1. Identification

Call	Date of submission
C1	26/04/2022

1.1. Full name of the project

Identification and Monitoring of Optimal Sites for the Blue Bioeconomy in the Baltic Sea

88 / 250 characters

1.2. Short name of the project

BlueBioSites

12 / 20 characters

1.3. Programme priority

2. Water-smart societies

1.4. Programme objective

2.2 Blue economy

1.6. Project duration

Contracting start	22/09/2022	**Contracting end**	31/12/2022
Implementation start	01/01/2023	**Implementation end**	31/12/2025
		Duration of implementation phase (months)	36
Closure start	01/01/2026	**Closure end**	31/03/2026

1.7. Project summary

Low-trophic aquaculture has been identified as an important part in the EU Green Deal as it reduces pressure on land resources, whilst mitigating eutrophication and climate change. Blue biomass production within the Baltic Sea is lagging behind due to lack of sites. The objective of BlueBioSites is to identify optimal sites of low-trophic (algae and mussels) and multi-use aquaculture (IMTA) within or outside fixed installations along with appropriate technology solutions in the Baltic Sea Region, establishing necessary standards for continuous monitoring of these sites. Optimal sites are defined from a multi-factor perspective covering natural environmental conditions, socio-economic aspects as well as concerns and synergies with other marine or land-based sectors. Obtained science-based and data-rich knowledge will be operationalized through web-based, easy-to-use decision support tools. Using a diverse range of pilots, the project showcases efficient and effective ways to gain and integrate the necessary data and information – relevant to the various siting criteria - and to transfer this knowledge to a wide range of stakeholders across the entire quadruple helix (policy, industry, research, social/citizen level). Ultimately, BlueBioSites will provide a Baltic Sea wide vision on how the Baltic Blue Bioeconomy could contribute to the achievement of SDGs in general, the goals of EU Baltic Sea Region Macro-Regional strategy and the HELCOM Baltic Sea Action Plan in particular.

1,499 / 1,500 characters

1.8. Summary of the partnership

The BlueBioSites project will be implemented by a combination of regional authorities from across all EU Baltic Sea Region countries in charge of planning the marine space, environmental concerns as well as the promotion of fishery and aquaculture in their area. These will be complemented and supported by a) research institutes, who provide the necessary knowledge, data and tools, b) blue bioeconomy actors, who are already actively engaged in commercial activities at specific pilot sites – thus especially important for actual piloting of solutions and finally c) the SUBMARINER network, in their function as the transnational hub for actors across the quadruple helix, engaged in promoting the blue bioeconomy in the Baltic Sea; a flagship under the EUSBSR PAC Bioeconomy, and coordinator of the Mission 'Ocean' Lighthouse for the North/Baltic Sea area. The project is supported and accompanied by numerous national ministries and transnational, pan-Baltic organizations, like HELCOM and VASAB; ensuring that solutions and results are applied on a long-term basis within and across Baltic Sea Region countries and integrated into Baltic Sea Region strategies and commitments (i.e. HELCOM Baltic Sea Action Plan, MSP Roadmap). Hence the BlueBioSites partnership encompasses all relevant target groups of the project across the quadruple helix: a) MSP and environmental authorities and relevant licensing bodies at national and regional level; b) Applied research to provide and enhance the knowledge necessary to identify optimal sites; c) Relevant stakeholders at pilot site level, to apply, pilot and assess BlueBioSites solutions; d) Pan-Baltic organizations to ensure the integration of BlueBioSites activities and results into ongoing political processes and the long-term, post-project sustainability and transfer of results.

1,838 / 3,000 characters

1.11. Project Budget Summary

Financial resources [in EUR]		Preparation costs	Planned project budget
ERDF	ERDF co-financing	0.00	2,544,220.16
	Own contribution ERDF	0.00	636,055.04
	ERDF budget	0.00	3,180,275.20
NO	NO co-financing	0.00	0.00
	Own contribution NO	0.00	0.00
	NO budget	0.00	0.00
NDICI	NDICI co-financing	0.00	0.00
	Own contribution NDICI	0.00	0.00
	NDICI budget	0.00	0.00
RU	RU co-financing	0.00	0.00
	Own contribution RU	0.00	0.00
	RU budget	0.00	0.00
TOTAL	**Total Programme co-financing**	0.00	2,544,220.16
	Total own contribution	0.00	636,055.04
	Total budget	0.00	3,180,275.20

2. Partnership

2.1. Overview: Project Partnership

2.1.1 Project Partners

No.	LP/PP	Organisation (English)	Organisation (Original)	Country	Type of partner	Legal status	Partner budget in the project	Active/inactive	
								Status	from
1	LP	University of Tartu	Tartu Ülikool	EE	Higher education and research institution	a)	450,873.60 €	Active	22/09/2022
2	PP	SUBMARINER Network for Blue Growth EEIG	SUBMARINER Network for Blue Growth EWIV	DE	EEIG	b)	466,380.80 €	Active	22/09/2022
3	PP	Latvian Institute of Aquatic Ecology, Agency of Daugavpils University	Daugavpils universitātes aģentūra "Latvijas Hidroekoloģijas institūts"	LV	Higher education and research institution	a)	177,740.80 €	Active	22/09/2022
4	PP	University of Southern Denmark	Syddansk Universitet	DK	Higher education and research institution	a)	289,640.00 €	Active	22/09/2022
5	PP	BLUE BORNHOLM	BLÅ BORNHOLM	DK	NGO	b)	233,640.00 €	Active	22/09/2022
6	PP	Gdynia Maritime University	Uniwersytet Morski w Gdyni	PL	Higher education and research institution	a)	240,964.80 €	Active	22/09/2022
7	PP	Association of Klaipeda Region Municipalities	Asociacija „Klaipėdos regionas"	LT	NGO	a)	46,150.00 €	Active	22/09/2022
8	PP	Klaipeda University	Klaipėdos universitetas	LT	Higher education and research institution	a)	164,780.80 €	Active	22/09/2022
9	PP	Västervik Municipality	Västerviks kommun	SE	Local public authority	a)	85,500.00 €	Active	22/09/2022
10	PP	Ecopelag Economic Association	Ekopelag Ekonomisk Förening	SE	Small and medium enterprise	b)	309,670.00 €	Active	22/09/2022
11	PP	Leibniz Institute for Baltic Sea Research Warnemünde	Leibniz-Institut für Ostseeforschung Warnemünde	DE	Higher education and research institution	a)	323,481.60 €	Active	22/09/2022
12	PP	Finnish Environment Institute	Suomen ympärisökeskus	FI	Higher education and research institution	a)	272,611.20 €	Active	22/09/2022
13	PP	Kurzeme Planning Region	Kurzemes plānošanas reģions	LV	Regional public authority	a)	118,841.60 €	Active	22/09/2022

2.1.2 Associated Organisations

No.	Organisation (English)	Organisation (Original)	Country	Type of Partner
AO 1	HELCOM	HELCOM	FI	International governmental organisation
AO 2	Ministry of Rural Affairs	Maaeluministeerium	EE	National public authority
AO 3	Ministry of the Environment	Keskkonnaministeerium	EE	National public authority
AO 4	Federal State Government of Mecklenburg-Vorpommern	Ministerium für Wirtschaft, Infrastruktur, Tourismus und Arbeit Mecklenburg-Vorpommern	DE	Regional public authority
AO 5	Regional Council of Southwest Finland	Varsinais-Suomen liitto	FI	Regional public authority
AO 6	Est-Agar	Est-Agar	EE	Small and medium enterprise
AO 7	Swedish Board of Agriculture	Jordbruksverket	SE	National public authority
AO 8	Ministry of Environmental Protection and Regional Development of the Republic of Latvia	Vides aizsardzības un reģionālās attīstības ministrija	LV	National public authority
AO 9	Ministry of Environment of the Republic of Lithuania	Lietuvos Respublikos aplinkos ministerija	LT	National public authority
AO 10	Maritime Office in Gdynia	Urząd Morski w Gdyni	PL	Regional public authority
AO 11	Origin by Ocean	Origin by Ocean	FI	Small and medium enterprise

2.2 Project Partner Details - Partner 1

LP/PP	Lead Partner
Partner Status	Active
Active from	22/09/2022
Inactive from	

Partner name:

Organisation in original language	Tartu Ülikool (22 / 250 characters)
Organisation in English	University of Tartu (28 / 250 characters)
Department in original language	Eesti Mereinstituut (28 / 250 characters)
Department in English	Estonian Marine Institute (34 / 250 characters)

Partner location and website:

Address	Ülikooli 18 (20 / 250 characters)	**Country**	Estonia
Postal Code	50090 (14 / 250 characters)	**NUTS1 code**	Eesti
Town	Tartu (14 / 250 characters)	**NUTS2 code**	Eesti
Website	www.ut.ee (18 / 100 characters)	**NUTS3 code**	Lõuna-Eesti

Partner ID:

Organisation ID type	Registration code (Registrikood)
Organisation ID	74001073
VAT Number Format	EE + 9 digits
VAT Number	N/A ☐ EE100030417 (11 / 50 characters)
PIC	999895013 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	85.42 - Tertiary education	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Role of the partner organisation in this project:

UTartu (PP01) is Lead Partner of BlueBioSites (BBS). PP01 will act as the coordinator of WP1, contribute to all Groups of Actions, leading two of them (GoA 1.3 Development of decision-support tool and data portal; 1.5 Tools to measure impacts of BlueBioEconomy sites). UTartu will lead the work in GoA 2.1 (Operationalizing optimal BBS decision-support tool and data portal to project future pilot site areas). In GoA 2.2, UTartu will contribute to the development of Communities of Practice and Blue Visions in its pilot region. PP01 contributes to the development of GoA 2.3: report on integrating and securing BBS within multiple MSP frameworks; GoA 2.4: testing and validating monitoring standards and technologies at pilot sites; GoA 3.1 Ensuring continuous linkage and cross-fertilization with other national and pan-Baltic strategies, their organizations and coordination groups; GoA 3.2: BBS Policy Recommendations and Guidelines; GoA 3.3: Ensure uptake and legacy of BBS solutions.

991 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 2

LP/PP Project Partner

Partner Status Active

Active from 22/09/2022 **Inactive from**

Partner name:

Organisation in original language SUBMARINER Network for Blue Growth EWIV

39 / 250 characters

Organisation in English SUBMARINER Network for Blue Growth EEIG

40 / 250 characters

Department in original language not applicable

14 / 250 characters

Department in English not applicable

14 / 250 characters

Partner location and website:

Address Kärntener Str. 20

18 / 250 characters

Postal Code DE–10827

9 / 250 characters

Town Berlin

6 / 250 characters

Website www.submariner-network.eu

26 / 100 characters

Country Germany

NUTS1 code Berlin

NUTS2 code Berlin

NUTS3 code Berlin

Partner ID:

Organisation ID type	Company registration number (Handelsregisternummer)
Organisation ID	HRA 49838 B (12 / 50 characters)
VAT Number Format	DE + 9 digits
VAT Number	N/A ☐ DE296913486 (11 / 50 characters)
PIC	917927782 (9 / 9 characters)

Partner type:

Legal status	b) Private	
Type of partner	EEIG	European Economic Interest Grouping
Sector (NACE)	74.90 - Other professional, scientific and technical activities n.e.c.	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Financial data	**Reference period**	01/01/2020 –	31/12/2020
	Staff headcount [in annual work units (AWU)]		6.0
	Employees [in AWU]		4.0
	Persons working for the organisation being subordinated to it and considered to be employees under national law [in AWU]		0.0
	Owner-managers [in AWU]		2.0
	Partners engaged in a regular activity in the organisation and benefiting from financial advantages from the organisation [in AWU]		0.0
	Annual turnover [in EUR]		152,892.04
	Annual balance sheet total [in EUR]		393,997.32
	Operating profit [in EUR]		0.00

Role of the partner organisation in this project:

PP02 will contribute to GoA 1.1 in conceptualising a state-of-the-art regulatory and policy framework for low-trophic and multi-use aquaculture; GoA 1.3 the development of decision-support tools and a data portal to identify and monitor optimal BlueBioEconomy sites; GoA 1.5 development of tools to measure impacts of BlueBioEconomy sites; GoA 2.2 the development of Communities of Practice (COPs) and blue 'visions'. PP02 will contribute to the report on integrating and securing BlueBioSites within multiple MSP frameworks in GoA 2.3. Submariner is work package leader in WP3. It will lead GoA 3.1 (Ensure continuous linkage and cross-fertilization with other national and pan-Baltic strategies, their organizations and coordination groups), GoA3.2 BlueBioSites Findings and Recommendations (together with the LP and SYKE) and GoA 3.3 (Ensure take up and legacy of BlueBioSites solutions).

892 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

2.2 Project Partner Details - Partner 3

LP/PP	Project Partner		
Partner Status	Active		
	Active from 22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Daugavpils universitātes aģentūra "Latvijas Hidroekoloģijas institūts" (71 / 250 characters)
Organisation in English	Latvian Institute of Aquatic Ecology, Agency of Daugavpils University (69 / 250 characters)
Department in original language	not applicable (14 / 250 characters)
Department in English	not applicable (14 / 250 characters)

Partner location and website:

Address	Voleru Street 4 (16 / 250 characters)	**Country**	Latvia
Postal Code	LV-1007 (7 / 250 characters)	**NUTS1 code**	Latvija
Town	Riga (4 / 250 characters)	**NUTS2 code**	Latvija
Website	www.lhei.lv (12 / 100 characters)	**NUTS3 code**	Rīga

Partner ID:

Organisation ID type	Unified registration number (Vienotais reģistrācijas numurs)
Organisation ID	90002129621
VAT Number Format	LV + 11 digits
VAT Number	**N/A** ☐ LV90002129621 (13 / 50 characters)
PIC	975548401 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	72.19 - Other research and experimental development on natural sciences and engineering	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities?	No

Role of the partner organisation in this project:

PP03 will lead tasks related to policy analysis, targets of blue bioeconomy, licensing framework and best practices for alignment of procedures in WP1 (leading GoA 1.1.; contributing to GoA 1.3.-1.5). LIAE has been actively contributing to position papers regulatory frameworks (Blue Platform), has extensive competence in marine monitoring. works with promotion of blue bioeconomy development in Latvia and cooperates closely with Latvian Ministry of Environmental Protection and Regional Development on ecosystem values for MSP. PP03 will contribute to GoA 2.1 by testing and validating the decision-support tool and data portal. Together with Kurzeme Planning Region, LIAE will co-develop Communities of Practice (COPs) and blue 'visions' in GoA 2.2. LIAE leads the development of the report on integrating and securing BlueBioSites within multiple MSP frameworks in GoA 2.3. LIAE also contributes to GoA 2.4 and to all GoAs in WP3.

936 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 4

LP/PP	Project Partner		
Partner Status	Active		
Active from	22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Syddansk Universitet (20 / 250 characters)
Organisation in English	University of Southern Denmark (30 / 250 characters)
Department in original language	Biologisk Institut (19 / 250 characters)
Department in English	Department of Biology (21 / 250 characters)

Partner location and website:

Address	Campusvej 55 (12 / 250 characters)	**Country**	Denmark
Postal Code	DK-5230 (7 / 250 characters)	**NUTS1 code**	Danmark
Town	Odense (6 / 250 characters)	**NUTS2 code**	Syddanmark
Website	www.sdu.dk/ (11 / 100 characters)	**NUTS3 code**	Fyn

Partner ID:

Organisation ID type	Civil registration number (CPR)
Organisation ID	29283958
VAT Number Format	DK + 8 digits
VAT Number	N/A ☐ DK29 28 39 58 (13 / 50 characters)
PIC	999904616 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	85.42 - Tertiary education	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Role of the partner organisation in this project:

SDU will contribute to GoA 1.1 in conceptualising a state-of-the-art regulatory and policy framework for low-trophic and multi-use aquaculture; GoA 1.2 the development of a report on current performance and future developments of existing and planned BlueBioEconomy sites; GoA 1.3 and the development of decision-support tool and a data portal to identify and monitor optimal BlueBioEconomy sites; GoA 1.5 development of tools to measure impacts of BlueBioEconomy sites. Together with PP05, SDU will contribute to Communities of Practice (COPs) and blue 'visions' in GoA 2.2; PP04 will also support GoA2.4: testing and validating monitoring standards and technologies at pilot sites. SDU will work on all tasks in WP3: GoA 3.1 ensuring continuous linkage and cross-fertilization with other national and pan-Baltic strategies, their organizations and coordination groups; GoA 3.2 BlueBioSites Policy Recommendations and Guidelines; GoA 3.3 ensuring take up and legacy of BlueBioSites solutions.

994 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 5

LP/PP	Project Partner		
Partner Status	Active		
	Active from 22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	BLÅ BORNHOLM (13 / 250 characters)
Organisation in English	BLUE BORNHOLM (14 / 250 characters)

Department in original language	not applicable (14 / 250 characters)
Department in English	not applicable (14 / 250 characters)

Partner location and website:

Address	Ndr. Strandvej 45 (18 / 250 characters)	**Country**	Denmark
Postal Code	3770 (4 / 250 characters)	**NUTS1 code**	Danmark
Town	Allinge (7 / 250 characters)	**NUTS2 code**	Hovedstaden
Website	- (1 / 100 characters)	**NUTS3 code**	Bornholm

Partner ID:

Organisation ID type	Civil registration number (CPR)
Organisation ID	43149172
VAT Number Format	DK + 8 digits
VAT Number	**N/A** ☐ DK43 14 91 72 (13 / 50 characters)
PIC	(0 / 9 characters)

Partner type:

Legal status	b) Private	
Type of partner	NGO	Non-governmental organisations, such as Greenpeace, WWF, etc.
Sector (NACE)	94.99 - Activities of other membership organisations n.e.c.	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Financial data	**Reference period**	24/03/2022 –	26/04/2022
	Staff headcount [in annual work units (AWU)]		0.0
	Employees [in AWU]		0.0
	Persons working for the organisation being subordinated to it and considered to be employees under national law [in AWU]		0.0
	Owner-managers [in AWU]		0.0
	Partners engaged in a regular activity in the organisation and benefiting from financial advantages from the organisation [in AWU]		0.0
	Annual turnover [in EUR]		0.00
	Annual balance sheet total [in EUR]		0.00
	Operating profit [in EUR]		0.00

Role of the partner organisation in this project:

Blue Bornholm is a newly founded association with the purpose of developing the blue bioeconomy sustainably in a local perspective. Currently the employees are volunteers that have capacity and resources in their field. In case of positive funding decision, workload will intensify and employees will be hired. PP05 will provide site specific data from a new pilot mussel farm, with qualitative data on the process of working with regional stakeholders, regulations and permitting etc. PP05 will provide the project with data on methods to identify locations for the pilot farm.

578 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

2.2 Project Partner Details - Partner 6

LP/PP Project Partner

Partner Status Active

Active from 22/09/2022 **Inactive from**

Partner name:

Organisation in original language Uniwersytet Morski w Gdyni

26 / 250 characters

Organisation in English Gdynia Maritime University

26 / 250 characters

Department in original language Instytut Morski

15 / 250 characters

Department in English Maritime Institute

18 / 250 characters

Partner location and website:

Address ul. Morska 81/87

16 / 250 characters

Postal Code 81-225

6 / 250 characters

Town Gdynia

6 / 250 characters

Website www.umg.edu.pl

14 / 100 characters

Country Poland

NUTS1 code Makroregion północny

NUTS2 code Pomorskie

NUTS3 code Trójmiejski

Partner ID:

Organisation ID type Tax identification number (NIP)

Organisation ID 5860012873

VAT Number Format PL + 10 digits

VAT Number **N/A** ☐ PL5860012873

12 / 50 characters

PIC 996239956

9 / 9 characters

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	85.42 - Tertiary education	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Partly

VAT explanation

According to Art. 86 sec. 1, art. 86 sec. 2a and art. 90 sec. 1 - sec. 3 of the Value Added Tax Act of March 11, 2004 (Journal of Laws of 2017, item 1221), Gdynia Maritime University does not deduct VAT from domestic purchases acquired for the needs of ongoing projects, it shows these expenses as eligible due to the inability to recover the above-mentioned costs otherwise. However, VAT from goods and services purchased from foreign contractors is considered ineligible in the project due to the possibility of its recovery according to EU regulations.

555 / 1,000 characters

Role of the partner organisation in this project:

PP06, GMU, will run the pilot in the Gulf of Gdańsk, focused on identification and validation of the decision-support tool as well as stakeholders involvement. Moreover, GMU will coordinate the economic aspects related to identifying optimal sites. GMU will contribute to GoA 1.1 in conceptualising a state-of-the-art regulatory and policy framework for low-trophic and multi-use aquaculture; GoA 1.3 the development of decision-support tool and a data portal to identify and monitor optimal BlueBioEconomy sites; GoA 1.4 a report on the current and plausible future monitoring standards of low-trophic and multi-use farms; GoA 1.5 development of tools to measure impacts of BlueBioEconomy sites. PP06 will give input and work on all activities of WP 2 and WP3.

762 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 7

LP/PP	Project Partner		
Partner Status	Active		
Active from	22/09/2022	**Inactive from**	

Partner name:

Organisation in original language

Asociacija „Klaipėdos regionas“

32 / 250 characters

Organisation in English

Association of Klaipeda Region Municipalities

45 / 250 characters

Department in original language

not applicable

14 / 250 characters

Department in English

not applicable

14 / 250 characters

Partner location and website:

Address

Tiltų g. 6

11 / 250 characters

Country Lithuania

Postal Code	LT-91248 (8 / 250 characters)	**NUTS1 code**	Lietuva
Town	Klaipėda (9 / 250 characters)	**NUTS2 code**	Vidurio ir vakarų Lietuvos regionas
Website	klaipedaregion.lt/ (18 / 100 characters)	**NUTS3 code**	Klaipėdos apskritis

Partner ID:

Organisation ID type	Legal person's code (Juridinio asmens kodas)
Organisation ID	302978913
VAT Number Format	Please select
VAT Number	N/A ☑ (0 / 50 characters)
PIC	889966147 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	NGO	Non-governmental organisations, such as Greenpeace, WWF, etc.
Sector (NACE)	94.99 - Activities of other membership organisations n.e.c.	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Role of the partner organisation in this project:

Klaipeda Region represents all 7 municipalities of Klaipėda Region being responsible for the implementation of their specialisation strategy 2030 (with Bioeconomy being one major theme). Klaipeda Region will give input to GoA 1.3 and the development of decision-support tool and a data portal to identify and monitor optimal BlueBioEconomy sites. Klaipeda Region together with KU will co-develop Communities of Practice and blue 'visions' in GoA 2.2. PP07 contributes to the report on integrating and securing BlueBioSites within multiple MSP frameworks in GoA 2.3; GoA 3.2- BlueBioSites Policy Recommendations and Guidelines; GoA 3.3 (Ensure take up and legacy of BlueBioSites solutions).

690 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

2.2 Project Partner Details - Partner 8

LP/PP	Project Partner		
Partner Status	Active		
Active from	22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Klaipėdos universitetas (23 / 250 characters)
Organisation in English	Klaipeda University (20 / 250 characters)

Department in original language	Jūros tyrimų institutas (23 / 250 characters)
Department in English	Marine Research Institute (25 / 250 characters)

Partner location and website:

Address	H. Manto 84 (11 / 250 characters)	**Country**	Lithuania
Postal Code	LT-92294 (8 / 250 characters)	**NUTS1 code**	Lietuva
Town	Klaipėda (8 / 250 characters)	**NUTS2 code**	Vidurio ir vakarų Lietuvos regionas
Website	apc.ku.lt/en/ (13 / 100 characters)	**NUTS3 code**	Klaipėdos apskritis

Partner ID:

Organisation ID type	Legal person's code (Juridinio asmens kodas)
Organisation ID	211951150
VAT Number Format	LT + 9 digits
VAT Number	**N/A** ☐ LT119511515 (11 / 50 characters)
PIC	999904422 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	85.42 - Tertiary education	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? No

Role of the partner organisation in this project:

Klaipeda University KU has long-term experience in developing innovative environmental monitoring methods of inland and coastal waters (satellite-based, drone, underwater imagery). It provides competences for implementation of WFD and MSFD and development of the blue bioeconomy (fisheries and aquaculture) in the region. KU will contribute to all GoAs in WP1. PP08 will give input to GoA 2.1 by testing and validating the decision-support tool and data portal. KU together with Klaipeda Region will co-develop Communities of Practice (COPs) and blue 'visions' in GoA 2.2; GoA 2.4: testing and validating monitoring standards and technologies at pilot sites. It will also work on GoA 3.1 (Ensure continuous linkage and cross-fertilization with other national and pan-Baltic strategies, their organizations and coordination groups); GoA 3.2 (BlueBioSites Policy Recommendations and Guidelines) and GoA 3.3 (Ensure take up and legacy of BlueBioSites solutions).

960 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 9

LP/PP	Project Partner
Partner Status	Active
Active from	22/09/2022
Inactive from	

Partner name:

Organisation in original language	Västerviks kommun (17 / 250 characters)
Organisation in English	Västervik Municipality (22 / 250 characters)
Department in original language	Kommunstyrelsens Förvaltning (28 / 250 characters)
Department in English	Administration of the Municipal Executive Board (47 / 250 characters)

Partner location and website:

Address	Fabriksgatan 21 (15 / 250 characters)	**Country**	Sweden
Postal Code	593 96 (6 / 250 characters)	**NUTS1 code**	Södra Sverige
Town	Västervik (9 / 250 characters)	**NUTS2 code**	Småland med öarna
Website	www.vastervik.se (16 / 100 characters)	**NUTS3 code**	Kalmar län

Partner ID:

Organisation ID type	Organisation number (Organisationsnummer)
Organisation ID	212000-0779
VAT Number Format	SE + 12 digits
VAT Number	**N/A** ☐ SE212000077901 (14 / 50 characters)
PIC	905372587 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Local public authority	Municipality, city, etc.
Sector (NACE)	84.11 - General public administration activities	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Role of the partner organisation in this project:

Västervik municipality will contribute to all activities in WP1 while leading GoA 1.2, assembling of knowledge about existing and planned BlueBioEconomy sites. PP09 will contribute to GoA 2.1 by testing and validating the decision-support tool and data portal. Västervik Municipality will co-develop Communities of Practice (COPs) and blue 'visions' in GoA 2.2. PP09 contributes to the development of the report on integrating and securing BlueBioSites within multiple MSP frameworks in GoA 2.3; GoA 2.4: testing and validating monitoring standards and technologies at pilot sites; GoA 3.3 (Ensure take up and legacy of BlueBioSites solutions).

644 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

2.2 Project Partner Details - Partner 10

LP/PP Project Partner

Partner Status Active

Active from 22/09/2022 **Inactive from**

Partner name:

Organisation in original language Ekopelag Ekonomisk Förening

27 / 250 characters

Organisation in English Ecopelag Economic Association

29 / 250 characters

Department in original language not applicable

14 / 250 characters

Department in English not applicable

14 / 250 characters

Partner location and website:

Address Torsby gammelväg 10

19 / 250 characters

Postal Code 139 51

6 / 250 characters

Town Värmdö

6 / 250 characters

Website ecopelag.se/

12 / 100 characters

Country Sweden

NUTS1 code Östra Sverige

NUTS2 code Stockholm

NUTS3 code Stockholms län

Partner ID:

Organisation ID type	Organisation number (Organisationsnummer)
Organisation ID	769633-3066
VAT Number Format	SE + 12 digits
VAT Number	N/A ☐ SE769633306601 (14 / 50 characters)
PIC	101083785 (9 / 9 characters)

Partner type:

Legal status	b) Private	
Type of partner	Small and medium enterprise	Micro, small, medium enterprises < 250 employees, ≤ EUR 50 million turnover or ≤ EUR 43 million balance sheet total
Sector (NACE)	72.19 - Other research and experimental development on natural sciences and engineering	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? No

Financial data	**Reference period**	01/01/2020 –	31/12/2020
	Staff headcount [in annual work units (AWU)]		2.0
	Employees [in AWU]		0.0
	Persons working for the organisation being subordinated to it and considered to be employees under national law [in AWU]		0.0
	Owner-managers [in AWU]		2.0
	Partners engaged in a regular activity in the organisation and benefiting from financial advantages from the organisation [in AWU]		0.0
	Annual turnover [in EUR]		0.00
	Annual balance sheet total [in EUR]		200,000.00
	Operating profit [in EUR]		0.00

Role of the partner organisation in this project:

Ecopelag EF is an non-profit R&D company focused on development of mussel farming as a tool to combat eutrophication in the Baltic Sea. Ecopelag will contribute to GoA 1.2 and the development of a report on current performance and future developments of existing and planned BlueBioEconomy sites; GoA 1.3 the development of decision-support tool and a data portal to identify and monitor optimal BlueBioEconomy sites; GoA 1.4 a report on the current and plausible future monitoring standards of low-trophic and multi-use farms; GoA 1.5 development of tools to measure impacts of BlueBioEconomy sites, GoA2.1 by testing and validating the decision-support tool and data portal and GoA 2.4: testing and validating monitoring standards and technologies at pilot sites. It will also work on GoA 3.3 (Ensure take up and legacy of BlueBioSites solutions).

849 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

2.2 Project Partner Details - Partner 11

LP/PP	Project Partner		
Partner Status	Active		
	Active from 22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Leibniz-Institut für Ostseeforschung Warnemünde (47 / 250 characters)
Organisation in English	Leibniz Institute for Baltic Sea Research Warnemünde (52 / 250 characters)
Department in original language	Abteilung Küstenmeer: Management und Planung (44 / 250 characters)
Department in English	Unit Coastal Sea: Management and Planning (41 / 250 characters)

Partner location and website:

Address	Seestraße 15 (12 / 250 characters)	**Country**	Germany
Postal Code	18119 (5 / 250 characters)	**NUTS1 code**	Mecklenburg-Vorpommern
Town	Rostock (7 / 250 characters)	**NUTS2 code**	Mecklenburg-Vorpommern
Website	www.io-warnemuende.de/ (22 / 100 characters)	**NUTS3 code**	Rostock, Kreisfreie Stadt

Partner ID:

Organisation ID type	Tax (identification) number (Steuer(identifikations)nummer)
Organisation ID	DE285239914 (11 / 50 characters)
VAT Number Format	DE + 9 digits
VAT Number	N/A ☐ DE285239914 (11 / 50 characters)
PIC	950506687 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	72.19 - Other research and experimental development on natural sciences and engineering	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities?	No

Role of the partner organisation in this project:

Leibniz-Institute for Baltic Sea Research (IOW) will act as the scientific partner for the pilot site along the coast of Mecklenburg Western-Pomerania. The IOW has experience in projects related to mussel farming (e.g. BONUS OPTIMUS) and site selection for aquaculture (e.g. BONUS BASMATI). The IOW will contribute with knowledge and data to identify criteria, selecting sites for low-trophic aquaculture and their integration in MSP. Involved in the project will be Gerald Schernewski, Miriam von Thenen, Johanna Schumacher and Esther Robbe. IOW is the overall WP2 leader, but is also contributing to other WPs and all GoAs.

626 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 12

LP/PP	Project Partner		
Partner Status	Active		
Active from	22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Suomen ympärisökeskus (29 / 250 characters)
Organisation in English	Finnish Environment Institute (43 / 250 characters)
Department in original language	Merikeskus (23 / 250 characters)
Department in English	Marine Reserach Centre (30 / 250 characters)

Partner location and website:

Address	Latokartanonkaari 11 (20 / 250 characters)	**Country**	Finland
Postal Code	00790 (5 / 250 characters)	**NUTS1 code**	Manner-Suomi
Town	Helsinki (16 / 250 characters)	**NUTS2 code**	Helsinki-Uusimaa
Website	www.syke.fi (11 / 100 characters)	**NUTS3 code**	Helsinki-Uusimaa

Partner ID:

Organisation ID type	Business Identity Code (Y-tunnus)
Organisation ID	0996189-5
VAT Number Format	FI + 8 digits
VAT Number	N/A ☐ FI09961895 (10 / 50 characters)
PIC	999478010 (9 / 9 characters)

Partner type:

Legal status	a) Public

Type of partner	Higher education and research instituti	University faculty, college, research institution, RTD facility, research cluster, etc.
Sector (NACE)	84.11 - General public administration activities	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? Yes

Role of the partner organisation in this project:

PP12 will contribute to GoA 1.1 in developing state-of-the-art concept for a regulatory and policy framework for low-trophic and multi-use aquaculture; GoA 1.3 the development of decision-support tool and a data portal to identify and monitor optimal BlueBioEconomy sites. SYKE will lead the work in GoA 1.4 that results in a report on the current and plausible future monitoring standards of low-trophic and multi-use farms. PP12 will contribute to GoA 2.1 by testing and validating the decision-support tool and data portal; to the development of the report on integrating and securing BlueBioSites within multiple MSP frameworks in GoA 2.3. SYKE leads the work in GoA2.4 (Testing and validating monitoring standards and technologies at pilot sites) and GoA 3.2 (BlueBioSites Policy Recommendations and Guidelines). SYKE contributes to GoA 3.1 and GoA 3.3.

858 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

○ Yes ○ No

State aid relevance

For the partner type selected, the Programme sees a medium to high risk for implementing State aid relevant activities. If the partner is of the opinion that its activities are not State aid relevant, it can ask the MA/JS for a plausibility check on the State aid relevance. Does the partner want to do this?

○ Yes ○ No

2.2 Project Partner Details - Partner 13

LP/PP	Project Partner		
Partner Status	Active		
Active from	22/09/2022	**Inactive from**	

Partner name:

Organisation in original language	Kurzemes plānošanas reģions (27 / 250 characters)
Organisation in English	Kurzeme Planning Region (23 / 250 characters)
Department in original language	not applicable (14 / 250 characters)
Department in English	not applicable (14 / 250 characters)

Partner location and website:

Address	Avotu Str.12 (12 / 250 characters)	**Country**	Latvia

Postal Code	LV-3801 (7 / 250 characters)	**NUTS1 code**	Latvija
Town	Saldus (6 / 250 characters)	**NUTS2 code**	Latvija
Website	www.kurzemesregions.lv (22 / 100 characters)	**NUTS3 code**	Kurzeme

Partner ID:

Organisation ID type	Unified registration number (Vienotais reģistrācijas numurs)
Organisation ID	90002183562
VAT Number Format	LV + 11 digits
VAT Number	**N/A** ☑ (0 / 50 characters)
PIC	950641614 (9 / 9 characters)

Partner type:

Legal status	a) Public	
Type of partner	Regional public authority	Regional council, etc.
Sector (NACE)	84.11 - General public administration activities	

Partner financial data:

Is your organisation entitled to recover VAT related to the EU funded project activities? No

Role of the partner organisation in this project:

Kurzeme Planning Region is a regional authority with focus on the blue bioeconomy for the region. It will contribute in tasks under WP2 related to regional stakeholder engagement and development perspectives. KPR has been active in development of mussel and algae aquaculture in the region through several projects (Baltic Blue Growth, GRASS). PP13 will contribute to GoA 1.2 and the development of a report on current performance and future developments of existing and planned BlueBioEconomy sites; GoA 1.5 development of tools to measure impacts of BlueBioEconomy sites; GoA 2.1 by testing and validating the decision-support tool and data portal. It will lead the development of Communities of Practice (COPs) and blue 'visions' in GoA 2.2. In addition, Kurzeme Planning Region contributes GoA2.4 and GoA 3.3.

814 / 1,000 characters

Has this organisation ever been a partner in the project(s) implemented in the Interreg Baltic Sea Region Programme?

◉ Yes ○ No

2.3 Associated Organisation Details - AO 1

Associated organisation name and type:

Organisation in original language: HELCOM (6 / 250 characters)

Organisation in English: HELCOM (6 / 250 characters)

Department in original language: HELCOM Secretariat (18 / 250 characters)

Department in English: HELCOM Secretariat (18 / 250 characters)

Legal status: a) Public

Type of associated organisation: International governmental organisatio

HELCOM, BSSSC, CBSS, VASAB, etc.

Associated organisation location and website:

Address: Katajanokanlaituri 6 B (22 / 250 characters)

Country: Finland

Postal Code: FI-00160 (8 / 250 characters)

Town: Helsinki (8 / 250 characters)

Website: helcom.fi/ (10 / 100 characters)

Role of the associated organisation in this project:

HELCOM Secretariat participation in the BlueBioSites project as an associated partner will ensure communication with relevant HELCOM subsidiary bodies and projects in which the Secretariat is involved, as well as making sure the project work is taken into consideration when preparing implementation of the relevant 2021 BSAP actions. The main role would be giving advice and feedback to the proposals on standards, criteria and monitoring of the sites that are to be developed within the project. Also supporting the decision tool work and MSP data portal related development in the frame of the ongoing work flows in the HELCOM Secretariat would be part of the cooperation.

676 / 1,000 characters

2.3 Associated Organisation Details - AO 2

Associated organisation name and type:

Organisation in original language: Maaeluministeerium (18 / 250 characters)

Organisation in English: Ministry of Rural Affairs (25 / 250 characters)

Department in original language: Kalamajandusosakond (19 / 250 characters)

Department in English: Fisheries Economics Department (30 / 250 characters)

Legal status: a) Public

Type of associated organisation: National public authority — Ministry, etc.

Associated organisation location and website:

Address: Lai tn 39 / Lai tn 41 (21 / 250 characters)

Country: Estonia

Postal Code: 15056 (5 / 250 characters)

Town: Tallinn (7 / 250 characters)

Website: www.agri.ee/en (14 / 100 characters)

Role of the associated organisation in this project:

The Ministry of Rural Affairs of Estonia is a government ministry of Estonia responsible for policies regarding agriculture, food market and food safety, animal health, welfare and breeding, bioeconomy and fishing industry in Estonia. Regarding aquaculture, they have set the following objectives in Estonia: aquaculture sector is sustainable and competitive; the aquaculture sector produces high-quality products with high added value and high export potential. They are responsible for Estonian Agriculture and Fisheries Strategy 2030. Multiannual National Action Plan for Estonian Aquaculture 2030 is currently being developed in Estonia based on AFS 2030. Estonian Ministry of Rural Affairs is providing strategic advice and is a target group of the project. They will be informed of all project activities relevant to them.

830 / 1,000 characters

2.3 Associated Organisation Details - AO 3

Associated organisation name and type:

Organisation in original language: Keskkonnaministeerium (21 / 250 characters)

Organisation in English: Ministry of the Environment (27 / 250 characters)

Department in original language: Merekeskkonna osakond (21 / 250 characters)

Department in English: Marine Environment Department (29 / 250 characters)

Legal status: a) Public

Type of associated organisation: National public authority — Ministry, etc.

Associated organisation location and website:

Address: Paldiski mnt 96 (16 / 250 characters)

Country: Estonia

Postal Code: 13522 (5 / 250 characters)

Town: Tallinn (7 / 250 characters)

Website: envir.ee/ (9 / 100 characters)

Role of the associated organisation in this project:

The Ministry of the Environment is a government ministry of Estonia responsible for the issue of policies regarding climate, mineral resources, environmental awareness, fisheries and hunting in Estonia.The area of government of the ministry includes the followng tasks that are relevant for the BBS project: organising of national environmental and nature protection, fulfilling tasks related to land and databases containing spatial data, organising the use, protection, re-production and accounting for natural resources, performing tasks related to decrease of climate change, environmental supervision, organising the use of external tools for environmental protection, as well as compiling strategic documents and draft legislation. Estonian Ministry of the Environment is providing strategic advice and is a target group of the project. They will be informed of all project activities relevant to them.

909 / 1,000 characters

2.3 Associated Organisation Details - AO 4

Associated organisation name and type:

Organisation in original language: Ministerium für Wirtschaft, Infrastruktur, Tourismus und Arbeit Mecklenburg-Vorpommern
86 / 250 characters

Organisation in English: Federal State Government of Mecklenburg-Vorpommern
50 / 250 characters

Department in original language: Abteilung Energie und Landesentwicklung
39 / 250 characters

Department in English: Department of Energy and Regional Development
45 / 250 characters

Legal status: a) Public

Type of associated organisation: Regional public authority | Regional council, etc.

Associated organisation location and website:

Address: Schloßstraße 6-8
16 / 250 characters

Country: Germany

Postal Code: 19053
5 / 250 characters

Town: Schwerin
8 / 250 characters

Website: www.government-mv.de
20 / 100 characters

Role of the associated organisation in this project:

During the course of the project period, the Ministry Mecklenburg-Vorpommern is about to revise and draft the third version of its Maritime Spatial Plan - which forms part of the overall spatial plan of the ‚Land' Mecklenburg-Vorpommern. Aquaculture has already been mentioned in the second MSP of Mecklenburg-Vorpommern, but without any concrete sites being allocated at that time due to missing knowledge. Hence the Ministry is highly interested in the activities of BlueBioSites in view of identifying concrete sites especially also for low-trophic aquaculture. The Ministry will work together with IOW in view of possible site selections and how they can be integrated into the new MSP. It will also cooperate with IOW in view of stakeholder interactions as to ensure that they align with the official public consultations for the new MSP .

848 / 1,000 characters

2.3 Associated Organisation Details - AO 5

Associated organisation name and type:

Organisation in original language: Varsinais-Suomen liitto (23 / 250 characters)

Organisation in English: Regional Council of Southwest Finland (37 / 250 characters)

Department in original language: Maankäyttö ja ympäristö (23 / 250 characters)

Department in English: Land Use and Planning (21 / 250 characters)

Legal status: a) Public

Type of associated organisation: Regional public authority — Regional council, etc.

Associated organisation location and website:

Address: Linnankatu 52 B (15 / 250 characters)

Country: Finland

Postal Code: 20101 (6 / 250 characters)

Town: Turku (5 / 250 characters)

Website: varsinais-suomi.fi/en/ (22 / 100 characters)

Role of the associated organisation in this project:

The Regional Council of Southwest Finland is one of Finland's 19 regional councils. Their role is to operate both as regional development authorities and as planning and lobbying organizations. The Regional Council of Southwest Finland acts as a coordinator of the MSP cooperation among all regional councils. Regional Council of Southwest Finland considers BlueBioSites project to be highly important content-wise to Finnish MSP. They will participate in a needed manner to ensure the relevance of the project activities for Finnish MSP and to provide the perspective of the MSP authorities on the project implementatior.

623 / 1,000 characters

2.3 Associated Organisation Details - AO 6

Associated organisation name and type:

Organisation in original language: Est-Agar (8 / 250 characters)

Organisation in English: Est-Agar (8 / 250 characters)

Department in original language: not applicable (14 / 250 characters)

Department in English: not applicable (14 / 250 characters)

Legal status: b) Private

Type of associated organisation: Small and medium enterprise

Micro, small, medium enterprises < 250 employees, ≤ EUR 50 million turnover or ≤ EUR 43 million balance sheet total

Associated organisation location and website:

Address: Kärla village (13 / 250 characters)

Country: Estonia

Postal Code: 93501 (5 / 250 characters)

Town: Saare county (12 / 250 characters)

Website: estagar.ee/ (11 / 100 characters)

Role of the associated organisation in this project:

Est-Agar is a company located at the Saaremaa island in Estonia and is the only producer of the unique texturant – furcellaran from the red seaweed Furcellaria lumbricalis in the world. In addition to manufacturing they actively develop exceptional technology, improve the quality of production and study on new products in order to expand substantially the range of use of furcellaran from purely natural origin. Est-Agar will be informed of the project activities and is involved in Estonian pilot case.

506 / 1,000 characters

2.3 Associated Organisation Details - AO 7

Associated organisation name and type:

Organisation in original language: Jordbruksverket (15 / 250 characters)

Organisation in English: Swedish Board of Agriculture (28 / 250 characters)

Department in original language: not applicable (14 / 250 characters)

Department in English: not applicable (14 / 250 characters)

Legal status: a) Public

Type of associated organisation: National public authority — Ministry, etc.

Associated organisation location and website:

Address: Skeppsbrogatan 2 (16 / 250 characters)

Country: Sweden

Postal Code: 53329 (5 / 250 characters)

Town: Jönköping (9 / 250 characters)

Website: www.jordbruksverket.se
bsrbioeconomy.net/ (42 / 100 characters)

Role of the associated organisation in this project:

The Swedish Board of Agriculture is Sweden's expert authority in the areas of agriculture, fishery and rural areas. The SBOA is the responsible PAC for the Blue Bioeconomy under the PA Bioeconomy / Nordic Council of Ministers in the Action Plan for the European Union Strategy for the Baltic Sea Region (EUSBSR) to propel cooperation within the bioeconomy. PA Bioeconomy is the focal area of BlueBioSites and cooperation wih PA Bioeconomy helps to establish better linkages between BlueBioSites and the EUSBSR. The promotion of the Blue BioEconomy lies at the heart of PAC Bioeconomy. It is therefore highly interested in following the progress of BlueBioSites. PA Bioeconomy will be informed and consulted on the BlueBioSites project.Together with AG-Fisk PAC Bioeconomy will serve as an advisory board to BlueBioSites and cross-communicate results also with other PACs of the EUSBSR; esp. PAC Nutri.

903 / 1,000 characters

2.3 Associated Organisation Details - AO 8

Associated organisation name and type:

Organisation in original language
Vides aizsardzības un reģionālās attīstības ministrija
54 / 250 characters

Organisation in English
Ministry of Environmental Protection and Regional Development of the Republic of Latvia
88 / 250 characters

Department in original language
Telpiskās plānošanas un zemes pārvaldības departaments
54 / 250 characters

Department in English
Spatial planning and land management department
47 / 250 characters

Legal status
a) Public

Type of associated organisation
National public authority
Ministry, etc.

Associated organisation location and website:

Address
Peldu iela 25
13 / 250 characters

Country
Latvia

Postal Code
LV-1494
7 / 250 characters

Town
Riga
4 / 250 characters

Website
www.varam.gov.lv/
17 / 100 characters

Role of the associated organisation in this project:

Ministry of Environmental Protection and Regional Development of the Republic of Latvia is supporting the project and will be informed of the project activities. It will be involved in project activities supporting the direct link with the MSP of Latvia.
254 / 1,000 characters

2.3 Associated Organisation Details - AO 9

Associated organisation name and type:

Organisation in original language
Lietuvos Respublikos aplinkos ministerija
41 / 250 characters

Organisation in English
Ministry of Environment of the Republic of Lithuania
53 / 250 characters

Department in original language
Erdvinio planavimo, urbanistikos ir architektūros klausimai
59 / 250 characters

Department in English
Urban Development and Architecture Questions
44 / 250 characters

Legal status
a) Public

Type of associated organisation
National public authority
Ministry, etc.

Associated organisation location and website:

Address
A. Jakšto g. 4
14 / 250 characters

Country
Lithuania

Postal Code
LT-01105
9 / 250 characters

Town
Vilnius
7 / 250 characters

Website
am.lrv.lt/en/
13 / 100 characters

Role of the associated organisation in this project:

AM participation in the BlueBioSites project as an associated partner will ensure communication on the project with relevant stakeholders on national level. The main role would be giving advice and feedback to the proposals on standards, criteria and monitoring of the sites that are to be developed within the project.
321 / 1,000 characters

2.3 Associated Organisation Details - AO 10

Associated organisation name and type:

Organisation in original language
Urząd Morski w Gdyni
20 / 250 characters

Organisation in English
Maritime Office in Gdynia
25 / 250 characters

Department in original language
not applicable
14 / 250 characters

Department in English
not applicable
15 / 250 characters

Legal status
a) Public

Type of associated organisation
Regional public authority
Regional council, etc.

Associated organisation location and website:

Address
ul. Chrzanowskiego 10
22 / 250 characters

Country
Poland

Postal Code
81-338
7 / 250 characters

Town
Gdynia
6 / 250 characters

Website
https://www.umgdy.gov.pl/
25 / 100 characters

Role of the associated organisation in this project:

Maritime Office in Gdynia (MOG) represents the Polish Maritime Administration - the national maritime authority in Poland. Maritime Office in Gdynia, together with Maritime Office in Szczecin, is responsible for administrating of Polish maritime areas and for developing the maritime spatial plans. In BlueBioSites project, MOG will give necessary and practical input to the pilot case of Gulf of Gdańsk, led by Maritime University in Gdynia – Maritime Institute and ensure that its results will be useful and applicable in the next MSP planning round.

553 / 1,000 characters

2.3 Associated Organisation Details - AO 11

Associated organisation name and type:

Organisation in original language: Origin by Ocean (15 / 250 characters)

Organisation in English: Origin by Ocean (15 / 250 characters)

Department in original language: not applicable (14 / 250 characters)

Department in English: not applicable (14 / 250 characters)

Legal status: b) Private

Type of associated organisation: Small and medium enterprise

Micro, small, medium enterprises < 250 employees, ≤ EUR 50 million turnover or ≤ EUR 43 million balance sheet total

Associated organisation location and website:

Address: Tekniikantie 2 (4th floor) (26 / 250 characters)

Country: Finland

Postal Code: 02150 (6 / 250 characters)

Town: Espoo (6 / 250 characters)

Website: originbyocean.com (17 / 100 characters)

Role of the associated organisation in this project:

The vision of Origin by Ocean is to create an algae-based business ecosystem that alleviates the nutrient burden of the Baltic Sea in a commercially viable manner. BlueBioSites project will cooperate with Origin by Ocean when testing the monitoring pilot and keeps them informed of project activities.

302 / 1,000 characters

3. Relevance

3.1 Context and challenge

The Blue Bioeconomy has been identified as a substantial provider of food, feed, materials and compounds. It is an important part in the EU Green Deal and Mission 'Oceans, Seas & Waters', as low-trophic aquaculture in combination with or without offshore installations reduces pressure on EU land resources, while mitigating climate change and eutrophication through CO2 and nutrient uptake. Previous projects have provided proof of concept for novel ways to cultivate, collect and develop products from mussels, algae, and other marine resources. Commercial development is, however, hampered by the fact that blue biomass production within the Baltic Sea is lagging behind due to lack of sites. Many Baltic Sea countries have considered low-trophic aquaculture and or combinations with fixed installations within their recently adopted MSPs. However, few of them earmark specific areas for i.e. algae cultivations or multi-use solutions, and none of them have considered cultivation from the perspective of their positive effects on bioremediation. Spatial allocations were hampered by lack of harmonized and accessible data on ecology, socio-economy and human use and agreements on criteria for site selection. Current monitoring systems are not in line with opportunities provided by 'state of the art' modern technologies. The focus is on negative impacts of human activities rather than ecosystem services. What is needed is the operationalization of science-based data-rich knowledge for site selection, along with appropriate technology solutions to designate the maritime space necessary for these applications under given MSPs. In addition, it is necessary to establish and agree on standards on best practices as well as parameters to monitor sites using innovative tools, incorporating (restorative and compensative) impacts on the environment.

1,856 / 2,000 characters

3.2 Transnational value of the project

Global climate change, Baltic Sea eutrophication, the need for renewable energy and food security in Europe and the achievement of Good Environmental Status – are all objectives which cannot be tackled by regions or countries on their own. The Horizon Mission 'Ocean, Seas and Waters' has the clear objective of accelerating the de-carbonization of the Blue Economy especially in the North and Baltic Sea 'lighthouse' area. Multi-use of the sea; circular and zero-carbon aquaculture for low-impact food systems as well as nature-based solutions for greenhouse gas emission reduction and carbon sequestration have the highest priority in the Mission Implementation Plan. This is underlined by the European Commission's recent EU4Algae initiative. In October 2020, Ministers around the Baltic Sea decided to include sea-based measures to reduce internal nutrient leakage into HELCOMs revised Baltic Sea Action Plan.
However, in order to accelerate this development and live up to these ambitious targets, national or regional authorities must work together. They need to pool resources across the Baltic Sea region, using the best available research and technology providers to enable blue (bio) economy operators to realize large-scale, low-trophic aquaculture and multi-use solutions. Monitoring standards and technology transfer are required in particular, as positive impacts can only be assessed through transnational solutions across the entire Baltic Sea, while achieving substantial cost-efficiencies through standardized technologies.
Hence the BlueBioSites partnership extends across the entire EU Baltic Sea Region, including renowned research institutes in this field, closely linked to their respective national / regional administrations as well as blue bioecoonomy business communities, providing scientific knowledge for use in MSP processes, developing appropriate monitoring frameworks and making licensing decisions.

1,942 / 2,000 characters

3.3 Target groups

Target group	Sector and geographical coverage	Its role and needs
National public authority	Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. (336 / 500 characters)	Ensure that solutions and results from BlueBiosites project are transferred on a long-term basis within Baltic Sea Region countries, being integrated to national strategies (i.e. MSPs, climate / environmental / economic targets) and commitments. (246 / 1,000 characters)
Local public authority	Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. (307 / 500 characters)	Ensure that solutions and results from BlueBiosites project are transferred on a long-term basis within municipalities/regions, being integrated to local/regional development plans, strategies, licensing & regulatory processes and commitments. (243 / 1,000 characters)
Small and medium enterprise	Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries. (204 / 500 characters)	Ensure that solutions and results from BlueBiosites project are transferred on a long-term basis within SMEs; their monitoring & business practices; their respective value chains, being integrated to business plans and new partnerships. (237 / 1,000 characters)
International governmental organisation	Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant. (235 / 500 characters)	Ensure that solutions and results from BlueBiosites project are transferred on a long-term basis within and across Baltic Sea Region countries, being integrated to Baltic Sea Region strategies and commitments (i.e. Mission Ocean Lighthouse Charter, EUSBSR Action Plan & Indicators, HELCOM Baltic sea Action Plan, MSP Roadmap). (326 / 1,000 characters)
Interest group	Blue economy and environmental interest groups, philantrophic foundations, associations and NGOs (e.g. WWF, John Nurminen Foundation, VELUX) primarily active in the Baltic Sea Region or with wider influence on an EU or international level. (239 / 500 characters)	Ensure that solutions and results from BlueBiosites project are transferred on a long-term basis within and across Baltic Sea Region countries, being integrated to Baltic Sea Region strategies and commitments (i.e. Mission Ocean Lighthouse Charter, EUSBSR Action Plan, HELCOM Baltic sea Action Plan, MSP Roadmap) and co-created in constructive dialogue with all relevant stakeholders at local, national and sea-basin level. (423 / 1,000 characters)

3.4 Project objective

Your project objective should contribute to:

Blue economy

BlueBioSites supports innovative and sustainable business development in the Baltic Sea Region in the strongly emerging sector of low-trophic and integrated multi-trophic aquaculture; which provides the necessary resources for food, feed, nutra- and pharmaceuticals, materials and energy and numerous ancillary services associated with their use (i.e. tourism). Moreoever it offers important solutions for combating eutrophication and climate change. BlueBioSites creates the opportunity for growth of this sector by identifying suitable sites for such forms of aquaculture both as single standing activities as well as in combination with the equally strongly developing sector of offshore wind as well as other offshore installations. Being strongly embedded into Maritime Spatial Planning, the related strategic and environmental impact assessments as well as regional / local stakeholder processes it pro-actively looks for synergies; beneficial land-sea connections and win-win scenarios among the various users as to delimit possible conflicts among them. To that end it develops appropriate governance, communication and cooperation models among public authorities, companies as well as related stakeholders (local NGOs, business associations, tourism, science). By opening the space for increased production of sustainable blue resources, it creates new business opportunities for local value chains for marine-based products and services in line with regional smart specialisation strategies. By suggesting and piloting new monitoring standards based on existing state of art technology, it promotes a new perspective which also considers the expected positive climate and environmental impact from such low-trophic cultures to be integrated into the respective regional blue economy development and environmental / climate action plans. The improved - validated - knowledge of such positive effects will enable the valorization of ecosystem services provided by such blue businesses.

2,000 / 2,000 characters

3.5 Project's contribution to the EU Strategy for the Baltic Sea Region

Please indicate whether your project contributes to the implementation of the Action Plan of the EU Strategy for the Baltic Sea Region (EUSBSR).

(•) Yes ( ) No

Please select which Policy Area of the EUSBSR your project contributes to most.

PA Bio-economy

Please list the action of this Policy Area that your project contributes to and explain how.

PA Bioeconomy actions concentrate on pursuing the bioeconomy actually and practically for example by improving policy coherence and policy learning and by engaging the private sector, for example in the recycling of nutrients in European waters. In fisheries management, emphasis is on improving coordination among Member States and stakeholders in the region. BlueBioSites directly addresses this objective by increasing capacities and coherence of public authorities, creating new business and job opportunities, new development in rural areas and growth of primary industries such as macroalgae cultivation and biorefinery. By opening new space for primary sustainable blue biomass production within the Baltic Sea Region it substantially increases business opportunities for all subsequent product and service value chains and enables the diversification and modernization of the blue economy sector also in rural areas.

928 / 1,500 characters

If applicable, please describe which other Policy Areas of the EUSBSR your project contributes to and how.

BlueBioSites is also highly relevant to PA Nutri - as it enables the realisation of sea-based measures to deal with the already existing nutrient load within the Baltic Sea. It applies a site specific / multi-factor perspective towards site selection and suggests / pilots new, appropriate and cost-effective monitoring standards and technologies. It always considers all possible measures (incl. land-based) and their effectiveness. It therefore contributes susbtantially to an improved regional wide perspective and understanding on where and to what extend low-trophic aquaculture can contribute to mitigating eutrophication as well as climate change.
BlueBioSites is also highly relevent to PA Health - as it enable the production of healthy, low-fat food production and bio-based pharmaceuticals;
PA Spatial Planning to improve processes for MSP; land-sea interaction and multi-use solutions - by providing the knowledge necessary to find and monitor optimal sites for such low-trophic / multi-use aquaculture within the Baltic Sea - both as single standing sites as well as within multi-use solutions in combination with other installations;
PA Innovation - as it promote the use of novel monitoring frameworks and technologies as well as enabling the creation of new product and service value chains - and hence new business development especially in the food, feed, material and pharmaceutical sector.

1,420 / 1,500 characters

3.6 Other political and strategic background of the project

Strategic documents

The EU-Mission 'Restore our Ocean and Waters by 2030' (based on the new 'EU approach for a sustainable blue economy' and the EU4Algae initiative) has set as the specific objective for the Baltic and North Sea area to achieve the transition to a carbon-neutral and circular blue economy. It specifically calls for the installation of zero-carbon aquaculture as a new resource for food and feed and creation of multipurpose offshore platforms, supported by digital driven monitoring systems

490 / 500 characters

The HELCOM Baltic Sea Action Plan 2021 update foresees the adoption of 'Guidelines for sea-based measures to manage the internal nutrient reserves'; a 'Baltic Sea Nutrient Recycling Strategy' and a compilation of 'all climate mitigation and adaptation measures'. It is based on the Ministerial Declaration (28/9/20), which 'PROMOTEs ecologically sustainable sea-based measures, where appropriate with potential for eutrophication abatement such as mussel cultivation and blue catch crops'.

489 / 500 characters

The 'SUBMARINER Roadmap 21+', based on a thorough assessment of the results achieved from (INTERREG) projects during the past seven years calls specifically in Action 1 for the installation of larger scale demonstration sites, which are integrated into wider 'land-based' actions of regional development plans – while also being monitored using modern technology and common parameters including some following positive environmental and climate impacts.

454 / 500 characters

3.7 Seed money support

Please indicate whether your project is based on a seed money project implemented in the Interreg Baltic Sea Region Programme 2014-2020.

(•) Yes ( ) No

Please enter the title of this seed money project.

BlueBioSites

12 / 200 characters

Please select which Policy Area (PA) or Horizontal Action (HA) this seed money project contributed to most.

PA Bio-economy

3.8 Other projects: use of results and planned cooperation

Full name of the project	Funding Source	Use of the project outcomes and/or planned cooperation
Baltic Blue Growth (Initiating full scale mussel farming in the Baltic Sea) 75 / 200 characters	INTERREG BSR, 2016-2019 23 / 200 characters	BBG showcased that mussel farming also in low salinity waters of the Baltic Sea Proper provides valuable results through use technology and newest knowledge adapted to these specific conditions. BlueBioSites will build on the decision-support tool (ODSS) started within that project. 284 / 1,000 characters
GRASS (Growing Algae Sustainably in the Baltic Sea) 52 / 200 characters	INTERREG BSR, 2018-2022 23 / 200 characters	GRASS equally showed that also macroalgae production is possible within the Baltic Sea Region. BlueBioSites will build on the advanced ODSS (resulting in a preliminary pan-Baltic map depicting the potential for macroalgae production) as well as its numerous other outputs (I.e. report on ecological impacts and guidelines on how to conduct Environmental Impact Assessments for macroalgae cultivation). 401 / 1,000 characters
Blue Platform 14 / 200 characters	INTERREG BSR, 2018-2023 23 / 200 characters	Blue Platform capitalized on the results of numerous Blue Bioeconomy projects undertaken in the Baltic Sea region as to derive the necessary next steps to be taken in the coming years (Roadmap 21+ s.a.). BlueBioSites will build on results not only of BBG/GRASS, but also numerous other projects funded i.e. under BONUS, Horizon, Sub-regional INTERREG programmes, LIFE and national projects). 391 / 1,000 characters
Blue Bio Cluster (Revitalizing coastal communities through the development of the Blue Bioeconomy) 99 / 200 characters	Horizon Europe, 2022-2025 25 / 200 characters	BBC is a parallel ongoing, already approved project lead by SUBMARINER with key input from UTartu, Klaipeda University/Region and numerous other BlueBioClusters from around Europe. If approved, BlueBioSites will strongly align with this project as it is designed to support companies and regions to create full value chains for the development of products from the blue biomass expected to become available in coming years as a result of BlueBioSites. BlueBioSites would specifically align withh the Communities of Practices and business support actions (start-up mentor support / technology transfer) promoted in the project. 627 / 1,000 characters
EU4Algae (DG MARE, 2022-2025) 30 / 200 characters	DG MARE, 2022-2025 18 / 200 characters	EU4Algae is the European wide assistance mechanism designed to provide any kind of stakeholder involved in realizing algae cultivation and processing within EU seas and oceans. SUBMARINERs lead agency for its secretariat, s.Pro, is one of the key service providers next to the European Algae Business Association and Seaweed for Europe. If approved, BlueBioSites will closely align with the EU4Algae initiative esp. In view of technology development; monitoring standards for sites as well as promoting algae-based product development and respective full value chains in the Baltic Sea region. 596 / 1,000 characters

3.10 Horizontal principles

Horizontal principles	Projects's direct impact
Sustainable development	positive
Non-discrimination including accessibility	positive
Equality between men and women	neutral

4. Management

Allocated budget 10%

4.1 Project management

☑ **Please confirm that the lead partner and all project partners will comply with the rules for the project management as described in the Programme Manual.**

If relevant, please indicate any other important aspects of the project management, e.g. external entity supporting the lead partner in the management of the project, advisory board, steering committee, any other relevant working groups, etc.

Seven PP meetings are planned, which are also used for study-visits and country specific outreach. SUB (PP02) will organize their timing, agendas and minutes together with the hosting partner. PP02 will also organize bi-monthly teleconferences of the Project Coordination Team to discuss progress of GoAs, cross-linkages; concerns and future steps. The project management will be facilitated by a secure sharepoint (TEAMS) serving as repository for internal documents and KANBAN system (Trello).

497 / 500 characters

4.2 Project financial management

☑ **Please confirm that the lead partner and all project partners will comply with the rules for the financial management and control as described in the Programme Manual.**

If relevant, please indicate any other important aspects of the financial management, e.g. external entity supporting the lead partner, positions planned for financial management, involvement of special financial experts (e.g. for public procurement), etc.

4.2 entails sound legal, contractual, financial and administrative project management, in compliance with the Consortium/Partnership Agreements and good management practices. The LP together with SUB will ensure that all partners are adequately familiar with reporting templates provided by the Joint Secretariat and collate all partners' administrative and financial reports; communicate regularly with the Joint Secretariat and act as a contact point on behalf of the full consortium.

487 / 500 characters

4.3 Input to Programme communication

☑ **Please confirm that you are aware of the obligatory inputs to Programme communication that must be submitted along the pre-defined progress reports, as described in the Programme Manual.**

If relevant, please describe other important aspects of project communication that you plan to introduce, e.g. a communication plan, opening and closing events, social media channel(s) etc.

In order to maximize efficiency and effectiveness of external communication, a Project Communication Group will be set up, comprising one representative per project region, who will be responsible for the effective outreach to targeted stakeholders. SUB will assist PPs by ensuring that INTERREG Visual Identity rules are followed; messages are relayed coherently and relevant to the specific target audiences. All events will be designed to allow and document ample give-and-take with participants.

499 / 500 characters

4.4 Cooperation criteria

Please select the cooperation criteria that apply to your project. In your project you need to apply at least three cooperation criteria. Joint development and joint implementation are the obligatory ones you need to fulfill in your project.

Cooperation criteria	
Joint Development	☑
Joint Implementation	☑
Joint Staffing	☐
Joint Financing	☑

5. Work Plan

Number	Work Package Name
1	Preparing solutions

Number	Group of Activity Name
1.1	Developing the concept of regulatory and policy framework for Zero-Carbon Aquaculture and Multi-Use
1.2	Existing and planned BlueBioEconomy sites
1.3	Decision-support tool & data portal to identify & monitor optimal lowtrophic & multiuse BlueBioSites
1.4	Current and plausible future monitoring standards of low-trophic and multi-use farms
1.5	Tools to measure impacts of BlueBioEconomy sites

Number	Work Package Name
2	Piloting and evaluating solutions

Number	Group of Activity Name
2.1	Operationalizing optimal BlueBioSites decision-support tool and data portal
2.2	Establish 'Communities of Practice' and Regional Blue Visions
2.3	Integrating BlueBioSites within multiple MSP frameworks
2.4	Test and validate Monitoring Standards and Technologies at Pilot Sites

Number	Work Package Name
3	Transferring solutions

Number	Group of Activity Name
3.1	Continuous linkage and cross-fertilization with other Baltic Sea Region Blue Economy processes
3.2	BlueBioSites Findings, Recommendations and Guidelines
3.3	Ensure take up and legacy of BlueBioSites solutions

Work plan overview

Period: 1 2 3 4 5 6	Leader
WP.1: Preparing solutions	**PP1**
A.1.1: Developing the concept of regulatory and policy framework for Zero-Carbon Aquaculture and Multi-Use D.1.1: A report on the concept of regulatory and policy framework for low-trophic and multi-use aquaculture (D)	PP3
A.1.2: Existing and planned BlueBioEconomy sites D.1.2: A report on current performance and future developments of existing and planned BlueBioEconomy site (D)	PP9
A.1.3: Decision-support tool & data portal to identify & monitor optimal lowtrophic & multiuse BlueBioSites O.1.3: A decision-support tool and data portal to identify and monitor optimal BlueBioEconomy sites (O)	PP1
A.1.4: Current and plausible future monitoring standards of low-trophic and multi-use farms D.1.4: A report on the current and plausible future monitoring standards of low-trophic and multi-use farms (D)	PP12
A.1.5: Tools to measure impacts of BlueBioEconomy sites O.1.5: Tools to measure impacts of BlueBioEconomy sites (O)	PP1
WP.2: Piloting and evaluating solutions	**PP11**
A.2.1: Operationalizing optimal BlueBioSites decision-support tool and data portal O.2.1: Operationalized decision-support tool and data portal (O)	PP1
A.2.2: Establish 'Communities of Practice' and Regional Blue Visions D.2.2: Report on Communities of Practice and their Visions (D)	PP13
A.2.3: Integrating BlueBioSites within multiple MSP frameworks D.2.3: Report on integrating and securing BlueBioSites within multiple MSP frameworks (D)	PP3
A.2.4: Test and validate Monitoring Standards and Technologies at Pilot Sites O.2.4: Recommendations for Monitoring Standards and Technologies for BlueBioSites in the Baltic Sea (O)	PP12
WP.3: Transferring solutions	**PP2**
A.3.1: Continuous linkage and cross-fertilization with other Baltic Sea Region Blue Economy processes D.3.1: Activated BlueBioSites Advisory / Reference Group (D)	PP2
A.3.2: BlueBioSites Findings, Recommendations and Guidelines D.3.2: Report on BlueBioSites findings, recommendations and guidelines (incl. visuals / policy briefs) (D)	PP2
A.3.3: Ensure take up and legacy of BlueBioSites solutions O.3.3: Legacy of BlueBioSites solutions ensured (O)	PP2

Outputs and deliverables overview

Code	Title	Description	Contribution to the output	Output/ deliverable contains an investment
D 1.1	A report on the concept of regulatory and policy framework for low-trophic and multi-use aquaculture	A report on the state-of-the-art concept of regulatory and policy framework for low-trophic and multi-use aquaculture. The report will consist of two different subsections: 1) systematic analysis on policy instruments, BlueBioEconomy Target Setting and current MSP Frameworks and 2) review of Licensing Procedures, regional funding and requirements and identify Best Practices.	O 1.3 A decision-support tool and data portal; O 3.3. BlueBioSites Legacy	
D 1.2	A report on current performance and future developments of existing and planned BlueBioEconomy sites	The report will consist of two different subsections: 1) analyse settings and performance of the current and future bioeconomy sites, 2) review current BlueBioEconomy harvesting and cultivation technologies and possible impact of new technologies on site selection. Key questions to be addressed are: comparing the current production potential of different species cultured at existing BlueBioEconomy sites and the use of different technologies; evaluating how local environmental factors define production yields and carrying capacities at BlueBioEconomy sites; assessing the efficiency of ongoing monitoring programmes at existing BlueBioEconomy sites to deliver information on various sustainability aspects and socio-economic impacts of low-trophic and multi-use farming e.g. use of quantitative ecosystem service indicators for low-trophic activities, demonstration of positive biodiversity impacts from low-trophic aquaculture; environmental impact assessments of commercial mussel farms to regions' (e.g. Västervik's, West-Estonia) strategic goal of achieving good water status according to the EU Water Framework Directive; exploration of environmental and socio-economic feasibility of different IMTA solutions with possibilities to optimise the environmental, economic and social conditions; identification of plausible risks associated with the production process and the quality of low-trophic aquaculture products.	O 1.3 A decision-support tool and data portal	
O 1.3	A decision-support tool and data portal to identify and monitor optimal BlueBioEconomy sites	The web-based decision-support tool and data portal use novel knowledge-based algorithms which, benefiting from regional data platforms and farm monitoring, facilitate the integration of ecological, physical, biogeochemical and socio-economic information to support decisions related to BlueBioEconomy site selection, site monitoring and better consolidation of BlueBioEconomy sites into MSP. Ultimately, such an innovative decision support webtool will improve the knowledge base underpinning marine policies and provide concrete data and information products for the natural environment (e.g. expected restorative impacts of low trophic farming on habitats, biodiversity and ecosystem services), sustainability of farms (e.g. life cycle analyses adapted to location specific environmental parameters, productivities and cultivation designs), socio-economy (e.g. multi-criteria Sustainability Assessment at specific cultivation sites and associated value chains) and thereby accelerate BlueBioEconomy in the Baltic Sea region.		
D 1.4	A report on the current and plausible future monitoring standards of low-trophic and multi-use farms	The report will consist of three different subsections: 1) an assessment of existing, currently applied monitoring methods, equipment and data validation, 2) give an overview of new monitoring methods and technologies, 3) outline a fit-for-purpose technology and monitoring design for BlueBioEconomy sites.	O 2.1 Operationalized decision-support tool and data portal; O 3.3. BlueBioSites Legacy	
O 1.5	Tools to measure impacts of BlueBioEconomy sites	The following tools are developed to be used in the decision-support tool and data portal: 1) develop calculation algorithms to assess the risks of climate change on BlueBioEconomy, 2) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of climate change and 3) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of eutrophication and 4) assess and deliver economic impact of BlueBioEconomy.		
O 2.1	Operationalized decision-support tool and data portal	The web-based decision-support tool and data portal use novel knowledge-based algorithms which, benefiting from regional data platforms and farm monitoring, facilitate the integration of ecological, physical, biogeochemical and socio-economic information to support decisions related to BlueBioEconomy site selection, site monitoring and better consolidation of BlueBioEconomy sites into MSP. Operationalizing the tool enables focus on identification of policy, societal and economic needs to guide BlueBioEconomy development; methodological and technical developments to support data availability and accessibility; advances in mapping and modelling methods; improvements in assessment and valuation approaches; use of scenario and trade-off analysis i.e. including ecosystem service payment solutions (e.g. nutrient and carbon credits); assessing the potential of low-trophic aquaculture to compensate emissions of sea-based fish farms (backed by monitoring data); utilising emerging technologies and monitoring approaches; improvements in communication and engagement with stakeholders (e.g. enabling automatic data and knowledge delivery to the ongoing workflows in the HELCOM Secretariat); and integration of BlueBioEconomy into MSP.		
D 2.2	Report on Communities of Practice and their Visions	The report will describe the various stakeholders involved in the respective Communities of Practice in the giiven pilot regions; the 'Blue Visions' they have developed on how increased BlueBioSites can contribute to their regional development including socio-economic as well as environmental / climate goals - if relevant in conjunction with their smart specialization strategies. It will form the basis for D2.3 at individual regional pilot scale; but provide at same time a combined, comparative overview to all pilot regions as to stimulate cross-regional exchange both at policy as well as business cooperation level.	O 3.3 BlueBioSites Legacy	

D 2.3	Report on integrating and securing BlueBioSites within multiple MSP frameworks	The report will consist of three different subsections: 1) assessment, analysis and piloting on how optimal BlueBioSites can fit and be secured under the overall MSP framework, 2) assessing and analysing ancillary regional development schemes as to foster BlueBioEconomy development within the given regions and 3) recommendations on Regional Action Plans with SMART Objectives, Monitoring and Evaluation Plan.	O 3.3. BlueBioSites Legacy	
O 2.4	Recommendations for Monitoring Standards and Technologies for BlueBioSites in the Baltic Sea	The output will synthesize the validation results at pilot sites, recommend the most effective and suitable monitoring design and equipment at BlueBioEconomy sites to generate much-needed accurate data, utilising emerging environmental monitoring technologies (e.g. drones, novel sensors, eDNA) and analyses algorithms (machine learning, AI). It will suggest ways to generate data for the identification of new BlueBioEconomy sites as well as to deliver monitoring strategies for low-trophic and multi-use aquaculture with measurable and verifiable goals and indicators (e.g. EU WFD and MSFD indicators) that consider the local environmental and socio-economic background. Recommendations will be based on the stakeholder interactions within the pilot sites (including actors from across the quadruple helix; i..e operators; authorities; scientists and NGOs); discussions with the advisory / reference groups (WP3) on a wider scale and selected, highly engaged stakeholders in particular (i.e. EMODnet sea-basin checkpoints; HELCOM secretariat; ISSS network of Monitoring Institutions; GTK/ICES as monitoring hubs for Mission Ocean). Recommendations will consider cost-effectiveness of monitoring (and the technologies to be used) as well as a 'new' perspective on monitoring including also validation/measurements of positive impacts on climate change and eutrophication.		
D 3.1	Activated BlueBioSites Advisory / Reference Group	The activated pan-Baltic BlueBioSites Advisory / Reference Group is expected to consist of representatives of the Horizon Mission 'Oceans, Seas, Waters' Low Carbon Steering group (and its projects), HELCOM-VASAB MSP Working Group (incl. Data Group), Agri-Fisk/PAC Bioeconomy, PAC Nutri, PAC Innovation (Blue Smart Specialization), Sustainable Blue Economy Partnership, FARNET, EU4Algae, the European Aquaculture Member States Expert Group (and the EU Aquaculture Assistance Mechanism), SUBMARINER Algae, Mussel and Sustainable Aquaculture Working Groups, CPMR Baltic Sea Commission, ERRIN Blue Economy WG and EMODNet sea-basin checkpoints. The BlueBioSites Advisory Group ensures a continuous flow of information and knowledge across these different initiatives and strategies and operationalizes the results of the BlueBioSites project on BlueBioEconomy and low-trophic and multi-use aquaculture in the Baltic Sea region.	O 3.3. Legacy of BlueBioSites solutions	
D 3.2	Report on BlueBioSites findings, recommendations and guidelines (incl. visuals / policy briefs)	The report will consist of three different subsections (possibly to be shown in three distinct sections): 1) provide recommendations on pan-Baltic future monitoring framework for BlueBioSites, 2) deliver pan Baltic scenarios on possible contributions of low-trophic aquaculture to Climate Change Mitigation and 3) develop overarching BlueBioSites Findings and Recommendations. The report will also be made available in short extracts / policy briefs; which are mainly based on easy-to-understand visuals, maps and/or tables. Hence it will also be available as a summary PPT (or any other online communication tool). In addition, short 'user manuals' will be developed (including online training material) as to ensure uptake of the BlueBioSites tools by actual users.	O 3.3. Legacy of BlueBioSites solutions	
O 3.3	Legacy of BlueBioSites solutions ensured	Develop, agree and establish governance system to ensure future updates and maintenance of the BlueBioSites decision-support tool and monitoring strategy to be developed and agreed in conjunction with the pan-Baltic BlueBioSites Advisory / Reference Group (see GoA3.1.); based on BlueBioSites recommendations and findings (see GoA3.2)		

Work package 1

5.1 Preparing solutions

5.2 Aim of the work package

The aim of this work package is to prepare solutions to help address the identified challenge. You can either develop entirely new solutions or adapt existing solutions to the needs of your target groups. Prepare your solutions in a way that you can pilot them in Work Package 2. Consider how you involve your target groups in preparation of the solutions.
Organise your activities in up to five groups of activities to present the actions you plan to implement. Describe the deliverables and outputs as well as present the timeline.

5.3 Work package leader

Work package leader 1	PP 1 - University of Tartu
Work package leader 2	Please select

5.4 Work package budget

Work package budget	35%

5.5 Target groups

	Target group	How do you plan to reach out to and engage the target group?
1	National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 336 / 500 characters	As noted in the list of Associate Partners; numerous relevant national authorities have already confirmed their interest / willingness to be part of BlueBioSites processes. In addition, partners will mobilise their respective networks, which include national public authorities. These will be contacted through 1:1 meetings and/or their participation in workshops (in-person, via phone, via email, events) as well as partners participation in relevant meetings of these autorities to identify the main issues and brainstorm solutions. In addition, these authorities will be asked to point to any additional stakeholders, which they regard as important to contribute / be involved in project activities and contact will be established (and strategies/processes/events). Based on these discussions, the solutions will be defined and a work plan prepared. 858 / 1,000 characters
2	Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 307 / 500 characters	As noted, in addition to the local public authorities forming part of the partnership; others have already confirmed their interest in participating in BlueBioSites by being associate partners. In addition, partners will mobilise their respective networks, which include local public authorities. ,These will be contacted through 1:1 meetings and/or their participation in workshops (in-person, via phone, via email, events) as well as partners participation in relevant meetings of these autorities to identify the main issues and brainstorm solutions. In addition, these authorities will be asked to point to any additional stakeholders, which they regard as important to contribute / be involved in project activities and contact will be established (and strategies/processes/events). Based on these discussions, the solutions will be defined and a work plan prepared. 877 / 1,000 characters
3	Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries. 204 / 500 characters	Partners will mobilise their respective networks, which include SMEs (note SUBs blue bioeconomy company catalogue / Mussel, Algae and Multi-Use working groups), by inviting them to 1:1 meetings and/or workshops to identify the main issues and brainstorm solutions. In addition, all SMEs contacted will be asked to nominate any other stakeholders they regard as important to contribute to BlueBioSites activities and contacts will be established. Based on these discussions, the solutions will be defined and a work plan prepared. 532 / 1,000 characters
4	International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant. 235 / 500 characters	As noted, numerous transnational organisations (i.e. HELCOM, PAC Bioeconomy) have already confirmed their interest in participating in BlueBioSites by acting as associated partners. In addition, Partners (esp. SUB) will mobilise their respective networks, which include representatives of international governmental organisations, by contacting them through 1:1 meetings and/or asking for their participation in workshops or participating in their meetings to identify the main issues and brainstorm solutions. Moreover it will be discussed how BlueBioSites can best contribute / cooperate / align with them in view of their planned events, strategies and processes. Based on these discussions, the solutions will be defined and a work plan prepared. 754 / 1,000 characters
5	Interest group Blue economy and environmental interest groups, philantrophic foundations, associations and NGOs (e.g. WWF, John Nurminen Foundation, VELUX) primarily active in the Baltic Sea Region or with wider influence on an EU or international level. 239 / 500 characters	Partners will mobilise their respective networks, which include interest groups and NGOs, by contacting them through 1:1 meetings and/or asking for their participation in workshops or participating in their events to identify the main issues, brainstorm solutions and seek to find best ways to cooperate / align with their respective activities. Based on these discussions, the solutions will be defined and a work plan prepared. 436 / 1,000 characters

5.6 Activities, deliverables, outputs and timeline

No.	Name
1.1	Developing the concept of regulatory and policy framework for Zero-Carbon Aquaculture and Multi-Use
1.2	Existing and planned BlueBioEconomy sites
1.3	Decision-support tool & data portal to identify & monitor optimal lowtrophic & multiuse BlueBioSites
1.4	Current and plausible future monitoring standards of low-trophic and multi-use farms
1.5	Tools to measure impacts of BlueBioEconomy sites

WP 1 Group of activities 1.1

5.6.1 Group of activities leader

Group of activities leader PP 3 - Latvian Institute of Aquatic Ecology, Agency of Daugavpils University

A 1.1

5.6.2 Title of the group of activities

Developing the concept of regulatory and policy framework for Zero-Carbon Aquaculture and Multi-Use

100 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) carry out systematic analysis on policy instruments, BlueBioEconomy Target Setting and current MSP Frameworks, and 2) review of Licensing Procedures and requirements to identify Best Practices.
To achieve the first objective, partners will review the latest relevant European / sea-basin strategies and targets (i.e. sustainable aquaculture guidelines; Horizon Missions), regional smart specialization, climate strategies / targets and the role of the blue bioeconomy within them, as well as national bioeconomy legal frameworks. Partners will analyze existing national aquaculture strategies, links or mismatches regarding their recognition in adopted MSPs. They will analyze areas available for aquaculture in all adopted BSR MSPs, and conditions to be fulfilled under these MSP regulations. They will compare and analyze possible targets according to the role of the blue (bio) economy in achieving Mission Ocean Lighthouse targets, HELCOM Baltic Sea Actions Plan targets, other relevant climate targets / goals, regional economy plans and Farm2Fork strategies. By engaging a diverse target group represented by associated partners – i.e. ministries and agencies – in these activities, partners will analyse and integrate results into policy-relevant recommendations for relevant policy bodies (i.e. HELCOM-VASAB MSP Working Group; MSP Data Group; PAC Bioeconomy; PAC Nutri; PAC Spatial Planning etc.), delivering quantifiable and tangible targets for optimal, carbon-neutral bioeconomies in the Baltic Sea region.
In order to achieve the second objective, partners will identify, compare and analyse current licensing procedures and requirements for companies to gain licenses for use or cultivation of marine resources in marine or coastal sites. They will analyse the practical implementation of compensation measures in the licensing process e.g. by adjusting licensing legislation to support low-trophic aquaculture practices and enable multi-use aquaculture concepts in practice. They will analyse how these aquaculture operations are included under regional EMFAF operational programmes. They will seek possibilities for simplifying the licensing and permitting process for aquaculture, in close cooperation with associated partners as the target group. They will develop guidelines for authorities to streamline the licensing process. They will provide a Baltic Sea overview on regional EMFAF programmes and how/whether low-trophic aquaculture is covered by them, and identify commonalities and 'good solutions' (already in practice) either within or outside the Baltic Sea Region, to improve licensing frameworks and processes, thereby accelerating blue biomass production across all Baltic Sea regions.

2,756 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 1.1

Title of the deliverable

A report on the concept of regulatory and policy framework for low-trophic and multi-use aquaculture

100 / 100 characters

Description of the deliverable

A report on the state-of-the-art concept of regulatory and policy framework for low-trophic and multi-use aquaculture. The report will consist of two different subsections: 1) systematic analysis on policy instruments, BlueBioEconomy Target Setting and current MSP Frameworks and 2) review of Licensing Procedures, regional funding and requirements and identify Best Practices.

378 / 2,000 characters

Which output does this deliverable contribute to?

O 1.3 A decision-support tool and data portal; O 3.3. BlueBioSites Legacy

74 / 100 characters

5.6.6 Timeline

	Period: 1	2	3	4	5	6
WP.1: Preparing solutions						
A.1.1: Developing the concept of regulatory and policy framework for Zero-Carbon Aquaculture and Multi-Use						
D.1.1: A report on the concept of regulatory and policy framework for low-trophic and multi-use aquaculture						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 1 Group of activities 1.2

5.6.1 Group of activities leader

Group of activities leader PP 9 - Västervik Municipality

A 1.2

5.6.2 Title of the group of activities

Existing and planned BlueBioEconomy sites

41 / 100 characters

5.6.3 Description of the group of activities

Existing and planned BlueBioEconomy sites: Mapping current performance, assessing knowledge gaps and identifying possible future developments of low-trophic and multi-use farms.
The overall aims of this GoA are to 1) analyse settings and performance of the current and future low-trophic and multi-use bioeconomy sites, 2) review current low-trophic and multi-use harvesting and cultivation technologies and possible impacts of new technologies on site selection. In order to achieve the first objective, partners will assess current BlueBioEconomy sites in terms of environmental and socio-economic suitability, the regulatory regime under which they operate, as well as human activities and those foreseen in future, along with evaluating the suitability and cost-efficiency of monitoring activities and technologies already in use. This will apply multi-criteria analysis, involving a broad range of sustainability aspects to collate existing information on optimal farm sites, while defining best practices to facilitate the development of Baltic sea mussel farming, both as an environmental measure and as a commercial business through coastal water planning. Partners will disseminate results of these performance analyses to regional stakeholders (public, business, authorities, politicians, etc.) who will participate in network building and follow the project pilots (WP 2: Piloting and evaluating solutions) to achieve social, environmental and economic targets.
In order to achieve the second objective, partners will assess currently available harvesting and cultivation technologies, as well as future TRLs for practical applications of low-trophic and multi-use farming. They will identify and explore possible future applications of these technologies, while assessing potential for optimization and site-specific adaptation of technologies, combining traditional and new technologies to achieve higher cost-efficiency and better farm yields.

1,958 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 1.2

Title of the deliverable

A report on current performance and future developments of existing and planned BlueBioEconomy sites

100 / 100 characters

Description of the deliverable

The report will consist of two different subsections: 1) analyse settings and performance of the current and future bioeconomy sites, 2) review current BlueBioEconomy harvesting and cultivation technologies and possible impact of new technologies on site selection.
Key questions to be addressed are: comparing the current production potential of different species cultured at existing BlueBioEconomy sites and the use of different technologies; evaluating how local environmental factors define production yields and carrying capacities at BlueBioEconomy sites; assessing the efficiency of ongoing monitoring programmes at existing BlueBioEconomy sites to deliver information on various sustainability aspects and socio-economic impacts of low-trophic and multi-use farming e.g. use of quantitative ecosystem service indicators for low-trophic activities, demonstration of positive biodiversity impacts from low-trophic aquaculture; environmental impact assessments of commercial mussel farms to regions' (e.g. Västervik's, West-Estonia) strategic goal of achieving good water status according to the EU Water Framework Directive; exploration of environmental and socio-economic feasibility of different IMTA solutions with possibilities to optimise the environmental, economic and social conditions; identification of plausible risks associated with the production process and the quality of low-trophic aquaculture products.

1,429 / 2,000 characters

Which output does this deliverable contribute to?

O 1.3 A decision-support tool and data portal

45 / 100 characters

5.6.6 Timeline

	Period: 1	2	3	4	5	6
WP.1: Preparing solutions						
A.1.2: Existing and planned BlueBioEconomy sites						
D.1.2: A report on current performance and future developments of existing and planned BlueBioEconomy site						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 1 Group of activities 1.3

5.6.1 Group of activities leader

Group of activities leader PP 1 - University of Tartu

A 1.3

5.6.2 Title of the group of activities

Decision-support tool & data portal to identify & monitor optimal lowtrophic & multiuse BlueBioSites

100 / 100 characters

5.6.3 Description of the group of activities

Decision-support tool and data portal to identify and monitor optimal low-trophic and multi-use BlueBioEconomy sites .
The overall aims of this GoA are to 1) identify the policy, societal and economy needs to guide the BlueBioEconomy development, 2) designing a catalogue of the current information products related to BlueBioEconomy, 3) cross-check available data, data gaps and possible ways for their collection, 4) develop a joint decision-support tool and data portal for the selection and monitoring of optimal low-trophic and multi-use BlueBioEconomy sites.
In order to achieve the first objective, a diverse target group represented by associated partners of this project – ministries and agencies – as well as key stakeholders relevant to policy, societal and economy themes will be engaged to develop decision-support tools to identify optimal low-trophic and multi-use BlueBioEconomy sites (enabling a balanced representation of environmental, social, human and economic goals, exploiting existing infrastructure and innovation) in the Baltic Sea region.
In order to achieve the second objective, partners will catalogue the current information products related to maritime spatial planning and BlueBioEconomy with detailed guidelines on how to operationalize them.
In order to achieve the third objective, select relevant criteria and indicators that effectively evaluates the impacts of natural environment, multiple human activities, future scenarios and management options on the performance of BlueBioEconomy sites. Assess current data and information gaps based on the set of multiple indicators / parameters that define optimal BlueBioEconomy sites. Capitalize rules on how key physico-chemical factors and socio-economic background shape the sites' suitability for BlueBioEconomy. Assess available environmental and socio-economic data sets and their use within the adopted MSPs.
In order to achieve the fourth objective, develop a joint decision-support tool and data portal for the selection and monitoring of optimal low-trophic and multi-use BlueBioEconomy sites by integration and operationalization of existing algorithms and applications (e.g. ODSS; PlanWise4Blue as well as the related MSP Data Portals) and creating new functionalities of the tool to link more diverse datasets and knowledge than was previously possible (e.g. mapping and reusing infrastructure, circular value chains from emissions capture at sea to final blue biomass food products, environment-specific life-cycle inventory, the substance, material and energy input of farms, ecosystem service payment solutions including nutrient and carbon credits).

2,653 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☐

O 1.3

Title of the output

A decision-support tool and data portal to identify and monitor optimal BlueBioEconomy sites

93 / 100 characters

Description of the output

The web-based decision-support tool and data portal use novel knowledge-based algorithms which, benefiting from regional data platforms and farm monitoring, facilitate the integration of ecological, physical, biogeochemical and socio-economic information to support decisions related to BlueBioEconomy site selection, site monitoring and better consolidation of BlueBioEconomy sites into MSP. Ultimately, such an innovative decision support webtool will improve the knowledge base underpinning marine policies and provide concrete data and information products for the natural environment (e.g. expected restorative impacts of low trophic farming on habitats, biodiversity and ecosystem services), sustainability of farms (e.g. life cycle analyses adapted to location specific environmental parameters, productivities and cultivation designs), socio-economy (e.g. multi-criteria Sustainability Assessment at specific cultivation sites and associated value chains) and thereby accelerate BlueBioEconomy in the Baltic Sea region.

1,027 / 3,000 characters

Target groups and uptake of the solution presented in this output

Target groups	How will this target group apply the output in its daily work?
Target group 1 National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	The engagement includes the national stakeholders related to the Green Deal, the Mission Ocean, the Sustainable Blue Economy Strategy (SBEP), the new EU Biodiversity Strategy, major environmental policies (e.g., MSFD, BHD, WFD, CFP, MSP Directive) to ensure that their vision and expectations are embedded from the earliest stages of tool development. The participation of the HELCOM Secretariat as an associated partner will be vital to ensure communication with relevant HELCOM subsidiary bodies, member states and projects, as well as making sure the project work is taken into consideration when preparing implementation of the relevant 2021 BSAP actions. Aligning a diverse group of actors with different strategic roles in the process such as those responsible for policy advice and implementation, users of the information products (e.g. environmental managers, MSP practitioners, industry), and developers of the products (project team and other web tool development hubs).

984 / 1,000 characters

Target groups	How will this target group apply the output in its daily work?
Target group 2 Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	The engagement includes those local authority stakeholders related to the Green Deal, the Mission Ocean, the Sustainable Blue Economy Strategy (SBEP), the new EU Biodiversity Strategy, major environmental policies (e.g., MSFD, BHD, WFD, CFP, MSP Directive) to ensure that their vision and expectations are embedded from the earliest stages of tool development. Interconnection between the local actors and the other target groups (national, transnational, business, NGOs) will be important - as the realisation of these goals requires a good multi-level alignment of actions. The decision-support tool will be relevant for all levels; including especially also decision-makers at local level, who are often responsible for the licensing and concrete support actions to users of local sites and optimal land-sea interaction. 828 / 1,000 characters
Target group 3 International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant.	The engagement includes the transnational stakeholders related to the Green Deal, the Mission Ocean, the Sustainable Blue Economy Strategy (SBEP), the new EU Biodiversity Strategy, major environmental policies (e.g., MSFD, BHD, WFD, CFP, MSP Directive) to ensure that their vision and expectations are embedded from the earliest stages of tool development. The participation of the HELCOM Secretariat as an associated partner will be vital to ensure communication with relevant HELCOM subsidiary bodies, member states and projects, as well as making sure the project work is taken into consideration when preparing implementation of the relevant 2021 BSAP actions. PAC Bioeconomy will facilitate the dialogue with the relevant bodies (EU, national, but also local; i.e. FARNET) and ensure that the tool takes on board their needs as well as existing resources. Close cooperation will be ensured with the EU Mission Ocean Secretariat and the EU4Algae as to align with their monitoring requests. 998 / 1,000 characters
Target group 4 Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries.	The needs and concerns of SMEs as the ultimate beneficiaries of the decision-support tool are highly important to be considered from early stage of the tool development as to ensure its 'fit for purpose'. Hence SMEs will be interviewed and involved in workshops as to understand their site selection criteria; current knowledge and interests as well as their possible contributions in the medium/long-run to continuously enhance and maintain the tool. 452 / 1,000 characters
Target group 5 Interest group Blue economy and environmental interest groups, philantrophic foundations, associations and NGOs (e.g. WWF, John Nurminen Foundation, VELUX) primarily active in the Baltic Sea Region or with wider influence on an EU or international level.	The engagement includes those interest groups, who are involved and interested in the Mission 'ocean', the Green Deal, the SBEP, the new EU Biodiversity Strategy, major environmental policies (e.g., MSFD, BHD, WFD, CFP, MSP Directives) in order to ensure that their vision and expectations are embedded from the earliest stages of tool development. Target will not only be supporters of these policies, but also those - who are currently voicing concerns (i.e. fishermen, local inhabitants, i.e. summerhouse owners). Their views are important to be considered from early stage as to understand, what kind of information has to be embedded into the decision-support tool and how information should be presented in best way - as to take into account also local / NGO level concerns. 782 / 1,000 characters

Durability of the output

The developmental needs of the decision-support tool will be identified at the early stage of the project through the engagement of a diverse target group represented by associated partners (AP): ministries and agencies as well as key stakeholders relevant to policy, societal and economy themes to meet the specific local and regional BlueBioEconomy goals. The generated decision-support tool will form the basis for continuous updates after the implementation period of the BBS project. Discuss and agree with relevant data providers and users on the most appropriate governance system to operate such data portal. Here, the participation of HELCOM Secretariat as an AP will be vital to support the development of decision support tool and data portal as this ensures an efficient communication with relevant HELCOM subsidiary bodies and projects in which the Secretariat is involved as well as to align the portal development with the frame of the ongoing work flows in the HELCOM Secretariat.

996 / 1,000 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.1: Preparing solutions						
A.1.3: Decision-support tool & data portal to identify & monitor optimal lowtrophic & multiuse BlueBioSites						
O.1.3: A decision-support tool and data portal to identify and monitor optimal BlueBioEconomy sites						

5.6.7 This deliverable/output contains productive or infrastructure investment

WP 1 Group of activities 1.4

5.6.1 Group of activities leader

Group of activities leader PP 12 - Finnish Environment Institute

A 1.4

5.6.2 Title of the group of activities

Current and plausible future monitoring standards of low-trophic and multi-use farms

86 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) assess existing, currently applied monitoring methods, equipment, data validation, 2) give an overview new monitoring methods and technologies, 3) develop fit-for-the-purposes technology and monitoring design for BlueBioEconomy sites.
In order to achieve the first objective, review and synthesize currently applied methods and technologies to gain data and undertake monitoring for various BlueBioSites as well as other co-related purposes (e.g. shared interests in wind and low-trophic aquaculture farm monitoring). Assess the suitability of methods and technologies in view of spatial planning criteria as well as BlueBioSites objectives to contribute to climate change resilience and mitigation, combat eutrophication and maintain biodiversity. Evaluate the cost-effectiveness of methods and technologies, addressing commonalities and differences between countries.
In order to achieve the second objective, review new technologies with potential for use in monitoring methods and standards but are not yet widely practised (including non-Baltic countries), particularly in view of quantifying positive impacts of BlueBioEconomy sites along environmental and socioeconomic parameters. Critically review efficiency and applicability of existing environmental observation and monitoring technologies and further evaluate new approaches for collecting and assessing biological and ecosystem data. Analyse the potential of sensor-based (e.g. drones, satellites), multiplatform (e.g. autonomous vehicles) and holistic approaches (e.g. AI) in marine monitoring (e.g. building on the experience of the COST HARMONIUOS action). Seek ways to better integrate data from multiple sources, including eDNA, remote sensing, autonomous observations, automated analysers and/or samplers, surveys and citizen science.
To reach the third objective, develop a practical monitoring strategy for low-trophic and multi-use farms that integrates emerging technologies and modelling tools with traditional monitoring to unlock the critical knowledge contained in the Baltic Sea over the coming decades, and to realise the mutual benefits of marine observation for the sustainability of BlueBioEconomy sites. This will build on multiple regional and European initiatives (e.g. JERICO, NAUTILOS, FINMARI) and engage a diverse target group represented by associated partners of this project and other key stakeholders relevant to policy, societal and economy themes. Identify monitoring and data needs, data available from EU (CMEMS, EMODnet) and regional data hubs (e.g. HELCOM, national portals), monitoring at existing BlueBioSites farms, monitoring gaps, insufficient data, potential solutions to overcome these limitations when integrating traditional monitoring with emerging technologies and various modelling tools (e.g. spatial models, dynamic energy budget models)

2,893 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 1.4

Title of the deliverable

A report on the current and plausible future monitoring standards of low-trophic and multi-use farms

100 / 100 characters

Description of the deliverable

The report will consist of three different subsections: 1) an assessment of existing, currently applied monitoring methods, equipment and data validation, 2) give an overview of new monitoring methods and technologies, 3) outline a fit-for-purpose technology and monitoring design for BlueBioEconomy sites.

309 / 2,000 characters

Which output does this deliverable contribute to?

O 2.1 Operationalized decision-support tool and data portal; O 3.3. BlueBioSites Legacy

88 / 100 characters

5.6.6 Timeline

	Period: 1	2	3	4	5	6
WP.1: Preparing solutions						
A.1.4: Current and plausible future monitoring standards of low-trophic and multi-use farms						
D.1.4: A report on the current and plausible future monitoring standards of low-trophic and multi-use farms						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 1 Group of activities 1.5

5.6.1 Group of activities leader

Group of activities leader PP 1 - University of Tartu

A 1.5

5.6.2 Title of the group of activities

Tools to measure impacts of BlueBioEconomy sites

48 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) develop calculation algorithms to assess the risks of climate change on BlueBioEconomy, 2) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of climate change and 3) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of eutrophication and 4) assess and deliver economic impact of BlueBioEconomy.
Climate change is impacting the natural environment which in turn is changing the capacity of the BlueBioEconomy. In order to achieve the first objective, develop a toolset that assesses the performance of the BlueBioEconomy under different climate change scenarios. Develop algorithms to estimate possible climate-induced shifts in key parameters (i.e. increased temperatures, reduced salinity and more frequent storm events) and regional human pressures (such as eutrophication) in order to predict plausible consequences and risks on the BlueBioEconomy sectors in the Baltic Sea region. Analyses will be based on the most plausible climate change scenarios e.g. those published in IPCC and BACC.
BlueBioEconomy also provides solutions to mitigate the hazards of climate change. In order to achieve the second objective, develop a toolset that assesses the performance of the BlueBioEconomy under different climate change scenarios. Develop an algorithm to predict how much the BlueBioEconomy pilot sites can contribute to mitigate climate change effects through CO2 uptake.
BlueBioEconomy also provides solutions to mitigate the hazards of eutrophication. In order to achieve the third objective, develop algorithm to predict how much the BlueBioEconomy pilot sites can contribute to mitigate eutrophication and biodiversity loss i.e. through nutrient uptake.
In order to achieve the fourth objective, deliver business and policy decision support to be aligned with the specific local and regional BlueBioEconomy goals. Economy analyses aiming at quantifying the cost and benefits of innovative inclusive blue circular economy solutions. Map business actors involved in BlueBioEconomy sites from emissions capture at sea to blue biomass production. Develop circular business models tool to ensure economic viability for all actors of BlueBioSites along the value chains along with other positive impacts beyond financial profits (e.g. expected restorative impacts on natural ecosystem services). Assess the effects of natural and socioeconomic environments on the selection of aquaculture species, farm cultivation technologies, productivities and product development. Calculate an economy potential of farms to mitigate eutrophication and climate effects and suggest ecosystem service payment solutions (i.e. carbon credits etc.).

2,763 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☐

O 1.5

Title of the output

Tools to measure impacts of BlueBioEconomy sites

49 / 100 characters

Description of the output

The following tools are developed to be used in the decision-support tool and data portal: 1) develop calculation algorithms to assess the risks of climate change on BlueBioEconomy, 2) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of climate change and 3) develop calculation algorithms to assess the potential of BlueBioEconomy to mitigate the risks of eutrophication and 4) assess and deliver economic impact of BlueBioEconomy.

478 / 3,000 characters

Target groups and uptake of the solution presented in this output

Target groups	How will this target group apply the output in its daily work?
Target group 1 International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant.	International government organisations like the EU Mission Ocean Secretariat; HELCOM, VASAB, PAC Bioeconomy, PAC Nutri are all involved in assessing and monitoring the impact of relevant measures (incl. increase of low-trophic aquaculture and multi-use) in view of achieving the ambitious 2030 targets of their policies (i.e. SDGs, Green Deal, Mission Ocean; MSFD, BHD, WFD, MSP Directive, HELCOM BSAP, EUSBSR, MSP Roadmap). Hence the BlueBioSites tools (with the related main focal impact assessments on climate mitigation, euthrophication, economy) are highly important for their daily work and their respective decision-making processes. The participation of these bodies alreayd at early stage ensures that the tools are integrated into related processes / portals either already operating or being in development stage in parallel to the BlueBioSites project. 869 / 1,000 characters
Target group 2 National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	The national public authorities, forming part of the International government organisations like the EU Mission Ocean Secretariat; HELCOM, VASAB, PAC Bioeconomy, PAC Nutri are ultimately the data providers (and users) for any portals related to the assessment and monitoring of the impact of relevant (national) measures (incl. increase of low-trophic aquaculture and multi-use) in view of achieving the ambitious 2030 targets of their policies (i.e. SDGs, Green Deal, Mission Ocean; MSFD, BHD, WFD, MSP Directive, HELCOM BSAP, EUSBSR, MSP Roadmap). Hence the BlueBioSites tools (with the related main focal impact assessments on climate mitigation, euthrophication, economy) are highly important for their daily work and their respective decision-making processes. The participation of these national bodies already at early stage ensures that the tools take into account related processes/portals either already operating or being in development stage in parallel to the BlueBioSites project. 1,000 / 1,000 characters
Target group 3 Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	Together with national public authorities, local (regional) public authorities are in many EU Baltic Sea countries the bodies, who are ultimately responsible for licensing / support action processes - being also the bodies in charge of the implementation of their smart specialisation strategies; blue incubators, regional climate adaptation and/or related regional marketing strategies. At same time these authorities lack the capacities to develop such tools on their own. For international benchmarking it is also important to have similar type of calculations as to make data & information comparable - allowing for appropriate valorization of ecosystem servies and their integration into possible public support programmes. Hence local authorities are expected to make high use of the BlueBioSites tools as to support appropiate decision-making and taking also at local / regional scale and facilitate identification of sites at optimal places in the respective region and across the country. 999 / 1,000 characters
Target group 4 Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries.	Blue bioeconomy companies within the Baltic Sea region currently face the problem, that they are requested to undertake the respective environmental impact assessments required to gain a license; involving high development costs with insecure outcome often at their start-up business phase. They also have to provide proof to their clients/consumers that their products are sustainable, safe, healthy and hence worth a premium price as opposed to imported products. No SME has the resources to develop such comprehensive tools on their own, but rely on an upper level approved institutions applying scientific proven methods to provide such information. At same time - the SMEs - are also (once the site is operational) key to provide the relevant data to ensure the monitoring of the sites / products. Hence it is expected that both existing as well as emerging blue bioeconomy companies will not only make use of the tools in the preparation of their business, but also during their operations. 999 / 1,000 characters

Durability of the output

The developmental needs of the specific web tools will be identified at the early stage of the project through the engagement of a diverse target group represented by associated partners (AP) of this project: ministries and agencies as well as key stakeholders relevant to policy, societal and economy themes to meet the specific local and regional BlueBioEconomy goals. The generated tools will form the basis for continuous updates after the implementation period of the BBS project. Discuss and agree with relevant data providers and users on the most appropriate governance system to operate such a data portal. Here, the participation of the HELCOM Secretariat as an AP will be vital to support the development of decision support tool and data portal as this ensures an efficient communication with relevant HELCOM subsidiary bodies and projects in which the Secretariat is involved as well as to align the portal development with the frame of the ongoing work flows in the HELCOM Secretariat.

999 / 1,000 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.1: Preparing solutions						
A.1.5: Tools to measure impacts of BlueBioEconomy sites						
O.1.5: Tools to measure impacts of BlueBioEconomy sites						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

Work package 2

5.1 Piloting and evaluating solutions

5.2 Aim of the work package

The aim of this work package is to pilot, evaluate and adjust solutions. Plan one or several pilots to validate the usefulness of the solutions prepared in Work Package 1. Start Work Package 2 early enough to have time to pilot, evaluate and adjust solutions, together with your target groups. By the end of this work package implementation the solutions should be ready to be transferred to your target groups in Work Package 3.
The piloted and adjusted solution should be presented in one project output.
Organise your activities in up to five groups of activities. Describe the deliverables and outputs as well as present the timeline.

5.3 Work package leader

Work package leader 1 PP 11 - Leibniz Institute for Baltic Sea Research Warnemünde

Work package leader 2 Please select

5.4 Work package budget

Work package budget 40%

5.4.1 Number of pilots

Number of pilots 9

5.5 Target groups

	Target group	How do you plan to reach out to and engage the target group?
1	National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 336 / 500 characters	Through close collaboration with national public authorities by most BlueBioSites partners, these will receive project information directly from partners. Other partners will mobilise national public authorities in their respective networks by inviting them to project meetings and events. Target organisations will also be selected from the stakeholder mapping exercise complete at the start of the project. The project and its pilot activities will be announced before the start of the project via all communication channels, including those of individual partners. At the start of the project, key milestones will then be aligned with communication & dissemination tasks. Subsequently, progress and results of the pilots will be communicated to this target group, and invited to give feedback via email, surveys, social media, meetings and events. Target groups will be monitored and asked to confirm whether the solution will be adopted, promoted or further developed in their region. 990 / 1,000 characters

	Target group	How do you plan to reach out to and engage the target group?
2	Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 307 / 500 characters	With local public authorities as key members of the BlueBioSites partnership, they will receive project information directly from partners. Other partners will mobilise local public authorities in their respective networks by inviting them to project meetings and events. Target organisations will also be selected from the stakeholder mapping exercise complete at the start of the project. The project and its pilot activities will be announced before the start of the project via all communication channels, including those of individual partners. At the start of the project, key milestones will then be aligned with communication & dissemination tasks. Subsequently, progress and results of the pilots will be communicated to this target group, and invited to give feedback via email, surveys, social media, meetings and events. Target groups will be monitored and asked to confirm whether the solution will be adopted, promoted or further developed in their municipality. 978 / 1,000 characters
3	Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries. 204 / 500 characters	National SMEs will receive information directly from the partnership. Especially SUB through its various company / business involvement activities will mobilise SMEs in its respective networks by inviting them to project meetings and events. Target organisations will also be selected from the stakeholder mapping exercise complete at the start of the project. The project and its pilot activities will be announced before the start of the project via all communication channels, including those of individual partners. At the start of the project, key milestones will then be aligned with communication & dissemination tasks. Subsequently, progress and results of the pilots will be communicated to this target group, and invited to give feedback via email, surveys, social media, meetings and events. Target groups will be monitored and asked to confirm whether the pilot solution will be adopted, promoted or further developed in their region. 949 / 1,000 characters
4	International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant. 235 / 500 characters	International governmental organisations will receive information directly from the partnership. Other partners will mobilise IGOs in their respective networks by inviting them to project meetings and events. Target organisations will also be selected from the stakeholder mapping exercise complete at the start of the project. The project and its pilot activities will be announced before the start of the project via all communication channels, including those of individual partners. At the start of the project, key milestones will then be aligned with communication & dissemination tasks. Subsequently, progress and results of the pilots will be communicated to this target group, and invited to give feedback via email, surveys, social media, meetings and events. Target groups will be monitored and asked to confirm whether the pilot solution will be adopted, promoted or further developed in their region. 917 / 1,000 characters
5	Interest group Blue economy and environmental interest groups, philantrophic foundations, associations and NGOs (e.g. WWF, John Nurminen Foundation, VELUX) primarily active in the Baltic Sea Region or with wider influence on an EU or international level. 239 / 500 characters	Interest groups & NGOs will receive information directly from the partnership. Other partners will mobilise interest groups in their respective networks by inviting them to project meetings and events. Target organisations will also be selected from the stakeholder mapping exercise complete at the start of the project. The project and its pilot activities will be announced before the start of the project via all communication channels, including those of individual partners. At the start of the project, key milestones will then be aligned with communication & dissemination tasks. Subsequently, progress and results of the pilots will be communicated to this target group, and invited to give feedback via email, surveys, social media, meetings and events. Target groups will be monitored and asked to confirm whether the pilot solution will be adopted, promoted or further developed in their region. 909 / 1,000 characters

5.6 Activities, deliverables, outputs and timeline

No.	Name
2.1	**Operationalizing optimal BlueBioSites decision-support tool and data portal**
2.2	**Establish 'Communities of Practice' and Regional Blue Visions**
2.3	**Integrating BlueBioSites within multiple MSP frameworks**
2.4	**Test and validate Monitoring Standards and Technologies at Pilot Sites**

WP 2 Group of activities 2.1

5.6.1 Group of activities leader

Group of activities leader PP 1 - University of Tartu

A 2.1

5.6.2 Title of the group of activities

Operationalizing optimal BlueBioSites decision-support tool and data portal

76 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) validate and apply the developed BlueBioSites (BBS) decision-support tool and data portal to identify suitable and sustainable low-trophic and multi-use farming areas and to monitor a diverse set of the existing farms in pilot areas, taking into account the various multi-layer criteria and 2) assess impacts / performance of the BlueBioEconomy pilot sites under different eutrophication and climate change scenarios.BBS project has nine pilot areas, all covering important BlueBioEconomy gradients of the Baltic Sea with seven pilots representing specific regions and two covering broader spatial scales: Denmark, Bornholm; Germany, Mecklenburg-Vorpommern; Poland, Gdansk Bay; Sweden, Coastal waters in South and East Sweden; Latvia, the entire Latvian marine area; Latvia, Kurzeme Planning Region marine area; Estonia, the entire Estonian marine area; Estonia, West-Estonian sea area; Finland, Finnish Archipelago Sea.
Despite differing environmental backgrounds and socio-economic contexts, these pilots also share common challenges. The pilots bring together state-of-the-art practices of key sectors in existing low-trophic and multi-use aquaculture, with huge potential to develop new farms, demonstrate novel and sustainable solutions co-created by a diverse group of actors, thereby providing a solid basis to upscale the BlueBioEconomy in the Baltic Sea region. A key element of the operationalization of local and regional BlueBioEconomy goals is the BBS decision-support tool and data portal.
In order to achieve the first objective, assess the efficiency and applicability of developed BlueBioSites tools and data-portal to select and monitor optimal BlueBioEconomy sites in pilot areas and at the pan-Baltic scale to predict the potential of BlueBioEconomy in the entire Baltic Sea region. Identify suitable and sustainable macroalgal and mussel farming areas that fit into the complex system of interacting, overlapping socio-economic factors, and limitations at play, including environmental and socio-economic suitability, commercial and leisure use of the sea and risk factors.
In order to achieve the second objective, develop possible eutrophication and climate mitigation scenarios for given BBS pilot areas and engage with stakeholders to show plausible impacts of different climate change scenarios and associated risks, the practical consequences and the controls that should be put in place, the potential of current and future BlueBioEconomy activities to mitigate the adverse effects of eutrophication and climate change. When communicating risks and impacts to relevant actors, the Communities of Practice method (GoA 2.2) will be used as to create a learning environment in an open and non-political settings on the climate change related risk to blue bioeconomy developments and its prevention and mitigation management; while also offering comparisons between different countries represented by the project consortium.

2,989 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☐

O 2.1

Title of the output

Operationalized decision-support tool and data portal

55 / 100 characters

Description of the output

The web-based decision-support tool and data portal use novel knowledge-based algorithms which, benefiting from regional data platforms and farm monitoring, facilitate the integration of ecological, physical, biogeochemical and socio-economic information to support decisions related to BlueBioEconomy site selection, site monitoring and better consolidation of BlueBioEconomy sites into MSP. Operationalizing the tool enables focus on identification of policy, societal and economic needs to guide BlueBioEconomy development; methodological and technical developments to support data availability and accessibility; advances in mapping and modelling methods; improvements in assessment and valuation approaches; use of scenario and trade-off analysis i.e. including ecosystem service payment solutions (e.g. nutrient and carbon credits); assessing the potential of low-trophic aquaculture to compensate emissions of sea-based fish farms (backed by monitoring data); utilising emerging technologies and monitoring approaches; improvements in communication and engagement with stakeholders (e.g. enabling automatic data and knowledge delivery to the ongoing workflows in the HELCOM Secretariat); and integration of BlueBioEconomy into MSP.

1,241 / 3,000 characters

Target groups and uptake of the solution presented in this output

Target groups	How will this target group apply the output in its daily work?
Target group 1 International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant.	International government organisations like the EU Mission Ocean Secretariat; HELCOM, VASAB, PAC Bioeconomy, PAC Nutri are all involved in assessing and monitoring the impact of relevant measures (incl. increase of low-trophic aquaculture and multi-use) in view of achieving the ambitious 2030 targets of their policies (i.e. SDGs, Green Deal, Mission Ocean; MSFD, BHD, WFD, MSP Directive, HELCOM BSAP, EUSBSR, MSP Roadmap). Hence the BlueBioSites tools (with the related main focal impact assessments on climate mitigation, euthrophication, economy) are highly important for their daily work and their respective decision-making processes. The participation of these bodies alreayd at early stage ensures that the tools are integrated into related processes / portals either already operating or being in development stage in parallel to the BlueBioSites project. 869 / 1,000 characters
Target group 2 National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	The national public authorities, forming part of the International government organisations like the EU Mission Ocean Secretariat; HELCOM, VASAB, PAC Bioeconomy, PAC Nutri are ultimately the data providers (and users) for any portals related to the assessment and monitoring of the impact of relevant (national) measures (incl. increase of low-trophic aquaculture and multi-use) in view of achieving the ambitious 2030 targets of their policies (i.e. SDGs, Green Deal, Mission Ocean; MSFD, BHD, WFD, MSP Directive, HELCOM BSAP, EUSBSR, MSP Roadmap). Hence the BlueBioSites tools (with the related main focal impact assessments on climate mitigation, euthrophication, economy) are highly important for their daily work and their respective decision-making processes. The participation of these national bodies already at early stage ensures that the tools take into account related processes/portals either already operating or being in development stage in parallel to the BlueBioSites project. 1,000 / 1,000 characters
Target group 3 Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	Together with national public authorities, local (regional) public authorities are in many EU Baltic Sea countries the bodies, who are ultimately responsible for licensing / support action processes - being also the bodies in charge of the implementation of their smart specialisation strategies; blue incubators, regional climate adaptation and/or related regional marketing strategies. At same time these authorities lack the capacities to develop such tools on their own. For international benchmarking it is also important to have similar type of calculations as to make data & information comparable - allowing for appropriate valorization of ecosystem servies and their integration into possible public support programmes. Hence local authorities are expected to make high use of the BlueBioSites tools as to support appropiate decision-making and taking also at local / regional scale and facilitate identification of sites at optimal places in the respective region and across the country. 999 / 1,000 characters
Target group 4 Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries.	Blue bioeconomy companies within the Baltic Sea region currently face the problem, that they are requested to undertake the respective environmental impact assessments required to gain a license; involving high development costs with insecure outcome often at their start-up business phase. They also have to provide proof to their clients/consumers that their products are sustainable, safe, healthy and hence worth a premium price as opposed to imported products. No SME has the resources to develop such comprehensive tools on their own, but rely on an upper level approved institutions applying scientific proven methods to provide such information. At same time - the SMEs - are also (once the site is operational) key to provide the relevant data to ensure the monitoring of the sites / products. Hence it is expected that both existing as well as emerging blue bioeconomy companies will not only make use of the tools in the preparation of their business, but also during their operations. 999 / 1,000 characters

Durability of the output

The developmental needs of the decision-support tool will be identified at the early stage of the project through the engagement of a diverse target group represented by associated partners (AP) of this project – ministries & agencies – as well as key stakeholders relevant to policy, societal & economy themes to meet the specific local and regional BlueBioEconomy goals.The generated decision-support tool will form the basis for continuous updates after the implementation period of the BBS project. Discuss & agree with relevant data providers & users on the most appropriate governance system to operate such a data portal. Participation of the HELCOM Secretariat as an AP will be vital to support the development of decision support tool & data portal as this ensures an efficient communication with relevant HELCOM subsidiary bodies & projects in which the Secretariat is involved as well as to align the portal development with the frame of the ongoing work flows in the HELCOM Secretariat.

998 / 1,000 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.2: Piloting and evaluating solutions						
A.2.1: Operationalizing optimal BlueBioSites decision-support tool and data portal						
O.2.1: Operationalized decision-support tool and data portal						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 2 Group of activities 2.2

5.6.1 Group of activities leader

Group of activities leader PP 13 - Kurzeme Planning Region

A 2.2

5.6.2 Title of the group of activities

Establish ‘Communities of Practice’ and Regional Blue Visions

62 / 100 characters

5.6.3 Description of the group of activities

Identify suitable & interested regional (sub-national) BlueBioEconomy actors (blue biomass producers, processing & ancillary companies/users,NGOs,policy makers,educators) at pilot sites to form Communities of Practice (COPs). Due to a rich background knowledge, COPs integrate current views on low trophic & multi-use aquaculture in pilot areas with scenario-analyses delivered by data-rich decision support tools built on emerging technologies, harmonized data and novel algorithms. As such COPs ensure efficient engagement of all actors via robust and transparent communication, give sustainable recommendations to scale up Blue Bioeconomy in the Baltic Sea region (BSR), analyze technology, socio-economic, regulatory barriers & find ways to overcome them.
Key challenges framing the COPs center around the fragmented knowledge & limited approaches to low trophic & multi-use aquaculture solutions in the BSR. Among other issues, the aim is to tackle knowledge transfer among key actors, effective allocation of low trophic aquaculture & multi-use sites in MSP, the development of the Baltic Sea algal & mussel farming as environmental measure to cope with eutrophication hazards & restore habitats, while making a good business case, with ecosystem service payment solutions (i.e. nutrient and carbon credits etc.) combined with EMFAF options for financing, assessing the potential of low-trophic aquaculture to compensate emissions of sea-based fish farms, increasing interest from industry though unlocking the potential for algae & mussel farms, scaling-up mussel & macroalgal farming, increasing TRL of available novel farming & monitoring technologies, facilitating supervision of environmental impacts & quality checks at production sites. In doing so, activities will address the lack of standards for monitoring, limited experience with issuing licenses & permits for production & marketing, complexity of legislation and bad practice from actors.
Based on an agreed common methodology & related outputs, project partners organize inter-active co-creation workshops as part of COPs to show, identify & discuss opportunities along suitable bio-based value chains, the formation of the collaboration networks necessary to operationalize them, the development of skilled jobs and (small-scale) establishments in the bioeconomy & recommend how these elements can be integrated into regional development goals & plans. Project partners assist the COPs to co-create a joint and agreed vision for the blue bioeconomy development in given pilot regions that forms the basis for the identification of the actions necessary to achieve them. Engage a diverse target group represented by associated partners of this project – ministries& agencies – as well as key national & regional stakeholders relevant to policy, societal, economy & education themes, private companies, public bodies, NGOs & everyone interested in blue bioeconomy.
This GoA is directly connected to the GoA 2.1, 3.1 & 3.3.

2,997 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 2.2

Title of the deliverable

Report on Communities of Practice and their Visions

51 / 100 characters

Description of the deliverable

The report will describe the various stakeholders involved in the respective Communities of Practice in the giiven pilot regions; the 'Blue Visions' they have developed on how increased BlueBioSites can contribute to their regional development including socio-economic as well as environmental / climate goals - if relevant in conjunction with their smart specialization strategies. It will form the basis for D2.3 at individual regional pilot scale; but provide at same time a combined, comparative overview to all pilot regions as to stimulate cross-regional exchange both at policy as well as business cooperation level.

625 / 2,000 characters

Which output does this deliverable contribute to?

O 3.3 BlueBioSites Legacy

25 / 100 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.2: Piloting and evaluating solutions						
A.2.2: Establish 'Communities of Practice' and Regional Blue Visions						
D.2.2: Report on Communities of Practice and their Visions						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 2 Group of activities 2.3

5.6.1 Group of activities leader

Group of activities leader PP 3 - Latvian Institute of Aquatic Ecology, Agency of Daugavpils University

A 2.3

5.6.2 Title of the group of activities

Integrating BlueBioSites within multiple MSP frameworks

56 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) assess, analyse and pilot how optimal BlueBioSites can fit and be secured under the overall MSP framework, 2) assess and analyse ancillary regional development schemes as to foster BlueBioEconomy development within the given regions and 3) provide recommendations on Regional Action Plans with SMART Objectives, Monitoring and Evaluation Plan.
In order to achieve the first objective, the task will build on Baltic Sea wide analysis undertaken in WP1 and assess the existing regional / national MSP and evaluate possible fit / conditions to integrate BlueBioEconomy sites within these frameworks with regard to multi-sector considerations. Assess what level of governance is best suited to implement this. As no one-size-fits-all governance model exists, the task will take a holistic socio-ecological systems approach to governance and management that emphasizes the in-depth integration and co-production of knowledge with stakeholders. Assess to what degree different stakeholders perceive current and future effects of regulatory scenarios on BlueBioEconomy sites and find possible synergies of these regulations to integrate BlueBioEconomy sites within MSP frameworks. Develop a protocol to facilitate the supervision of environmental impact assessments, quality checks at production sites, support the application of permits for mussel production and marketing, water lease agreements, logistics, ecosystem service payments (mitigation eutrophication and climate effects) and other conditions to establish resource and time-efficient pathways for future BlueBioSites establishments.
In order to achieve the second objective, assess sub-regional / national support and education programmes, funding programmes on whether and how these cover the blue bioeconomy and evaluate the expressed needs on supply and demand regionally. Inform regional authorities and actors on what is needed to support BlueBioEconomy in addition to providing appropriate marine sites and facilitating their licensing procedures.
In order to achieve the third objective, the task will build on the jointly agreed BlueBioEconomy regional vision and the developed inventory on barriers / potentialities / solutions, COPs identify and agree on recommendations for Regional Blue Bioeconomy Development Plans and establish a short / medium action plan, which can be implemented by actors at local / regional (sub-national) levels (i.e. skills development programme). The action plan is substantiated by a jointly agreed concrete (Specific, Measurable, Achievable, Relevant TimeBound) short-, medium- and long-term targets for the environmental, economic, and social development of the region. These can be used by the COPs in the coming years to monitoring and evaluate the implementation and effectiveness of the measures / actions agreed during and beyond the implementation period of the BlueBioSites project.

2,931 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☑

D 2.3

Title of the deliverable

Report on integrating and securing BlueBioSites within multiple MSP frameworks

78 / 100 characters

Description of the deliverable

The report will consist of three different subsections: 1) assessment, analysis and piloting on how optimal BlueBioSites can fit and be secured under the overall MSP framework, 2) assessing and analysing ancillary regional development schemes as to foster BlueBioEconomy development within the given regions and 3) recommendations on Regional Action Plans with SMART Objectives, Monitoring and Evaluation Plan.

410 / 2,000 characters

Which output does this deliverable contribute to?

O 3.3. BlueBioSites Legacy

26 / 100 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.2: Piloting and evaluating solutions						
A.2.3: Integrating BlueBioSites within multiple MSP frameworks						
D.2.3: Report on integrating and securing BlueBioSites within multiple MSP frameworks						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 2 Group of activities 2.4

5.6.1 Group of activities leader

Group of activities leader PP 12 - Finnish Environment Institute

A 2.4

5.6.2 Title of the group of activities

Test and validate Monitoring Standards and Technologies at Pilot Sites

71 / 100 characters

5.6.3 Description of the group of activities

This task will develop and validate customised monitoring design and equipment at given pilots. Based on discussions with pilot site owners, operators and related public authorities, set up of monitoring test sites will integrate current monitoring standards with new cutting-edge marine observation methods and technologies, apply the fit-customised monitoring design in test sites and evaluate practical feasibility and cost-efficiency of the technologies / tools used. Explore potential of the web-based BlueBioSites decision-support tool to engage Citizen Science Applications. These monitoring technologies and tools are used to quantify the production potential of the different species cultured at the test sites, environmental carrying capacity to accommodate low trophic aquaculture farms (scale-up potential), site-specific potential of low trophic aquaculture to deliver ecosystem services (e.g. restorative effects on habitats and biodiversity) and environmental and economic risks associated to the production cycle. Engage a diverse target group represented by associated partners of this project – ministries and agencies – as well as key stakeholders relevant to policy, societal and economy themes to give advice and feedback on standards, criteria and monitoring of the sites as well as to establish new standards and routines for supervision of environmental impact (both positive and negative) and quality control.
This GoA is directly connected to the GoA 2.1. activities.

1,493 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☐

O 2.4

Title of the output

Recommendations for Monitoring Standards and Technologies for BlueBioSites in the Baltic Sea

92 / 100 characters

Description of the output

The output will synthesize the validation results at pilot sites, recommend the most effective and suitable monitoring design and equipment at BlueBioEconomy sites to generate much-needed accurate data, utilising emerging environmental monitoring technologies (e.g. drones, novel sensors, eDNA) and analyses algorithms (machine learning, AI). It will suggest ways to generate data for the identification of new BlueBioEconomy sites as well as to deliver monitoring strategies for low-trophic and multi-use aquaculture with measurable and verifiable goals and indicators (e.g. EU WFD and MSFD indicators) that consider the local environmental and socio-economic background. Recommendations will be based on the stakeholder interactions within the pilot sites (including actors from across the quadruple helix; i..e operators; authorities; scientists and NGOs); discussions with the advisory / reference groups (WP3) on a wider scale and selected, highly engaged stakeholders in particular (i.e. EMODnet sea-basin checkpoints; HELCOM secretariat; ISSS network of Monitoring Institutions; GTK/ICES as monitoring hubs for Mission Ocean). Recommendations will consider cost-effectiveness of monitoring (and the technologies to be used) as well as a 'new' perspective on monitoring including also validation/measurements of positive impacts on climate change and eutrophication.

1,375 / 3,000 characters

Target groups and uptake of the solution presented in this output

Target groups	How will this target group apply the output in its daily work?
Target group 1 National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	National public authorities in charge of collecting and reporting monitoring data and information; including the international level (i.e. SDGs, MFSD, MSP, Mission Ocean, etc.) are expected to use the output as a reference for pursuing their monitoring based on joint key performance indicators and measurement tools. Their involvement in the development of the output will safeguard that - to the extend possible - joint Baltic Sea wide standards will be applied as to increase cross-comparability as well as achieving economies of scale for the technology to be used. joint standards will also facilitate the long-term inter-operability of the operationalized decision-making support tool. 694 / 1,000 characters
Target group 2 Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries.	SMEs will be among the main beneficiaries and target groups as much of the monitoring data shall be generated from ongoing montoring to be pursued at site / farm level. Hence they will be integrated from the very beginning as to co-create best solutions, which are cost-effective - while also informative in view of the measurable impacts of the given sites. Since monitoring results will also be important to proof the ecosystem services by the given low-trophic aquaculture sites - and in view of economies of scale to be achieved from joint technology standards, it is expected that the development of a joint standard will receive large scale interest by the SMEs involved. 682 / 1,000 characters
Target group 3 International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant.	Whereas national authorities are in charge of the collection and transmisison of monitoring data; it is often at transnational scale that such data is collided to generate the 'big picture'. Especially organisation like HELCOM secretariat, EMODNet, ICES or the future Horizom Mission Ocean Implementation Agency are interested in joint data standards and indicators. Hence through close cooperation with these organisations; taking into account knowledge, technologies and standards available; the output will provide an important reference document for alignment across local, national and transnational levels. 612 / 1,000 characters

Durability of the output

The output is expected to be valid for a long term beyond the end of the projects' duration - as it provides for standards on which and how data from BlueBioSites should be collected. The governance framework to be developed in the framework of BlueBioSites (WP3) will ensure a process on how possible important technology (or knowledge) developments can be taken into account in the years to come.

398 / 1,000 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.2: Piloting and evaluating solutions						
A.2.4: Test and validate Monitoring Standards and Technologies at Pilot Sites						
O.2.4: Recommendations for Monitoring Standards and Technologies for BlueBioSites in the Baltic Sea						

5.6.7 This deliverable/output contains productive or infrastructure investment

Work package 3

5.1 Transferring solutions

5.2 Aim of the work package

In Work Package 3, communicate and transfer the ready solutions to your target groups. Plan at least one year for this work package to transfer your solutions to the target groups, considering their respective needs. Select suitable activities to encourage your target groups to use the solutions in their daily work.
Organise your activities in up to five groups of activities. Describe the deliverables and outputs as well as present the timeline.

5.3 Work package leader

Work package leader 1 PP 2 - SUBMARINER Network for Blue Growth EEIG

Work package leader 2 PP 12 - Finnish Environment Institute

5.4 Work package budget

Work package budget 15%

5.5 Target groups

	Target group	How do you plan to reach out to and engage the target group?
1	National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 336 / 500 characters	Whereas national public authorities will be involved from the very beginning into the project, in the final year of BlueBioSites, focus wil be to communicate and transfer solutions developed to them via email, meetings, social media, newsletters and dissemination events. Representatives of relevant authorities will be invited to BlueBioSites events (esp. Final Conference), but partners will also attend relevant external events organised by these target groups. For selected 'users' of the tools, BlueBioSites partners will offer specific capacity raising workshops to ensure proper use of the tools. BlueBioSites partners will also provide national authorities with a dissemination package (project information, results, 'how to use'; stakeholders and contact information) to be further disseminated via their own events, e.g. national planning meetings. National pubic authorities will then serve as multipliers and facilitators of BlueBioSites results. 961 / 1,000 characters
2	Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant. 307 / 500 characters	In the final year of the project, solutions will be communicated and transferred to local public authorities via email, meetings, social media, newsletters, dissemination and capacity raising events. These will present BlueBioSites solutions, accompanied by relevant target groups who are also interested in applying them in their region, as well as available funding mechanisms. BlueBioSites partners will also provide target groups with a dissemination package (project information, results, stakeholders and contact information) to be further disseminated via their own events, e.g. local planning meetings. Local pubic authorities will then serve as multipliers and adopters of BlueBioSites results. For selected 'users' of the tools, BlueBioSites partners will offer specific capacity raising workshops to ensure proper use of the tools. The objective is to facilitate industry uptake of results through policy integration, spin-off projects or large-scale implementation. 978 / 1,000 characters
3	Small and medium enterprise Existing and emergent blue economy practitioners (incl. aquaculture operators; users of blue biomass; offshore wind operators; ancillary service providers) in partner countries and neighbouring countries. 204 / 500 characters	In the final year of the project, solutions will be communicated and transferred to SMEs via email, meetings, social media, newsletters and dissemination (e.g. matchmaking or brokerage) events. In addition to own events (esp. Final conference); BlueBioSites will also attend relevant industry events and to that end seek optimal alignment with other projects (i.e. BlueBioCluster; Prep4Blue). Partners will present BlueBioSites solutions, regions interested in applying them, as well as available funding mechanisms. For those interested in the actual application / use of the tools and monitoring standards, specific capacity raising workshops will be offered as to ensure proper use and uptake (in addition to the handbook). The objective is to facilitate industry uptake of results. 789 / 1,000 characters
4	International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant. 235 / 500 characters	In the final year of the project, solutions will be communicated and transferred to International governmental organisations via email, meetings, social media, newsletters, dissemination and capacity raising events. Partners will present BlueBioSites solutions, releavnt target groups as well as available funding mechanisms. In addition to the Final conference, BlueBioSites partners also attend relevant events by these IGOs. BlueBioSites will provide a dissemination package (project information, results, stakeholders and contact information) to be further disseminated via their own events, e.g. conferences. International governmental organisations will then serve as multipliers and facilitators of BlueBioSites results. For selected 'users' of the tools, BlueBioSites partners will offer specific capacity raising workshops to ensure proper use of the tools 867 / 1,000 characters

	Target group	How do you plan to reach out to and engage the target group?
5	Interest group Blue economy and environmental interest groups, philantrophic foundations, associations and NGOs (e.g. WWF, John Nurminen Foundation, VELUX) primarily active in the Baltic Sea Region or with wider influence on an EU or international level. 239 / 500 characters	In the final year of the project, solutions will be communicated and transferred to interest groups via email, meetings, social media, newsletters and dissemination events. These will present BlueBioSites solutions, relevant target groups as well as available funding mechanisms. BlueBioSites partners will also provide these target groups with a dissemination package (project information, results, stakeholders and contact information) to be further disseminated via their own events, e.g. conferences. Interest groups will then serve as multipliers and facilitators of BlueBioSites results. For selected 'users' of the tools, BlueBioSites partners will offer specific capacity raising workshops to ensure proper use of the tools. 736 / 1,000 characters

5.6 Activities, deliverables, outputs and timeline

No.	Name
3.1	**Continuous linkage and cross-fertilization with other Baltic Sea Region Blue Economy processes**
3.2	**BlueBioSites Findings, Recommendations and Guidelines**
3.3	**Ensure take up and legacy of BlueBioSites solutions**

WP 3 Group of activities 3.1

5.6.1 Group of activities leader

Group of activities leader PP 2 - SUBMARINER Network for Blue Growth EEIG

A 3.1

5.6.2 Title of the group of activities

Continuous linkage and cross-fertilization with other Baltic Sea Region Blue Economy processes

94 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) establish, activate and facilitate a BlueBioSites Advisory / Reference Group, 2) to participate / reach out to meetings of their other coordination groups and 3) hence ensure optimal synergies and cross-fertilization with other ongoing projects and processes within the Baltic Sea region area and 4) apply a user- and target group centric approach especially to the large scale / long-term BlueBioSites tools and standards,

To that end a pan-Baltic BlueBioSites Advisory Group bringing together the relevant representatives from other related and relevant processes and strategies will be established. Regular (at least every six months) Advisory Group meetings will be organized to ensure a continuous flow of information and knowledge across the different initiatives and strategies and the respective progress / challenges encountered. Identify possible short-term improvements as well as medium term solutions to improve these processes. The GoA will identify which of these processes can be streamlined across all countries of the Baltic Sea region and which of them need to take into account sub-regional / national specificities. Results from WP1 and WP2 will be presented and discussed as to maximize impacts of the BlueBioSites project and its contribution to Climate, Biodiversity, Eutrophication and Local Economy Goals as well as related improvements of the BlueBioEconomy monitoring framework.

SUBMARINER will continuously monitor relevant coordination meetings of the above-mentioned transnational initiatives and working groups and coordinate with other relevant project partners in identifying additional other external opportunities to present and engage BlueBioSites (e.g. regional / sea-basin conferences, workshops, participation in panel discussions). Thus, in addition to BlueBioSites advisory board meetings, ensuring pro-active outreach to a diverse range of coordination groups to ensure wider outreach, input, validation, discussion and exploitation of BlueBioSites results.

Where possible, activities within BlueBioSites will be coordinated and linked with activities / events / processes of other projects and iniatives as to make optimal use of public funds and minimize the risk of stakeholder fatigue.

2,291 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 3.1

Title of the deliverable

Activated BlueBioSites Advisory / Reference Group

49 / 100 characters

Description of the deliverable

The activated pan-Baltic BlueBioSites Advisory / Reference Group is expected to consist of representatives of the Horizon Mission 'Oceans, Seas, Waters' Low Carbon Steering group (and its projects), HELCOM-VASAB MSP Working Group (incl. Data Group), Agri-Fisk/PAC Bioeconomy, PAC Nutri, PAC Innovation (Blue Smart Specialization), Sustainable Blue Economy Partnership, FARNET, EU4Algae, the European Aquaculture Member States Expert Group (and the EU Aquaculture Assistance Mechanism), SUBMARINER Algae, Mussel and Sustainable Aquaculture Working Groups, CPMR Baltic Sea Commission, ERRIN Blue Economy WG and EMODNet sea-basin checkpoints. The BlueBioSites Advisory Group ensures a continuous flow of information and knowledge across these different initiatives and strategies and operationalizes the results of the BlueBioSites project on BlueBioEconomy and low-trophic and multi-use aquaculture in the Baltic Sea region.

923 / 2,000 characters

Which output does this deliverable contribute to?

O 3.3. Legacy of BlueBioSites solutions

39 / 100 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.3: Transferring solutions						
A.3.1: Continuous linkage and cross-fertilization with other Baltic Sea Region Blue Economy processes						
D.3.1: Activated BlueBioSites Advisory / Reference Group						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 3 Group of activities 3.2

5.6.1 Group of activities leader

Group of activities leader PP 2 - SUBMARINER Network for Blue Growth EEIG

A 3.2

5.6.2 Title of the group of activities

BlueBioSites Findings, Recommendations and Guidelines

55 / 100 characters

5.6.3 Description of the group of activities

The overall aims of this GoA are to 1) provide recommendations on pan-Baltic future monitoring framework for BlueBioSites, 2) deliver pan Baltic scenarios on possible contributions of low-trophic aquaculture to climate change and eutrophication mitigation; 3) develop overarching BlueBioSites Findings and Recommendations and 4) deliver easy to understand user handbooks (with possible capaciity building trainings) for the BlueBioSite tools.
In order to achieve the first objective, the task will build on the recommendations developed under O2.4 and extend/enhance them to a suitable governance framework - ensuring their take up by the involved target groups.
In order to achieve the second objective, provide a critical cross-border synthesis in (i) the practical consequences and the controls of climate and related eutrophication hazard that should be put in place in BlueBioSites; (ii) efficiency and applicability of different low-trophic BlueBioEconomy (including multi-use) activities to mitigate the adverse effects of climate change and eutrophication; (iii) evaluate the up-scaling potential of mitigation measures from local to pan-Baltic scales. Recommend how best to adapt to climate change and provide realistic mitigation measures that can be implemented instantly. Based on these results the BlueBioSites Findings will provide for a comprehensive picture, on what could be the possible impact and consequences of establishing BlueBioSites in the Baltic Sea depending on 'business as usual', low, medium and high commitments to establishing BlueBioSites,
In order to achieve the third objective, extract the most relevant results from the overall BlueBioSites project and present them in an easy-to-read, concise set of guidelines and recommendations (pdf, as well as online tools) to be taken on board by the relevant target groups / stakeholders across the Baltic Sea Region. This will also include easy to understand 'maps', visuals and tables (i.e. based on the scenarios) as to illustrate possible consequences of 'business as usual', 'low', 'medium' or 'large scale' applications of BlueBioSites considering also various extrenal factors.
In addition to the overall findings and recommendations BlueBioSites will also ensure that possible users/contributors of the BlueBioSites tools are instructed on how to make use of them (handbook, online training, if requested - specific capacity buidling workshops).

2,469 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ✔

D 3.2

Title of the deliverable

Report on BlueBioSites findings, recommendations and guidelines (incl. visuals / policy briefs)

95 / 100 characters

Description of the deliverable

The report will consist of three different subsections (possibly to be shown in three distinct sections): 1) provide recommendations on pan-Baltic future monitoring framework for BlueBioSites, 2) deliver pan Baltic scenarios on possible contributions of low-trophic aquaculture to Climate Change Mitigation and 3) develop overarching BlueBioSites Findings and Recommendations. The report will also be made available in short extracts / policy briefs; which are mainly based on easy-to-understand visuals, maps and/or tables. Hence it will also be available as a summary PPT (or any other online communication tool). In addition, short 'user manuals' will be developed (including online training material) as to ensure uptake of the BlueBioSites tools by actual users.

768 / 2,000 characters

Which output does this deliverable contribute to?

O 3.3. Legacy of BlueBioSites solutions

39 / 100 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.3: Transferring solutions						
A.3.2: BlueBioSites Findings, Recommendations and Guidelines						
D.3.2: Report on BlueBioSites findings, recommendations and guidelines (incl. visuals / policy briefs)						

5.6.7 This deliverable/output contains productive or infrastructure investment ☐

WP 3 Group of activities 3.3

5.6.1 Group of activities leader

Group of activities leader PP 2 - SUBMARINER Network for Blue Growth EEIG

A 3.3

5.6.2 Title of the group of activities

Ensure take up and legacy of BlueBioSites solutions

52 / 100 characters

5.6.3 Description of the group of activities

Engage a diverse target group represented by associated partners of this project – ministries and agencies – as well as other additional key stakeholders relevant to policy, societal and economy themes to ensure future updates and maintenance of decision-support tool and monitoring strategy developed in the BlueBioSites project. SUBMARINER Network in its function as the 'blue' flagship of the EUSBSR PAC Bioeconomy and PAC Inno as well as coordinator of the Horizon Mission 'Ocean' Lighthouse Area in the North / Baltic Sea will make use of its wide reaching contacts and interlinkages with related EU wide, sea-basin and national institutions and their activities to ensure uptake of results and especially long-term commitment to the ongoing maintenance and updates of the BBS tools; application and acceptance of monitoring standards and indicators. This will mainly be achieved through the ongoing operations and dialogue operationalised under GoA 3.1. (advisory group) and the development of the BBS synthesis report showcasing the recommendations and findings (GoA3.2). If necessary and relevant; additional 1:1 interviews will be undertaken with relevant stakeholders as well as smaller discussion groups to present, discuss and enhance interim findings; assess what level of governance is best suited to ensure a future legacy of BlueBioSites project products and fine-tune specific possible commitments. The participation of the HELCOM Secretariat as an associated partner will be vital to support the development of decision support tool and monitoring as this ensures an efficient communication with relevant HELCOM subsidiary bodies and projects as well as to align the portal development, framed by the ongoing workflows in the HELCOM Secretariat. Also the direct involvement of PAC Bioeconomy will facilitate access to the relevant coordination groups of this PAC as well as other PACs (i.e. Nutri). National associated bodies (such as the Mecklenburg-Vorpommern, Estonian and Latvian Ministries as well as the Region of South-West Finland as the MSP coordination body for Finland) will ensure continuous cross-checks with the relevant regional and national obligations in view of the Mission Ocean, MSP and envrionmental monitoring supporting an uptake of realistic post-project processes. In order to achieve a public commitment to the BlueBioSites recommendations, findings and the related long-term governance framework, a BlueBioSites Final Conference will be organised approximately in M32-M34, in-person or in a hybrid format. It will foster the dissemination of the project results to all stakeholders (150+) and encourage endorsement and commitments to the active exploitation post-project. The Final Conference may be a ‘stand-alone’ event or may also be combined with other MSP or BlueBioEconomy relevant projects / events, such as the by now regular ‘Better of Blue’ or ‘MSP Forum’ events or possible events taking place under the Mission ‘Restore our Ocean by 2030’.

2,999 / 3,000 characters

5.6.4 This group of activities leads to the development of a deliverable ☐

O 3.3

Title of the output

Legacy of BlueBioSites solutions ensured

40 / 100 characters

Description of the output

Develop, agree and establish governance system to ensure future updates and maintenance of the BlueBioSites decision-support tool and monitoring strategy to be developed and agreed in conjunction with the pan-Baltic BlueBioSites Advisory / Reference Group (see GoA3.1.); based on BlueBioSites recommendations and findings (see GoA3.2)

334 / 3,000 characters

Target groups and uptake of the solution presented in this output

Target groups	How will this target group apply the output in its daily work?
Target group 1 National public authority Administrations and authorities responsible for maritime spatial planning as well as regulations/licensing processes for blue economy activities as well as environmental / climate mitigation activities and monitoring in the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	Whereas BlueBioSites is expected to already deliver practical results during the course of its project, especially at its given nine pilot sites - by integrating optimal sites into their MSPs, licensing decisions and national development / support programmes; the final output shall ensure that National Authorities understand, agree and are commited towards the further application of its results, findings and tools. This implies a 'give and take'. Whereas it is not expected that BlueBioSites tools, algorithms and solutions need substantial change in coming years; data flows have to be maintained and updated - taking continuously into account new monitoring data of (new) sites as well as possible other changing parameters. Based on these possible adaptations will also need to be considered. The governance framework shall ensure a continuous dialogue of such results both within the EU Baltic Sea countries as well as across them. 943 / 1,000 characters
Target group 2 Local public authority Administrations and authorities responsible for regional / local development plans, incl. use and good environmental status of the Baltic Sea, and respective licensing / support actions from the partner countries and neighbouring countries, as well as authorities from other European regions where relevant.	Whereas BlueBioSites is expected to deliver practical results during the course of the project, especially at the given pilot sites - by integrating optimal sites into their MSPs, licensing decisions and regional development / support programmes; the final output shall ensure that Regional Authorities understand, agree and are commited towards the further application of its results, findings and tools. This implies a 'give and take'. Whereas it is not expected that BlueBioSites tools, algorithms and solutions need substantial change in coming years; data flows have to be maintained and updated - taking continuously into account new monitoring data of (new) sites and possible other changing parameters. Based on these possible adaptations may also need to be considered. The governance framework shall ensure that regional/local considerations are taken into account in upper level decisions and - if relevant - that Communities of Practice will continue to the mostt appropriate level. 999 / 1,000 characters
Target group 3 International governmental organisation Blue economy policy makers at transnational and international level (e.g. HELCOM, VASAB, PAC Bioeconomy, PAC Nutri, Mission Ocean Secretariat), as well as transnational authorities from other European sea basins (OSPAR) where relevant.	BlueBioSites recommendation and findings will include an analysis of the activities of the various IGOs in view of the blue bioeconomy (i.e. Horizon Mission 'Oceans', HELCOM-VASAB MSP WG, Agri-Fisk/PAC Bioeconomy, Nutri & Innovation, Sustainable Blue Economy Partnership,FARNET, EU4Algae, the EU Aquaculture MS Expert Group, SUBMARINER Algae, Mussel & Sustainable Aquaculture WGs CPMR Baltic Sea Commission, ERRIN Blue Economy WG or the EMODNet sea-basin checkpoints. As a result of the ongoing analysis and discussions representatives of the organisation will be provided with a better picture on their respective responsibilities and roles; interrelated policies and strategies as well as decision-making / monitoring criteria. The output will raise the understanding and commitment of each IGO involved, on their specific contribution to the further uptake and maintenance of BlueBioSites results as well as coordination actions required across the various IGOs. 968 / 1,000 characters

Durability of the output

The long-term actions of the SUBMARINER Network assures the durability of the BlueBioSites solutions. SUBMARINER is highly involved in Horizon Mission Ocean and hence will ensure uptake of results by relevant national/regional bodies as well as the blue economy industry & start-ups; commited to the Horizon Mission Lighthouse Implementation Charter as well as being part of the SBEP Partnership. The participation of the HELCOM Secretariat as an associated partner will be vital to ensure an efficient communication with relevant HELCOM subsidiary bodies and projects (incl. HELCOM-VASAB MSP Working Group) as well as aligning BlueBioSites project development with the frame of the ongoing work flows in the HELCOM Secretariat during and beyond the implementation period of the project. In addition the active particiation of PAC Bioeconomy as associate partner ensures that project implementation and results are thoroughly integrated into the EUSBSR Action Plan and future updates.

989 / 1,000 characters

5.6.6 Timeline

Period:	1	2	3	4	5	6
WP.3: Transferring solutions						
A.3.3: Ensure take up and legacy of BlueBioSites solutions						
O.3.3: Legacy of BlueBioSites solutions ensured						

5.6.7 This deliverable/output contains productive or infrastructure investment

6. Indicators

Indicators

Output indicators				Result indicators		
Output indicators	**Total target value in number**	**Project outputs**	**Please explain how the solution presented in this output serves the target group(s).**	**Result indicator**	**Total target value in number**	**Please explain how organisations in the target groups within or outside the partnership will take up or upscale each solution.**
RCO 84 – Pilot actions developed jointly and implemented in projects	9	N/A	N/A			

Output indicators	Total target value in number	Project outputs	Please explain how the solution presented in this output serves the target group(s).	Result indicator	Total target value in number	Please explain how organisations in the target groups within or outside the partnership will take up or upscale each solution.
		O.1.3: A decision-support tool and data portal to identify and monitor optimal BlueBioEconomy sites	The tool will facilitate the identification of optimal sites for low-trophic aquaculture outside or within offshore installations to be applied and optimized within BlueBioSites nine pilot applications. It will serve as the key tool to assess possible sites from a multi-dimensional perspective; i.e. environmental impacts; socio-economic dimensions; production yields; effects to tackle climate change and eutrophication. In addition it will test, which parameters and with what technology data can be generated as to gain the necessary information to take decisions; both in view of establishing as well as monitoring of sites - applying state of the art technology as well as adding a new 'positive' dimension to monitoring in view of measuring positive effects on climate & eutrophication. The tool is designed to be used by national, local authorities, scientists and businesses alike. 893 / 1,000 characters	**RCR 104 - Solutions taken up or up-scaled by organisations**	5	The engagement includes representatives of the Horizon Mission 'Oceans, Seas, Waters' Low Carbon Steering group (and its projects), HELCOM-VASAB MSP Working Group (incl. Data Group), Agri-Fisk/PAC Bioeconomy, PAC Nutri, PAC Innovation (Blue Smart Specialization), Sustainable Blue Economy Partnership, FARNET, EU4Algae, the European Aquaculture Member States Expert Group (and the EU Aquaculture Assistance Mechanism), SUBMARINER Algae, Mussel and Sustainable Aquaculture Working Groups, CPMR Baltic Sea Commission, ERRIN Blue Economy WG and similar, EMODNet sea-basin checkpoints as well as EU wide steering group. Here, the participation of the HELCOM Secretariat as an associated partner will be vital to ensure communication with relevant HELCOM subsidiary bodies and projects in which the Secretariat is involved, as well as making sure the project work is taken into consideration when preparing implementation of the relevant 2021 BSAP actions. Moreover SUBMARINER -not only in its role as 'blue' flagship under PAC Inno and PAC Bioeconomy - but also coordinator of the horizon Mission Ocean Baltic / North Sea Lighthouse Area - will ensure exploitation of the decision-making; impact tools and monitoring standards by all actors (including smart specialisation regions) involved in the implementation of the Mission Ocean Lighthouse Implementation Charter. Aligning a diverse group of actors with different strategic roles in the process such as those responsible for policy advice and implementation, users of the information products (e.g. environmental managers, MSP practitioners, industry), and developers of the products (project team and other web tool development hubs) will ensure uptake of the BlueBioSites results and transfer throughout the entire Baltic Sea region. 1,787 / 2,000 characters

Output indicators	Total target value in number	Project outputs	Please explain how the solution presented in this output serves the target group(s).	Result indicator	Total target value in number	Please explain how organisations in the target groups within or outside the partnership will take up or upscale each solution.
		O.1.5: Tools to measure impacts of BlueBioEconomy sites	The four combined tools focusing on calculating the impact of low-trophic aquaculture in view of impacts on eutrophication; climate mitigation; future climate effects and economic development - are expected to be used by authorities and agencies across all levels alike (and related scientists); who are responsible for promoting the shift to a carbon-neutral, environmental-friendly, resilient blue economy in the Baltic Sea; while ensuring its natural capital and improving its biodiversity. The tool(s) will be hgihly important as to understand the optimal siting as well as overall balance of sea-based measures in relation to land-based measures and operations. 667 / 1,000 characters			

Output indicators	Total target value in number	Project outputs	Please explain how the solution presented in this output serves the target group(s).
RCO 116 – Jointly developed solutions	5	O.2.1: Operationalized decision-support tool and data portal	The operationalized tool and data portal - based on results from the pilot sites - will facilitate the identification of optimal sites for low-trophic aquaculture outside or within offshore installations. It will offer an important solution to drive the production of sustainable blue biomass to be used in marine-based products in the Baltic Sea Region and be the key tool to identify sites to apply seabased measures to mitigate the effects of climate change and reduce eutrophication. In addition to identification it will also ensure region-wide monitoring of how these sites function and thus will serve as an important tool to validate assumptions made in - what are so far often - theoretical models. It is therefore also an important tool to ensure adaptation of decisions based on the continuous collection of new data & knowledge to be developed during and beyond the projects' duration. The tool is designed to be used by national, local authorities, scientists and businesses alike. 997 / 1,000 characters

Output indicators		Result indicators			
Output indicator	**Total target value in number**	**Result indicator**	**Total target value in number**	**Please describe what types of organisations are planned to actively participate in the project. Explain how this participation will increase their institutional capacity. These types of organisations should be in line with the target groups you have defined for your project.**	
RCO 87 - Organisations cooperating across borders	24	**PSR 1 - Organisations with increased institutional capacity due to their participation in cooperation activities across borders**	90	Project partners and associated organisations	BBS will be implemented by a) regional authorities from all EU Baltic Sea Region countries in charge of MSP, environmental concerns, busines development and related smart specialisation strategies in their area. These will be supported by b) research institutes, who provide the necessary knowledge, data and tools, c) blue bioeconomy actors, who are already actively engaged in commercial activities at specific pilot sites – thus especially important for actual piloting of solutions and d) SUBMARINER network, the transnational hub for actors engaged in the Baltic blue bioeconomy; a flagship under the EUSBSR PAC Bioeconomy, and Mission 'Ocean' Lighthouse coordinator for the North/Baltic Sea area. The project is accompanied by numerous national ministries and pan-Baltic organizations, like HELCOM and PAC Bioeconomy; ensuring that solutions and results are integrated into Baltic Sea Region strategies and commitments (i.e. BSAP21, MSP Roadmap). Hence the BBS partnership encompasses all relevant target groups across the quadruple helix: a) authorities and relevant licensing bodies at all levels; b) applied research to provide and enhance the knowledge necessary to identify optimal sites; c) Relevant stakeholders at pilot site level, to apply, pilot and assess BlueBioSites solutions; d) Pan-Baltic organizations to ensure integration of BlueBioSites activities and results into political processes and the long-term, post-project sustainability and transfer of results. 1,486 / 1,500 characters
				Other organisations	In case BBS will get funded, it will be closely aligned with parallel ongoing activities such as the Mission 'Ocean' Lighthouse coordination and demonstrators; EU4Algae, SUBMARINER, EUSBSR and HELCOM (including HELCOM-VASAB MSP) working groups; the eMSP, MSP4Bio and BlueBioCluster projects; the Sustainable Blue Ecoonomy Partnership, the EU Aquaculture Assistance Mechanism, the S3 BluePlatform as well as related national activities, such as the Swedish 'Blue Food' and German BAMS cluster. Hence it is expected that its outreach will go well beyond the immediate BBS partnership involving regional / national authorities as well as businesses. This will be the case for pilot site activities under WP2; where each of the Communities of Practices will include several stakeholders; as well as the multi-level, multi-actor reference group to be established under WP3. Throughout the entire project, all project partners will seek to establish close cooperation with other ongoing initiatives as to create the critical mass of action; minimize duplication of efforts and optimize the development as well as uptake of its results. 1,131 / 1,500 characters

7. Budget

7.0 Preparation costs

Preparation Costs

Would you like to apply for reimbursement of the preparation costs?	No

7.1 Breakdown of planned project expenditure per cost category & per partner

No. & role	Partner name	Partner status	CAT1 - Staff	CAT2 - Office & administration	CAT3 - Travel & accommodation
1 - LP	University of Tartu	Active 22/09/2022	300,672.00	45,100.80	45,100.80
2 - PP	SUBMARINER Network for Blue Growth EEIG	Active 22/09/2022	297,216.00	44,582.40	44,582.40
3 - PP	Latvian Institute of Aquatic Ecology, Agency of Daugavpils University	Active 22/09/2022	124,416.00	18,662.40	18,662.40
4 - PP	University of Southern Denmark	Active 22/09/2022	172,800.00	25,920.00	25,920.00
5 - PP	BLUE BORNHOLM	Active 22/09/2022	172,800.00	25,920.00	25,920.00
6 - PP	Gdynia Maritime University	Active 22/09/2022	166,896.00	25,034.40	25,034.40
7 - PP	Association of Klaipeda Region Municipalities	Active 22/09/2022	34,848.00	5,227.20	5,227.20
8 - PP	Klaipeda University	Active 22/09/2022	118,800.00	17,820.00	17,820.00
9 - PP	Västervik Municipality	Active 22/09/2022	59,616.00	8,942.40	8,942.40
10 - PP	Ecopelag Economic Association	Active 22/09/2022	158,976.00	23,846.40	23,846.40
11 - PP	Leibniz Institute for Baltic Sea Research Warnemünde	Active 22/09/2022	248,832.00	37,324.80	37,324.80
12 - PP	Finnish Environment Institute	Active 22/09/2022	186,624.00	27,993.60	27,993.60
13 - PP	Kurzeme Planning Region	Active 22/09/2022	76,032.00	11,404.80	11,404.80
Total			2,118,528.00	317,779.20	317,779.20

No. & role	Partner name	CAT4 - External expertise & services	CAT5 - Equipment	Total partner budget
1 - LP	University of Tartu	25,000.00	35,000.00	450,873.60
2 - PP	SUBMARINER Network for Blue Growth EEIG	80,000.00	0.00	466,380.80
3 - PP	Latvian Institute of Aquatic Ecology, Agency of Da	6,000.00	10,000.00	177,740.80
4 - PP	University of Southern Denmark	20,000.00	45,000.00	289,640.00
5 - PP	BLUE BORNHOLM	0.00	9,000.00	233,640.00
6 - PP	Gdynia Maritime University	22,000.00	2,000.00	240,964.80
7 - PP	Association of Klaipeda Region Municipalities	847.60	0.00	46,150.00
8 - PP	Klaipeda University	4,900.00	5,440.80	164,780.80
9 - PP	Västervik Municipality	7,999.20	0.00	85,500.00
10 - PP	Ecopelag Economic Association	43,001.20	60,000.00	309,670.00
11 - PP	Leibniz Institute for Baltic Sea Research Warnemü	0.00	0.00	323,481.60
12 - PP	Finnish Environment Institute	0.00	30,000.00	272,611.20
13 - PP	Kurzeme Planning Region	20,000.00	0.00	118,841.60
Total		229,748.00	196,440.80	3,180,275.20

7.1.1 External expertise and services

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value
1. University of Tart	Events/meetings	CAT4-PP1-A-0	Room rent, catering, external experts. Simplified tender 57 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	20,000.00
1. University of Tart	Specialist support	CAT4-PP1-E-0	Experts' fee for the Communities of Practice and Blue Visions workshops 72 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	5,000.00
2. SUBMARINER N	Specialist support	CAT4-PP2-E-0	WebDesigner, Graphic Designer, Print 37 / 100 characters	No	3.1	20,000.00
2. SUBMARINER N	Specialist support	CAT4-PP2-E-0	Travel, etc 12 / 100 characters	No	3.1	20,000.00
2. SUBMARINER N	Specialist support	CAT4-PP2-E-0	Catering, Room Rent, Fotographer/ Video 40 / 100 characters	No	3.1	20,000.00
2. SUBMARINER N	Events/meetings	CAT4-PP2-A-0	Graphic Design, Print 22 / 100 characters	No	3.2	10,000.00
2. SUBMARINER N	National control	CAT4-PP2-F-0	WP0 3 / 100 characters	No	N/A	10,000.00
3. Latvian Institute	Specialist support	CAT4-PP3-E-0	Rent of anchoring system, deployment of it on the site. Bid-at-three procedure. 80 / 100 characters	No	1.3	6,000.00
4. University of Sou	Events/meetings	CAT4-PP4-A-0	venue rent, catering costs, expenses for experts/WP2 52 / 100 characters	No	2.2	20,000.00
	Total					229,748.00

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
6. Gdynia Maritime	Events/meetings	CAT4-PP6-A-1	meeting room, catering, equipment, reporting, ect. 50 / 100 characters	No	2.2	3,000.00	
6. Gdynia Maritime	Specialist support	CAT4-PP6-E-1	data gathering, review of existing models, tools, ect. 55 / 100 characters	No	1.3 1.4	5,000.00	
6. Gdynia Maritime	Specialist support	CAT4-PP6-E-1	Community of Practice building and facilitating (experts' fee, requested reports, ect) 88 / 100 characters	No	2.2	14,000.00	
7. Association of Kl	National control	CAT4-PP7-F-1	Audit of expenditure 20 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3 N/A	847.60	
8. Klaipeda Universi	National control	CAT4-PP8-F-1	FLC 3 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	2,000.00	
8. Klaipeda Universi	Events/meetings	CAT4-PP8-A-1	Meeting organization, room rent, catering 41 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	2,900.00	
	Total					229,748.00	

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
9. Västervik Munici	Other	CAT4-PP9-G-1	Analyse and assessment of environmental impact from mussel farming at pilot sites 81 / 100 characters	No	2.2	7,999.20	
10. Ecopelag Econ	Other	CAT4-PP10-G-	Dvlopment of digital slutins for remotely transferring envir /physical data from farmsite/Smpl tnder 100 / 100 characters	No	2.1 2.2 2.3 2.4	30,000.00	
10. Ecopelag Econ	Other	CAT4-PP10-G-	Manual sampling for montoring of mussels growth and environmental impact 72 / 100 characters	No	2.1 2.2 2.3 2.4	7,001.20	
10. Ecopelag Econ	Other	CAT4-PP10-G-	Laboratory analyses, environmental toxins and algae toxins in mussels 70 / 100 characters	No	2.1 2.2 2.3 2.4	6,000.00	
13. Kurzeme Planni	Events/meetings	CAT4-PP13-A-	Rent of premises, catering, interpretation, moderators fees. Bid-at-three 74 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4	3,000.00	
13. Kurzeme Planni	Communication	CAT4-PP13-C-	Translation, editing, layout 29 / 100 characters	No	2.1 2.2 2.3 2.4 3.1 3.2 3.3	1,500.00	
13. Kurzeme Planni	National control	CAT4-PP13-F-	External expertise for development of blue vision and strategy for the region 78 / 100 characters	No	2.1 2.2 2.3 2.4	15,500.00	
	Total					229,748.00	

7.1.2 Equipment

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
1. University of Tart	Machines and instru	CAT5-PP1-E-0	Underwater light sensors (2). Simplified tender. 50 / 100 characters	No	2.4	12,000.00	
3. Latvian Institute	Machines and instru	CAT5-PP3-E-0	Experimental algae cultivation set - net or line type, with marking buoys. Simplified tender. 94 / 100 characters	No	1.3	10,000.00	
4. University of Sou	Machines and instru	CAT5-PP4-E-0	lab on a chip to analyse environmenatl impact online 54 / 100 characters	No	1.1 1.2 1.3 1.4 1.5	15,000.00	
4. University of Sou	Machines and instru	CAT5-PP4-E-0	Underwater Eddy-cavariace lander to assess net community meatbolism 69 / 100 characters	No	1.1 1.2 1.3 1.4 1.5	15,000.00	
4. University of Sou	Machines and instru	CAT5-PP4-E-0	eDNA to assess impact on biodiversity 38 / 100 characters	No	1.1 1.2 1.3 1.4 1.5	15,000.00	
5. BLUE BORNHOL	Other specific equip	CAT5-PP5-H-0	Monitoring chlorophyll levels & cyanobacteria around pilot sites/DJI Phantom 4 Multispectral drone 99 / 100 characters	No	2.1 2.2 2.3 2.4	6,500.00	
	Total					196,440.80	

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
5. BLUE BORNHOL	IT hardware and soft	CAT5-PP5-B-0	laptop 6 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	2,500.00	
6. Gdynia Maritime	IT hardware and soft	CAT5-PP6-B-0	laptop 6 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	2,000.00	
10. Ecopelag Econ	Machines and instru	CAT5-PP10-E-	Remote video surveillance system of farm site (2). Simplified tender 70 / 100 characters	No	2.1 2.2 2.3 2.4	30,000.00	
10. Ecopelag Econ	Machines and instru	CAT5-PP10-E-	Remote underwater surveillance equipment (2). Simplified tender 64 / 100 characters	No	2.1 2.2 2.3 2.4	30,000.00	
12. Finnish Environ	Machines and instru	CAT5-PP12-E-	Lightsensor,chlorophyll/turbidity meters,currentmeter,thermo-and salinty meter, dataloggers.Smpl tnd 100 / 100 characters	No	2.3	30,000.00	
8. Klaipeda Universi	IT hardware and soft	CAT5-PP8-B-1	Server for big-data 19 / 100 characters	No	1.3 1.4	3,440.80	
	Total					196,440.80	

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
8. Klaipeda Universi	IT hardware and soft	CAT5-PP8-B-1	laptop 6 / 100 characters	No	1.1 1.2 1.3 1.4 1.5 2.1 2.2 2.3 2.4 3.1 3.2 3.3	2,000.00	
1. University of Tart	Machines and instru	CAT5-PP1-E-1	Underwater chlorophyll/turbidity meters (2). Simplified tender. 64 / 100 characters	No	2.4	12,000.00	
1. University of Tart	Machines and instru	CAT5-PP1-E-1	Underwater current meters (2). Simplified tender. 49 / 100 characters	No	2.4	11,000.00	
	Total					196,440.80	

7.1.3 Infrastructure and works

Contracting partner	Group of expenditure	Item no.	Specification	Investment item?	Group of activities no.	Planned contract value	
Please select	Please select	CAT6-PP--01	 0 / 100 characters	Please select		0.00	
	Total					0.00	

7.2 Planned project budget per funding source & per partner

No. & role	Partner name	Partner status	Country	Funding source	Co-financing rate [in %]	Total [in EUR]	Programme co-financing [in EUR]	Own contribution [in EUR]	State aid instrument
1-LP	University of Tartu	Active 22/09/2022	EE	ERDF	80.00 %	450,873.60	360,698.88	90,174.72	For each partner, the State aid relevance and applied aid measure are defined in the **State aid section**
2-PP	SUBMARINER Network for Blue Growth EEIG	Active 22/09/2022	DE	ERDF	80.00 %	466,380.80	373,104.64	93,276.16	
3-PP	Latvian Institute of Aquatic Ecology, Agency of Daugavpils University	Active 22/09/2022	LV	ERDF	80.00 %	177,740.80	142,192.64	35,548.16	
4-PP	University of Southern Denmark	Active 22/09/2022	DK	ERDF	80.00 %	289,640.00	231,712.00	57,928.00	
5-PP	BLUE BORNHOLM	Active 22/09/2022	DK	ERDF	80.00 %	233,640.00	186,912.00	46,728.00	
6-PP	Gdynia Maritime University	Active 22/09/2022	PL	ERDF	80.00 %	240,964.80	192,771.84	48,192.96	
7-PP	Association of Klaipeda Region Municipalities	Active 22/09/2022	LT	ERDF	80.00 %	46,150.00	36,920.00	9,230.00	
8-PP	Klaipeda University	Active 22/09/2022	LT	ERDF	80.00 %	164,780.80	131,824.64	32,956.16	
9-PP	Västervik Municipality	Active 22/09/2022	SE	ERDF	80.00 %	85,500.00	68,400.00	17,100.00	
10-PP	Ecopelag Economic Association	Active 22/09/2022	SE	ERDF	80.00 %	309,670.00	247,736.00	61,934.00	
11-PP	Leibniz Institute for Baltic Sea Research Warnemünde	Active 22/09/2022	DE	ERDF	80.00 %	323,481.60	258,785.28	64,696.32	
12-PP	Finnish Environment Institute	Active 22/09/2022	FI	ERDF	80.00 %	272,611.20	218,088.96	54,522.24	
13-PP	Kurzeme Planning Region	Active 22/09/2022	LV	ERDF	80.00 %	118,841.60	95,073.28	23,768.32	
Total ERDF						3,180,275.20	2,544,220.16	636,055.04	
Total						3,180,275.20	2,544,220.16	636,055.04	

7.3 Spending plan per reporting period

	EU partners (ERDF)		Total	
	Total	Programme co-financing	Total	Programme co-financing
Period 1	225,000.00	180,000.00	225,000.00	180,000.00
Period 2	480,000.00	384,000.00	480,000.00	384,000.00
Period 3	480,000.00	384,000.00	480,000.00	384,000.00
Period 4	635,000.00	508,000.00	635,000.00	508,000.00
Period 5	635,000.00	508,000.00	635,000.00	508,000.00
Period 6	725,275.20	580,220.16	725,275.20	580,220.16
Total	3,180,275.20	2,544,220.16	3,180,275.20	2,544,220.16