

Project idea form - small projects

Version 2.1

Registration no. (filled in by MA/JS only) _____

Project Idea Form

Date of submission 04/06/2025

1. Project idea identification

Project idea name	Myticlear is dedicated to restoring the ecological balance of the Baltic Sea through sustainable blue mussel cultivation. By establishing local mussel farms near fish farms, agricultural runoff areas, and wastewater treatment plant outlets.
Short name of the project	Myticlear
Previous calls	yes <input type="radio"/> no <input checked="" type="radio"/>
Seed money support	yes <input type="radio"/> no <input checked="" type="radio"/>

2. Programme priority

2. Water-smart societies

3. Programme objective

2.1. Sustainable waters

4. Potential lead applicant

Name of the organisation (original)	Myticlear AB
Name of the organisation (English)	Myticlear Ltd.
Website	myticlear.com



Country	SE
Type of Partner	Small and medium enterprise
	micro, small, medium enterprises
Contact person 1	
Name	Per Salmelin
Email	persalmelin@gmail.com
Phone	+460708567786
Contact person 2	
Name	Mikael Nilsson
Email	nikaelmilsson@gmail.com
Phone	+460739269173

Which organisation(s) in the planned partnership take part in a project within the Interreg Baltic Sea Region Programme for the first time? Please list the respective partners.

#1 Pakricon OÜ register code: 12911103, Estonia

#2 EKRIS OÜ Registrikood: 14505637, Estonia

#3 Atmosmare foundation: FI2213176-5, Finland

5.1 Specific challenge to be addressed

The Baltic Sea faces severe eutrophication due to excessive nutrient discharge from fish farms, agriculture, and wastewater treatment plants. This pollution leads to algal blooms, reduced water quality, and ecosystem imbalance. Blue mussel farming presents a natural and scalable solution, filtering water, removing nitrogen and phosphorus, and simultaneously producing a valuable biomass for feed and fertilizer.

The demand for sustainable aquaculture solutions is increasing due to stricter EU regulations on nutrient emissions and carbon reduction. Additionally, the rise of circular economy initiatives and carbon credit trading presents new financial opportunities for businesses involved in environmental restoration.



5.2 Focus of the call

Establish the first mussel farm near an existing fish farm to create a synergistic partnership (fish farms pollute, mussels filter).
 Utilize existing marine farming permits for faster deployment.
 Conduct site monitoring and maintenance.
 Scaling Up & Research Collaboration
 Deploy a second mussel farm at another strategic location.
 Establish partnerships with research institutions to optimize farming techniques and environmental impact assessments.
 Develop and prototype specialized boats and barges for efficient mussel harvesting.
 Technology Development & Optimization
 Deploy a third mussel farm while refining operational logistics.
 Innovate and improve harvesting methods, as current techniques remain inefficient and cumbersome.
 Maintain and evaluate all sites.
 Commercialization & Expansion
 Develop a framework for carbon, nitrogen, and phosphorus credit trading within the EU market.
 Expand production and processing facilities for mussel-based feed and fertilizers.
 Scale up operations across the Baltic Sea to maximize water purification impact.

6. Transnational relevance

Scalable & Replicable Model – The methodology is expandable across the Baltic region, offering long-term growth opportunities.
 Win-Win Industry Partnerships – Mussel farming provides a natural solution for pollution-heavy industries (fish farming, agriculture, wastewater plants).
 Circular Economy Integration – By converting waste nutrients into high-value feed and fertilizer, the model supports both sustainability and profitability.
 Regulatory & Market Incentives – EU carbon and nutrient trading schemes provide financial incentives for water purification efforts.

7. Specific aims to be addressed

Building trust that could lead to further cooperation initiatives

We seek funding to develop and scale a sustainable blue mussel farming initiative in the Baltic Sea. This project will enhance water purification, nutrient removal, and circular economy solutions while also generating sustainable feed and organic fertilizers. Financial support is required for research, infrastructure, regulatory compliance, and operational development.

Initiating and keeping networks that are important for the BSR

Each mussel can filter 48–120 liters of water per day, significantly improving water quality. However, despite the existing mussel biomass in the Baltic Sea ranging from tens to hundreds of millions of tons, it remains insufficient to counteract the high levels of nutrients and carbon dioxide. Additionally,



seasonal fluctuations in phytoplankton biomass, amounting to tens of millions of tons, further exacerbate ecosystem imbalances.

Our innovative approach converts harvested mussels into sustainable feed for fish farming, poultry, and livestock, as well as organic fertilizer for agriculture. By integrating mussel farming with existing industries, we create a circular economy that benefits both the environment and food production. Through scalable, science-driven solutions, we aim to mitigate eutrophication and foster a more sustainable marine environment in the Baltic Sea.

Bringing the Programme closer to the citizens

The farming will be local and will involve local farmers, fish farmers and small tourist bussiness as sailing harbors, campings.

Allowing a swift response to unpredictable and urgent challenges

Yes

8. Target groups

Local farmers, fish farms
 Local entrepreneurs
 Universities
 Cities
 municipalities

Please use the drop-down list to define up to five target groups that you will involve through your project's activities.	Please define a field of responsibility or an economic sector of the selected target group	Specify the countries and regions that the representatives of this target group come from.
1. Local public authority	Support with defining regulations, benefits for local citizens	Initially Sweden, Finland and Estonia, later all of Baltic
2. Small and medium enterprise	Small-scale farmers receive nutrients for their operations. Local entrepreneurs benfit from cleaner sea water	Initially Sweden, Finland and Estonia, later all of Baltic

3. Higher education and research institution	Universities can obtain data for research on the environment in the Baltic Sea	Initially Sweden, Finland and Estonia, later all of Baltic
4. National public authority	The inhabitants of cities and regions benefit from improved water quality and locally sustainable produced food products	Initially Sweden, Finland and Estonia, later all of Baltic
5. EGTC	EU Sustainability Regulations – Stricter nutrient emission rules drive demand for nutrient removal solutions. Aquaculture & Agriculture Demand – Sustainable feed alternatives are in high demand.	Initially Sweden, Finland and Estonia, later all of Baltic

9. Contribution to the EU Strategy for the Baltic Sea Region

Please indicate if your project idea has the potential to contribute to the implementation of the Action Plan of the EU Strategy for the Baltic Sea Region (<https://eusbsr.eu/implementation/>).

yes ☒ no ☐

Please select which policy area(s) of the EUSBSR your project idea contributes to most.

PA Nutri

PA Bio-economy

PA Tourism

The MA/JS may share your project idea form with the respective policy area coordinator(s) of the EUSBSR. You can find contacts of PACs at the EUSBSR website (<https://eusbsr.eu/contact-us/>).

☐ If you disagree, please tick here.

10. Partnership

The current project consortium consists of three confirmed partners: one from Finland and two from Estonia. These partners were selected based on their proven expertise, strategic geographic location within the Baltic Sea region, and their institutional interest in sustainable aquaculture and marine environmental restoration.

Due to limited time available during the preparatory phase, the process of identifying and engaging additional partners was constrained. Nevertheless, there is considerable interest from other potential stakeholders across the region, and the project is designed to remain open to future collaboration through associated partners or subsequent project stages.

The selected partners form a robust initial core for cross-border cooperation, representing both national and local capacities, and providing a strong foundation for effective implementation of the mussel farming initiative aimed at nutrient removal and water quality improvement in the Baltic Sea.

11. Workplan

Strategic Approach & Expansion Plan

Deployment of the First Farm

Establish the first mussel farm near an existing fish farm to create a synergistic partnership (fish farms pollute, mussels filter).

Utilize existing marine farming permits for faster deployment.

Conduct site monitoring and maintenance.

Scaling Up & Research Collaboration

Deploy a second mussel farm at another strategic location.

Establish partnerships with research institutions to optimize farming techniques and environmental impact assessments.

Develop and prototype specialized boats and barges for efficient mussel harvesting.

Technology Development & Optimization

Deploy a third mussel farm while refining operational logistics.

Innovate and improve harvesting methods, as current techniques remain inefficient and cumbersome.

Maintain and evaluate all sites.

Commercialization & Expansion

Develop a framework for carbon, nitrogen, and phosphorus credit trading within the EU market.

Expand production and processing facilities for mussel-based feed and fertilizers.

Scale up operations across the Baltic Sea to maximize water purification impact.

12. Planned budget

ERDF budget (planned expenditure of partners from the EU)	EUR 500,000.00
Norwegian budget (planned expenditure of partners from Norway)	EUR XXX
Total budget (including preparatory costs)	EUR 500,000.00

13. Project consultation

Please indicate if you wish to have a consultation (online meeting) with the MA/JS to discuss your project idea

yes ☒ no ☐

14. Questions to the MA/JS

Questions related to the content of the planned project How to utilize matchmaking platform simple and efficient

Questions related to budgeting and expenditure hands on tips of other institutions that might be approached

Any other questions (max. 1.000 characters incl. spaces)

15. Additional information

(max. 1.000 characters incl. spaces)

Your account in BAMOS+

Please remember that to officially submit your application you need to access our electronic data exchange system BAMOS+. More information about the process of applying for your account in BAMOS+ you will find here:

<https://interreg-baltic.eu/gateway/bamos-account>