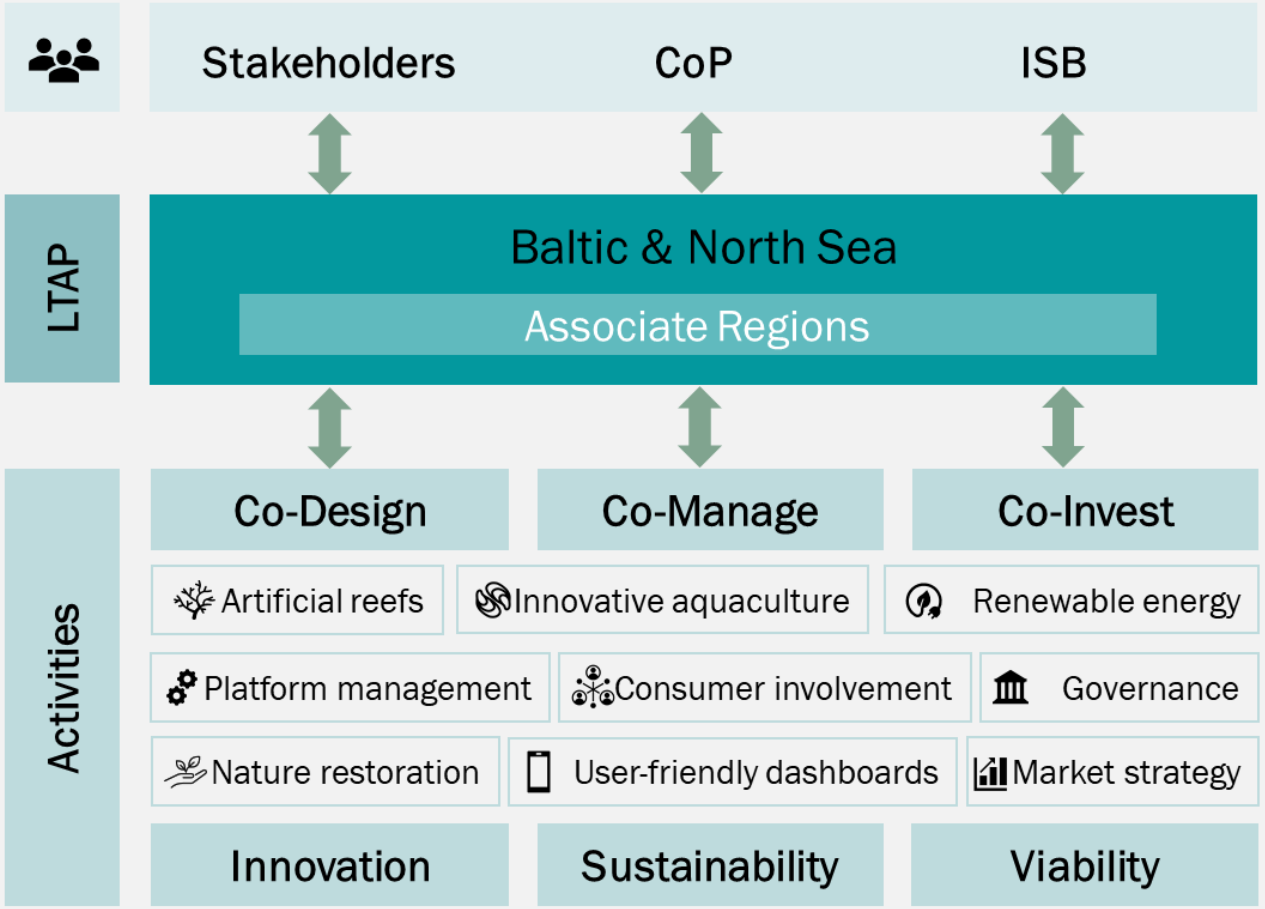
The ULTFARMS Project

- Focus on Low Trophic Aquaculture: mussels, oysters, seaweeds
- Integration of multiple activities
  Renewable Energy, Nature Restoration, Food Security
- Adaptation, Replication, Commercialization



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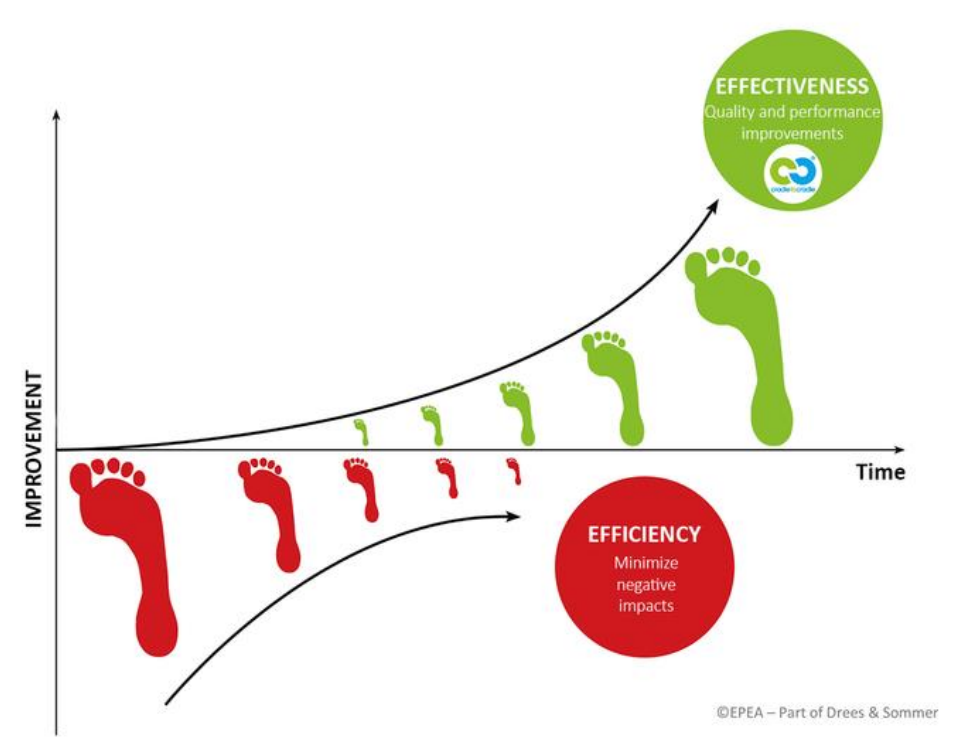
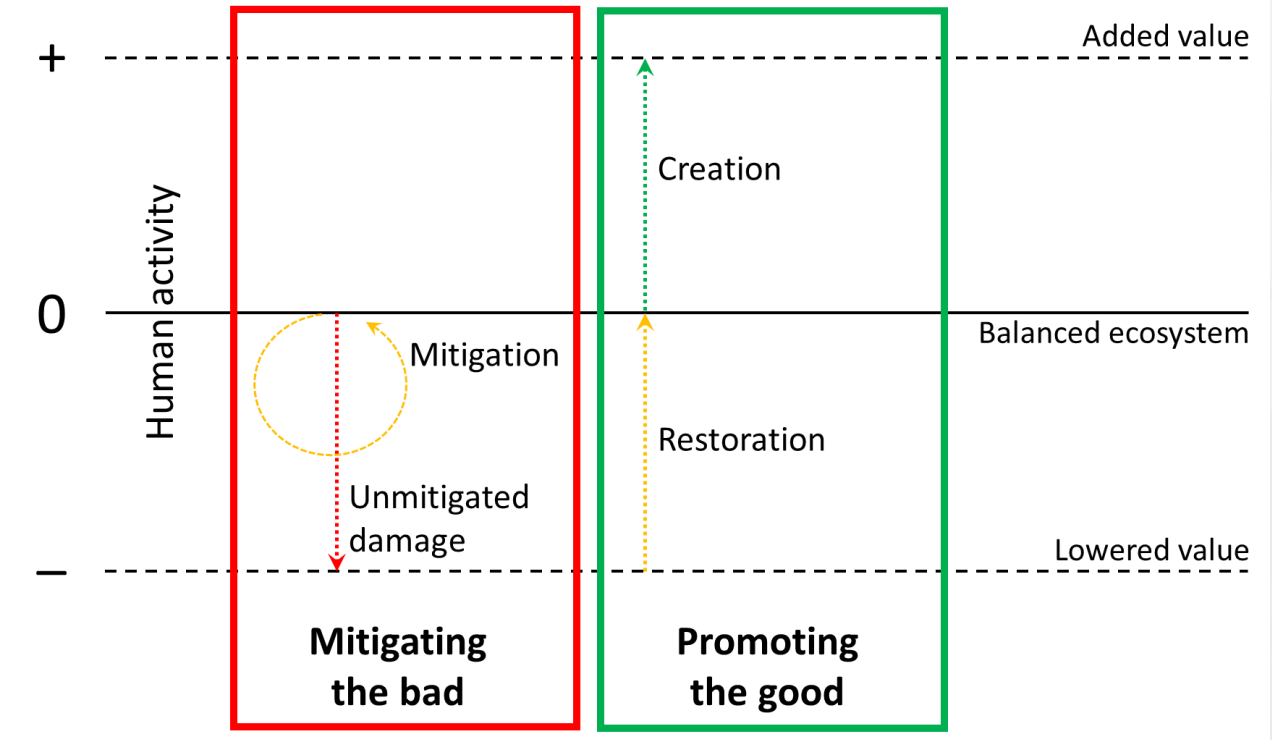
Sustainability and Restoration





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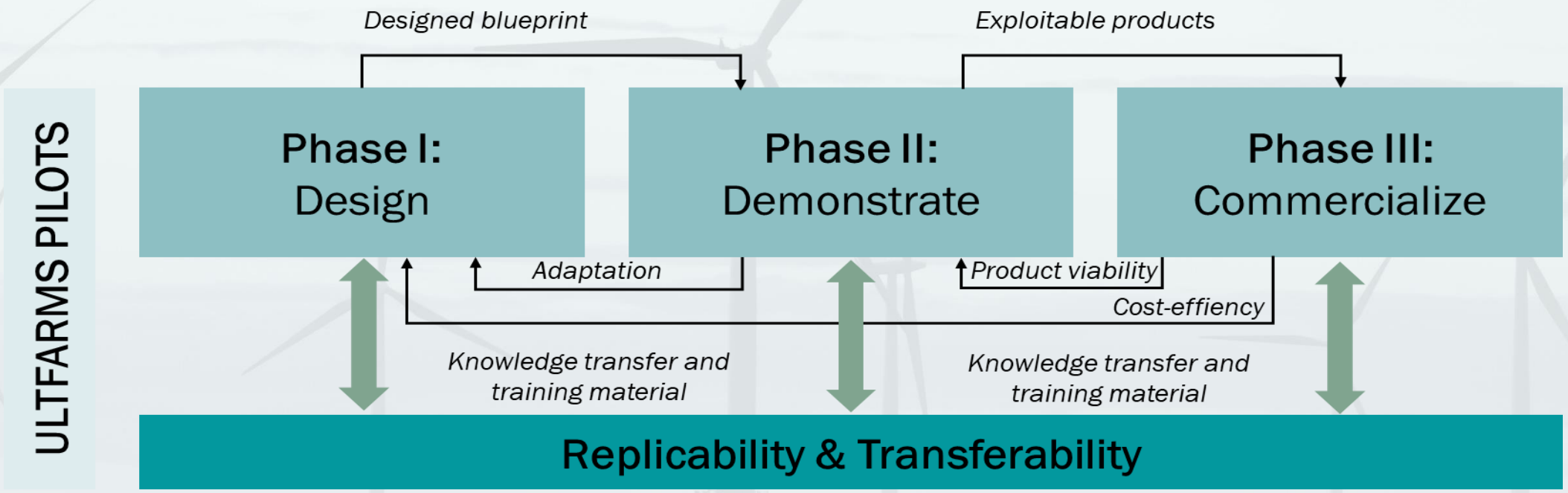
The ULTFARMS Project



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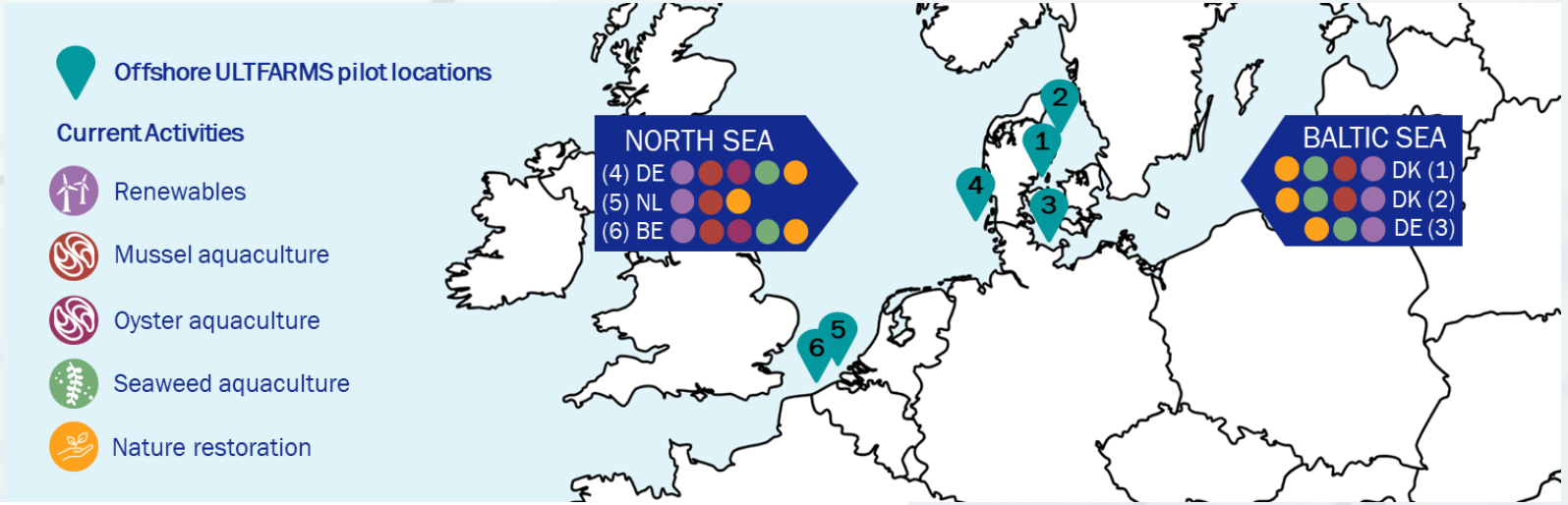
ULTFARMS Pilots and Demonstrators



Seaweed (S); mussels (M); oyster (O), present TRL (P) and foreseen TRL at the end of the project (E), and partners involved

Country	Basin	Pilot	LTA species	TRL		Partners
				P	E	
Denmark	Baltic	Samsø	***S-M***	5	8	**DTU**, BBM, ØST, NSF
	Baltic	Anholt	***S-M***	5	7	**DTU**, BBM, ØST, NSF
Germany	Baltic	FINO2	***S***	6	8	**FuE**, SUB, KMF, DNV, UG, NSF, DTU, BBE
	North	FINO3	***S-M-O***	6	8	**FuE**, KMF, HOR, BBE
The Netherlands	North	Borssele	***M***	6	9	**WR**, OOS, UGent, SAS
Belgium	North	Belwind	***S-M-O***	6	8	**UGent**

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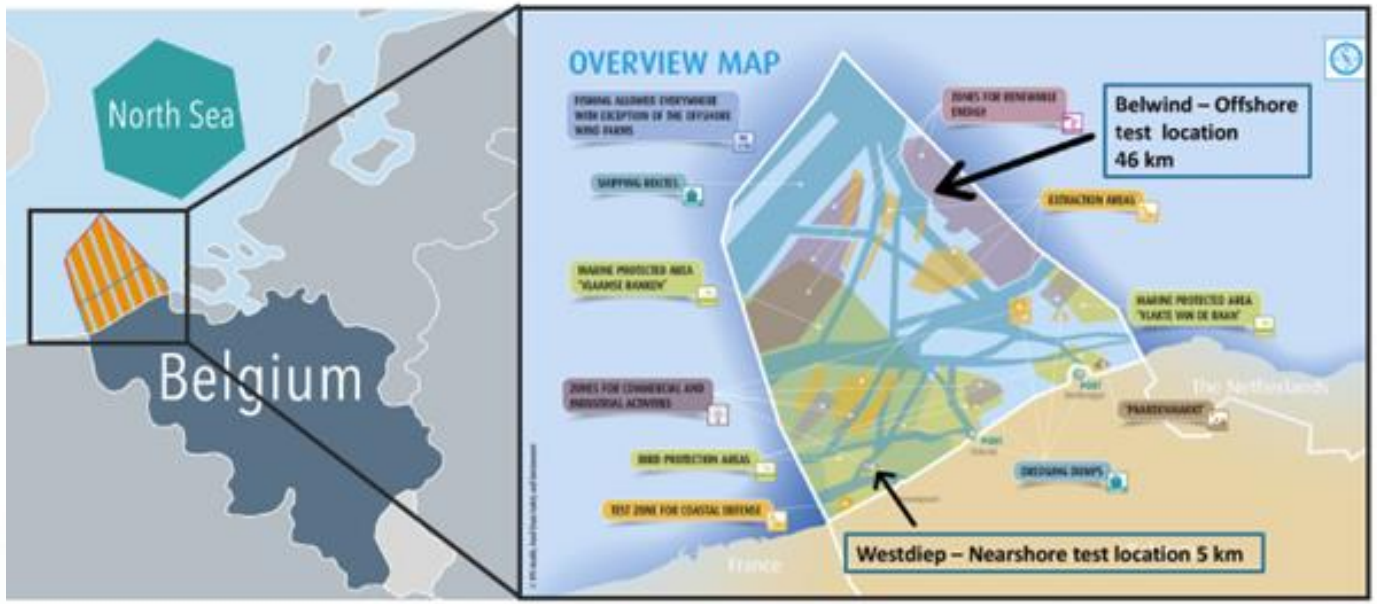
BELGIAN PILOT



UNITED

Building off lessons learned

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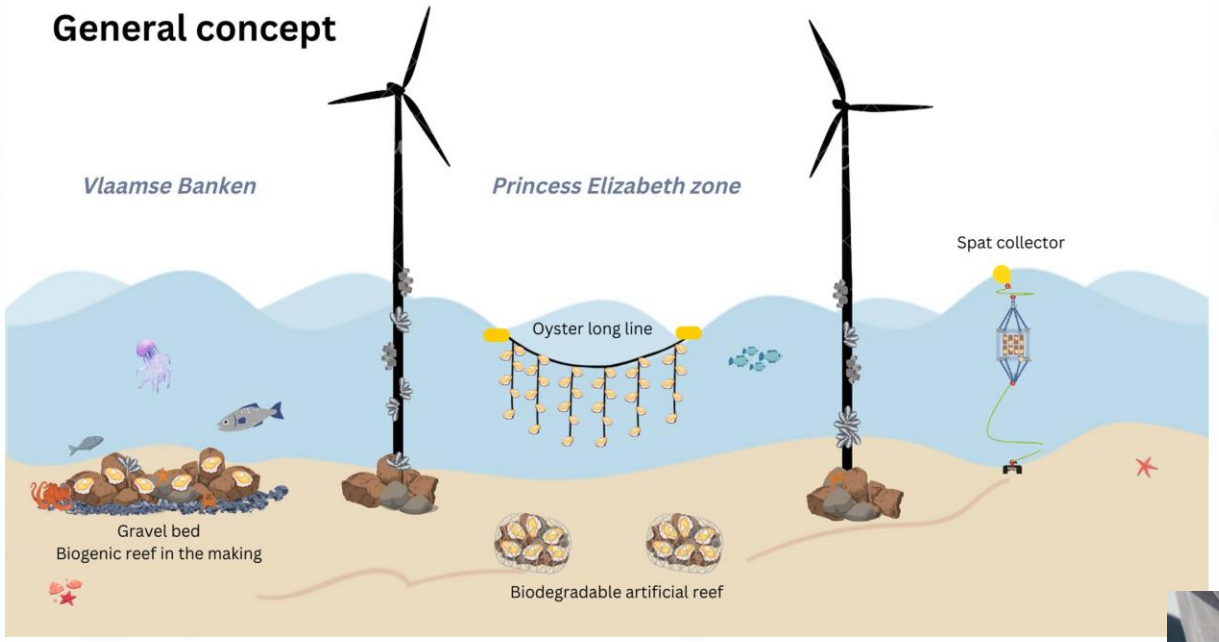
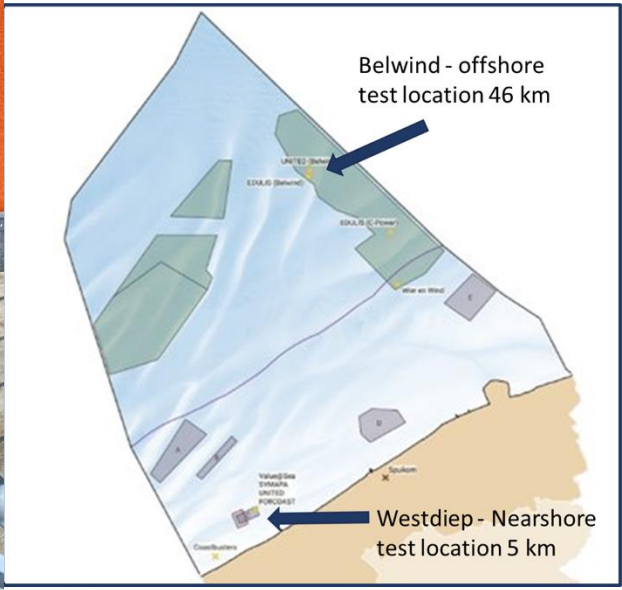
3.1.C. NID in the Belgian pilot: restorative aquaculture





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Artemia Reference Center

Results (Achievement highlights)

1. Submersible longline system for seaweed
2. Restoration of artificial reef design
3. Novel monitoring techniques for aquaculture : acoustic detection with multibeam for mussel longline culture
4. Nature Inclusive Design (NID)
5. Scalable cultivation of flat oysters (Spuikom Ostend)
6. Community of Practice

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Submersible Seaweed System – Test at BMRS

- 6 x seaweed nets installed
- 2 species seeded:
  - 3x *Alaria esculenta*
  - 3x *Saccharina latissima*

  } Comparing low and high seeding density
- Seeded with 2-step direct seeding

BANTRY MARINE RESEARCH STATION

IMPACT 9

GHENT UNIVERSITY

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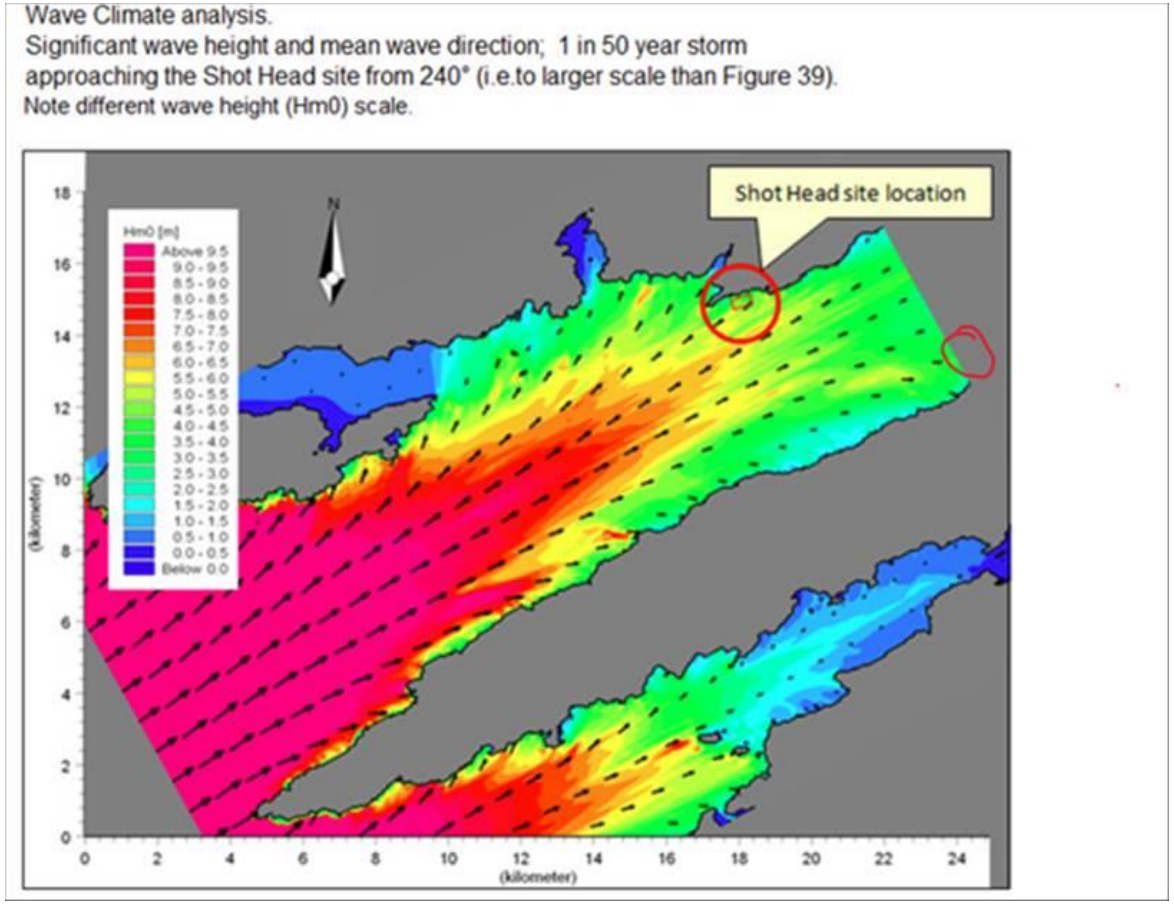
FARMS ULT

Submersible Seaweed System – Test at BMRS

Challenging weather conditions

- Storm Bert – 24h after installation
- First submersed test at 8 m depth
- system successfully brought back to surface after the storm without damage



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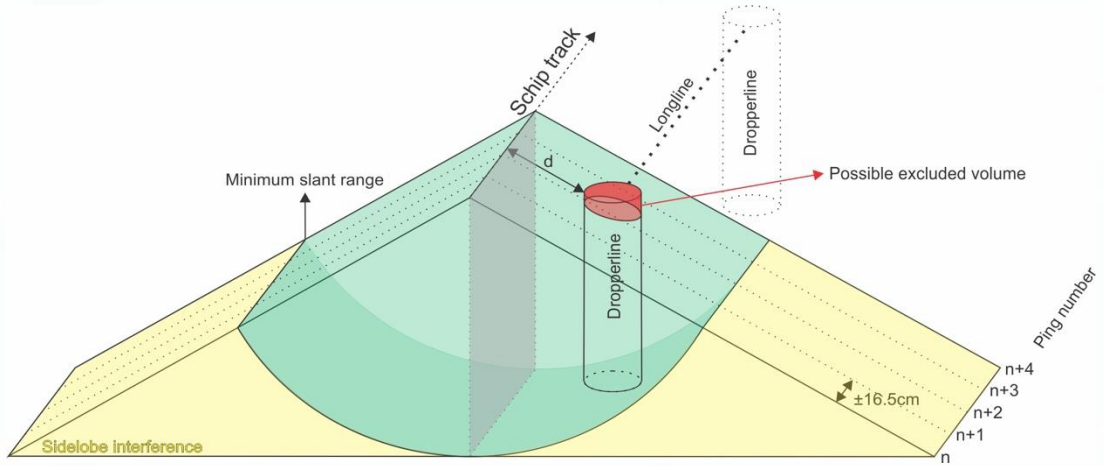
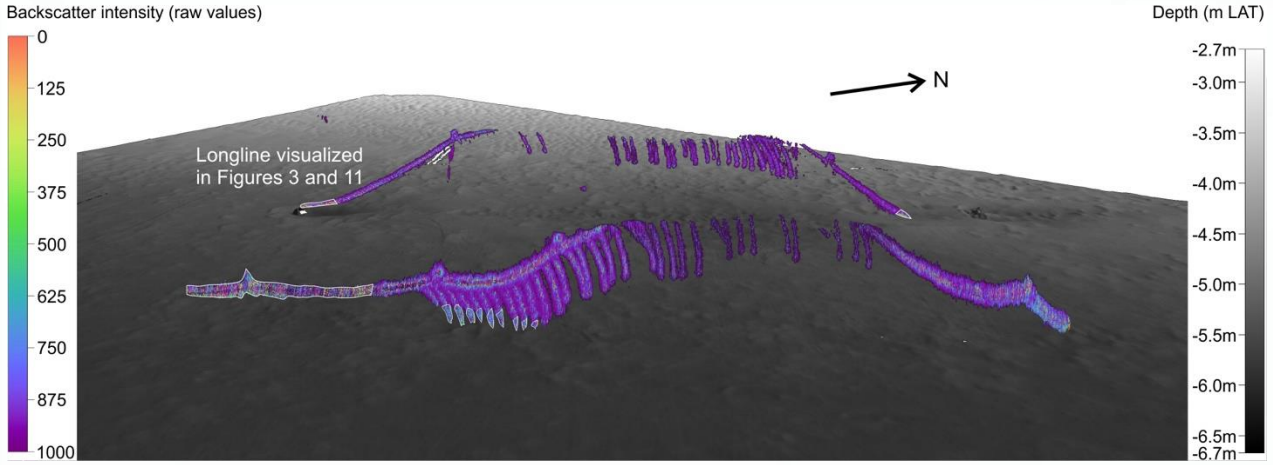
2. Novel monitoring techniques for aquaculture

Acoustic detection with multibeam (WP3 – task 3.4) for mussel longline culture

--> Method published in "Frontiers in Remote Sensing": Vandorpe et al. (2025)





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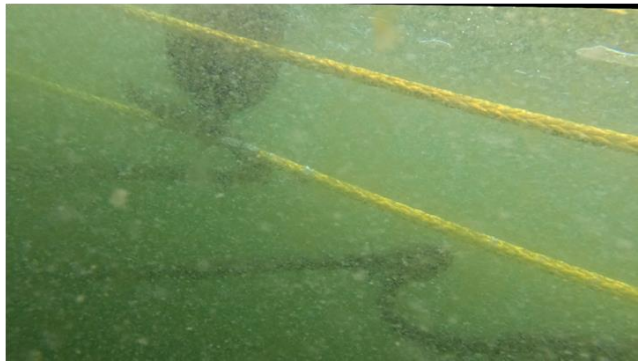
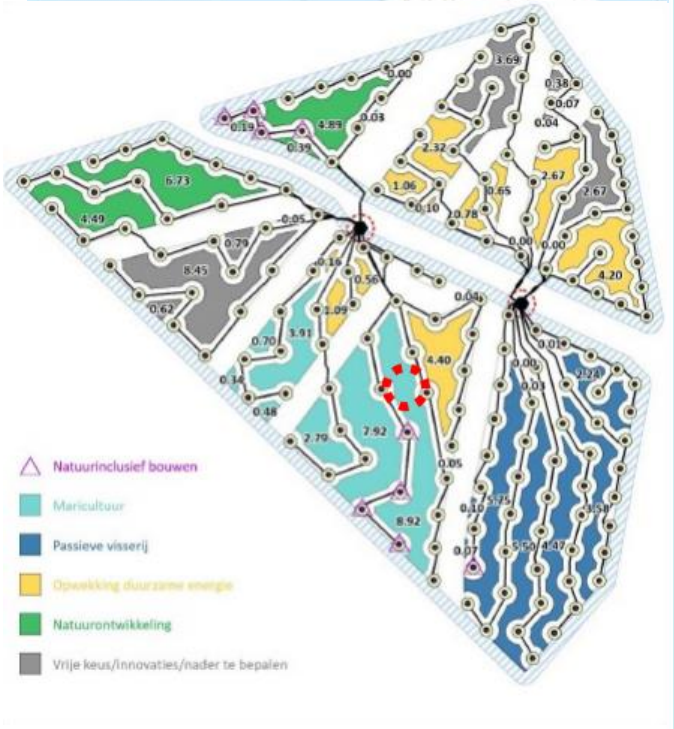
Dutch Pilot - Borssele III wind farm





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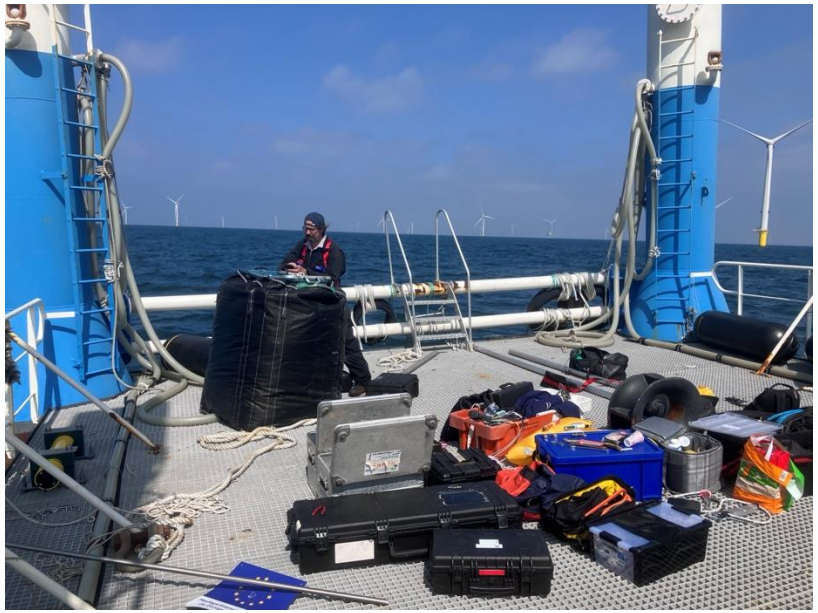
Monitoring birds and fish

- Camera takes pictures of platform and longlines above water
- Pictures analysed for bird presence
- Acoustic sensor for fish installed 14 August 2025
- Mussels of 1-15 mm present on monitoring line, not much on droppers



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Reef development

- Eco friendly artificial reef development (BESE)

•Installation of artificial reef at nearshore site (June 2024)
- Monitoring in April 2025
- Placement of new substrate in June 2025

arch and innovation programme under Grant
e author(s) only and do not necessarily reflect
ty can be held repsonsible for them.

Forschungs- und Entwicklungszentrum
Fachhochschule Kiel GmbH

Objectives of the German pilots – FINO3 & FINO2

- **Co-management** and **Co-design** to coordinate aquaculture with offshore operations, partners and stakeholders.
- Optimize **seaweed**, **mussel and oyster cultivation** techniques for **commercial scalability**, tailored to specific offshore conditions.
- Implement advanced remote and standard **monitoring systems** for efficient offshore management of remote system.
- Enhance biodiversity and environmental sustainability through **nature-inclusive designs (NID)**

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Baltic Sea FINO2: Fish Identification, NID growth

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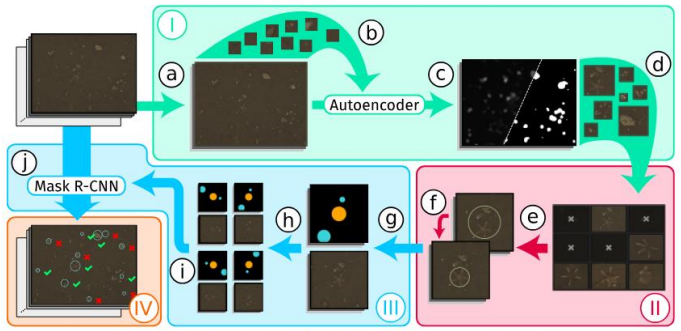
- Identification and quantification of fish at the NID-Frame using machine-based learning
- Analyzing species on NID Growth material
- Optimizing System and Cameras nearshore



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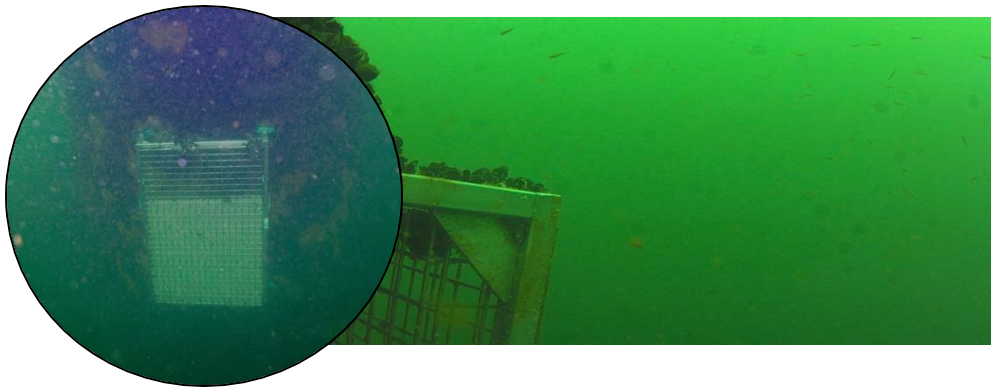
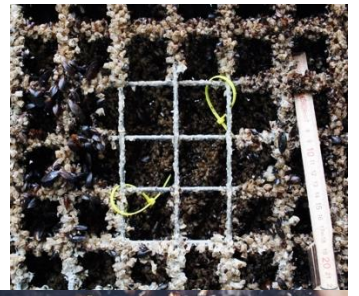


Nearshore testing:
System & Camera settings
NID analysis



Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul

Reporting period II: 2024 - 2025

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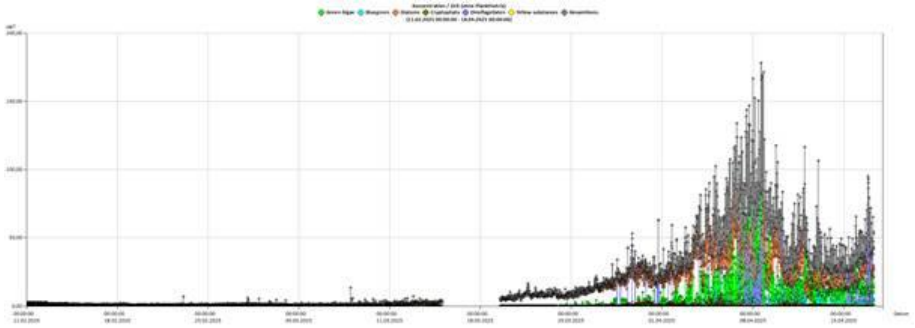
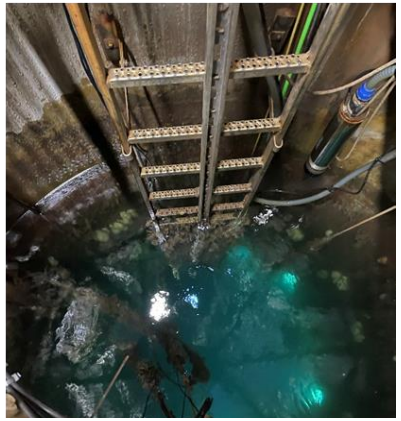
North Sea FINO3: In situ phytoplancton detection

bbe moldaenke — biological · biophysical · engineering

Forschungs- und Entwicklungszentrum — Fachhochschule Kiel GmbH

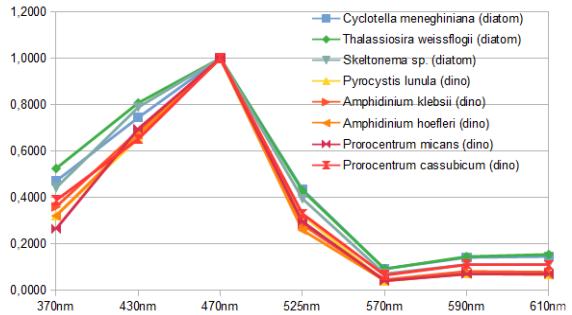
- Offshore installation
- First quantifications of microalgae
- Algae class differentiation by fluorescence spectra analysis
- Basis to assess potential toxic algae blooms for mussel cultivation safety





PhycoProbe inst.

PhycoProbe maintenance



May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul

Reporting period II: 2024 - 2025

Monitoring of environmental Parameters

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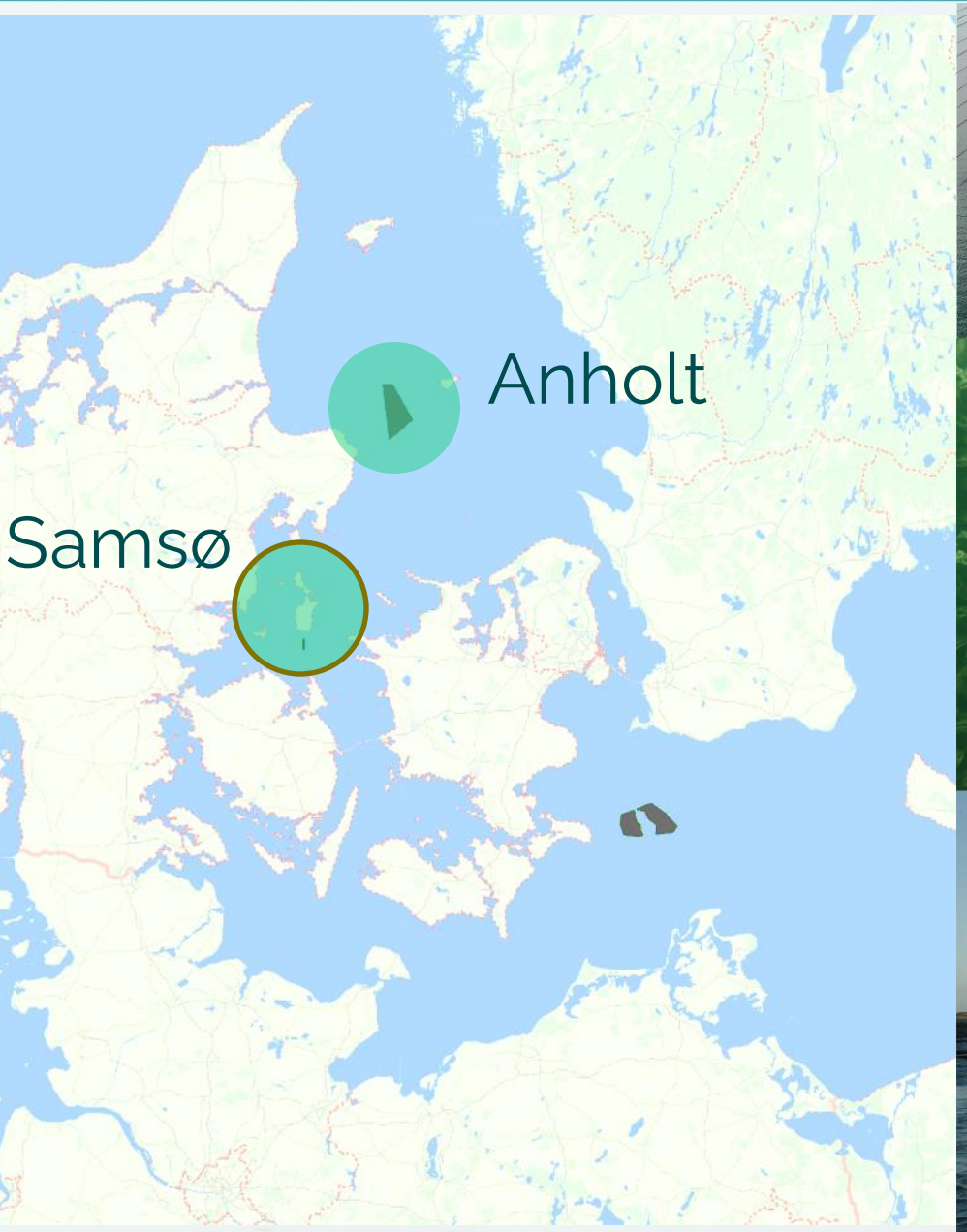
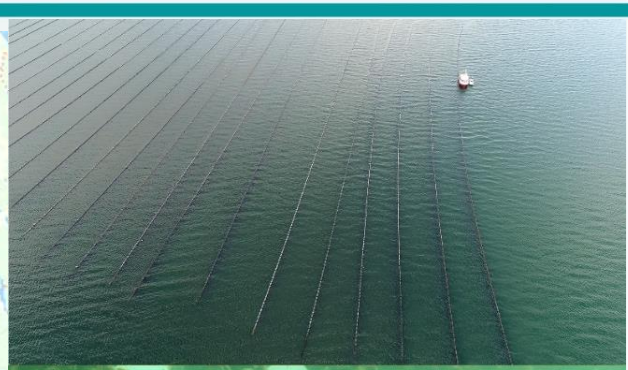
FARMS ULT

Anholt is an experimental site for:

- Seaweed and mussel cultivation
- Offshore gear development and testing
- Environmental and farm physical monitoring
- Biodiversity assessment



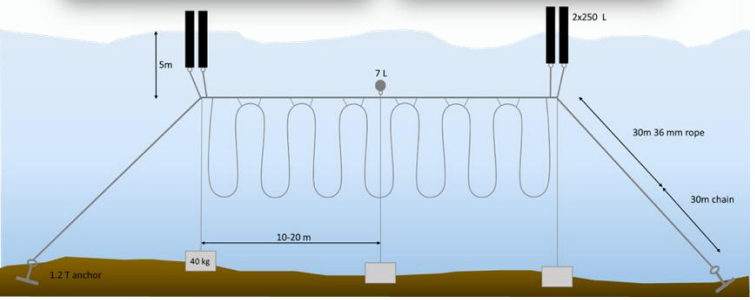


Samsø is a commercial test site for:

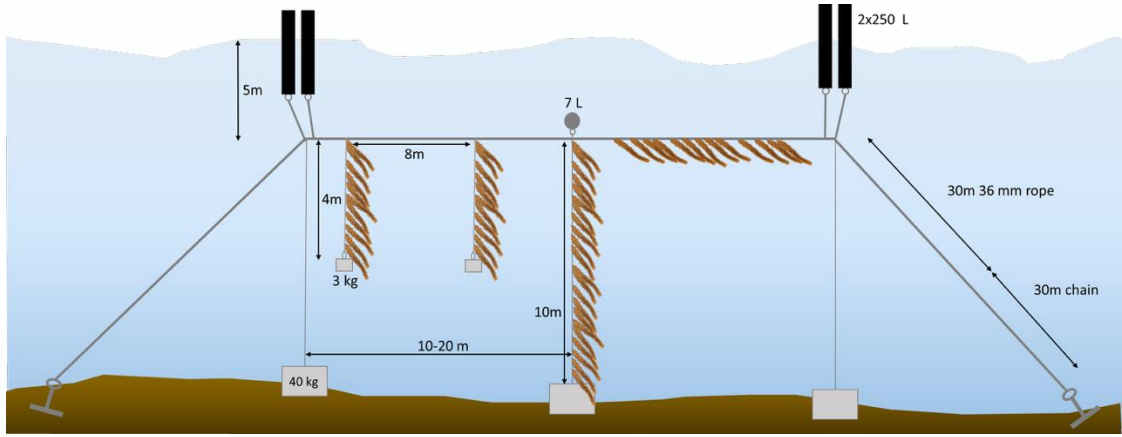
- Commercial mussel farming
- Testing of existing technology (tubes and net)
- Will start spring 2024

Setup of the pilot

seaweed longlines (Anholt)



- 2 longlines
- 3 types of spat collectors
- Depth: 5-7 m
- Loop cultivations systems
- Two production periods



- Two production periods
- Two (one) lines
- 5-15 m

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Results (Highlights - Anholt)

Farm visit June 2025:

- Seaweed
  - Small and pale
  - Only 2-year bottom sugar kelp reached harvestable size
  - Environment too challenging (salinity/light) for profitable production



- Mussels
  - Good size, biomass, quality:
    - September 2024: 2-2.7 kg m^{-1}
    - June 2025: 5-16 kg m^{-1}
  - 2nd season spat collectors deployed


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Results (Submersible tube)

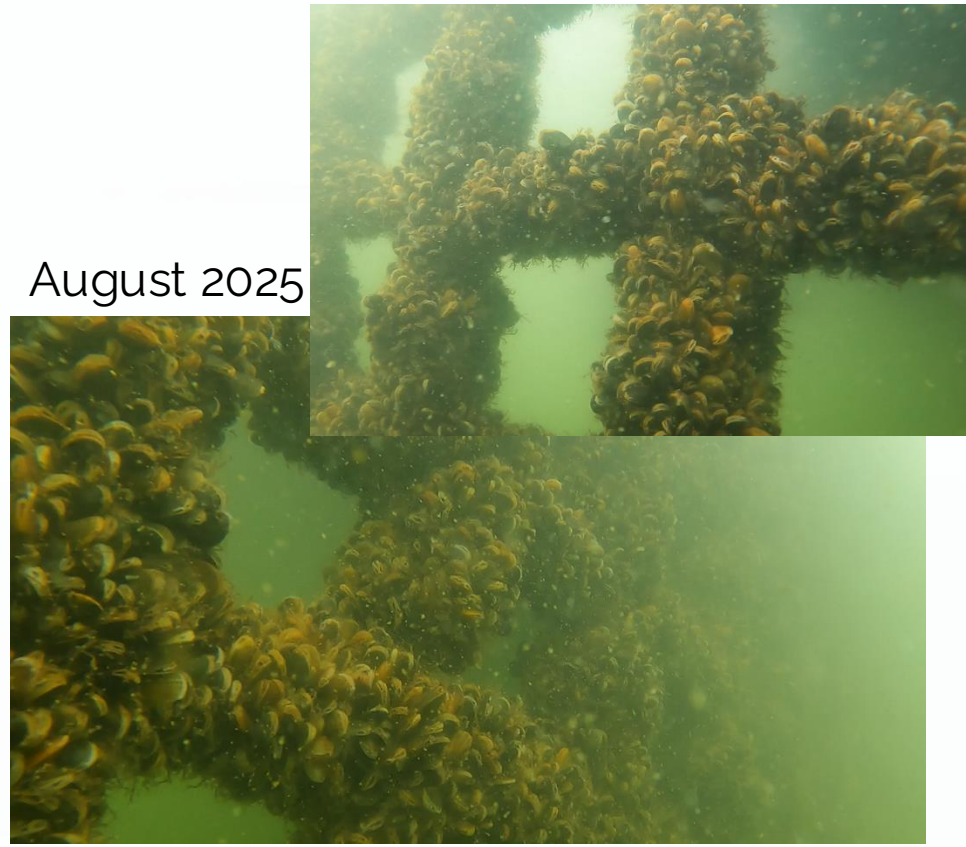
Prototype 2.0 (bigger air bladders) :

- Performance test in the harbor during **winter 2025** (weight vs. pressure)
- Deployment at mussel farm site in **May 2025**
- Good spat recruitment (**August 2025**)

- **August --->** : continuous monitoring and knowledge build up in terms of pressure adjustment as biomass build up
  - current pressure= 1 bar = submerged
  - With 375 kg of concrete weight

- **Final test:** expected biomass in spring=10 ton
  - Will it surface?

August 2025



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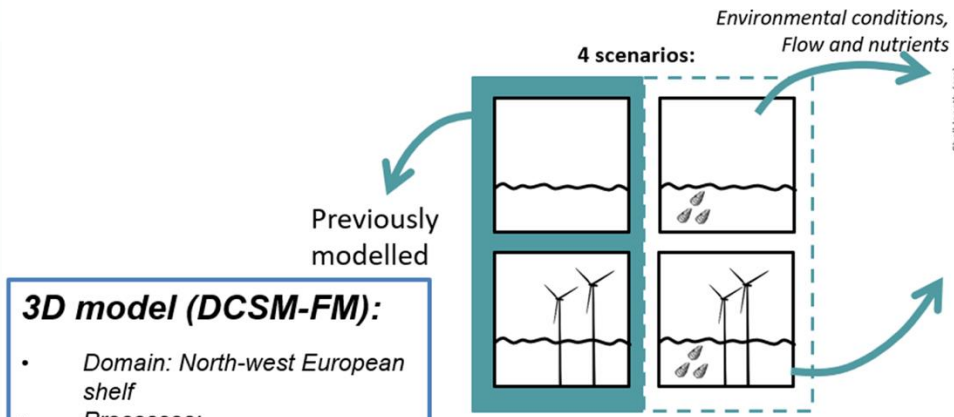
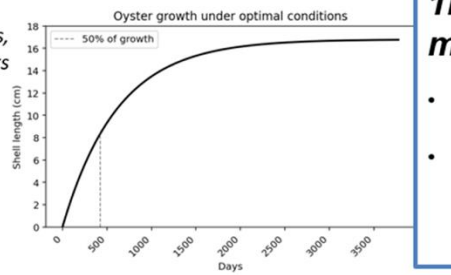
Sustainable Low Trophic Aquaculture and Energy Production

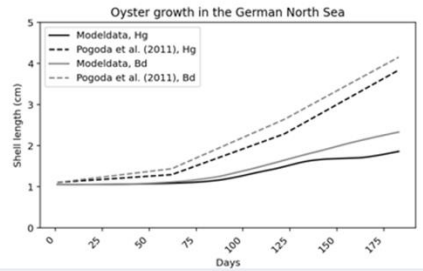
Circular Low Trophic Offshore Aquaculture in Wind Farms and Restoration of Marine Space



3D model (DCSM-FM):

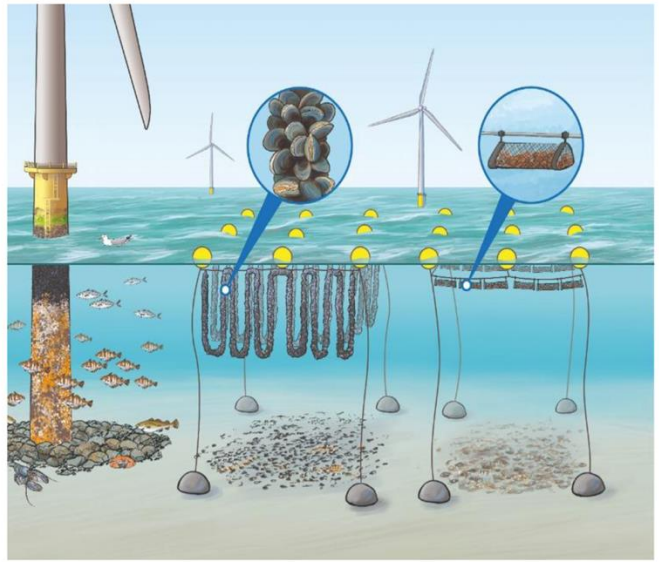
- Domain: North-west European shelf
- Processes:
  - Hydrodynamics
  - Water quality

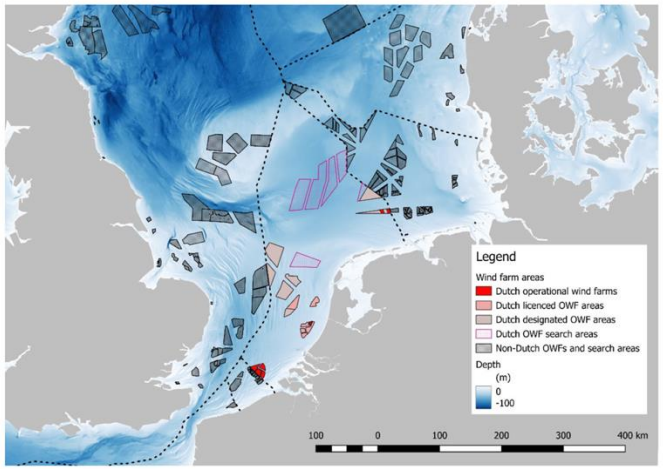




1D vertical model:

- Different suitable locations
- Processes:
  - Water quality
  - DEB oyster module





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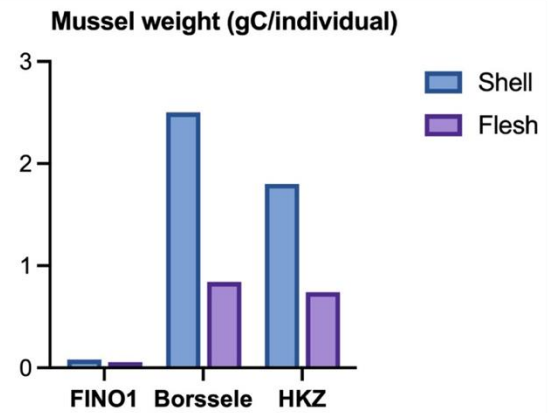
Circular Low Trophic Offshore Aquaculture in Wind Farms and Restoration of Marine Space

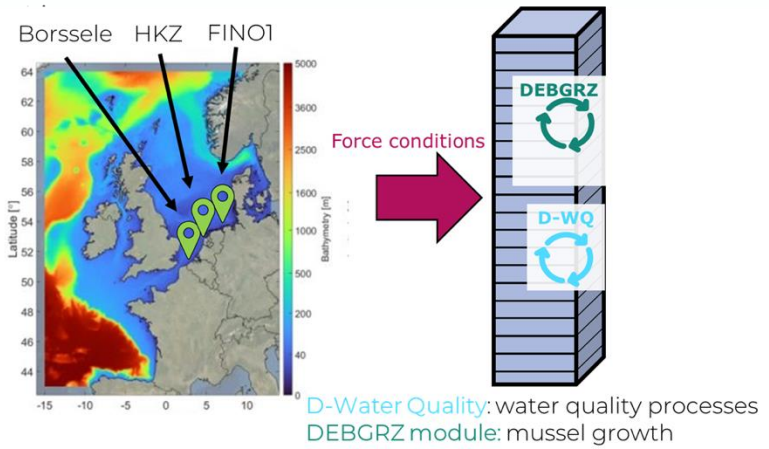
- The potential for shellfish aquaculture co-located in wind farms was tested with Delft3D-FM model and applied to three wind park locations: FINO1, HKZ and Borssele
- Carbon fluxes and storage in mussel flesh and shells were quantified



in collaboration

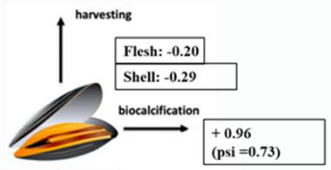
EDITOModelLab

Grant Agreement No.



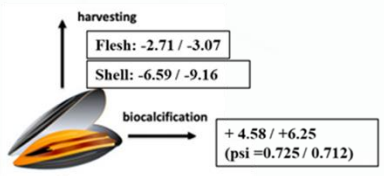
Preliminary carbon fluxes (year 1)

FINO1: carbon source



Mass balance of shells, corrected for biocalcification: **-0.67 g CO_2/indv**

HKZ and Borssele: carbon sinks



Mass balance of shells, corrected for biocalcification: **2.01 and 2.91 g CO_2/indv**

Access the full poster here

- Model can be applied to identify promising sites for multi-use, estimating mussel production potential and optimal cultivation densities
- Shell formation can be source or sink of carbon depending on locations, but further research is ongoing

https://doi.org/10.5281/zenodo.11620977

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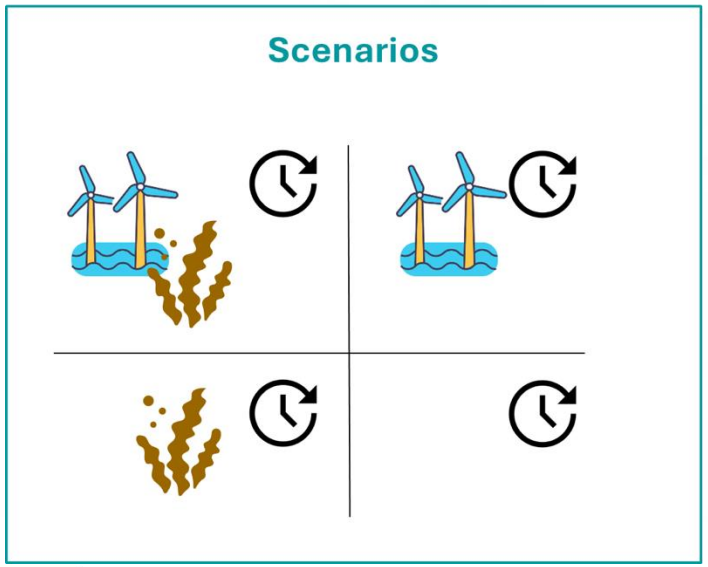
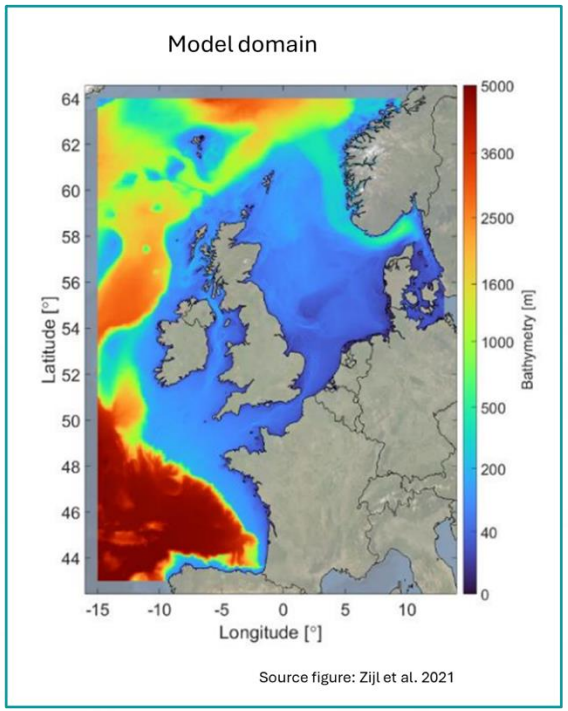
Sustainable Low Trophic Aquaculture and Energy Production

Circular Low Trophic Offshore Aquaculture in Wind Farms and Restoration of Marine Space

- Using Delft3D-FM model suite with different modules
  - D-Flow Flexible Mesh
  - D-Water Quality
  - Macro Algae Growth Module
- Model domain: North-West European shelf

- Impact of offshore wind farms on hydrodynamics and water quality
- Interaction with seaweed aquaculture
- Under historic conditions and climate change scenarios





Source figure: Zijl et al. 2021

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Inspiration for **Transition Agenda (TA)** funding

BlueBioClusters

Mariana Paupério

Senior Project Manager

The Portuguese Marine Bioresources Network – BLUEBIO ALLIANCE

BlueBioClusters

Community of Practices

Mariana Paupério

Senior and Finance Project Manager at BLUEBIO ALLIANCE

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Horizon Europe

BLUE ACTION BANOS

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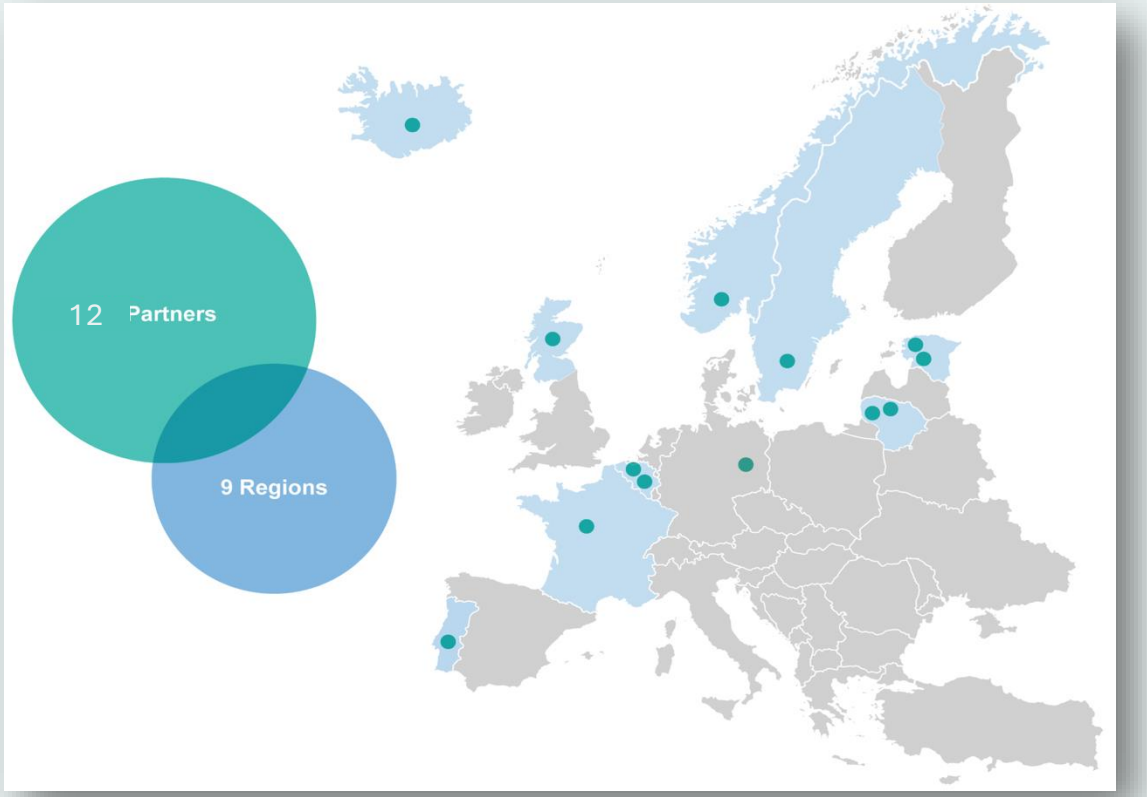
www.blueactionbanos.eu

Project Consortium



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Community of Practice

Country	Area
Belgium	Flanders
Estonia	Saaremaa
France	Brittany & Pays de la Loire
Iceland	Iceland
Lithuania	Klaipeda
Norway	Møre and Romsdal
Portugal	**Peniche**
Sweden	Only blue vision

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Community of Practice Peniche

STARTUPS

BLUEBIOCLUSTERS PARTNERS

COSTUMERS / END-USERS

SMALL AND MEDIUM ENTERPRISES

EUROPEAN UNION

LARGE COMPANIES

ANCILLARY SERVICES

SUPPORT ACTORS/MENTORS

NATIONAL PUBLIC ENTITIES AND POLICY MAKERS

COASTAL REGIONS CITIZENS

COASTAL REGIONS REGIONAL GOVERNANCE

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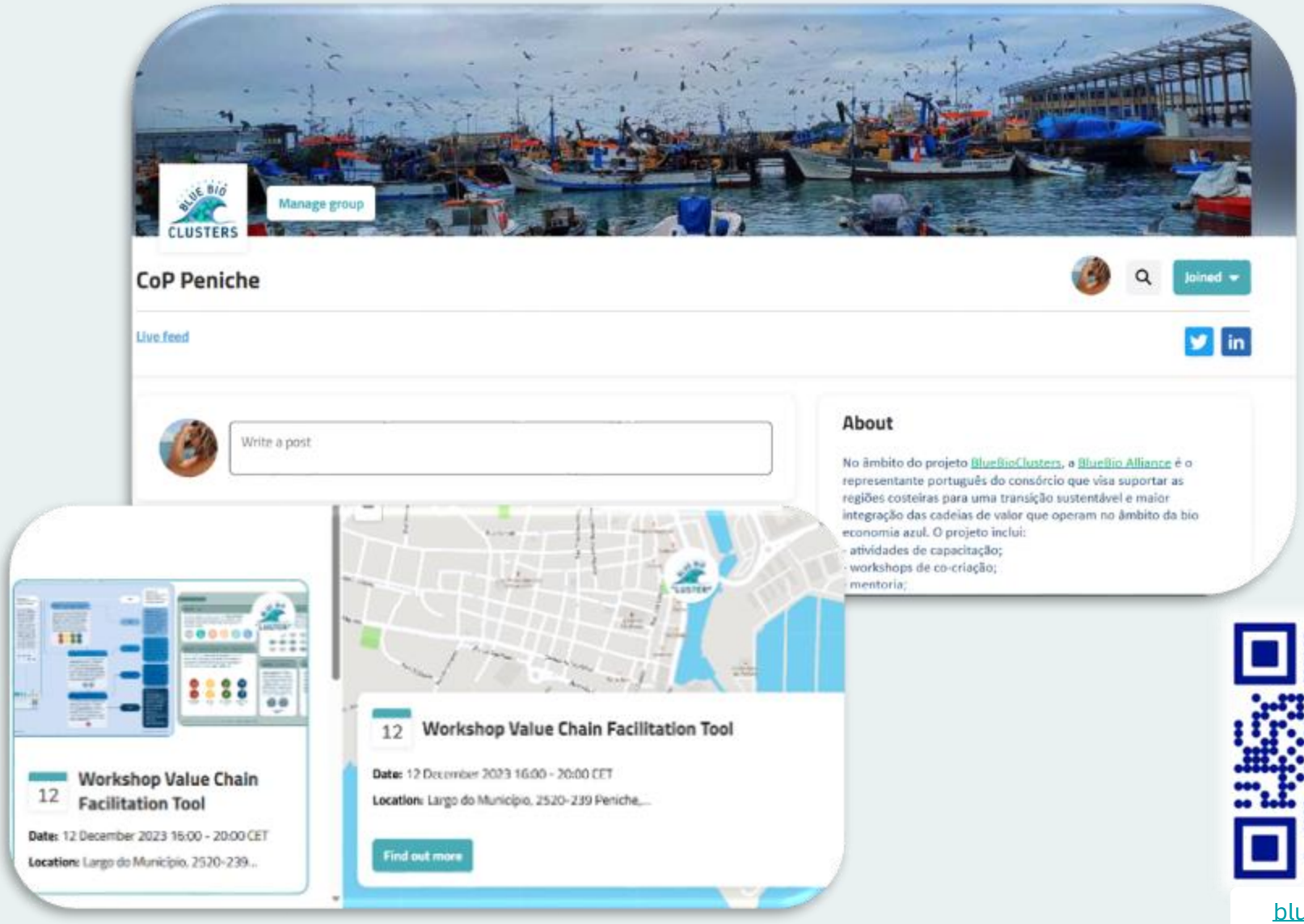
Community of Practice Peniche



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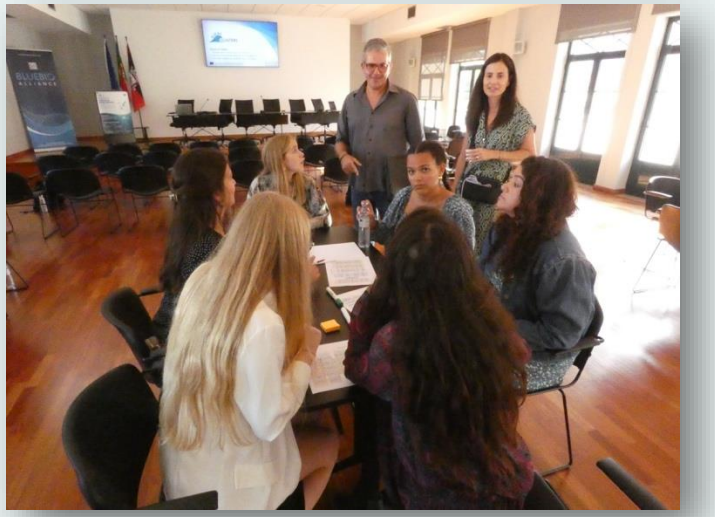
Session 1 - Blue Vision Workshop



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Session 1 - Blue Vision Workshop

1. Challenges for strengthening the blue economy in Peniche:

- Sustainable use of marine and ocean resources
- Reduction of marine pollution
- Bioremediation
- Water decontamination
- Algae waste and byproducts
- Waste from the agar-agar industry (*Gelidium*)
- Dispersion of fishing net waste throughout the port area
- Excessive nautical tourism
- Poverty of the local population
- Resistance to change
- Funding and investment available in the long term

2. Identification of the two main value chains in the region:

Fish

Macroalgae

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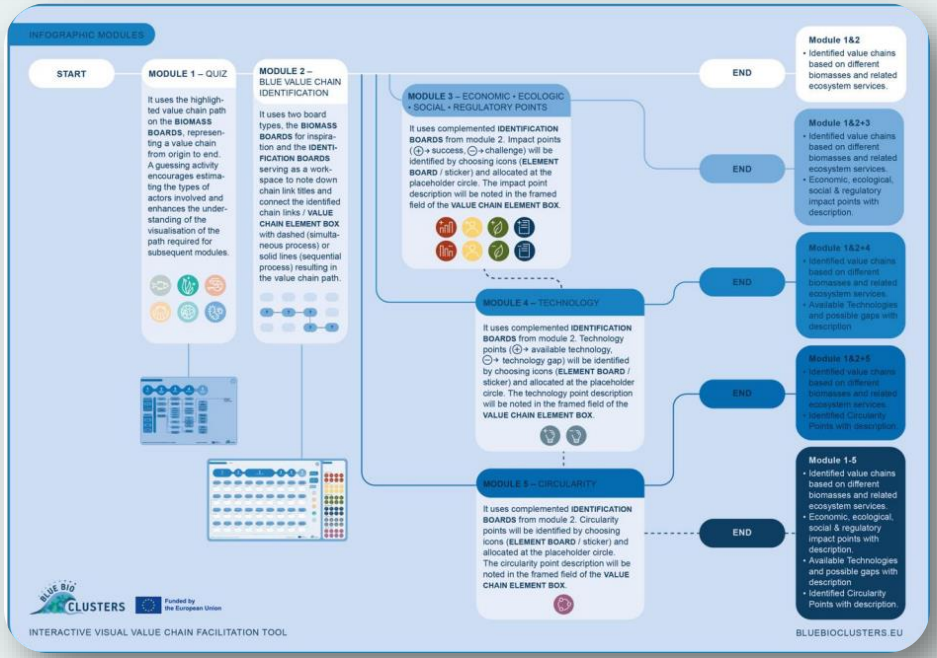
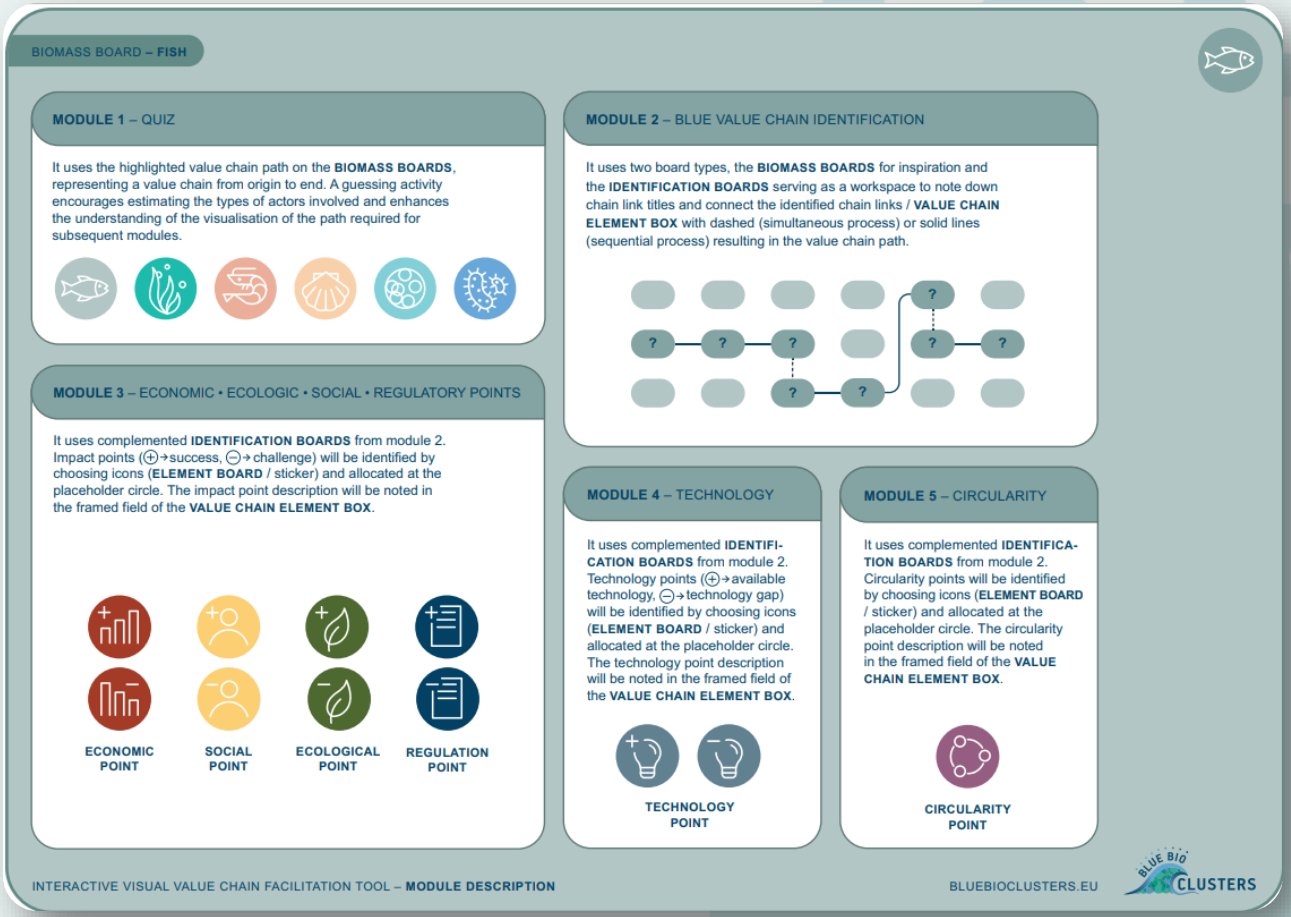
Session 2 & 3 - Value Chain Inter Facilitation Tool





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Session 2 & 3 - Value Chain Inter Facilitation Tool

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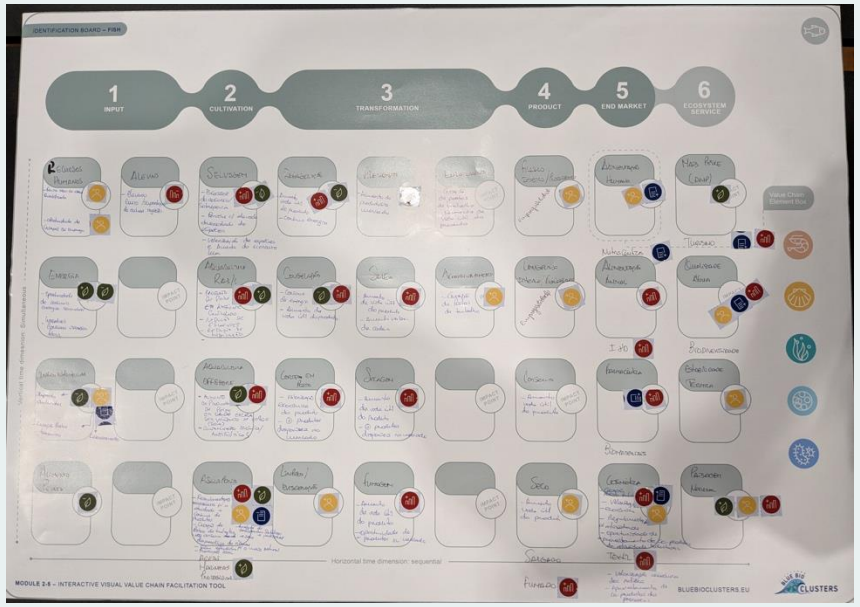
Session 2 & 3 - Value Chain Inter Facilitation Tool

List of **challenges** and **opportunities** of each value chain (fish and macroalgae) to support strategic decisions using 5-helix participants' input.



Maximize the economic value of value chains related with **fish** and **macroalgae** by exploring new products, technologies and services in a sustainable and circular approach.

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Session 4 – Blue Vision Peniche: Sustainable Transition for Blue Bio Economy - Roadmap

"Challenges to the valorization and sustainable transition of **macroalgae** and **fish**-based value chains."

Certification of sustainability practices across the fish value chain

Commitment to preserving the marine ecosystem, transparency in sustainability, and circularity practices of processes (fishing, processing, packaging and distribution, etc.).

Addressing the traceability for the final consumer about the distinction of quality and promoting an economic valorisation of the final product 'Fish from Peniche'.

Valorisation of macroalgae byproducts

Using compounds from algae blooms (*Gelidium*) in the region after agar-agar extraction.

The final results are expected to identify new processes and/or new products and/or new applications that can enable new economic products and commercial activities in the region in market.

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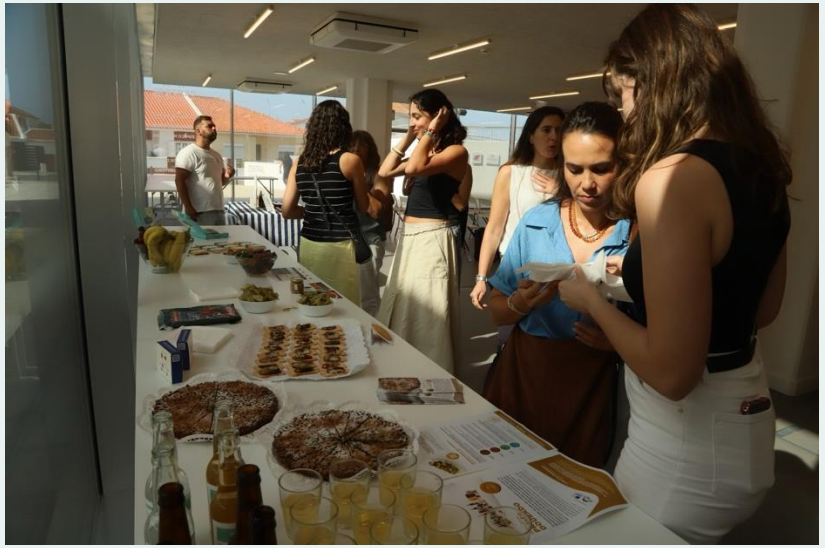
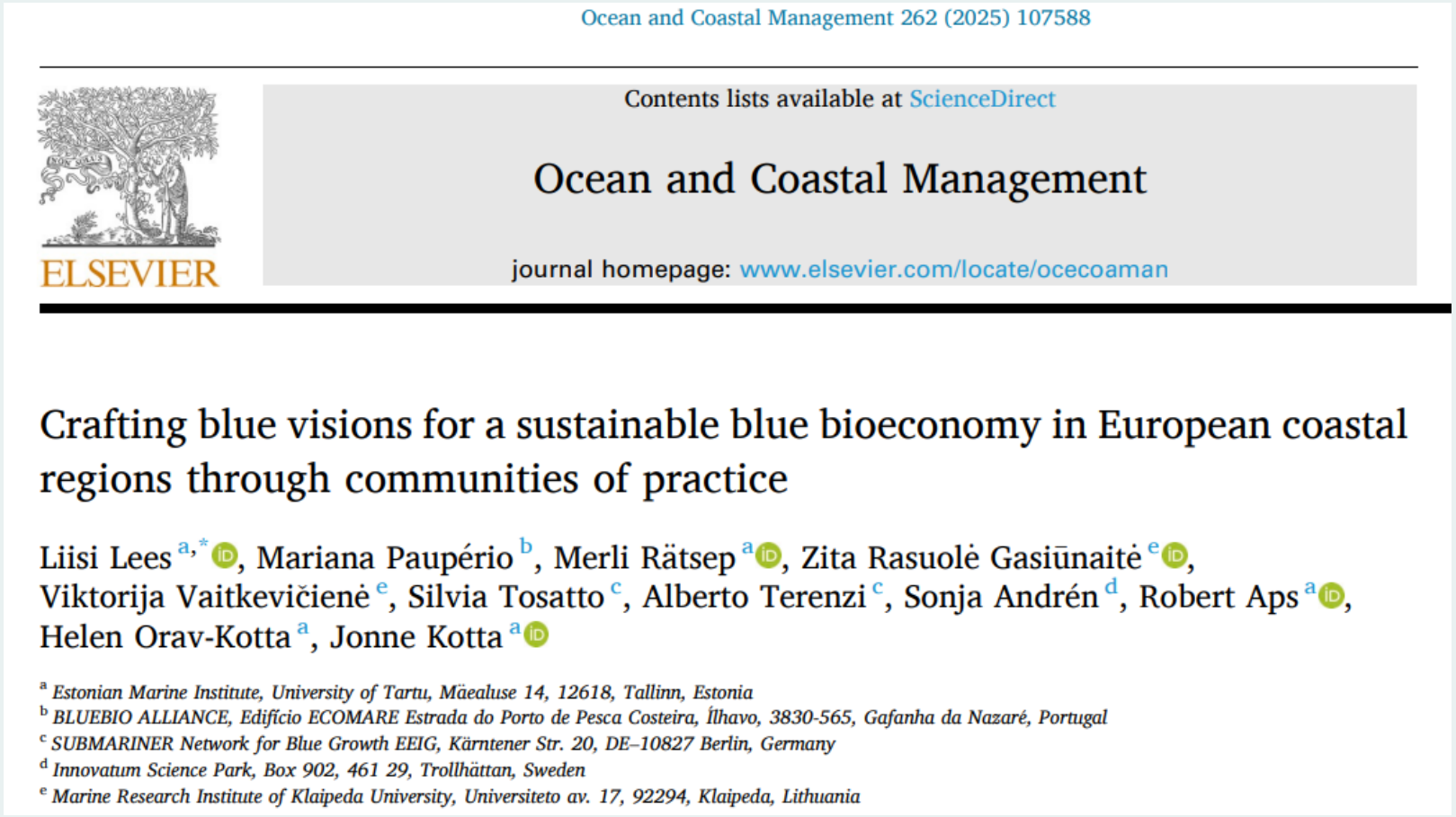
Session 4 – Blue Vision Peniche: Sustainable Transition for Blue Bio Economy - Roadmap



Lessons Learned



Ocean and Coastal Management 262 (2025) 107588

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journal homepage: www.elsevier.com/locate/ocecoaman

Crafting blue visions for a sustainable blue bioeconomy in European coastal regions through communities of practice

Liisi Lees [a,*], Mariana Paupério [b], Merli Rätsep [a], Zita Rasuolė Gasiūnaitė [e], Viktorija Vaitkevičienė [e], Silvia Tosatto [c], Alberto Terenzi [c], Sonja Andrén [d], Robert Aps [a], Helen Orav-Kotta [a], Jonne Kotta [a]

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[c] SUBMARINER Network for Blue Growth EEIG, Kärntener Str. 20, DE–10827 Berlin, Germany
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Access the article here.

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Lessons Learned

- ✓ Clear and **well-defined goals** to guide the overall process.
- ✓ **Targeted actions** addressing specific hurdles, challenges, and stakeholder needs.
- ✓ **Individual meetings** and interviews (in-person) to ensure tailored support and insights.
- ✓ Identify and engage stakeholders who have the ability to influence unlock processes and **play a strategic role** in the process.
- ✓ Maintain **focus** rather than working on too many broad topics at once.
- ✓ Use of **dedicated support tools** during sessions to enhance effectiveness.
- ✓ Active and continuous **communication** about ongoing processes and activities.
- ✓ It is important to speak and translate into the **local language**.
- ✓ Dedicated time for **networking** and discussions to identify synergies is essential.
- ✓ A **forward-looking roadmap** to ensure sustainability beyond the project.

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Thank you for your attention!

https://bluebioclusters.eu/

https://www.linkedin.com/company/bluebioclusters/

https://twitter.com/bluebioclusters

http://www.bluebiomatch.eu/

Mariana Paupério

Senior and Finance Project Manager at BLUEBIO ALLIANCE

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BLUEBIO ALLIANCE

Inspiration for **Transition Agenda (TA)** funding

Saucisse à l'Ostendaise

Wim Quinet

General Manager

Revi Food bv

An Interesting Future Proof Fish Story!

Zeebonk Business Case (FIVA – EFMZVA)

Wim Quinet

ZEE BØNK
AGENTSCHAP LANDBOUW & ZEEVISSERIJ
Medegefinancierd door de Europese Unie
west-vlaanderen de gedreven provincie
Revi



Medegefinancierd door de Europese Unie

Company presentation

REVI FOOD

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OOSTENDE AWARDS 2025

runner-up company of the year 2025

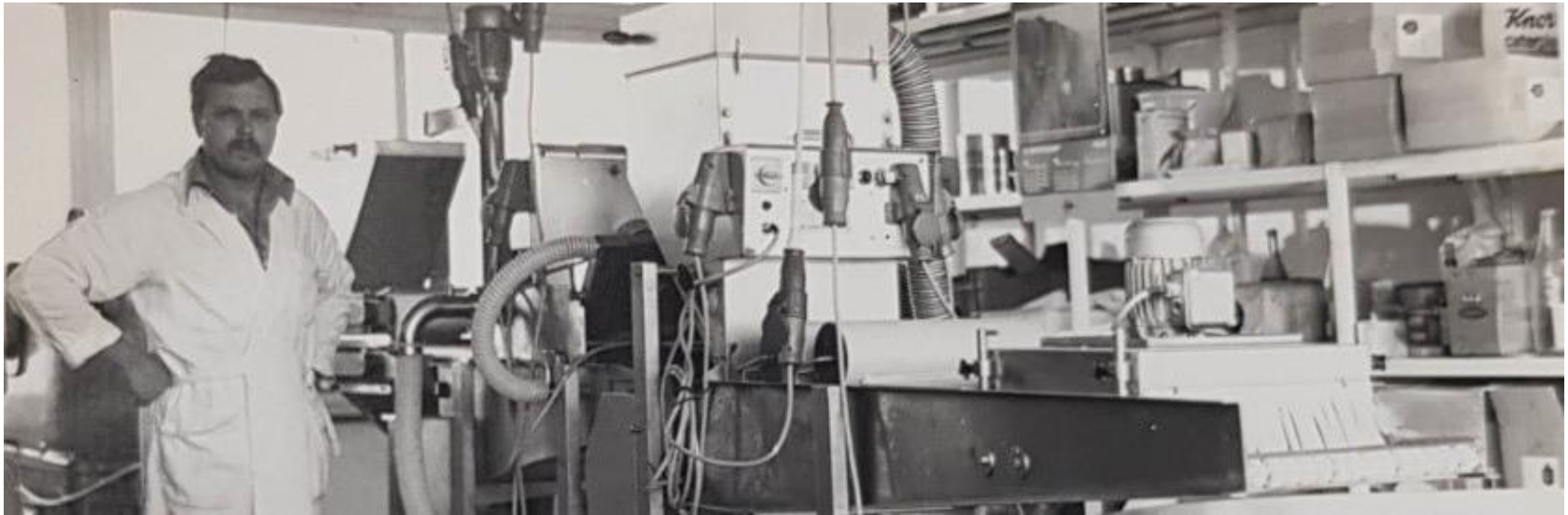
Revi Food was founded 35 years ago by René Quinet and his wife Viviane. René started as a wholesaler to local traders in Ostend and the surrounding area. In the very beginning there was no in-house production.

Today, Revi is a rapidly growing, innovative production company, located in the heart of the Ostend fish market, 200m from the North Sea, with the production of fish preparations with high added value as their core business, both FRESH and FROZEN.

Revi Food is currently experiencing strong growth with our team.

Today, Revi Food employs approximately 65 permanent workers, supplemented with temporary workers.

Medegefinancierd door de Europese Unie



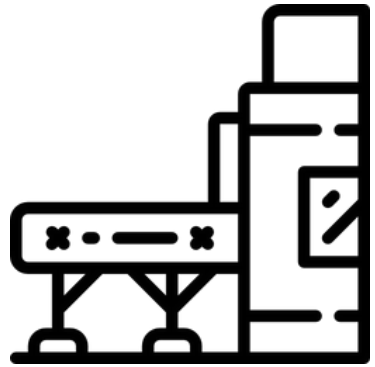
Numbers

Turnover 2024:
> 15.000.000 EUR

Growth since
2010: +/-15%

6 million
croquettes/year

400 tons of
fish/seafood



+/- 3,5 million food
components/year

Medegefinancierd door de Europese Unie

Expansion '23-24

In order to continue to realize this growth, we started the construction of a new building in mid-2021, next to the current production hall. The extension was commissioned in 2023 and houses the following:

- additional production space
- loading and unloading quays
- additional storage spaces
- new offices – lab – R&D facilities - …

In addition to the new construction, we also continue to invest in our machinery and fleet, as well as in our staff.

Artisanal croquettes

0-4°C

-18 °C

Ready meals

0-4°C

-18 °C

Soups & broths

0-4°C

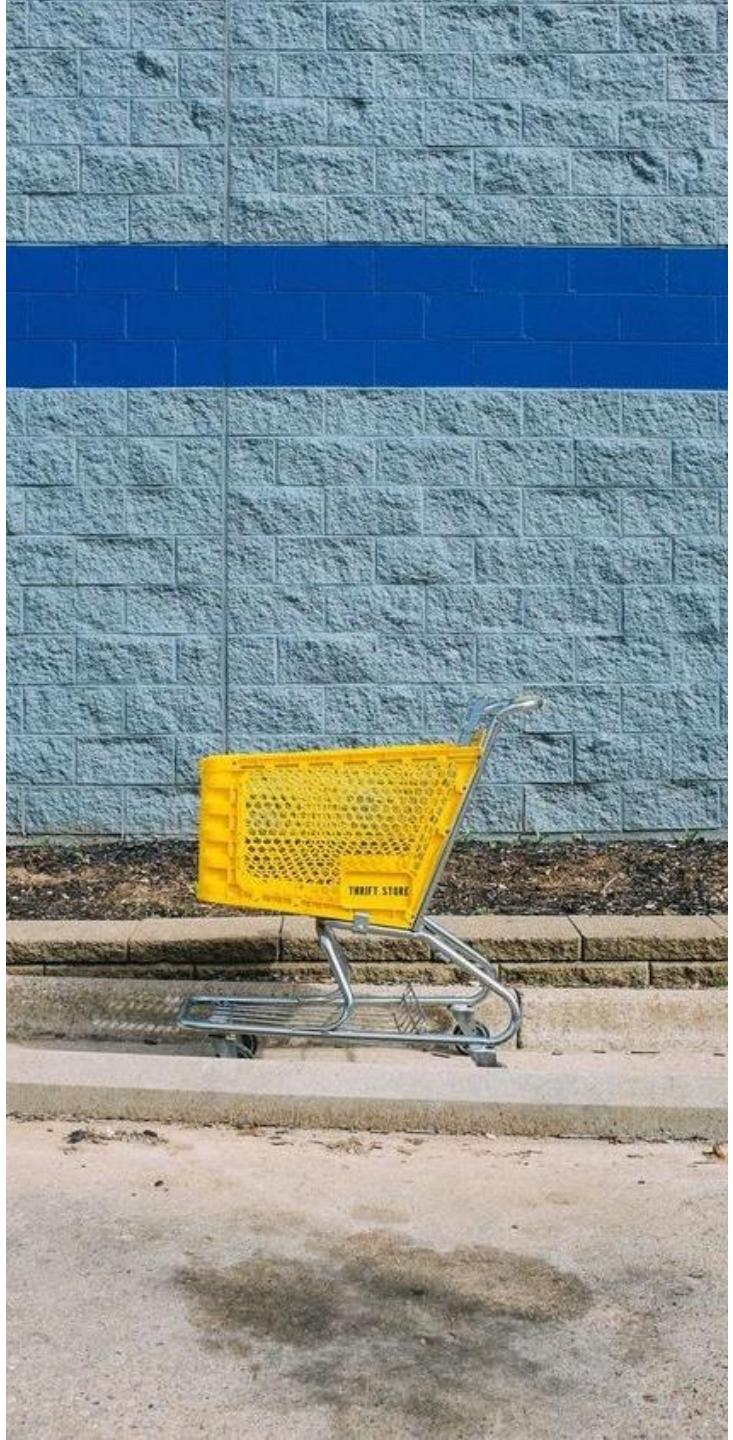
Spreads

0-4°C

Sauces

0-4°C

Product Range



Markets

Medegefinancierd door de Europese Unie

RETAIL

Revi Food is the preferred supplier of the largest retail chains – Delhaize, Albert Heijn, Carrefour, Lidl, Colruyt ... all stock our top products on their shelves.

FOODSERVICE

Our products are loved by both caterers and top restaurants.

WHOLESALE

Several wholesalers and cash and carries, both in Belgium and the Netherlands, are among our loyal customers.

EXPORT

In addition to Belgium, we supply retailers in France, Netherlands and Luxemburg.

Saucisse à l'Ostendaise · Revi

Zee Bonk · Agentschap Landbouw & Zeevisserij · Medegefinancierd door de Europese Unie · west-vlaanderen

Partnerships

Gault&Millau
Gault&Millau
CULINARY INNOVATORS
North Sea Chefs x Revi Food 2023

NORTH SEA CHEFS SINCE 2011

VLV
VLAAMSE VISVEILING nv
ZEEBRUGGE & OOSTENDE

Sustainability

IFS Food

GECERTIFICEERD DUURZAME VISSERIJ MSC www.msc.org/nl ™ MSC-C-52511

VERANTWOORDE KWEEK asc GECERTIFICEERD ASC-AQUA.ORG ™ ASC-C-00495

CERTIFIED SUSTAINABLE PALM OIL ™ RSPO

VISSERIJ VERDUURZAAMT VERS UNE PÊCHE DURABLE

Innovation

INNOVATION IN PLANTBASED:

Innovation is an important part of our DNA - daring to think outside of the box.

CRUSH

MONSIEUR BOUDIN

LIMITED SUCCES WITH PLANTBASED PRODUCTS:

- In Belgium:
  - * 6,5% of consumers is Vegetarian (growing very slowly)
  - * Vegan 0,5% of consumers
- High competition/over capacity in Plantbased Shelf

SOLUTION: HEALTHY FISH BASED

ZEEBONK

Small-scale funding for responsible entrepreneurship North Sea coast

- Investments in sustainable economic growth and social wellbeing
- For local coastal community
- E.g., local, sustainable innovation in the fishery and aquaculture sector

- Total budget ca. 2.2 million EUR
- Support up to 150,000 EUR/project
- Project duration ca. 1 year

→ Similar in **budget, duration** and **sustainability goals** to the BlueActionBANOS **Transition Agendas**

Zeebonk selected project:

Saucisse à l'ostendaise

HOW TO COMBINE:

- Local fish
- Longer shelf life
- Easy to Prepare: oven, airfryer, pan, fry, BBQ, …
- Kid Proof! Make kids eat more fish.
- Making fish affordable!
- Local branding – Ostend is the capital of fishery in Belgium.

Medegefinancierd door de Europese Unie

Product Development

PHASE 1:

Developing of the prototypes:
Goal: create market ready product
Fish based sausage

PHASE 2:

Elaborate testing of product Quality
Organoleptic testing
Testing structure after baking, frying, airfryer, …

PHASE 3:

Large scale production test
First production in our production facility was successful.

Medegefinancierd door de Europese Unie

Product Development

PHASE 4:

Checking shelf life – microbiology for different packaging types:
=> Consumer market
=> Food professionals

- PHASE 5:

Fully adapt production Facility for large scale production.

Adapting production lines
Adapting packaging line

- PHASE 6:

SALES EN MARKETING

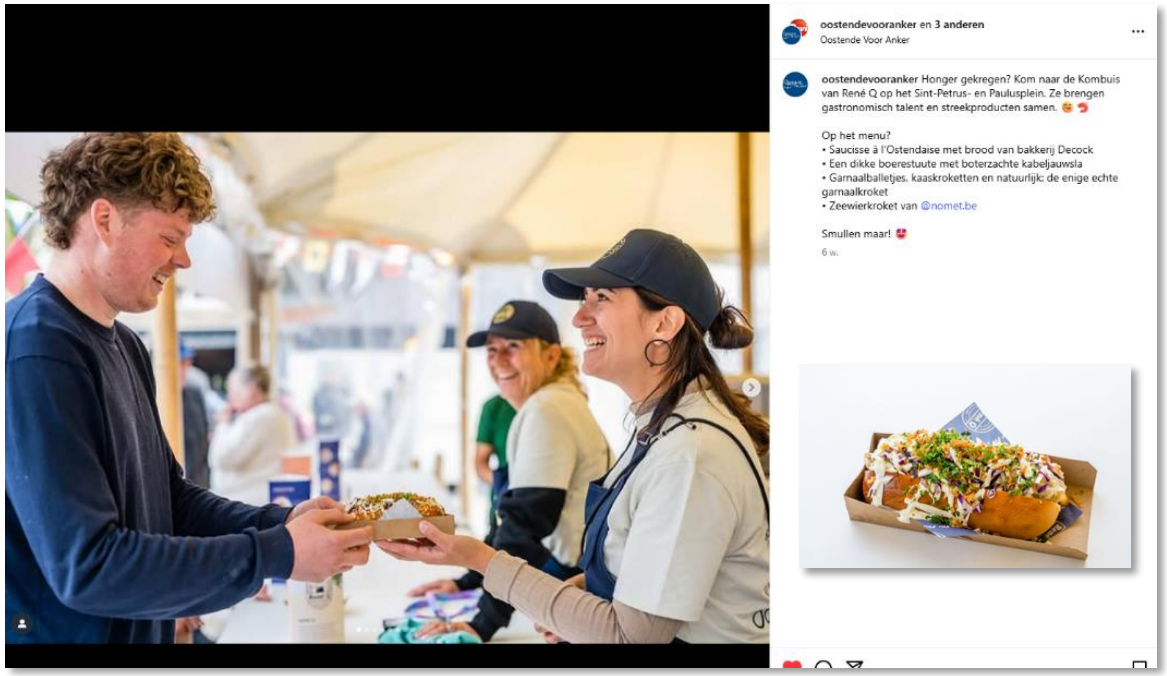
Social media – Local Events - Press

Saucisse à l'Ostendaise

oostende voor anker culinair © Benny Proot

René Q van Revi Food uit de Oostendse vismijn heeft voor het eerst een grote stand op het Petrus en Paulusplein. Je kan hier verschillende gerechten bestellen van een Ostendsche stuute met kabeljauwsalade, garnaalballetjes en kaasballetjes tot garnalenbisque. Wij proeven van de Saucisse à l'Ostendaise voor 9 euro. Het is een volledig nieuw product dat ontwikkeld werd als een alternatief voor de klassieke hamburgers of braadworsten. Het is een bewust duurzaam product waarmee de makers vooral ook kinderen gevarieerder willen laten eten.

Social media – Local Events - Press



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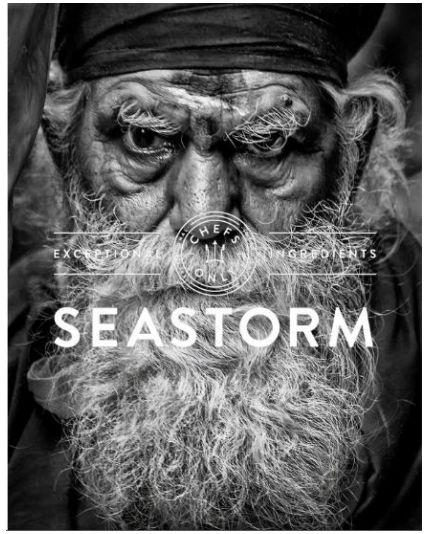

Thank You!

AGENTSCHAP LANDBOUW & ZEEVISSERIJ

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west-vlaanderen de gedreven provincie

Q&A

Next steps and closing

Next steps

1. Follow us on LinkedIn
2. Join our BlueActionBANOS Community on BlueBioMatch
3. *Stories from Community Projects - Part 2* on **18 February**
4. Prepare your **Project Idea Form** and submit it before **16 March 2026**
5. Have a **consultation**
6. Submit your **full proposal** before **29 May 2026**

Questions?
BAB_helpdesk@fundingbox.com

Follow us on LinkedIn!

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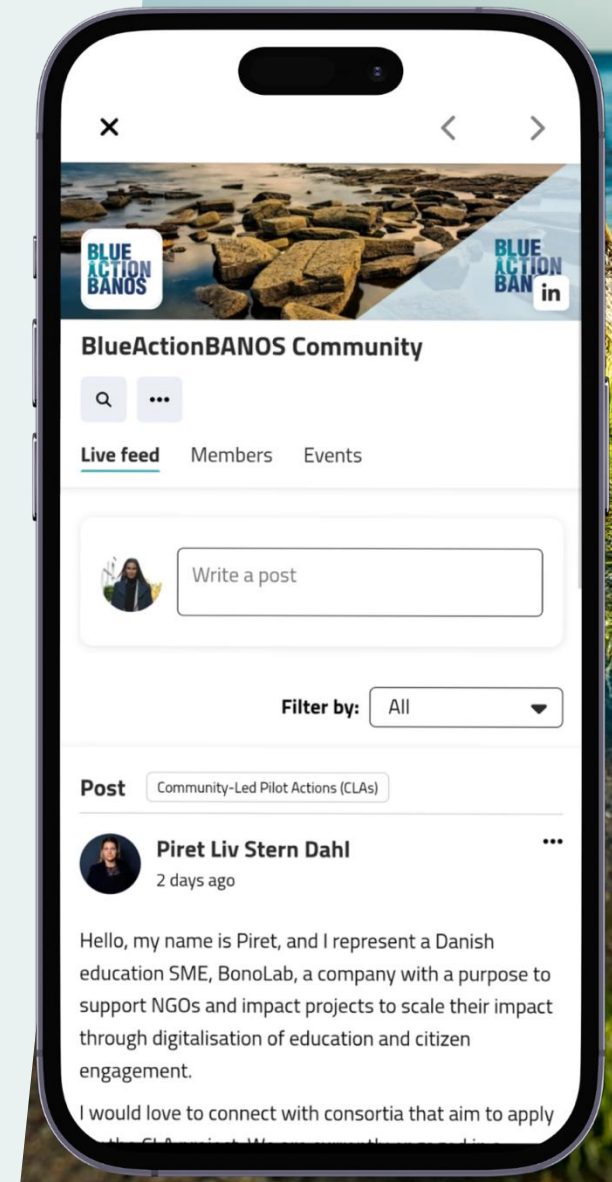
www.blueactionbanos.eu

https://qrco.de/beWskQ

Register on BlueBioMatch to join the BAB Community!

Join our BlueActionBANOS Community on BlueBioMatch!

Find relevant contacts, explore partnerships, and share updates related to our Calls for CLAs and TAs!



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