



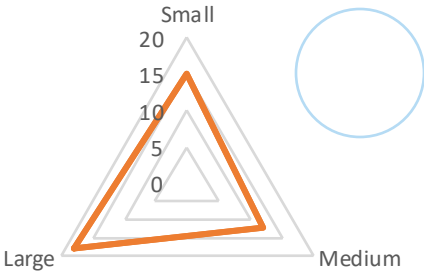
The SUBMARINER Network:

A facilitator for sustainable & innovative
blue growth cooperation

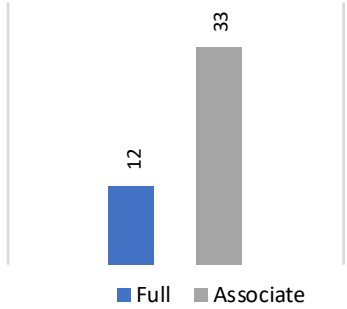


Angela Schultz-Zehden
Managing Director

SUBMARINER Network members



Members by country



Innovation, Bioeconomy,
Spatial Planning, Nutri, Tourism,
Culture, Energy, Ship



Our ambitions



Become climate-neutral by 2050



Protect human life, animals and plants, by cutting pollution



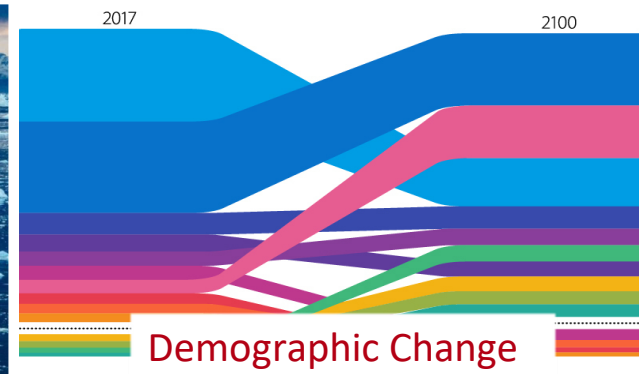
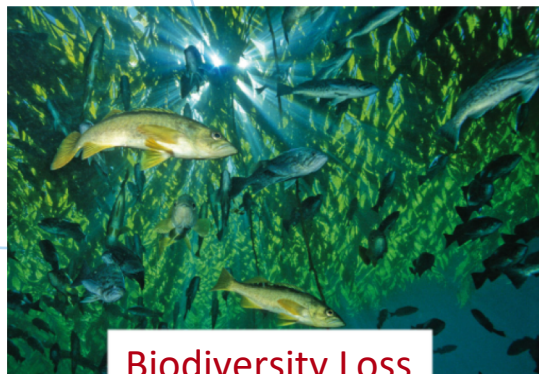
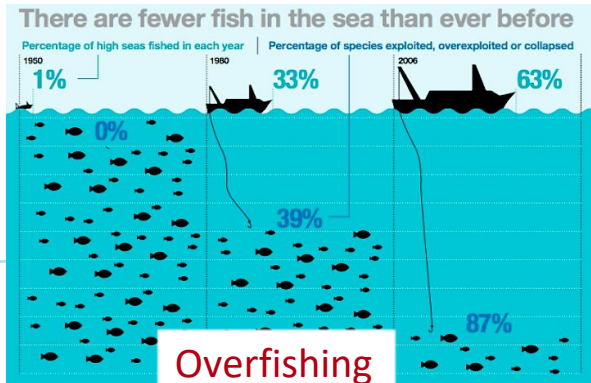
Help companies become world leaders in clean products and technologies



Help ensure a just and inclusive transition



EU Green Deal



SUBMARINER topics

Macroalgae
harvesting,
cultivation &
processing



Mussel
Cultivation &
Processing



Reed
Beach Cast
Macro-
Halophytes



Cultural
Heritage /
EcoTourism



Blue Bio-
technology
Microalgae



Marine
Litter



Side Streams
New Species
Aquaculture



Smart
Combinations



Strategic Action Fields

Actors &
Match-Making



Digitalisation
Data & Tools



Sub-regional
solutions



Access to
Pilot sites &
Large scale
Demonstrations



Training &
Capacity Raising



Technology
Development
& Transfer



Finance
& Funding



Regulation
& Licensing



Awareness
& Marketing



Multi-Actor and Sector Approach

Companies, Research, Authorities, Civil Society
Natural and Social Science, Informatics, Creative Arts, Economics

Vision 2030



Contribute
to decrease
of GHG
emissions



Ecosystem
Restoration
Increase
Biodiversity



A smart,
resilient Baltic
Sea Region-
local, circular
economy

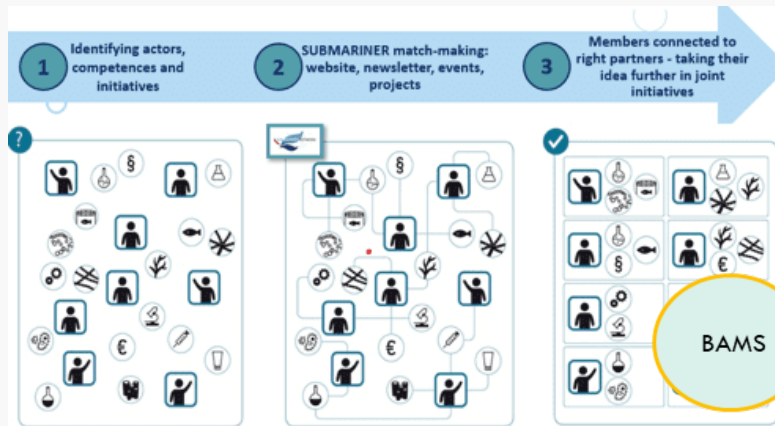


Improve
human
well-being



Promote
bio-based
innovations

SUBMARINER Project Cloud



€ 300.000 membership fees
20 transnational projects
€ 41 million total
€ 30 million Baltic
49 members (2021)
150 partners
no strategic funding



How far have we covered strategic actions of roadmap 2013?

Strategic Actions	Covered	Projects	Achieved ?
Actors Mapping & Matchmaking	yes	Blue Platform ↑ Alliance ↑	continue
Data / Environmental Monitoring	partially	BBG, GRASS ↑ Operational Pilots ↓ BlueBioSites →	a lot still to be done
Access to Pilot Sites	yes	BBG+ ↑ SeaFarm ↑ InnoAquaTech ↑ Alliance ↑	demonstrations transnational access
Technology Development & Transfer	yes	BBG+ ↑ SeaFarm ↑ InnoAquaTech ↑ Alliance ↑ SmartBlueRegions ↑	continue
Energy Solutions with Marine Resources	partially	CoastalBioGas →	integrate
Valorization and compensation of ecosystem services	yes	BBG+ ↑ DE Marine Litter Studies ↑	partial political success ↑ implementation ↓
Unlock financing for innovative uses of marine resources	yes	Alliance ↑ others: BlueInvest	pre-acceleration service
Create better legal and regulatory conditions	yes	BBG+ ↑ GRASS ↑ SmartBlueRegions ↑	no
Public Awareness	no	BalticProBlue ↓ ↓ BalticProBlue → Sea2Fork →	a lot still to be done
Ocean Literacy	partially	Eu4Ocean ↑ OceanBlues ↑ Erasmus ↓	a lot still to be done

How far have we covered topics of the roadmap 2013?

Topics	Covered	Projects
Macroalgae	yes	SE SeaFarm, BBI MacroCascade, GRASS
Mussels	yes	BalticBlueGrowth, Optimus, Ecopelag => Mussel Working Group
Reed ... Beach Wrack	members	CONTRA
... Macro & Halophytes	members	LIFE: Floating Lagoons, HAFF
Sustainable Fish and Shrimp Aquaculture	yes	InnoAquaTech, AquaVIP, .. but not Baltic Sea wide ... RAS FEED failed
Blue BioTech	yes	Alliance, DK-DE Fucosan
Microalgae for Energy	partially	Coastal Biogas, MACROalgae
Wave Energy	no	(applications failed)
Multi-Use	yes	MUSES => UNITED, Multi-Frame
Maritime Cultural Heritage	yes	BalticRIM (no extension)
Marine Litter	members	DE Round Table, AquaLIT, FanPlesstic-Sea => but not comprehensive

Conclusions

- **No longer only research**
 - => more and more companies
 - => 650 companies earmarked
 - => more and more products on the market
- **Proof of Concepts**
 - => mussels, algae can be cultivated
 - => better knowledge on floating structures, beach wrack, biogas
 - => cost-effective nutrient removal, where needed
 - => negative environmental impacts limited
 - => RAS, aquaponics, IMTA
- **Successful services**
 - => Baltic info and data hub
 - => effective blue science-company interlinkage created

Conclusions

- **No longer only research**
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- **Successful services**
 - => Baltic info and data hub
 - => effective blue science-company interlinkage created

BUT

- **Little biomass production**
 - => Demonstrators slow moving
- **Legal Barriers**
 - => lagging behind actual positive developments
 - => aquaculture behind agriculture
- **Ongoing support needed**
 - => but little transnational innovation funding
 - => Platform and project funding



SUB MARINER

Since its founding in 2014, the SUBMARINER Network family has been continuously growing. It currently has 24 network members, representing all Baltic Sea Region countries. The network includes both public and private sector organisations and reaches out to many more actors both within and beyond our project partnerships.

ROADMAP 2013



THE IDEA 2010

The project SUBMARINER (2010–2013) assessed, for the first time, the potential for innovative and sustainable uses of Baltic marine resources. It developed the idea for the network.

COMPENDIUM 2012



2017 SUBNET CONFERENCE DECLARATION

The 2nd SUBMARINER Conference 'Better off Blue', hosted in Berlin on 27th–28th September 2017, marks another milestone.

NETWORK 2014

Foundation of the SUBMARINER Network for Blue Growth EEIG.



2016 ROADMAP STATUS REPORT

SUBMARINER ROADMAP BEYOND 2021

FEBRUARY 2021



Next Steps / Actions

Action 1. Get pilots to the next level

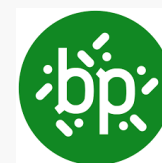
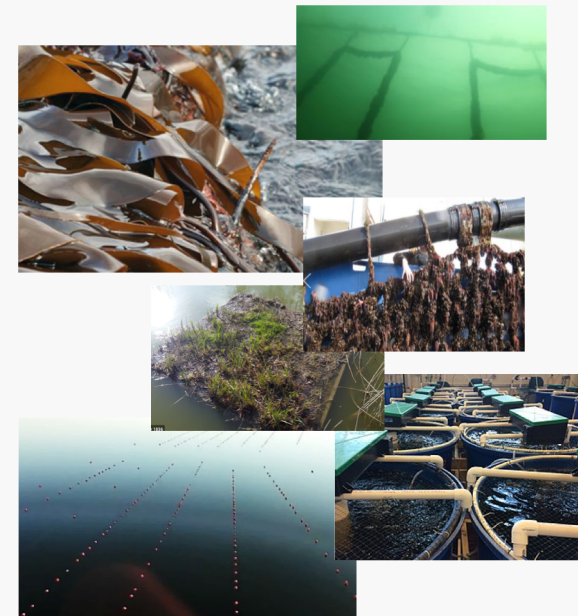
- **Identify & monitor sites based on common parameters**
- Develop comprehensive regional plans
- Establish large scale demonstration farms / plants
- Encourage and coordinate new cooperative structures
- Change / facilitate legislation

Action 2. Increase company involvement

- Baltic Blue Bio-economy Product & Company Catalogue
- **Address the need for a networking platform (cluster)**
- Continue and expand company specific services:
 - Accelerator / match-making
 - Co-creation & ideation
 - Technology development & transfer

Action 3. Consolidate new focus areas

- **Create Market Push and Pull: Product Development - Consumer Awareness**
- Education & Skills Development
- The 'Blue on Land': Waste Treatment, Marine Litter, Tourism, Food & Feed
- Cross-cutting assessments and plans: Biodiversity, Ecosystem, Climate Impact



Action 1: Get pilots to the next level

- Foster cooperation to create critical mass of biomass for industry
- Continue to collect and assess common parameters
- **Establish large scale demonstration farms / plants**
- Change legislation / introduce ecosystem service payments
- Develop comprehensive regional plans



Identification & monitoring of sites

- Collect minimum set of joint parameters at operational farms in central platform (i.e. ODSS) to validate environmental benefits, alleviate risks, assess harvest results as well as socio-economic benefits
- Establish Baltic Sea wide system to identify optimal blue bio sites depending on purpose
- Agree on most effective monitoring technology
- Use existing offshore structures & activities (OWFs; Ships; Fishery) to provide also environmental data

Organise national / regional roundtables

- between industry, R&D and regulators to remove legal barriers; i.e. waste and zero pollution definitions; novel food regulation; single / multi-use sector licenses
- establish ecosystem payment pilots schemes
- agree on suitable demonstration sites; incl. specific multi-use areas
- Develop comprehensive regional development and marketing plans: Biodiversity; ZeroPollution, Carbon reduction, Circular and Regional Economy

Encourage and coordinate new cooperative structures

- Share costs for joint equipment & knowledge
- Secure joint larger contracts / foster direct interaction with relevant larger companies
- Develop regional business plans to show how many farms / biomass harvest are needed where to provide critical mass to industry

Merge topics

- Integrate cultural heritage, wave energy into multi-use
- Regional approach to various nutrient removal solutions

Action 2: Increase company involvement

- Collect and maintain Baltic Blue Bio-economy Product & Company Catalogue
- Reach out and assess companies according to SUBMARINER criteria
- Address the need for a networking platform (cluster)
- Continue and expand company specific services



Continuous scouting for ideas & entrepreneurs

- 365 days enrollment service
- Quick assessment / mentors match-making
- Bi-annual pitching and match-making events
- Link to business accelerators, fundings
- Increase collaboration with BIG companies

Lobby for continuous blue assistance programme

- Regular communication and dissemination hub
- Integrate outputs and results from research
- Promote inter-regional funding pool
- Promote transnational innovation voucher system
- Prepare blue economy funding guide

Sustainable product & service development

Foster co-creation / ideation

- Future Business Canvas scenarios
- Innovation Bootcamps, Hackathons, Creative & Disruptive Workshops
- Study Tours / inspiration from more advanced
- Foster regional circular economy value chains
- Forms of Multi-Use, e.g. with tourism

Foster technology development and transfer

- Drying, harvesting, processing techniques and upscaling
- Combinations of renewable energy and aquaculture
- New technologies for site management
- Submerged or more offshore systems
- Blockchain technology, artificial intelligence, digitalization, big data ...



Action 3: Consolidate new focus areas



- Create Market Push and Pull: Citizen and Consumer Awareness
- Education & Skills Development
- The 'Blue on Land': Regional Development, Marine Litter
- Cross-cutting assessments and plans: Biodiversity, Ecosystem, Climate Impact

Ocean Literacy and Public Awareness

- Baltic Sea wide knowledge exchange & cooperation
- Ocean Literacy Library
- Network between knowledge providers / public spaces (i.e. aquaria & museums) and schools
- Consumer awareness actions: cook books; blue movement week; tastings; sea gardens
- Collaborate with: supermarkets; chefs; influencers...
- Use: youtube; Instagram; apps, etc.

Education / Skills

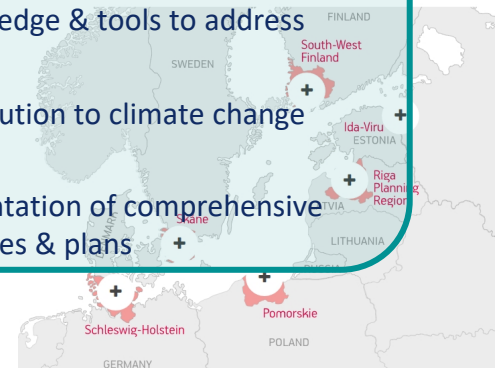
- Assess needs & create formal education and training programmes to address company needs
- Continue & expand Baltic Sea wide internship / job / career exchange service
- Create & foster closer collaboration between companies & formal educators

Blue on Land, e.g. Marine Litter Action Support

- cooperative actions at regional-national-Baltic Sea wide level: single use plastic round tables
- measures & efforts to reduce microplastics & plastic waste; substitute and modify plastic products
- establishment of 'fishing for litter' concept & funds;
- Standardization of fishing gear

Blue Biodiversity & Climate Concepts

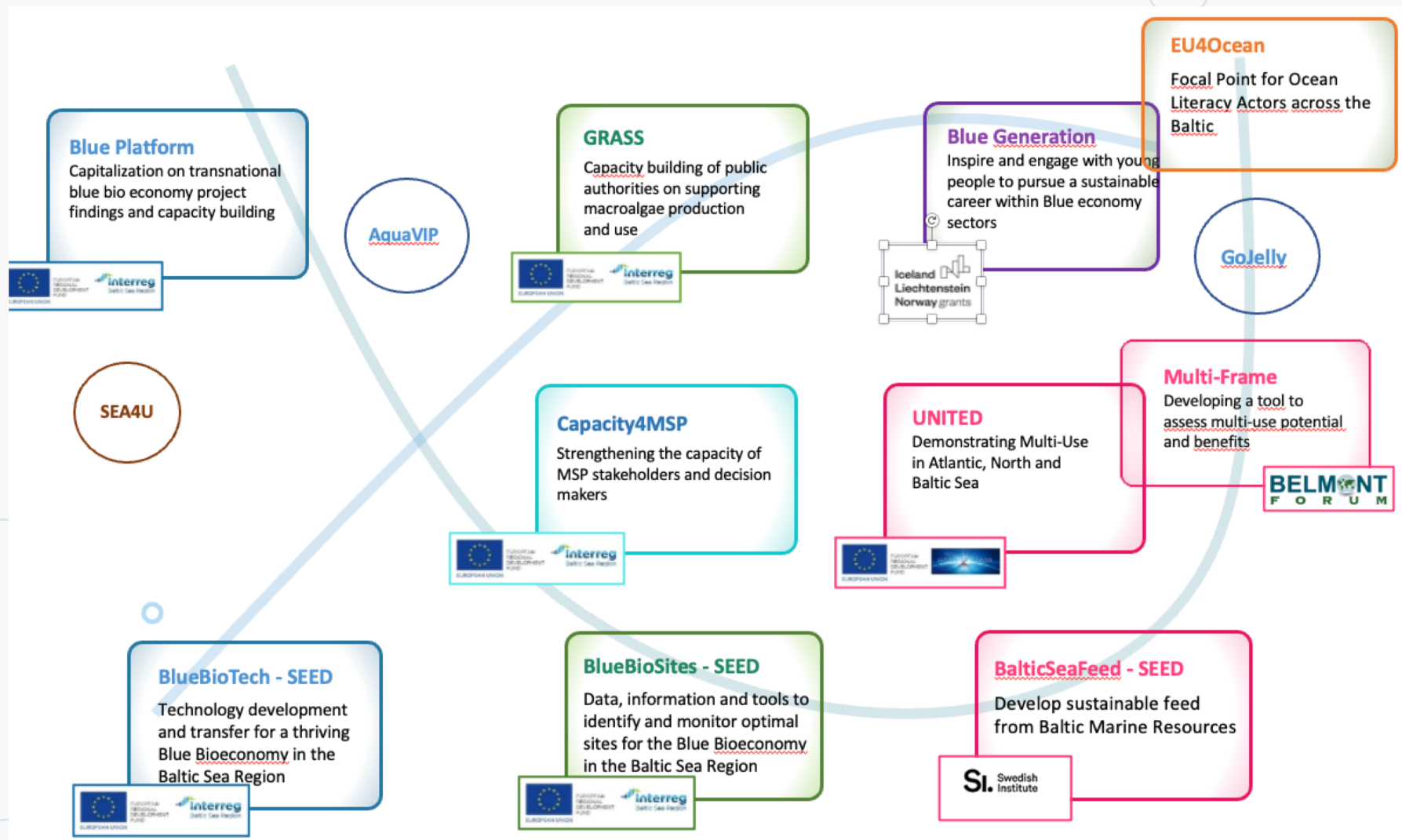
- Understand marine biodiversity decline
- Exchange and develop knowledge & tools to address ecosystem restoration
- Assess blue economy contribution to climate change reduction and mitigation
- Develop & support implementation of comprehensive regional blue climate measures & plans



But how to implement ?

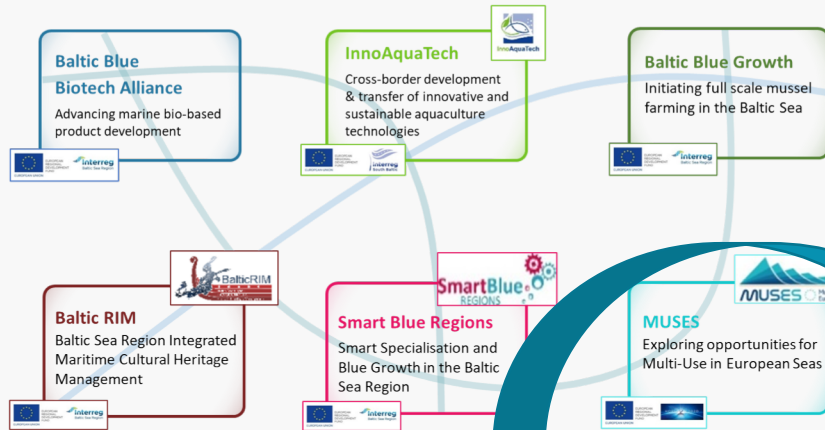


Some projects still running ...

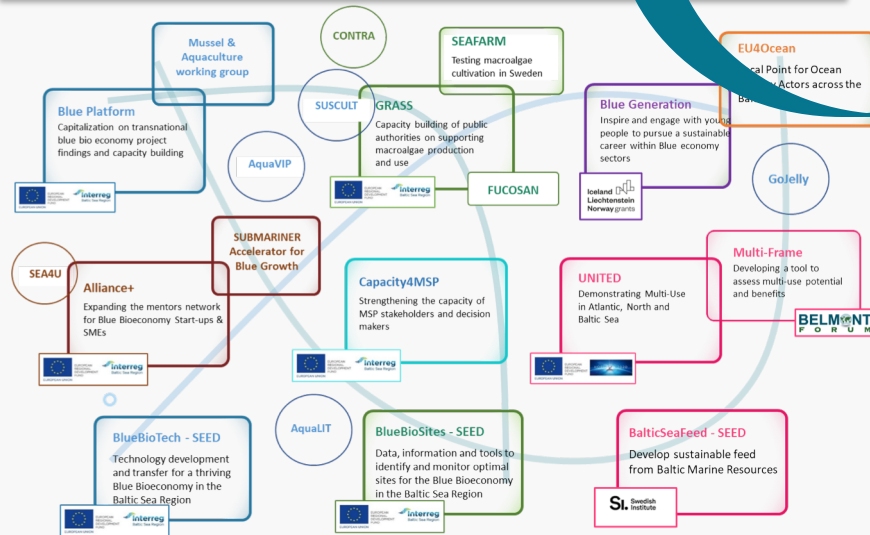


From projects to working group & vice versa

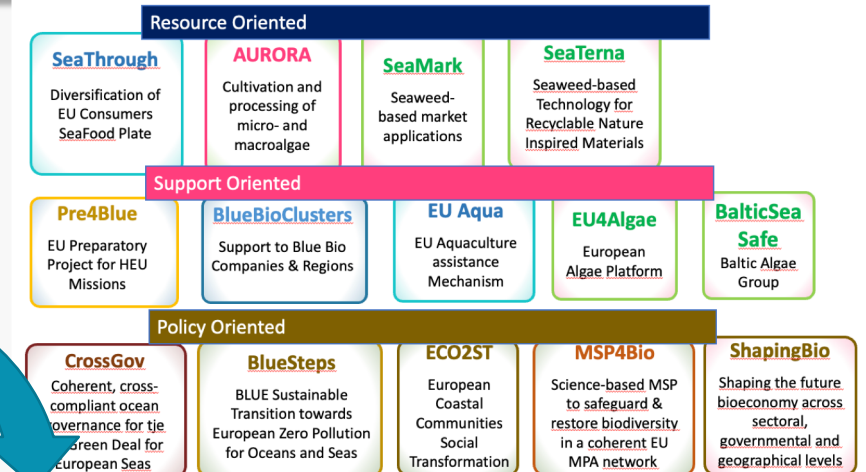
Completed projects (2014-2019)



Projects to finish (2019-2022)



Projects submitted (2021 – 2026)



Working Groups

Mussel and Algae

Aquaculture

Blue Growth Accelerator

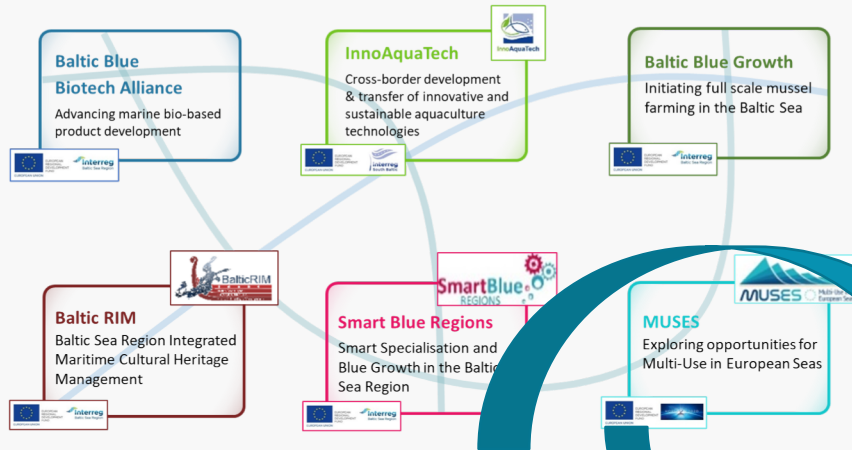
Beach Wrack

Ocean Literacy

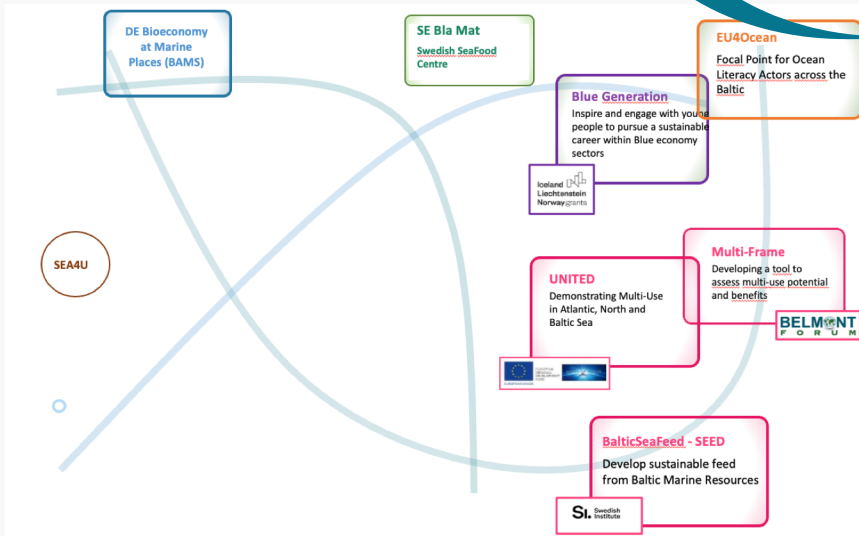
Marine Litter

From projects to working group & vice versa

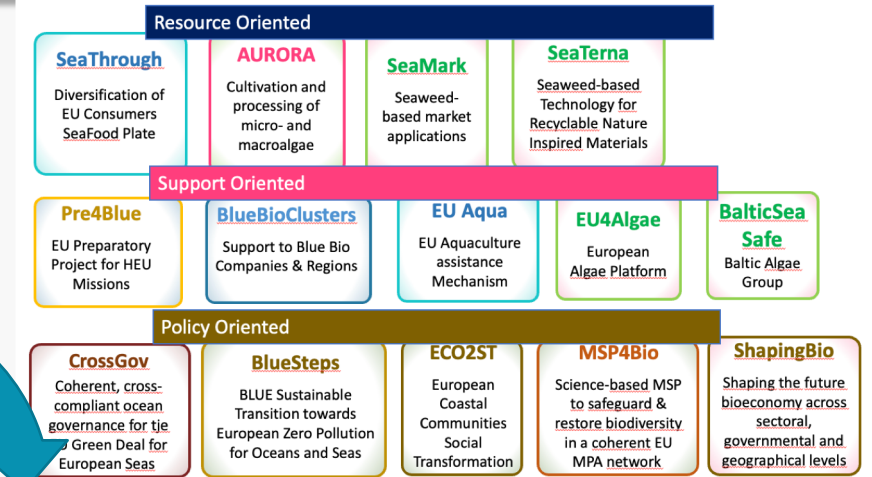
Completed projects (2014-2019)



Projects to finish (2019-2022)



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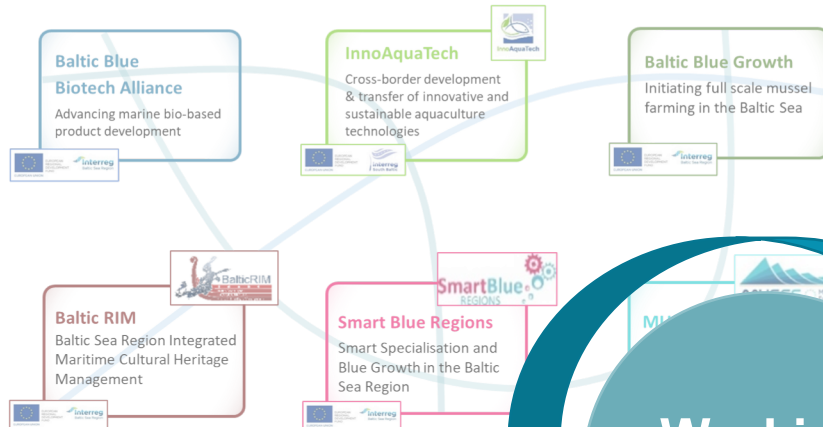


Working Groups

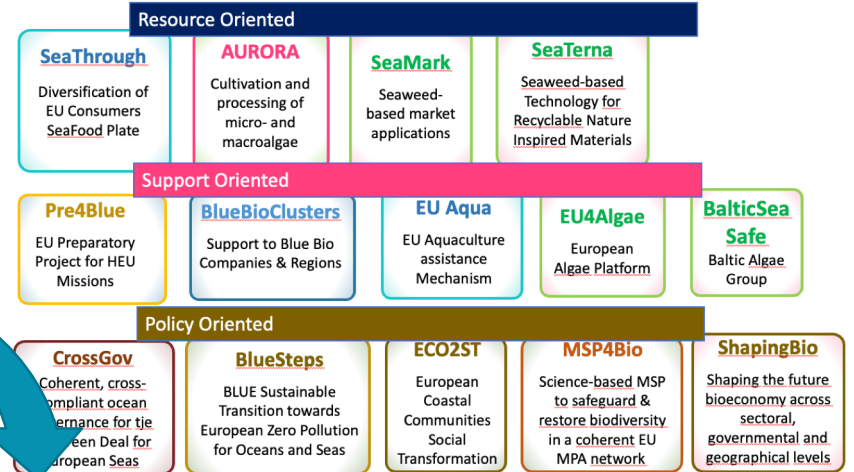


From projects to working group & vice versa

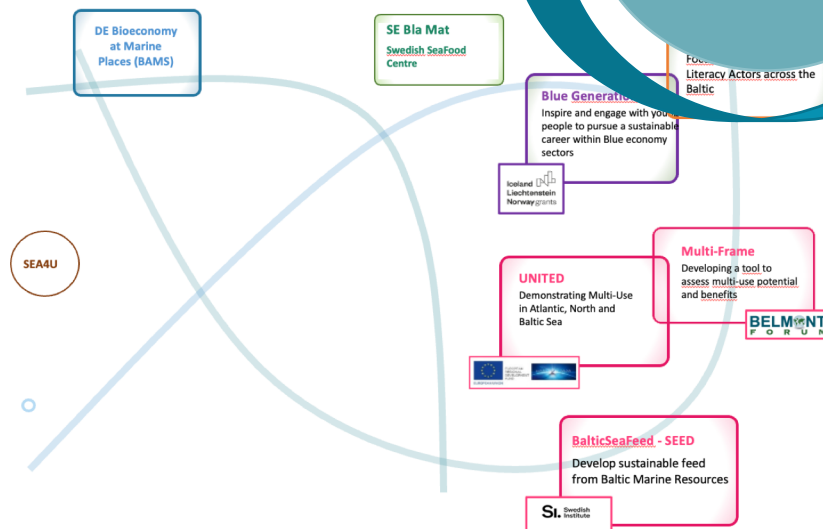
Completed projects (2014-2019)



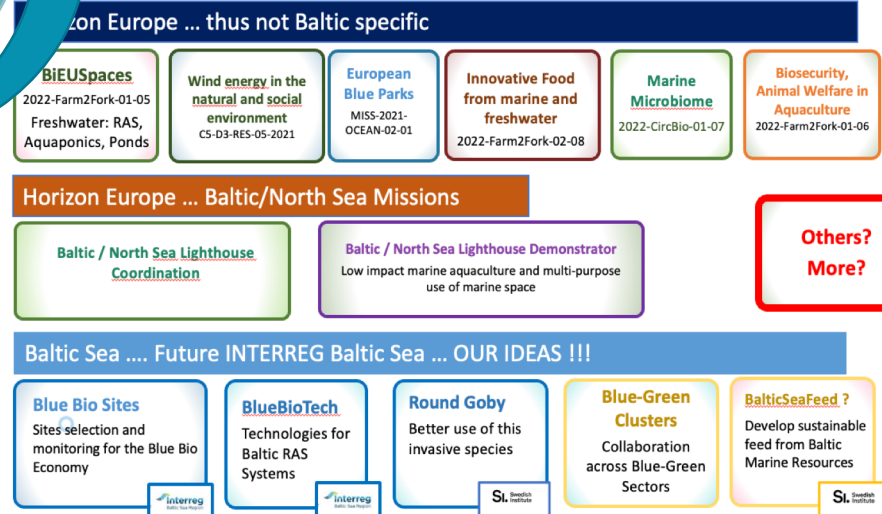
Projects submitted (2021 – 2026)



Projects to finish (2019-2022)

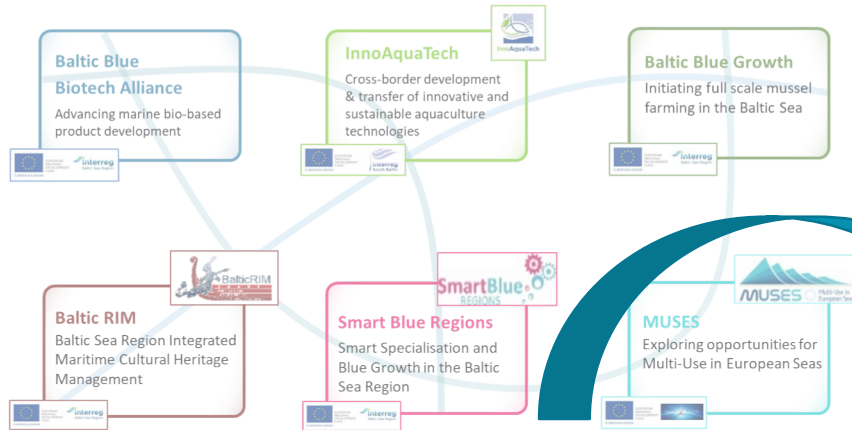


Project to be submitted (2022 ...)

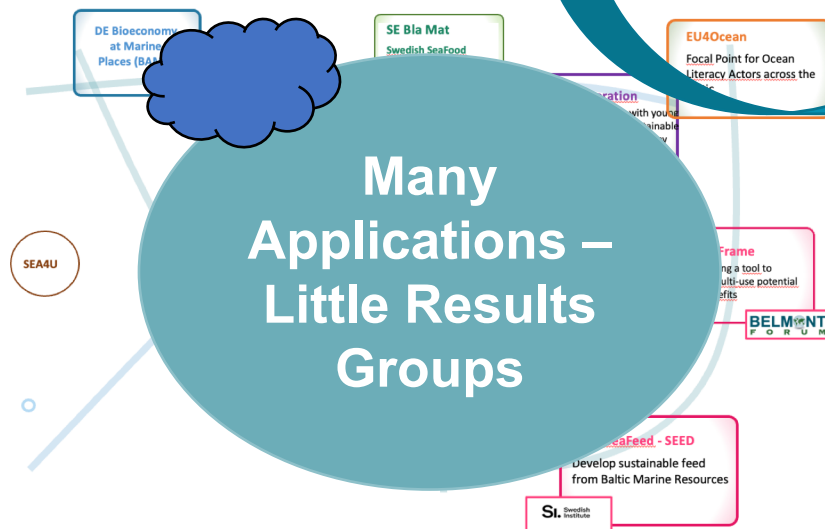


From projects to working group & vice versa

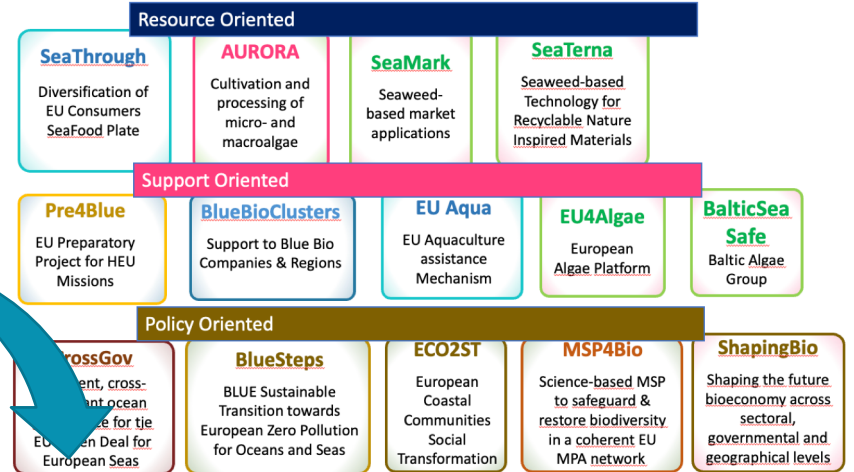
Completed projects (2014-2019)



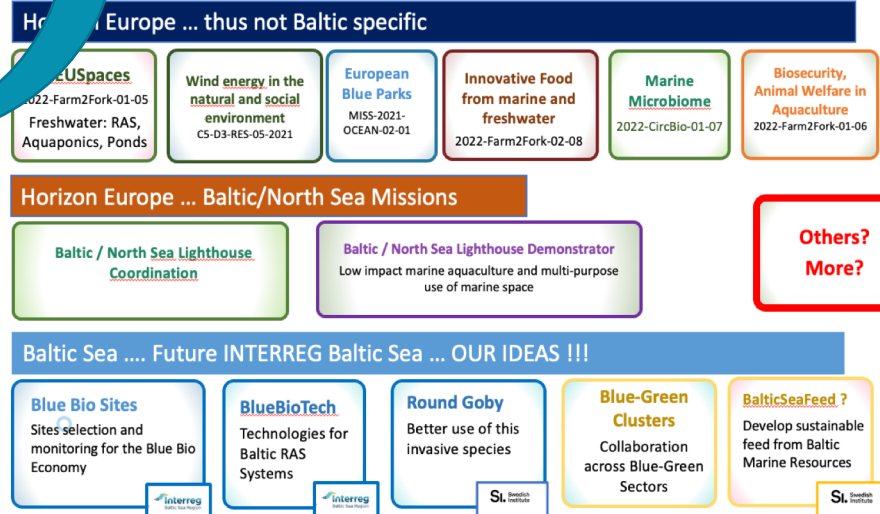
Projects to finish (2019-2022)



Projects submitted (2021 – 2026)

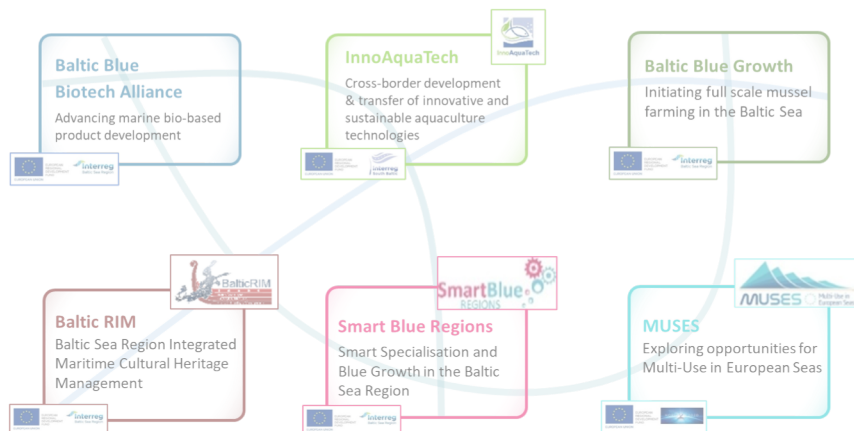


Project to be submitted (2022 ...)



Which projects shall drive our future?

Completed projects (2014-2019)



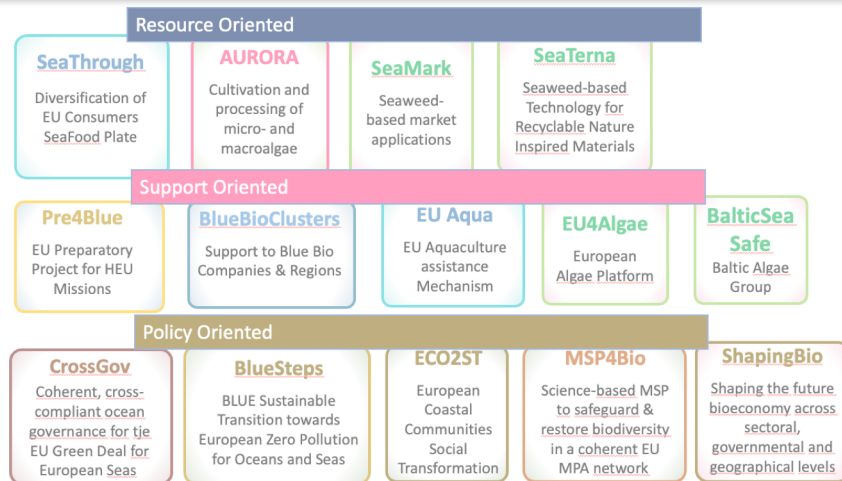
Projects to finish (2019-2022)



This Members' Assembly

BalticSeaFeed - SEED
Develop sustainable feed from Baltic Marine Resources

Projects submitted (2021 – 2026)

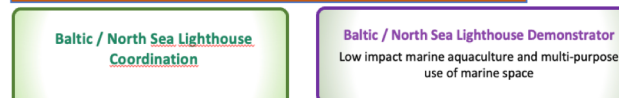


Project to be submitted (2022 ...)

Horizon Europe ... thus not Baltic specific



Horizon Europe ... Baltic/North Sea Missions



Others?
More?

Baltic Sea Future INTERREG Baltic Sea ... OUR IDEAS !!!



3rd Generation Projects (2021 and beyond)

Resource Oriented

SeaThrough

Diversification of
EU Consumers
SeaFood Plate

AURORA

Cultivation and
processing of
micro- and
macroalgae

SeaMark

Seaweed-based
market
applications

SeaTerna

Seaweed-based
Technology for
Recyclable Nature
Inspired Materials

Support Oriented

Pre4Blue

EU Preparatory
Project for HEU
Missions

BlueBioClusters

Support to Blue Bio
Companies & Regions

EU Aqua

EU Aquaculture
assistance
Mechanism

EU4Algae

European Algae
Platform

BalticSea Safe

Baltic Algae
Group

Policy Oriented

CrossGov

Coherent, cross-
compliant ocean
governance for the EU
Green Deal for
European Seas

BlueSteps

BLUE Sustainable
Transition towards
European Zero Pollution for
Oceans and Seas

ECO2ST

European
Coastal
Communities
Social
Transformation

MSP4Bio

Science-based MSP to
safeguard & restore
biodiversity in a
coherent EU MPA
network

ShapingBio

Shaping the future
bioeconomy across
sectoral,
governmental and
geographical levels

3rd Generation Projects (2021 and beyond)

Resource Oriented

SeaThrough

17%
620.000 €

AURORA

11%
660.000 €

SeaMark

11%
740.000 €

SeaTerna

40%
470.000 €

Support Oriented

Pre4Blue

50%
300.000 €

BlueBioClusters

40%
390.000 €

EU Aqua

20%
500.000 €

EU4Algae

35%
200.000 €

BalticSeaSafe

25%
30.000 €

Policy Oriented

CrossGov

100%
350.000 €

BlueSteps

50%
200.000 €

ECO2ST

14%
300.000 €

MSP4Bio

40%
430.000 €

ShapingBio

50%
350.000 €

3rd Generation Projects (2021 and beyond)

Resource Oriented

SeaThrough

17%
620.000 €

AURORA

11%
660.000 €

SeaMark

11%
740.000 €

SeaTerna

40%
470.000 €

Overall

Probability: 41%
2.120.000 €

Support Oriented

Pre4Blue

50%
300.000 €

BlueBioClusters

40%
390.000 €

EU Aqua

20%
500.000 €

EU4Algae

35%
200.000 €

BalticSeaSafe

25%
30.000 €

Policy Oriented

CrossGov

100%
350.000 €

BlueSteps

50%
200.000 €

ECO2ST

14%
300.000 €

MSP4Bio

40%
430.000 €

ShapingBio

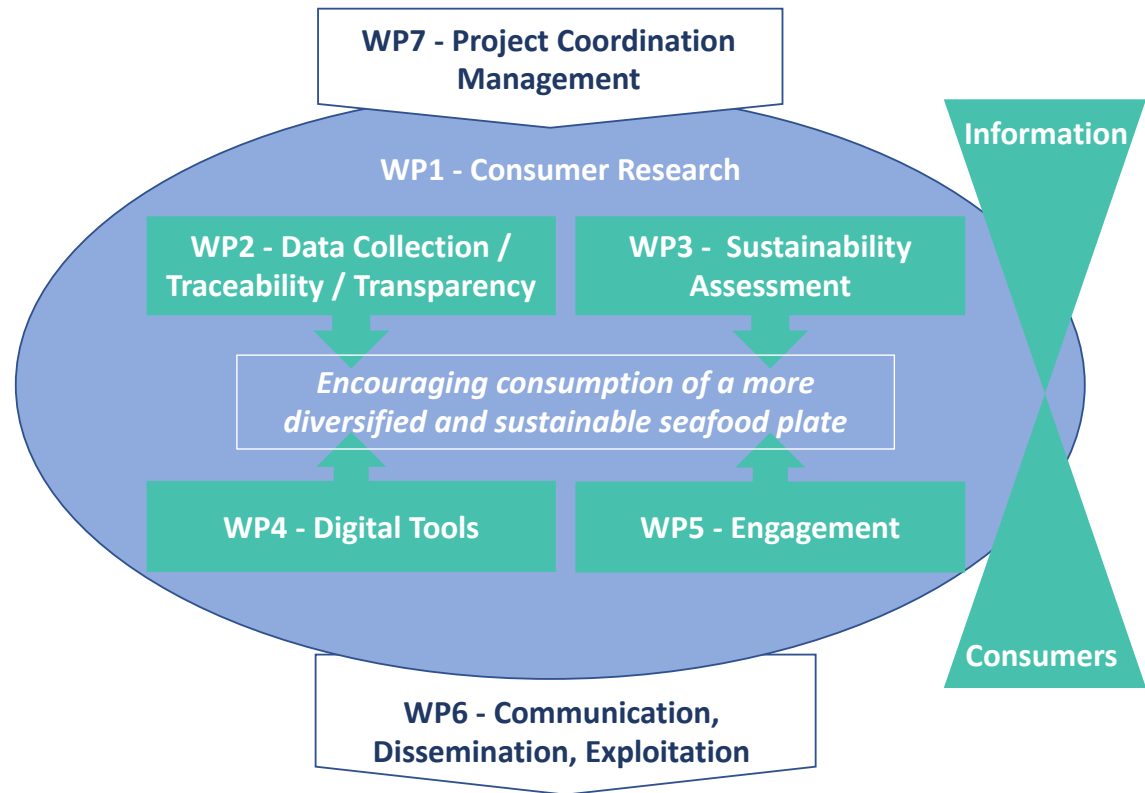
50%
350.000 €

Enhancing consumers' uptake of sustainable seafood from Europe through innovative and validated traceability and engagement tools

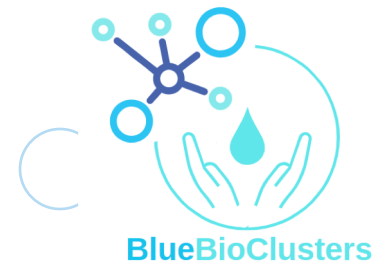
SUBMARINERs:

- UGOT (SE)
- SYKE (FI)
- LUKE (FI)
- NMFRI (PL)
- Many others ...
incl. Miils, Blue Lobster, Havhoest

Overall Budget: 6 Mio €



BlueBioClusters



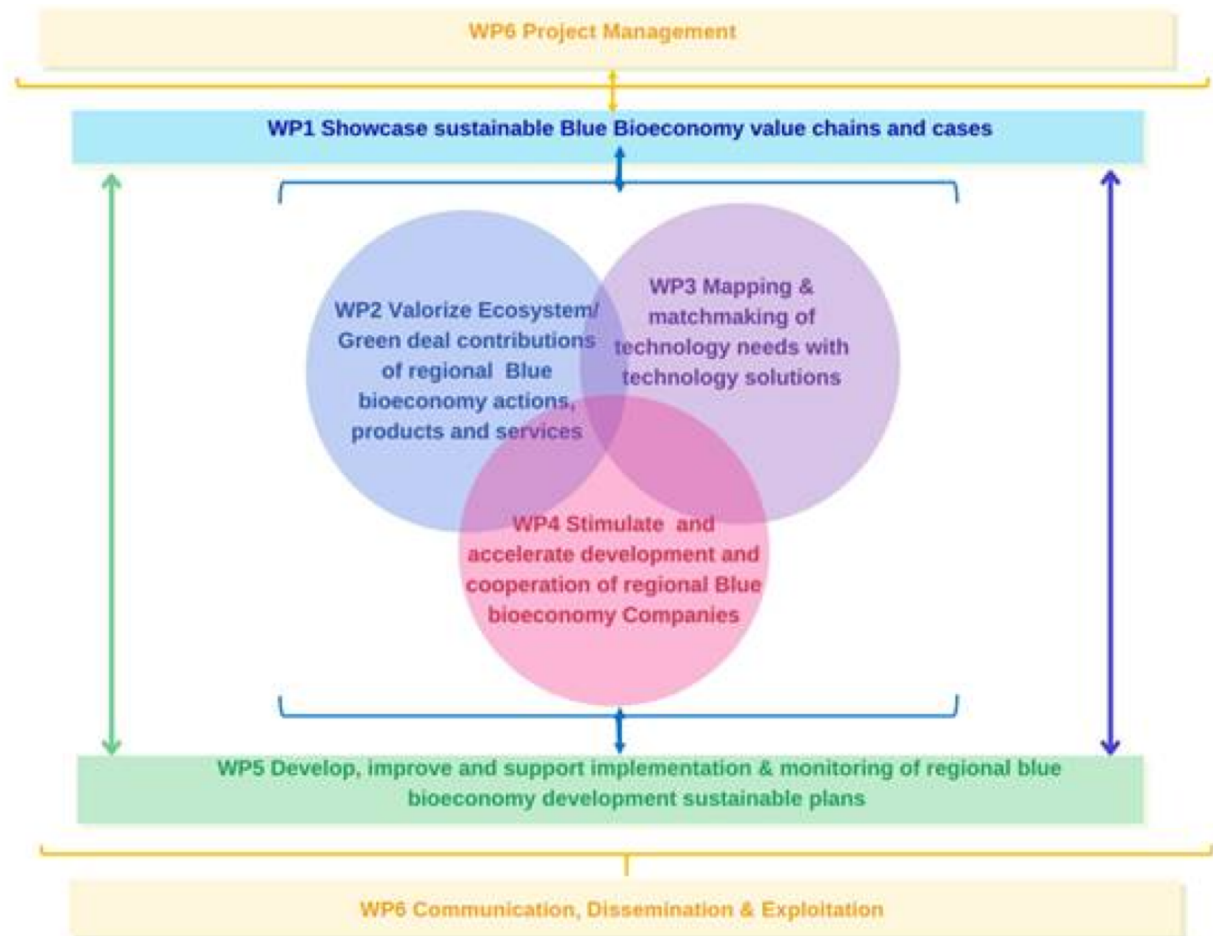
**SUPPORTING EUROPEAN COASTAL REGIONS
IN THEIR TRANSITION TO A SUSTAINABLE BLUE BIOECONOMY**

SUBMARINERs:

- Tartu BioPark (EE)
- Uni Tartu (EE)
- Klaipeda Uni (LT)
- Innovatum (SE)

With Blue Clusters from
Portugal, France,
Belgium, Norway,
Iceland, Scotland



Overall Budget: 2.5 Mio



SeaMark

Call: HORIZON-CL6-2021-CIRCBIO-01-09 — Unlocking the potential of algae for a thriving European blue bioeconomy

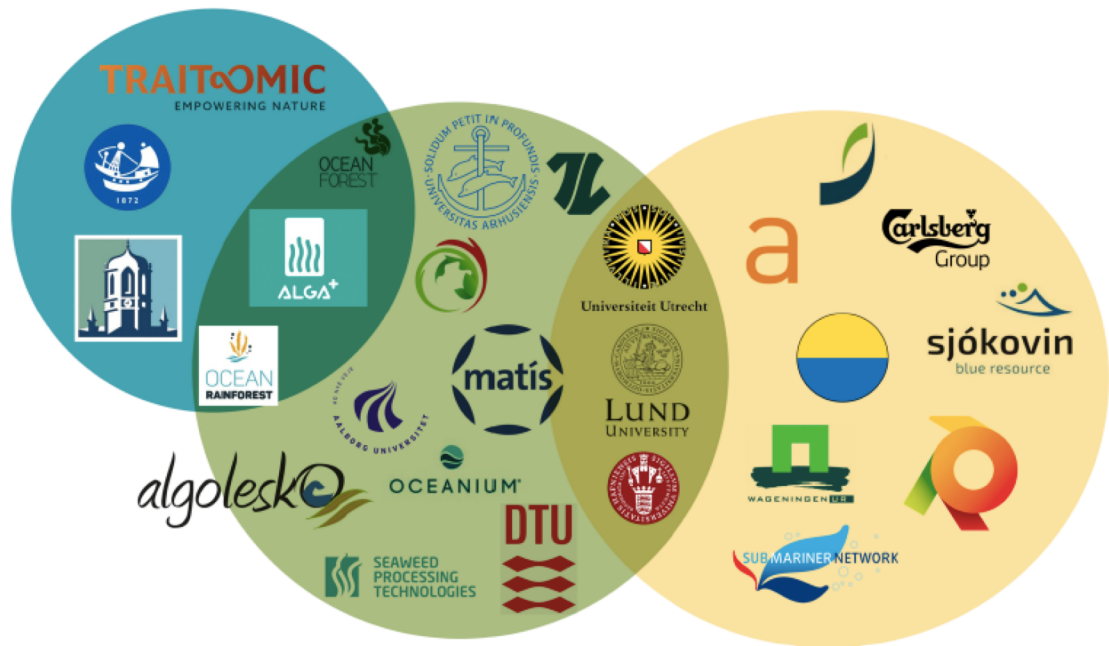
EU Grants: Application form (HE RIA/IA): V1.2 – 25.05.2021

	Short title	SeaMark	
	Coordinator	Ólavur Gregersen	
	Organisation	Ocean Rainforest	
	Duration	48 months	
	Work programme	HEurope-CL6	
	Topic	2021-CIRCBIO-01-09	

Seaweed-based market applications

SeaMark will go beyond state of the art with the installation of a pilot biorefinery for cultivated seaweed aiming at **TRL7** producing multiple high value functional ingredients.

- Fermented pig feed ingredients (soy replacer)
- Nutra-/cosmeceuticals; meat replacer
- Biomaterials (packaging, medical dressing)



SeaTernal



SEAWEED BASED TECHNOLOGY FOR RECYCLABLE NATURE INSPIRED MATERIALS

- SEATERNALs main objective is to develop **three fully circular seaweed-based value chains** at TRL 6.
- The project focuses on seaweed as sustainable feedstock utilising **aqueous fractionation, conversion, and solvent-free recycling** technologies thus eliminating the need for distillation-based recycling of the solvents, a major energy and cost factor.
- The three value chains use a **shared seaweed fractionation platform** which yields processable seaweed fractions for the three value chains.
- Each of these products will be developed embracing a **systems view** of the value chains being designed for **recycling**

BROWN

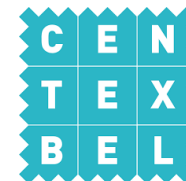
- Laminarin
- Mannitol
- Alginate

GREEN

- Ulvan
- DMSP
- Cellulose



- PLA + lactic acid
- Acrylic acid
- Alginate
- Medical dressing



BlueSteps

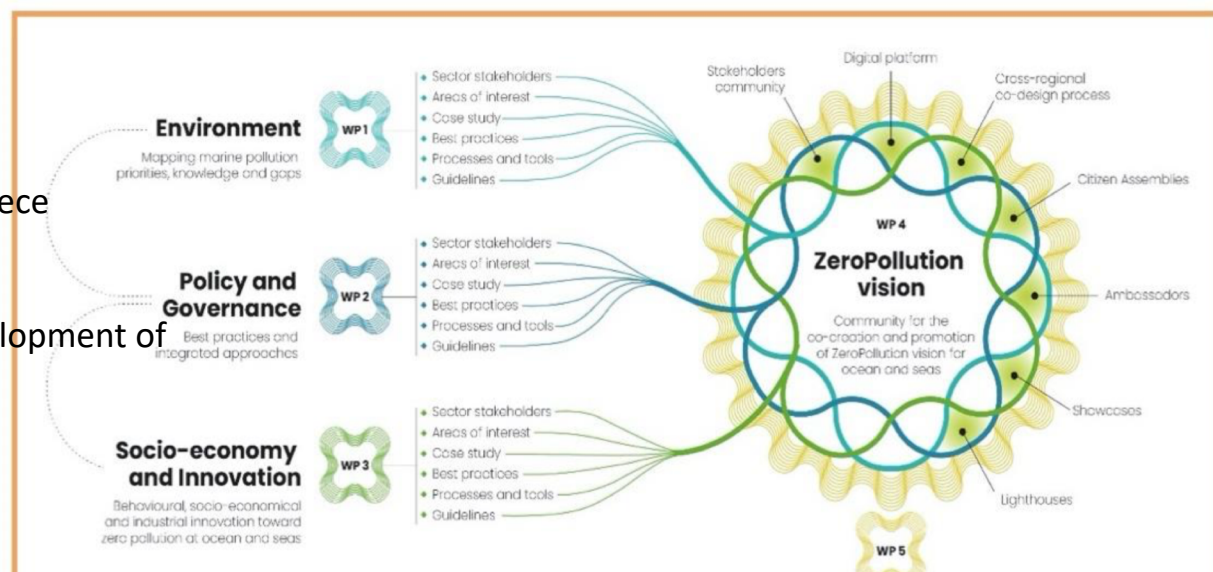
Blue Sustainable Transition towards European Zero Pollution for Oceans and Seas

Call: Horizon-CL6-2021-Zeropollution-01-04 (Achieving zero polluted seas and oceans)

Lead: CNR

- 1 CNR Italy
- 2 Bologna University Italy
- 3 Hellenic Centre for Marine Research Greece
- 4 Erinn Ireland
- 5 University of Vigo Spain
- 6 National Institute for Research and Development of Marine Geology and Geoecology Romania
- 7 Mondragon University Spain
- 8 Marche Polytechnic University Italy
- 9 Submariner Network For Blue Growth**
- 10 Technical University of Denmark
- 11 Norwegian University of Science and Technology
- 12 Sustainable Development Solutions Network France

Overall Budget: 3 Mio €



WP#	Work Package Title
1	Mapping marine pollution priorities, knowledge and gaps
2	Policy and Governance: best practices and integrated approaches
3	Behavioural, socio-economical and industrial innovation toward zero-pollution at ocean and seas
4	Designing a connected community for the co-creation and promotion of zero-pollution vision for ocean and seas
5	Communication, Dissemination and Exploitation
6	Coordination and Management

CrossGov

Coherent and cross-compliant ocean governance for delivering the EU Green Deal for European Seas

Call: Horizon-CL6-2021-Governance-01-06 (Cross-compliance of marine policies)

**Lead: Norwegian Institute
for Water Research**

1. s.Pro
2. University of Eastern Finland
3. University Utrecht NL
4. ACTeon FR
5. Institute for Advanced Sustainability Studies DE
6. CNR-ISMAR

**Overall Budget:
4 Mio €**

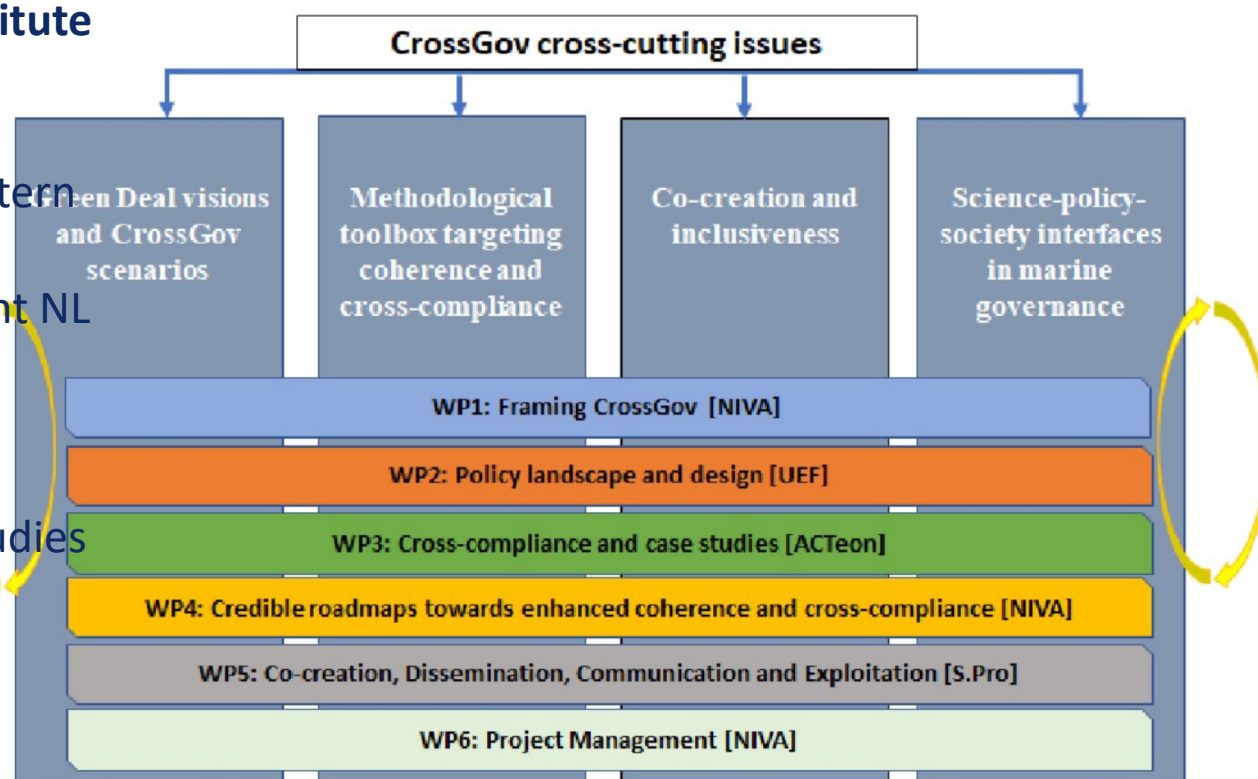


Figure 7 The four cross-cutting issues in CrossGov R&I

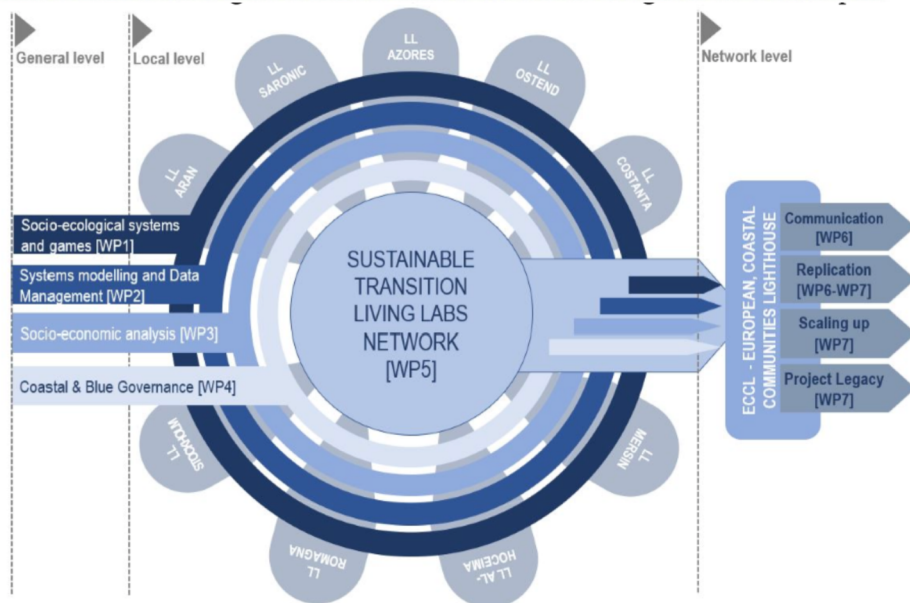
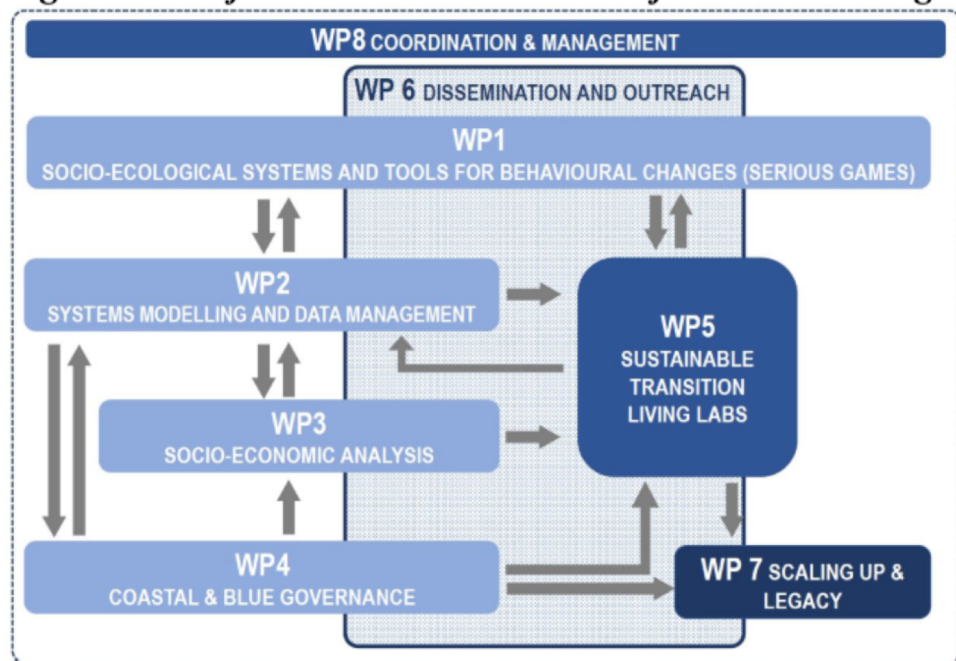
Call: Horizon-CL6-2021-Communities-01-04
(Socio-economic empowerment of the users of the sea)

Lead: CNR

- 1 Consiglio Nazionale Delle Ricerche (Cnr) It
- 2 Alma Mater Studiorum – Università' Di Bologna (Unibo) It
- 3 Hellenic Centre For Marine Research (Hcmr) El
- 4 National Technical University Of Athens - Ntua (Ntua) El
- 5 Stockholms Universitet (Su) Se
- 6 Danmarks Tekniske Universitet (Dtu) Dk
- 7 Sintef Ocean As (Sintef) No
- 8 Vlaamse Instelling Voor Technologisch Onderzoek N.V. (Vito) Be
- 9 Cardiff University (Cu) Uk
- 10 Univerza Na Primorskem Università Del Litorale (Up) Si
- 11 Middle East Technical University (Metu) Tr
- 12 Institutul National De Cercetare-dezvoltare Pentru Geologie (Geoecomar)
- 13 Agir Association De Gestion Intégrée Des Ressources (Agir) Ma
- 14 Universidade Dos Acores (Uac) Pt
- 15 Submariner Network For Blue Growth Ewiv (Subm) De
- 16 Athina-erevnitiko Kentro Kainotomias Stis Technologies Tis (Athena)
- 17 WOC - World Ocean Council Europe (Woc) Fr
- 18 Mediterranean Agronomic Institute Of Zaragoza / ES
- 19 Sdsn Association Paris (Sdsn) Fr
- 20 G.A.C. Group (Gac) Fr
- 21 International Marine And Dredging Consultants (Imdc)

Overall Budget: 6 Mio €

Fig. 3.1: Project architecture and major WP exchanges



Projects ... in preparation ...to be submitted

Horizon Europe ... thus not Baltic specific

BiEUSpaces

2022-Farm2Fork-01-05

Freshwater: RAS,
Aquaponics, Ponds

Wind energy in the natural and social environment

C5-D3-RES-05-2021

European Blue Parks

MISS-2021-
OCEAN-02-01

Innovative Food from marine and freshwater

2022-Farm2Fork-02-08

Marine Microbiome

2022-CircBio-01-07

Biosecurity, Animal Welfare in Aquaculture

2022-Farm2Fork-01-06

Horizon Europe ... Baltic/North Sea Missions

Baltic / North Sea Lighthouse Coordination

Baltic / North Sea Lighthouse Demonstrator

Low impact marine aquaculture and multi-purpose
use of marine space

**Others?
More?**

Baltic Sea ... Future INTERREG Baltic Sea ... OUR IDEAS !!!

Blue Bio Sites

Sites selection and
monitoring for the Blue Bio
Economy



BlueBioTech

Technologies for
Baltic RAS
Systems



Round Goby

Better use of this
invasive species

SI. Swedish
Institute

Blue-Green Clusters

Collaboration
across Blue-Green
Sectors

BalticSeaFeed ?

Develop sustainable
feed from Baltic
Marine Resources

SI. Swedish
Institute



SUBMARINER Catalogue

Key facts

- ONLINE
- Currently 150 ,top' companies..
- Potentially more
- SUBMARINER Network members support selection process and outreach strategy
- Funded by the Nordic Council with 42.500 Euro / potentially additional sources by Blue Platform
- Company ,self-registration' – continuous updates possible
- Inter-active ,automatic messaging'



Selection



Companies using aquatic resources (ideally from Baltic) for their products / services



Companies whose activity is "sustainable" (ideally certified)



Companies that offer at least a verified prototype and at best a commercially viable product or service



Companies whose activity is showcased online (website / social media channels)



Selection



Companies using aquatic resources (ideally from Baltic) for their products / services



Companies whose activity is "sustainable" (ideally certified)



Companies that prototype product or



Companies with online (web)

Company	Product/service	Product family	Aquatic resource
Furcella (EE)	Face creams based on red algae	Cosmetics	Red algae Furcellaria
Kingfisher AB (SE)	Eco-certified macroalgae cultivated as biomass	Biomass	Mainly kelp
Everts sjöbod (SE)	Lobster safaris and oyster tastings with quality stamp Naturens Bästa	Sustainable tourism	Lobster, oyster
EstAlg Group Oü (EE)	SAPROPEL, a natural organic underwater soil fertilizer	Fertilizer	Bottom sediments of freshwater reservoirs
Blå Biomasse A/S (DK)	Nitrogen reduction with mussels farming	Environmental services	Mussels



Our target groups



Companies

The catalogue offers them a tool to connect with other companies in the region and a platform to promote their own products through our network.



Additional

Researchers, funders, certification bodies, producers, retailers, end consumer, general public.

FIRST-EVER MAPPING OF MARINE CITIZEN SCIENCE PROJECTS IN THE BALTIC SEA REGION



❖ From May – Sept 2021

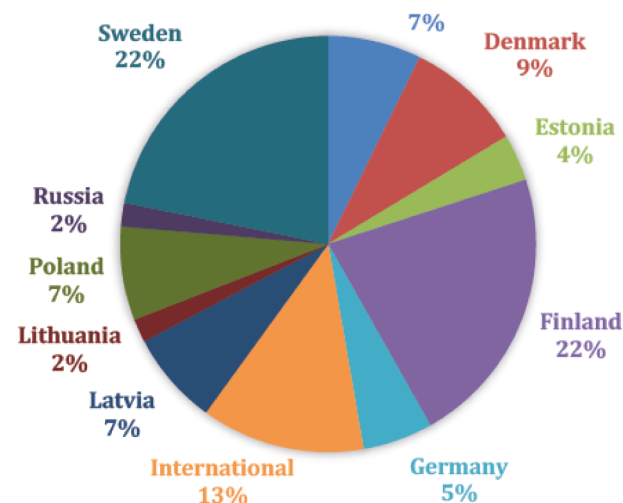
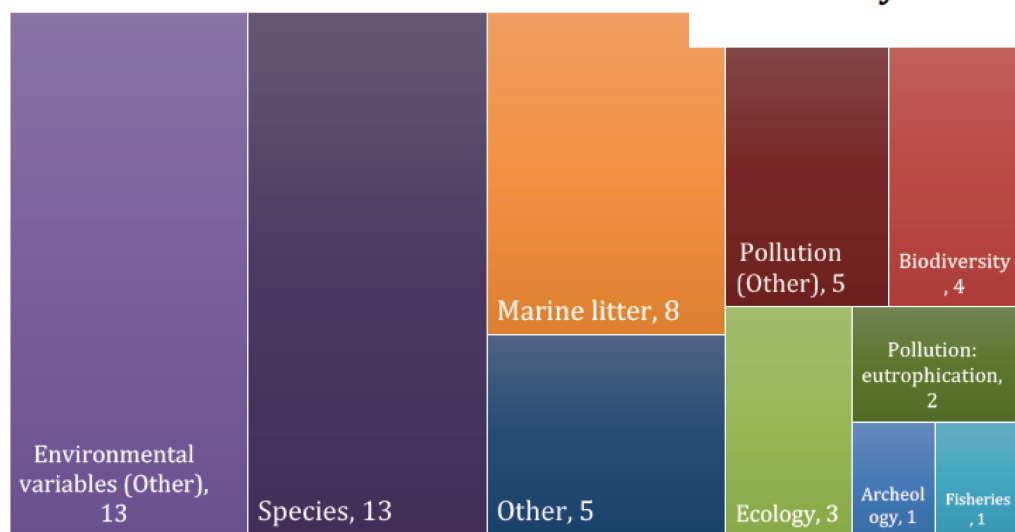
❖ Targeted stakeholder outreach + desk research & online questionnaire

❖ 55 projects identified:

- No older than five years prior to 2021
- focusing on BSR marine or coastal environment
- data collected actually used by researchers for scientific research or for exerting influence on policy-makers



Where do Baltic Marine Citizen Science projects take place?
What do Baltic Marine Citizen Science projects study?
Who is organising Baltic Marine Citizen Science projects?
What do organisations aim for?
Continuity of Baltic Marine Citizen Science projects

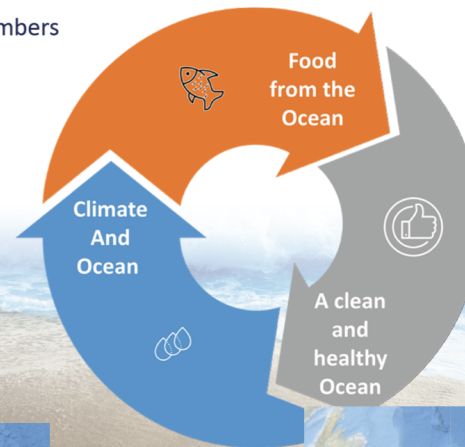


EU4Ocean Coalition for Ocean Literacy

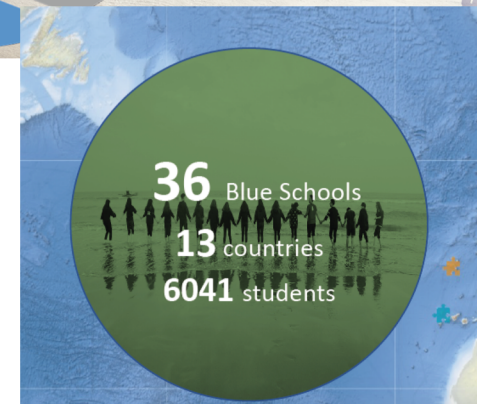
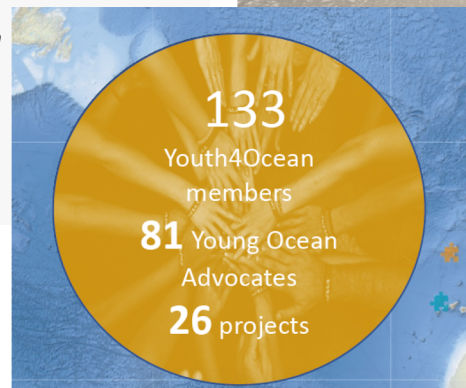
- ❖ Running until 2022
- ❖ SUBM involved as Baltic Focal Point
- ❖ EU4Ocean consists of:
 - EU4Ocean Coalition
 - Network of EU Blue Schools
 - Youth4Ocean Forum
- ❖ connecting diverse organisations, projects and people that contribute to ocean literacy and the sustainable management of the ocean
- ❖ 12 partners across Europe, led by ACTeon
 - Seascope Belgium
 - European Marine Board
 - Nausicaá
 - World Ocean Network
 - Ciência Viva
 - European Marine Science Educators Association
 - Ecologic Institute
 - European Centre for Information on Marine Science and Technology
 - s.Pro (SUBM)
 - MARE Nostrum (Romania),
 - European Schoolnet
 - Women4Oceans



120 Platform members
> 260 experts



- Academia
- NGOs
- Networks
- Aquariums & museums
- Industry (SMEs)
- Inter-governmental
- Public Authorities
- Projects
- ...





◉◉◉ Welcome to SUBMARINER family



www.submariner-network.eu



@submnet



submariner-network-for-blue-growth-eeig

