



BLUE MISSION BANOS

**Supporting the Mission
Ocean Lighthouse in the
Baltic and North Sea Basins**

Deliverable 4.3

**Roadmaps for deployment of solutions
to foster decarbonization/circularity in
selected blue economy regions**

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Abstract	This deliverable presents the Blue Mission BANOS (BMB) Roadmaps translate the EU Mission “Restore our Ocean and Waters by 2030” into actionable regional transition pathways for the North and Baltic Sea basins. The roadmaps are built on 197 prioritised action points co-created by in total, over 1,200 participants through Mission Arenas.
Keywords	BlueMissionBANOS, Mission Ocean, Roadmaps, BANOS, Baltic Sea, North Sea, Action Points, Mission Arenas

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BLUEMISSIONBANOS PROJECT

BlueMissionBANOS (BMB), as a Coordination and Support Action (CSA) for the Baltic and North Sea (BANOS) Mission Ocean Lighthouse, inspires, engages, and supports stakeholders across the BANOS region in taking positive action to reach the Mission Ocean objectives. In particular, the uptake of a sustainable, carbon-neutral, and circular blue economy is facilitated by connecting national, regional, and transnational actors from politics, industry, and science, thereby creating a governance model that is conducive to innovation.

While fostering the transition towards a climate-neutral and circular sustainable blue economy, BlueMissionBANOS supports the prevention and elimination of water pollution, as well as the protection and restoration of biodiversity and marine and freshwater ecosystems. The project focuses on reducing governance fragmentation, facilitating evidence-based decision-making and fostering citizen engagement across the BANOS area. These supporting actions raise awareness, showcase opportunities, and inspire stakeholders to actively contribute to the transition and preservation of oceans, seas, and waters through 2030 and beyond.

To accelerate the transition towards an innovative and circular blue economy, in line with regions' strategic priorities, as defined by their Smart Specialisation Strategies (S3), BlueMissionBANOS facilitates synergies and matchmaking between actors working towards achieving the Mission Ocean objectives in the BANOS area. To that end, BlueMissionBANOS organised regional pilot demonstration arenas (Mission Arenas), systematically bringing together innovators, business support and training organisations, authorities and other local stakeholders from a geographically defined area to collaborate and thus accelerate the uptake of innovative solutions in support of Mission Ocean. As part of the project, BlueMissionBANOS provides a catalogue of projects, partners involved and technical expertise and solutions to foster progress, collaboration and knowledge sharing. Furthermore, BlueMissionBANOS develops a consistent monitoring framework to assess progress in achieving carbon neutrality and circularity.

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ACRONYMS

BANOS	Baltic and Nordic Sea basin
BMB	BlueMissionBanos - Supporting the Mission Ocean Lighthouse in the Baltic and North Sea Basin
D	Delivery
MA	Mission Arenas
MA1	1 st Misson Arena, Gothenburg
MA2	2 nd Mission Arena, Riga
MA3	3 rd Mission Arena, Amsterdam
MA4	4 th Mission Arena, Sopot
Mission	EU Mission Restore our Ocean and Waters
PP	Project Partners
R&I	Research and Innovation
S3	Regional Smart Specialisation Strategies (S3)
SME	Small and Medium Size Enterprises
WP	Work Package

EXECUTIVE SUMMARY

This deliverable presents the BlueMissionBANOS (BMB) roadmaps for sustainable and carbon-neutral blue economy sectors in the North and Baltic Sea (BANOS) basins. The roadmaps are built on 197 prioritised action points co-created by, in total, over 1,200 participants from nearly 500 organisations across 44 countries, sectors, and levels at four regional conferences, known as the ‘Mission Arenas’. In BMB, the Mission Arena concept goes beyond a conference – it is a platform where representatives from science, policy, finance, industry and civil society come together in a co-creation process to develop jointly implementable solutions for a sustainable blue economy in the BANOS region.



Figure 1 Mission Arenas and the Roadmaps developed

The BMB roadmaps translate the EU Mission “Restore our Ocean and Waters by 2030” (Mission Ocean) into actionable regional transition pathways. Through inclusive dialogue at the Mission Arenas, participants formulated both systemic and sector-specific actions, ranging from harmonised permitting and governance frameworks to digital platforms, new financing models, and skills development schemes. This is one element that makes the Mission Arenas an essential part of the BMB innovation cycle, as described in D4.1.

Initially, BMB was set to focus on Mission Ocean objective three, ‘make the sustainable blue economy carbon-neutral and circular, in line with the proposed European Climate Law and the comprehensive vision outlined in the Sustainable Blue Economy Strategy’. However, in reality, the action points and roadmaps went far beyond this, as stakeholders called for actions to be undertaken on all three Mission objectives and beyond. This widening of the focus of the roadmaps occurred quite naturally in response to demand from local and regional stakeholders. In the end, the roadmaps represented a wide approach to addressing all goals of Mission Ocean, rather than a limited focus on objective three.

Prior to each Arena, the organising team, which included BMB project partners as well as partners from other region-specific projects and initiatives, worked together to formulate a series of draft action points. These were the actions that organisers themselves believed to be most important for achieving the goals of Mission Ocean in their region. These pre-Arena action points were published

in each Mission Arena programme for reference by participants. Throughout each Arena, participants then had the opportunity to engage with and adapt action points during the thematic workshops. In the end, the adapted action points were then voted upon in the final stakeholder assemblies. By this voting procedure during the closing plenary sessions, each of the resulting action points was assessed and prioritised based on feasibility, Mission relevance, and systemic impact. The resulting roadmaps, presenting the action points in order of priority, represent a shared vision for accelerating sustainable blue economy transitions and provide a structured, deployment-ready framework for implementation.

The regional roadmaps and action points are available at the BMB website www.bluemission-banos.eu, while demonstrated solutions are showcased on www.wavelinks.eu. Together, they provide a foundation for sustained collaboration, informed policy development, and strategic investment towards a resilient, sustainable blue economy by 2030.

1. INTRODUCTION

1.1 AIM OF THE REPORT

This report aims to present a dataset of roadmaps co-created by stakeholders at BlueMissionBANOS Mission Arenas in selected blue economy regions of the Baltic and North Sea. The roadmaps enable the development, deployment, and scaling of solutions, accelerating the implementation of the EU Mission “Restore our Ocean and Waters by 2030” to restore, protect, and preserve the health of our oceans and waters by 2030.

The roadmaps are co-created, assessed, and prioritised by stakeholders across sectors, borders, and levels in the BlueMissionBANOS Mission Arena workshop events, focusing on the uptake of sustainable, carbon-neutral, and circular blue economy solutions, while also supporting the advancement of Mission Ocean and Waters objectives one and two. Furthermore, the action points presented in the roadmaps support climate adaptation and resilience across EU Missions and beyond.

The roadmaps support the overall goal of BlueMissionBANOS to enable the Baltic and North Sea basins to contribute decisively to the EU Mission “Restore our Ocean and Waters by 2030” by fostering collaboration, accelerating innovation, and paving the way for the Mission’s Implementation Phase Two: deployment and scaling of sustainable solutions. The deliverable will be publicly available and can be used by national, regional and EU bodies advancing the EU Mission Ocean and Waters. Furthermore, this report can also be used for the drafting of the Ocean Act and provides a comprehensive overview of the actions called for by stakeholders in the BANOS region.

1.2 SUPPORTING MISSION IMPLEMENTATION

The EU’s Mission Ocean and Waters aims to restore oceans and waters by 2030 by protecting and restoring ecosystems and biodiversity, preventing and eliminating pollution, and enabling a sustainable, carbon-neutral, circular blue economy, while mobilising research, innovation, citizens, regions and industries to deliver concrete solutions.

The Mission implementation plan consists of two phases:

1. *Development and piloting (2022-2025)*: Focusing on research and innovation activities and laying the foundations for the implementation of the three Mission objectives.
2. *Deployment and upscaling (2026-2030)*: The solutions identified in Phase I will be further deployed, replicated and scaled up.

In the first phase, BMB was tasked with piloting and leading on Mission Ocean Objective: 3: Make the sustainable blue economy carbon-neutral and circular, in line with the proposed European Climate Law and the holistic vision enshrined in the Sustainable Blue Economy Strategy with the objectives: 3a. Eliminate greenhouse gas emissions from maritime economic activities in the EU and sequester those emissions that cannot be avoided (net zero maritime emissions). 3b. Develop zero-carbon and low-impact aquaculture, and promote circular, low-carbon multi-purpose use of marine and water space.

The projects, action points and solutions in the BANOS basin, detected and engaged by BlueMissionBANOS, however, mainly addressed multiple objectives of the Mission Ocean and Waters. In the co-creation of the roadmaps the objectives 1: Protect and Restore Marine and Freshwater Ecosystems and Biodiversity and 2: Prevent and Eliminate Pollution of Our Ocean, Seas, and Waters were included.

1.3 OUTLINE OF THE REPORT

This deliverable presents a dataset of the action points in the roadmaps that were co-created, assessed, and voted upon by the diverse participants of the Mission Arena events. The regional roadmaps are structured around action points that address obstacles, barriers, and pathways related to the thematic goals of the regional Mission Arenas, thereby supporting the implementation of the Mission objectives. The cross-functional actions that the regional roadmaps had in common are summarised in Chapter 3.

The identification and assessment of action points builds on the BlueMissionBANOS innovation cycle, which connects Mission objectives with regional realities through co-creation and local ownership. The roadmap actions span policy and legislation, governance, finance, research and innovation, monitoring and data, test sites and hubs, business support, standards, and education. Addressing these areas will remove barriers and unlock the full potential of the blue economy.

The action points connect regional and local needs for the deployment and scaling of Mission-aligned solutions. They should be used to integrate logical and practical pathways into national and EU frameworks and programs, in combination with other roadmaps and strategic agendas.

The methodology used, the BlueMissionBANOS approach, is described in detail in Deliverable 4.1 “The innovation cycle - Methodologies to accelerate implementation of innovative solutions”. The mobilisation and engagement outcomes are reported in the D4.2 “Evaluation/assessment tools of innovative solutions. The enabling environment needed to act on these points is analysed in 4.4 “R&I Needs to be addressed by related programs”.

D4.1	Report on the innovation cycle methodology, the BMB planning document, including instructions on how to organise innovation cycles and Mission Arenas
D4.2	Report on the outcomes and detected innovation system methodologies BlueMissionBANOS approach
D4.3	Dataset and report on the methodological results in terms of stakeholder co-created roadmaps
D4.4	Dataset and report on the methodological results of stakeholder co-created and assessed R&I and instrument needs.

Table 1 WP4 Deliverable Descriptions

The regional roadmaps have been shared with EU, national, and regional bodies, as well as all the approximately 2000 participants of the Mission Arenas and a wide range of other stakeholders across the region and beyond. The action points and regional roadmaps are published on the BlueMissionBANOS website, www.bluemissionbanos.eu. The solutions demonstrated at the Mission Arenas are documented at WaveLinks, (www.wavelinks.eu).

2. THE BMB APPROACH – IDENTIFYING ACTION POINTS

The BlueMissionBANOS approach to identifying, co-creating, prioritising, and assessing enabling action points and pathways builds on the BMB innovation cycle methodology, described in Deliverable D4.1. This methodology connects EU Mission ambitions with regional realities through co-creation, local ownership, and system innovation. Embedded in the methodology is multi-stakeholder identification and co-creation of action points, enabling the development of instruments required to deploy and scale Mission-aligned solutions of all kinds, with a focus on Mission Ocean objective 3, and lesser focus on objectives 1 and 2.

2.1 SELECTED REGIONS

The methodology was carried out in four sub-regions of the BANOS basin, finalised in four Mission Arenas, where co-creators and participants jointly defined regional challenges and co-created enabling actions across R&I-priorities, governance, policy, finance, and capacity building.



Figure 2 Selected sub-regions and the Mission Arenas

The four sub-regions reflected common challenges and built upon existing regional exchange structures and initiatives to form roadmaps for the Mission’s implementation. This, along with geographic proximity, was also a strategy to foster new partnerships for Mission activities. The four Mission

Arenas were held in geographically distinct areas, allowing each sub-region to work independently on focused actions for its region and to engage with regional differences in policy, culture, financing, and other factors.

2.2 STAKEHOLDER MAPPING

Each innovation cycle began with identifying ongoing projects, initiatives, and stakeholders at all levels in the selected regions. The stakeholders were identified through intensive desk research, in which all Mission-relevant projects from the region were identified and then broken down into constituent parts: countries of the actions, topics, and individual stakeholders. These stakeholder lists served as the foundation for planning the Mission Arenas, as relevant stakeholders were invited to co-organise or speak, and also provided the invitation list for general participation. The Mission Arena thematic goal areas were defined based on the challenges and goals addressed by the detected projects and initiatives.

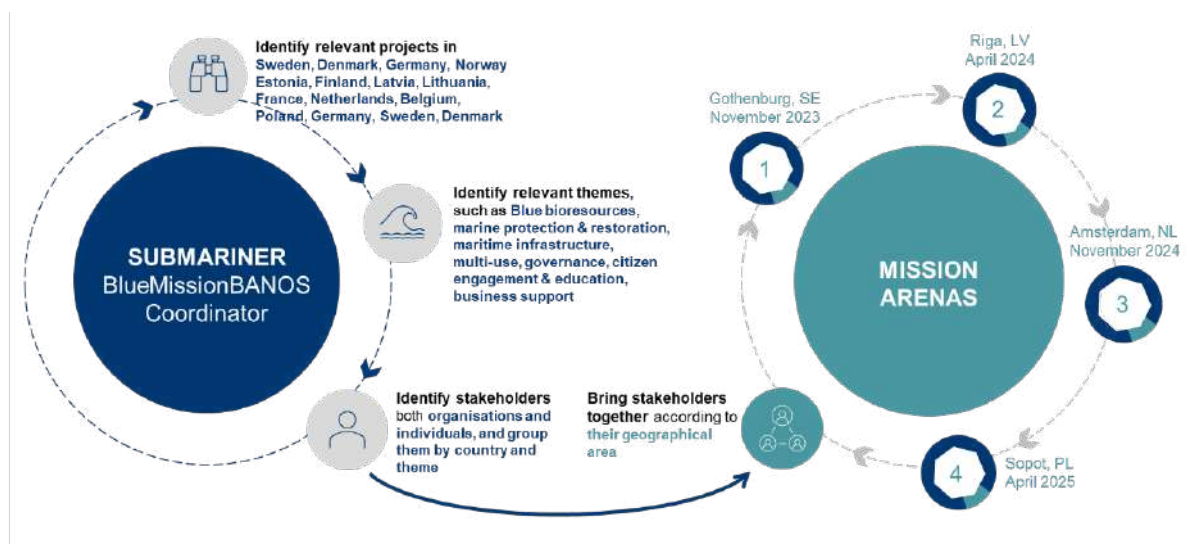


Figure 3 Project and stakeholder mapping process

2.3 CO-CREATION OF ACTION POINTS – BUILDING ROADMAPS

Representatives from detected organisations, representing the broad stakeholders concerned, were collaboratively invited to organise workshop sessions based on identified and agreed-upon common challenges and needs. Workshop sessions were performed at the Mission Arenas, where participants co-created, agreed upon and prioritised the actions needed. The actions were consolidated in four subregional roadmaps. Below, the process of identifying and consolidating action points is described in detail chronologically. This ten-step process was followed at each Mission Arena and represents a central pillar of the BMB approach.

1. Relevant local and regional projects, initiatives and stakeholders were identified through a systematic mapping based on desk research. Overall, more than 450 initiatives were identified at the local, national, regional, and EU levels. This list was used to provide background on key organisations and the focuses of each region.
2. These findings shaped the Mission Arenas' thematic goals, areas to which multiple-stakeholder representatives were invited to multiple preparatory workshops to develop the workshop sessions collaboratively. These stakeholders included R&I-actors, startups, industries, public bodies, and authorities at all levels.
3. These organisers then identified and agreed upon common challenges and needs, collaboratively forming 98 workshop sessions across all four Mission Arenas. These workshops aimed to address these needs and contribute to discussions of the identified action points.
4. Before the Mission Arenas, organisers of the workshops came together to identify draft action points, which were then published in the Mission Arena programmes for participants. These action points were based on the topics of the planned workshops and on the needs assessments.
5. During the four Mission Arenas, a total of 482 speakers then shared and demonstrated their solutions, knowledge and insights, to enable all participants to have the same knowledge base, the foundation for collaboration and agreement.
6. Nearly 1,200 participants, from 44 countries, representing 500 organisations, attended the Mission Arenas in the inclusive open workshops' dialogues. During the Mission Arenas, these participants collaboratively defined challenges and co-created 197 points in the workshop sessions. The co-creation came in the form of discussions, polls, and various other interactive workshop elements.
7. This process resulted in 197 co-created action points that linked needs and barriers to practical, deployment-ready solutions.
8. In the closing plenary sessions, findings from each thematic goal area were presented by thematic rapporteurs, and the most relevant and feasible actions were prioritised according to their impact on the Mission in a voting process that included all Mission Arena participants.
9. The action points identified, developed, and prioritised during each Mission Arena were then published in the four regional roadmaps.
10. These regional roadmaps were disseminated to a variety of stakeholders, including policy-makers at all levels of governance, innovators, researchers, and participants in the Mission Arenas. This dissemination occurred continuously and widely.



Figure 4 Stakeholder representation and themes for the four Mission Arenas

This transparent process ensured both credibility and shared ownership, forming a robust foundation for the regional roadmaps to serve as practical guidelines and enablers for stakeholders at all levels to advance the Mission objectives. The regional roadmaps were shared with all participants, as well as with the EU, national, and regional bodies. BlueMissionBANOS acted as a broker to ensure that the results were embedded in instruments such as INTERREG and Smart Specialisation Strategies, thereby influencing policy, investment, and long-term implementation across governance levels.

3. OVERARCHING SUMMARY OF CROSS-FUNCTIONAL PATHWAYS

In this chapter, the cross-functional pathways are described, based on the four roadmaps that bring together the collective outputs of the four BlueMissionBANOS Arenas, held across the BANOS region from 2023–2025 and which distil the most cross-cutting and transnational actions that are relevant across all Arenas. Cross-functional enabling action is needed for Mission-aligned solutions of all kinds to be scaled, advancing towards the three objectives of the EU Mission: Restore our Ocean and Waters by 2030.

The action points presented below were selected based on their recurrence across multiple Arenas. Only those topics and recommendations that appeared in at least three out of the four regional roadmaps were included. These recurring priorities demonstrate a strong level of transnational relevance and broad stakeholder consensus across sea basins.

The selected actions are those most likely to generate system-wide impact. Many serve as enablers for broader progress, such as improving governance structures, unlocking funding pathways, or embedding ocean literacy in education systems.

The cross-functional implementation pathways described below, supporting sustainable solutions to be piloted, deployed, and scaled before 2030, are structured along five overarching, cross-functional enabling domains:

1. Adaptive governance models & enabling policies
2. Funding and research & innovation (R&I)
3. Finance & investments
4. Engagement & empowerment
5. Knowledge & assets

Based on the phases in the EU Mission “Restore our Ocean and Waters by 2030” Implementation Plan, Phase 1 development and piloting (2022-2025) and Phase 2 deployment and upscaling (2026-2030) each of the five domains is presented along the following structure: Development, Deployment, and Scaling to 2030. This structure designed to ensure a clear progression from early innovation and piloting to full-scale adoption and provides a coherent pathway towards achieving measurable impacts by 2030.

3.1 COMMON THEMES ACROSS THE ARENAS

The four roadmaps share a strong alignment around several core themes that are crucial to advancing Mission Ocean objectives. These include marine protection and restoration, maritime spatial planning and multi-use of sea space, blue bioresources and blue foods, governance and policy coordination, innovation, business support, financial mechanisms, education, skills development, ocean literacy, and monitoring, data sharing, and digitalisation. All Mission Arenas had action points which touched on these core themes, indicating many shared priorities across the entire BANOS region.

Despite the shared focus on these themes, the roadmaps exhibit some regional differences in emphasis. For example, Arena 1 (Western Baltic) places a strong emphasis on blue biomass, particularly low-trophic aquaculture and algae, while Arena 2 (Baltic Proper) prioritises sustainable fisheries and coastal community regeneration. Arena 3 (North Sea) focuses heavily on offshore wind and digitalisation, while Arena 4 (South Baltic) addresses pollution management and emphasises social justice in the transition to the blue economy. However, despite these small differences of focus, several main cross-functional pathways emerge from the analysis of the regional roadmaps as a set.

3.2 CROSS-FUNCTIONAL PATHWAYS

The action points identified in the roadmaps align with five overarching enabling domains that will help drive the necessary system-wide changes for the blue economy. These domains serve as enablers for broader progress, such as improving governance structures, unlocking funding pathways, and embedding ocean literacy in education systems. The action points in each domain are designed to address the most pressing challenges facing the blue economy and marine ecosystems and ensure that solutions are piloted, deployed, and scaled by 2030.

3.2.1 ADAPTIVE GOVERNANCE MODELS & ENABLING POLICIES

- **Development:** Simplification and cross-national alignment of permitting and regulatory procedures. First steps toward harmonised maritime spatial planning (MSP), multi-use solutions, and joint legal frameworks for sustainable blue growth.
- **Deployment:** Establishment of a European framework for ecosystem services and sustainable performance, and introduction of an agriculture–aquaculture framework and policy. Policy pilots will test multi-level governance and adaptive models.
- **Scaling:** Full deployment of adaptive and enabling governance models across the basins, ensuring coherent legal frameworks and standards.
- **2030 Impact:** Enhanced sustainable production of blue bioresources and food; ecologically relevant ecosystem restoration and regeneration; fully integrated MSP with multi-use zones for maritime infrastructures; efficient business and innovation support mechanisms.

3.2.2 FUNDING AND RESEARCH & INNOVATION

- **Development:** Funding schemes go beyond traditional calls, enabling early test sites, demonstration projects, and lighthouse pilots. Targeted R&I addresses carbon-neutral aquaculture, circular blue-green value chains, and pollution reduction technologies.
- **Deployment:** Public–private business models are applied to ecosystem restoration, remediation, and large-scale demonstrators. Research infrastructures in the basins are interconnected to facilitate the acceleration of piloting and replication.
- **Scaling:** Standardisation of emerging products and processes across value chains; broad diffusion of circular economy and carbon-neutral technologies. Basin-wide innovation ecosystems enable replication and large-scale uptake.
- **2030 Impact:** Mature blue economy innovation ecosystems, driven by continuous R&I, with transformative solutions addressing ecosystem protection, pollution reduction, and climate neutrality.

3.2.3 FINANCE & INVESTMENTS

- **Development:** Introduction of innovative public funding instruments and PPPs that de-risk early investments. Stronger alignment between EU and national funding programs (ERDF, EMFAF, LIFE, BlueInvest).
- **Deployment:** Sustainable and multi-use business models promoted across key sectors (aquaculture, offshore renewables, circular bio-based industries). Financial mechanisms are tested in living labs and coastal communities.
- **Scaling:** Unlocking capital across the entire value chain becomes a critical factor. Blended finance and philanthropic contributions complement EU, national, and private investments.
- **2030 Impact:** Secure investment flows across all blue sectors; modern and optimised ports and shipping processes; sustainable infrastructures resilient to future demands.

3.2.4 ENGAGEMENT & EMPOWERMENT

- **Development:** Establishment of participatory governance structures, including living labs, to engage citizens, SMEs, and local communities. Education and training programs prepare a new generation of skilled blue professionals.
- **Deployment:** Test sites and demonstrators integrate citizen participation, particularly in coastal and island communities. Tourism, heritage, and cultural sectors actively contribute to the Mission objectives.
- **Scaling:** Widespread societal adoption of participatory practices, including citizen science for monitoring, awareness campaigns, and vocational training.
- **2030 Impact:** Coastal communities and islands directly benefit from new business opportunities; citizens actively support and monitor ocean health; sufficient skilled workforce ensures competitiveness and resilience of the blue economy.

3.2.5 KNOWLEDGE & ASSETS

- **Development:** Digital Twin Ocean (DTO)-based tools are developed to support evidence-based decision-making. Early integration of monitoring and observation data.
- **Deployment:** DTO and associated data platforms are used in lighthouse regions and test sites. Open access standards are introduced for cross-basin comparability.
- **Scaling:** Widespread adoption of digital platforms and monitoring tools; harmonised data collection ensures interoperability across basins.
- **2030 Impact:** Transparent, evidence-based management of marine and freshwater ecosystems; shared knowledge assets enabling transnational collaboration; data-driven innovation cycles supported at all levels.

3.3 ALIGNMENT WITH MISSION OBJECTIVES BY 2030

The roadmaps emerging from the BMB Arenas provide a comprehensive framework for advancing Mission Ocean's goals. By aligning regional actions under five enabling domains, these roadmaps ensure a coherent, scalable, and transnational approach to all three Mission Ocean objectives. While regional differences shape the specifics of the action points, the common themes and action points underscore a shared vision for the future of our oceans and waters. Through the phased implementation of this roadmap, the North and Baltic Sea basins will contribute directly to the three overarching objectives of the EU Mission:

1. **Protect and restore marine and freshwater ecosystems and biodiversity** – through ecosystem restoration, remediation, and governance frameworks.
2. **Make the blue economy carbon-neutral and circular** – through innovative business models, circular value chains, and standardisation of products and processes.
3. **Prevent and eliminate pollution of our oceans, seas, and waters** – by scaling technologies and R&I that address pollution reduction and prevention.

4. SUMMARY AND OUTLOOK

The BMB roadmaps present a systematic approach to achieving the EU Mission *Restore our Ocean and Waters by 2030* in the Baltic and North Sea regions. These roadmaps are based on a collaborative co-creation process that engaged over 1200 stakeholders from nearly 500 organisations. Through Mission Arenas, participants prioritised 197 action points for advancing sustainable blue economy solutions. This approach ensured that the final outputs represent a broad consensus, effectively blending regional insights with transnational objectives.

The BMB approach allowed for the co-creation of action points within a clear and transparent innovation cycle. This methodology was crucial in fostering regional ownership, promoting cross-border cooperation, and developing a shared vision for a carbon-neutral and circular blue economy. The roadmaps are a valuable tool, as they reflect the specific needs and priorities of the regions within the BANOS basin while aligning with the broader Mission Ocean objectives. This methodology was also used at the Danish Mission Ocean Conference in September 2025 and should be scaled out further in the future as a best practice.

The roadmaps are particularly transnationally relevant, addressing challenges that can only be effectively tackled at the sea-basin scale or through cross-border cooperation. Challenges such as coherent marine spatial planning, MPA network connectivity, green shipping corridors, and joint infrastructure and data strategies all require harmonised efforts across the BANOS region.

Additionally, broad stakeholder support has been a cornerstone of the development of the regional roadmaps. All actions included in the roadmaps were initially developed through interactive, participatory processes that involved a wide range of stakeholders, including researchers, policymakers, industry representatives, NGOs, and citizens. The final action points were then prioritised through voting during the plenary sessions of each Mission Arena, reflecting a high level of support across diverse sectors. This broad support ensures that the actions outlined in the roadmaps have wide-ranging backing, strengthening their potential for successful implementation.

In Phase II of Mission Ocean, the roadmaps will serve as critical tools for the deployment and scaling of the identified solutions. In many cases, these actions will be implemented and identifying them during the Mission Arenas was a key first step. In addition, the roadmaps' cross-functional pathways will be essential enablers for broader progress. The stakeholder-driven approach will ensure that the roadmaps remain relevant, successfully guiding the transition toward a carbon-neutral, resilient, and inclusive blue economy.

4. DATA SET OF SUB-BASIN REGIONAL ROADMAPS

In this final chapter, you will find the dataset of the four Mission Arena roadmaps, developed through the innovation cycle, co-created, and finalised at the four Mission Arenas (MA). These roadmaps, when read together, provide a complete dataset of the action points identified during the innovation cycles during BMB.



Figure 5 Regional Mission Arenas and Roadmaps

The subregional thematic aggregated goals supporting the implementation of the Mission Ocean and Waters, as well as climate adaptation and resilience, are illustrated in the figure below.

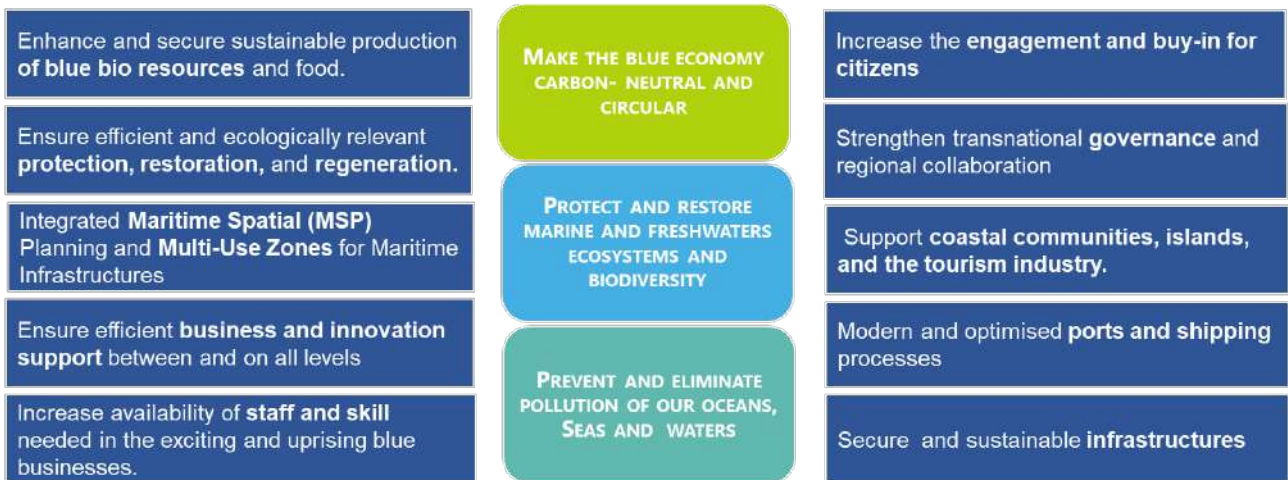
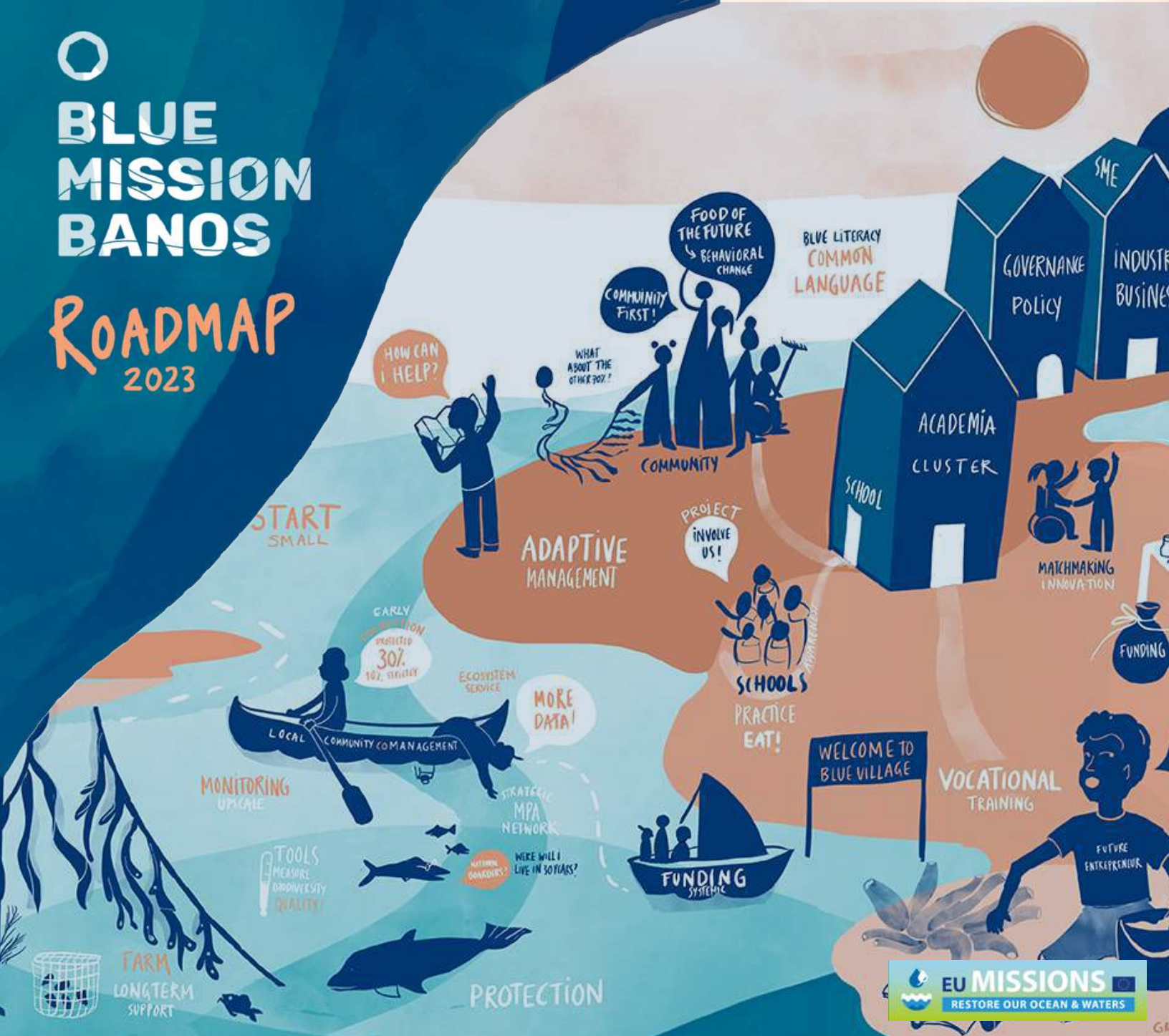


Figure 6 Aggregated thematic goals for the BANOS regions

BLUE MISSION BANOS

ROADMAP 2023



ROADMAP 2030

STEPS FOR EFFECTIVE DEPLOYMENT OF THE MISSION OCEAN & WATERS IN THE ARENA 1 REGION



BLUE MISSION BANOS

ROADMAP 2023



Blue Bio Match



MULTI-USE PARK

NO INSURANCE
NO INFRASTRUCTURE
NO PERMITS
NO COMMERCIAL

VOLUME BLUE BIO MASS
DECOUPLE LICENSING



TRANSNATIONAL



TOURISM

FARM LONG-TERM SUPPORT



MONITORING UPDATE



TOOLS MEASURE BIODIVERSITY QUALITY

EARLY PROTECTION
PROJECTED 30%
10% STRONGER

ECOSYSTEM SERVICE

MORE DATA!

STRATEGIC MPA NETWORK

NATIONAL GOVERNANCE? WHERE WILL I LIVE IN 30 YEARS?

PROTECTION

START SMALL

HOW CAN I HELP?

ADAPTIVE MANAGEMENT

COMMUNITY FIRST!



WHAT ABOUT THE OTHER 90%?

FOOD OF THE FUTURE
BEHAVIORAL CHANGE

BLUE LITERACY
COMMON LANGUAGE

PROJECT INVOLVE US!



SCHOOLS PRACTICE EAT!

WELCOME TO BLUE VILLAGE

VOCATIONAL TRAINING



ACADEMIA CLUSTER



MATCHMAKING INNOVATION



FUNDING



LOCAL PRODUCTS ON THE MARKET

MOTHER CAN I EAT THIS?



FUTURE ENTREPRENEUR



BLUE SPOTIFY

AQUACULTURE
FRESHWATER



RAS

1ST MISSION ARENA IN THE CONTEXT OF MISSION OCEAN

In the framework of the [BlueMissionBANOS](#), a lighthouse project supporting the European Commission's [Mission Ocean](#) "Restore our Ocean and Waters by 2030", the [1st Mission Arena](#) event was organised in Gothenburg, Sweden, from November 14-16th, 2024. The event served as a laboratory to explore innovative blue economy solutions in the Western Baltic (Germany, Denmark, Sweden, and Norway) in line with the project's aim to inspire, engage, and support stakeholders across the Baltic and North Sea to reach a carbon-neutral and circular blue economy.

The eight sub-goals and the actions shown in this document are the result of the discussions held in the 50+ workshops held during the Arena; culminating in the vote taken by the participants in the final Arena assembly on which of them are the most urgent. Hence the actions indicated behind each goal are shown by order to priority.

This Roadmap 2030 is a collective pledge to bring about tangible change in the Baltic and North Seas region, and it serves as a comprehensive guide, outlining the steps the region must take to meet the lighthouse goals and contribute to the broader objectives of the EU's mission.

***This roadmap is a collective
pledge to bring about
tangible change in the Baltic
and North Seas region.***

GOALS

01

To increase sustainable blue biomass production

02

To get more locally produced sustainable blue products on the market

03

To ensure more effective marine protection

04

To bring multi-use solutions with offshore energy into reality

05

To provide effective support to local / regional sustainable blue businesses

06

To increase availability of staff with skills needed

07

To increase the buy-in of citizens

08

To improve Mission Ocean governance and funding efforts



01

TO INCREASE SUSTAINABLE BLUE BIOMASS PRODUCTION



ACTION POINTS



01

Framework Ecosystem Services

Framework (local, national or regional) for quantification and monetisation of Ecosystem Services.

02

Financial Incentives CAP

Framework for long-term financial incentives akin to Common Agricultural Policy.

03

Multi-use setups

Parks for industrial symbiosis (multi-use) setups on land and at sea.

04

Decoupled licensing

Decoupled licensing and monitoring for zero-input / low-trophic from finfish aquaculture.

05

Spatial Plans inclusion

Sites included in spatial plans (both on land and sea) as to promote their strategic placement

06

Joint contracting

Demonstrate cooperatives of farms, pool resources and combine biomass to increase volumes to allow joint contracting to large industry.

07

Low-trophic cultivation in MPAs

Allow low-trophic cultivation as ocean regeneration in (or alongside) MPAs.

08

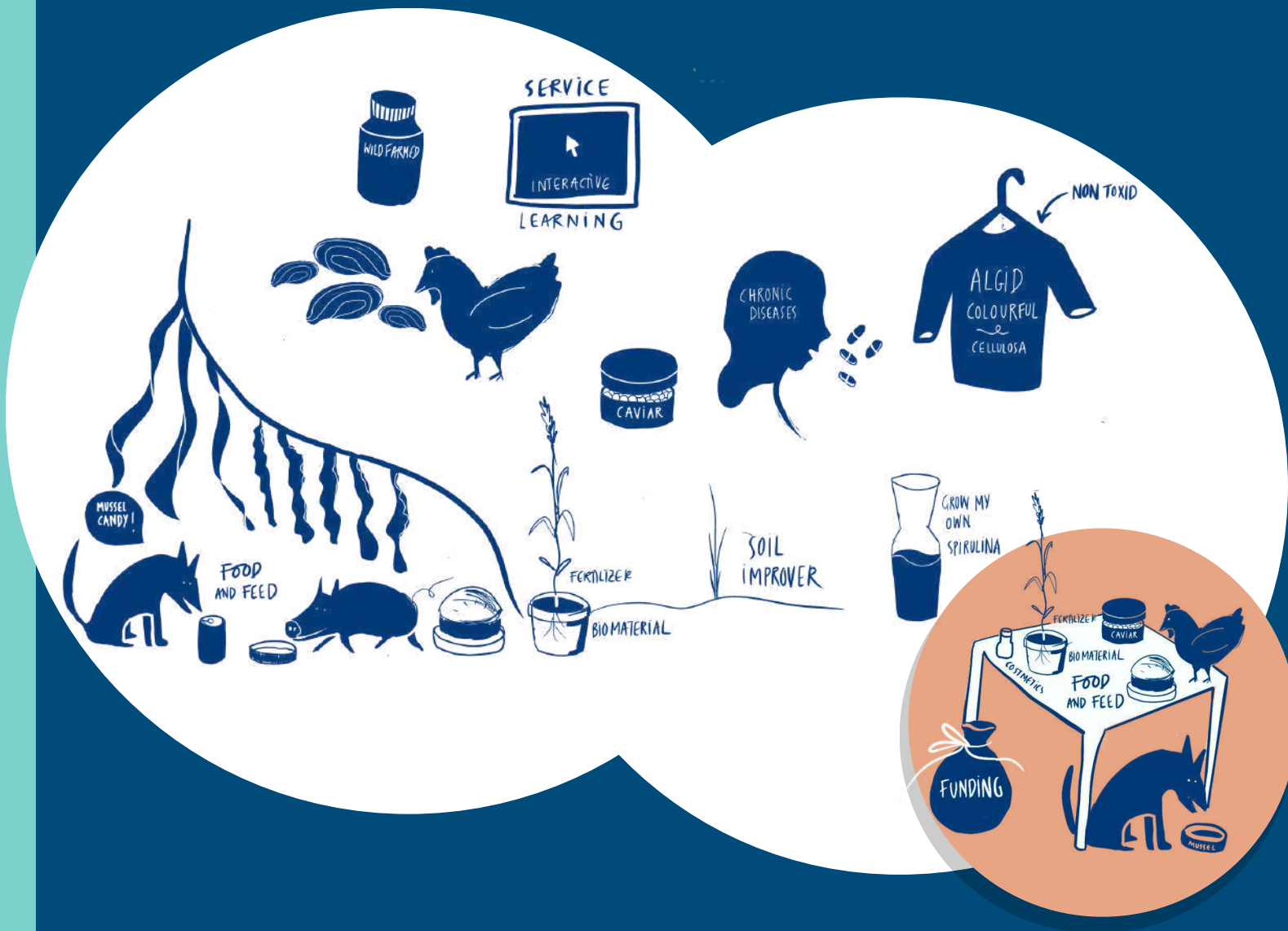
EU-RAS regulatory framework

EU-standardised RAS regulatory framework and system approach (i.e. meetings for inter-departmental and cross-regional alignment).



02

TO GET MORE LOCALLY PRODUCED SUSTAINABLE BLUE PRODUCTS ON THE MARKET



ACTION POINTS

01

Alternative local blue biomass

Develop new products from alternative local blue biomass: e.g. by-catch; new species like seagrass, AND processing side-streams.

02

Replace feed imports

To replace feed imports from overseas, incentivize blue/green transition in production and use of feed components with local resources.

03

Standardisation of new products

Promote standardisation of new products and processes to scale up products, including circular products, promote transparency and consumer trust.

04

Impact Assessment Tools

Develop streamlined and robust impact assessment tools, to enhance circularity of blue/green product systems, including environmental externalities such as ecosystem service valuations, biodiversity effects.

05

New products of medium and high-added value

Support accelerating product developments of new medium and high-added value blue products e.g. bioprospecting programmes for bio-actives from algae.

06

Incentives for circular products

Create incentives to produce more circular products, even though not perfect, e.g. circular plastics paradigm.

07

De-risk supply chain

To de-risk supply chain, increase visibility of biomass suppliers to product developers and manufacturers.

08

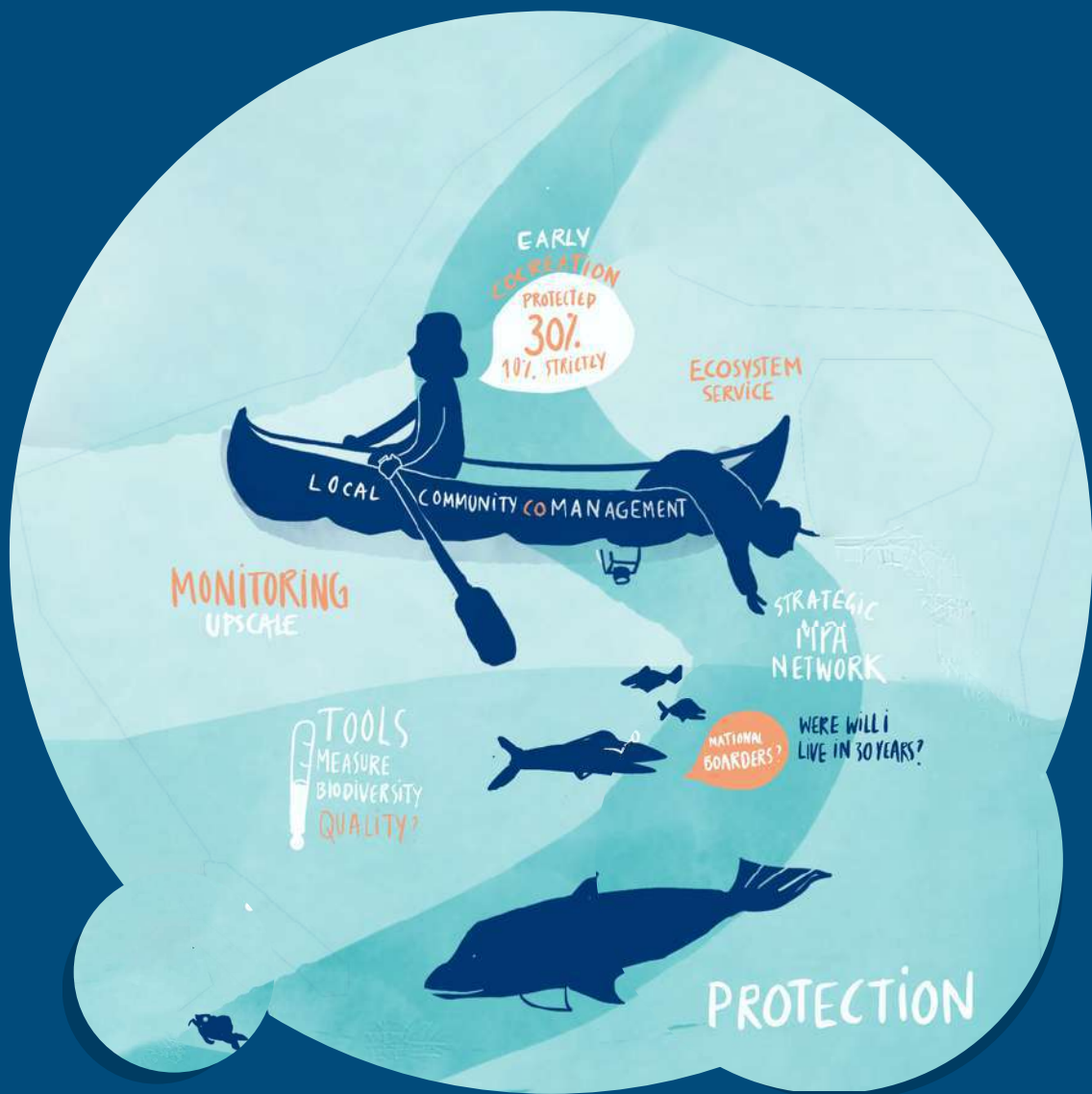
Omnivorous fish species culture

Promote culture of omnivorous fish species (e.g. tilapia, catfish, barramundi) over carnivorous to reduce the demand for fish meal and fish oil.



03

TO ENSURE MORE EFFECTIVE MARINE PROTECTION



ACTION POINTS



01

Sufficient funding

Provide sufficient funding for local implementation and management of MPAs.

02

Start ASAP

Start with 'something' – even small and as soon as possible rather than waiting for comprehensive solutions.

03

Empower local communities

Empower / devolve the establishment, management, monitoring of MPAs to local communities (making use of any kind for good practices elsewhere).

04

Mainstream biodiversity protection

Mainstream biodiversity protection into national / regional MSPs and other sectoral policies.

05

Upscale monitoring technologies

Upscale monitoring technologies to improve effectiveness of strictly protected areas.

06

Better connected and functional MPA networks

Use the transnational HELCOM framework to establish better connected and functional transnational/regional MPA networks, with proper Management Plans.

07

Make tools available

Synthesise the variety of individual tools to help decision making on MPAs and advise on how to use them.



04

TO BRING MULTI-USE SOLUTIONS WITH OFFSHORE ENERGY INTO REALITY



ACTION POINTS

01

Regulatory incentives

Clarify the multi-use permitting processes and provide suitable regulatory incentives e.g. multi-use as a non-financial tendering criteria, or as a permit condition.

02

Multi-use in MSP

Integrate offshore multi-use in maritime spatial plans.

03

Multi-use portfolio

Identify where and what type of multi-use combinations should take place taking into consideration the socio-economic and environmental benefits.

04

Multi-use parks

Set up 'multi-use parks' with clear government support in terms of the permits & insurance but also necessary infrastructure - providing anchors & docking facilities, using buoys to mark the boundaries of multi-use areas in order to reduce costs & risks.

05

Mainstream multi-use into policies

Mainstream the ocean multi-use concept into relevant sectoral policies (e.g. offshore wind development strategies).



05

TO PROVIDE EFFECTIVE SUPPORT TO LOCAL / REGIONAL SUSTAINABLE BLUE BUSINESSES



ACTION POINTS

01

Improve policy framework

Improve the policy framework for aquaculture farmers to be on-level with traditional food and biotech sectors and fast-track approval processes.

02

Support collaboration & co-creation

Support collaboration and co-creation between academia, startups & private sector incl. support for the systems, actors & platforms that facilitate this.

03

Advisory services

Establish outreach advisory services that provide support directly to municipalities / local communities wanting to explore opportunities for developing local & circular blue biobased value chains & also information about funding.

04

New public funding instruments

De-risk and incentivise investments through new public funding instruments and/or public-private partnerships to support all stages of development from research to implementation.

05

Increase demonstration sites

Increase the number of test and demonstration sites, both on land and in the sea. Provide more open and affordable access to them.

06

Reduce nutrient loading risk

Address incentives / disincentives between agriculture and aquaculture regarding nutrient loading and mitigate risks in innovative approaches.

07

Community engagement

Foster and support community engagement, build skills and support local new business models that can link to valorization of ecosystem services.

08

Increase value generation visibility

Increase the visibility of value generation through blue value chains and support the adoption of innovative approaches for diversifying revenues for existing and new businesses.



06

TO INCREASE AVAILABILITY OF STAFF WITH SKILLS NEEDED



ACTION POINTS

01

Vocational training

Create dedicated vocational and lifelong learning training programs to up- and re-skill workers to exploit the opportunities in the blue sector.

02

Academia & industry collaboration

Build direct collaboration between academia and industry via internships and project-based classes.

03

Integrate pupils in research projects

Integrate pupils into current research projects, to spark interest and pave way for careers in the blue bioeconomy sector.

04

Collaboration with private sector

Joint efforts by research, university, & clusters as agents of innovation to encourage collaboration with the private sector.

05

Constantly update teaching materials

Develop and constantly reevaluate teaching materials to keep them up-to-date and easily adaptable by teaching staff.

06

Update universities' KPIs

Update KPIs of universities to include more innovation, tech transfer, and entrepreneurship support factors.

07

Support innovation clusters

Invest in innovation-supporting clusters that pool resources (as skills) to make them accessible to new blue start-ups.

08

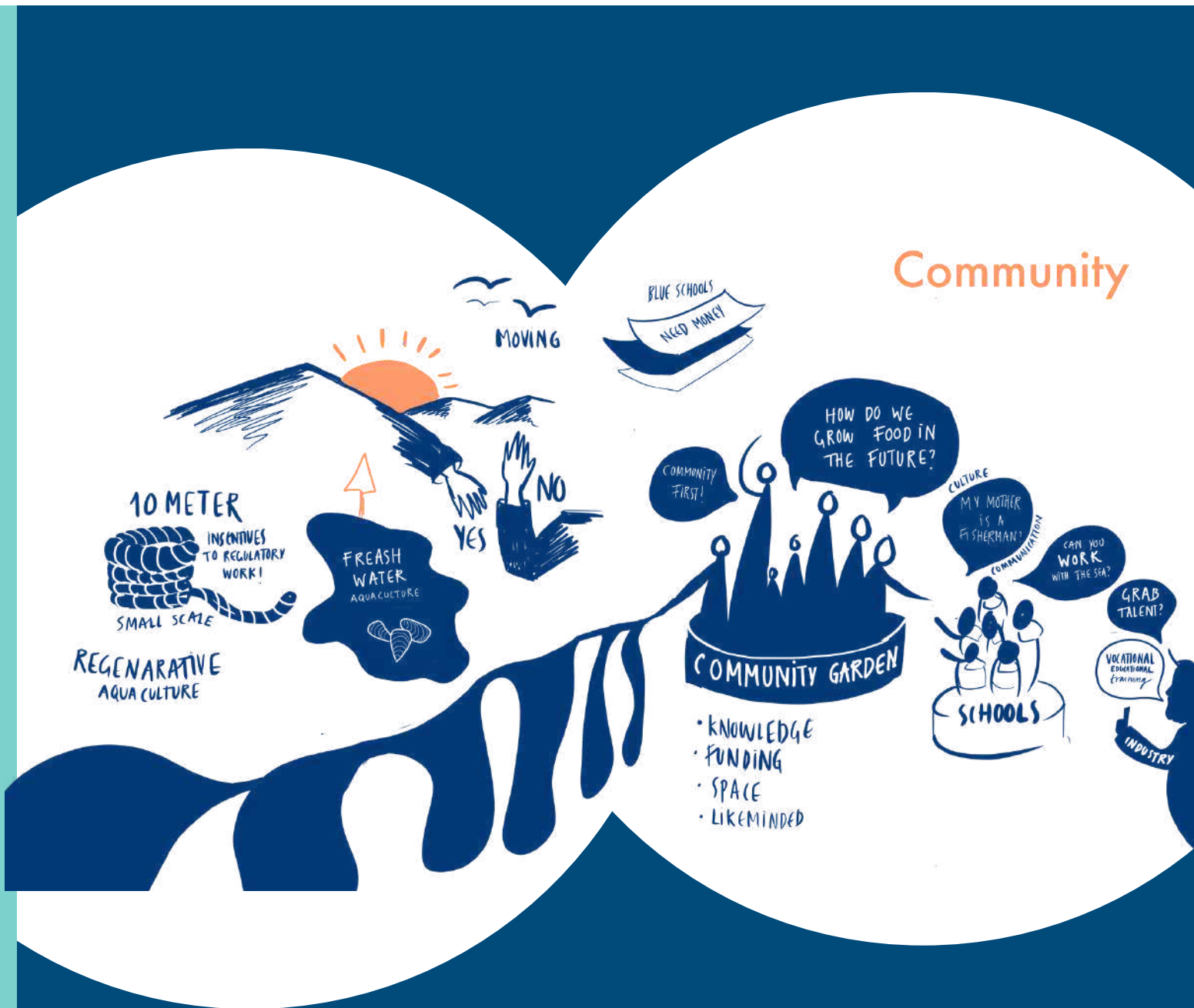
Increase opportunities for women

Abolish gender gaps including increase of opportunities for women to be at management roles.



07

TO INCREASE THE BUY-IN OF CITIZENS



TARGETS/ ACTION POINTS



01 **Involve students in innovative projects**

Involve students actively in professional and innovative projects related to blue economy to inspire them and give the opportunity to develop the necessary skills and gain the interdisciplinary knowledge.

02 **Bridge between citizens and professionals**

Make the bridge between citizens and professionals by adjusting our language to understand the two-directional message.

03

Dialogue between different actors

Create and strengthen the interaction and dialogue between citizens, students, researchers, industry and policymakers locally to make it more relevant for citizens.

04

Ocean topics in school curricula

Explore, in collaboration with students and teachers, the opportunity to integrate ocean-related topics into the school curriculum in order to build knowledge capacity at different educational levels.

05

Back-to-back school programmes

Use back-to-school programmes, where you take experts from different fields and backgrounds to teach at schools and give professionals the chance to learn how to engage and understand children and students.

06

Tools for citizens

Besides creating interaction with citizens and creating a platform, we also need to provide the tools to understand the conversation and adjust your behaviour or understanding of the topic.



08

TO IMPROVE MISSION OCEAN GOVERNANCE AND FUNDING EFFORTS



ACTION POINTS

01

Unlock funding across value chain

Unlock funding across the entire value chain, focusing on systematic funding for implementing “good solutions” and increasing the continuity of existing projects and initiatives rather than only focusing on new ones.

02

Region-specific solutions

Create solutions that are region-specific: support actors from politics, science, industry, and society in forming living labs to test new approaches. Flexible, adaptive governance structures are key to supporting this endeavour.

03

New governance structures

Create new governance structures at vertical (inter-ministerial and intergovernmental) AND horizontal (transdisciplinary and trans-sectoral) levels to engage local, regional and national authorities (e.g., establish Mission Hubs and Mission Ocean Managers).

04

Roundtable of funders

Pilot a round table of funders (public and private) to discuss approaches to fund concrete Mission Ocean relevant actions, i.e., marine litter, aquaculture, ocean regeneration, and sustainable fishing gear.

05

Better knowledge transfer

Foster better knowledge transfer and communication. Make use of the wealth of available scientific knowledge to reach Mission Ocean’s objectives.

06

Multiply opportunities

Orient the goals of existing regional and local structures to align with Mission Ocean’s objectives. Utilize Mission Ocean as a collective experiment to multiply opportunities and increase stakeholder engagement.

07

Contribute to BMB database

Consult and contribute to the BlueMissionBANOS database of Mission-relevant projects including projects funded by national and philanthropic organizations.



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We would like to thank all 400 participants at the 1st Mission Ocean Arena, as well as all speakers and panelists who helped us lead the workshops. A special thanks goes to all those who contributed to making this event a success.

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IVL

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ROADMAP 2030: STEPS FOR EFFECTIVE DEPLOYMENT OF THE MISSION OCEAN



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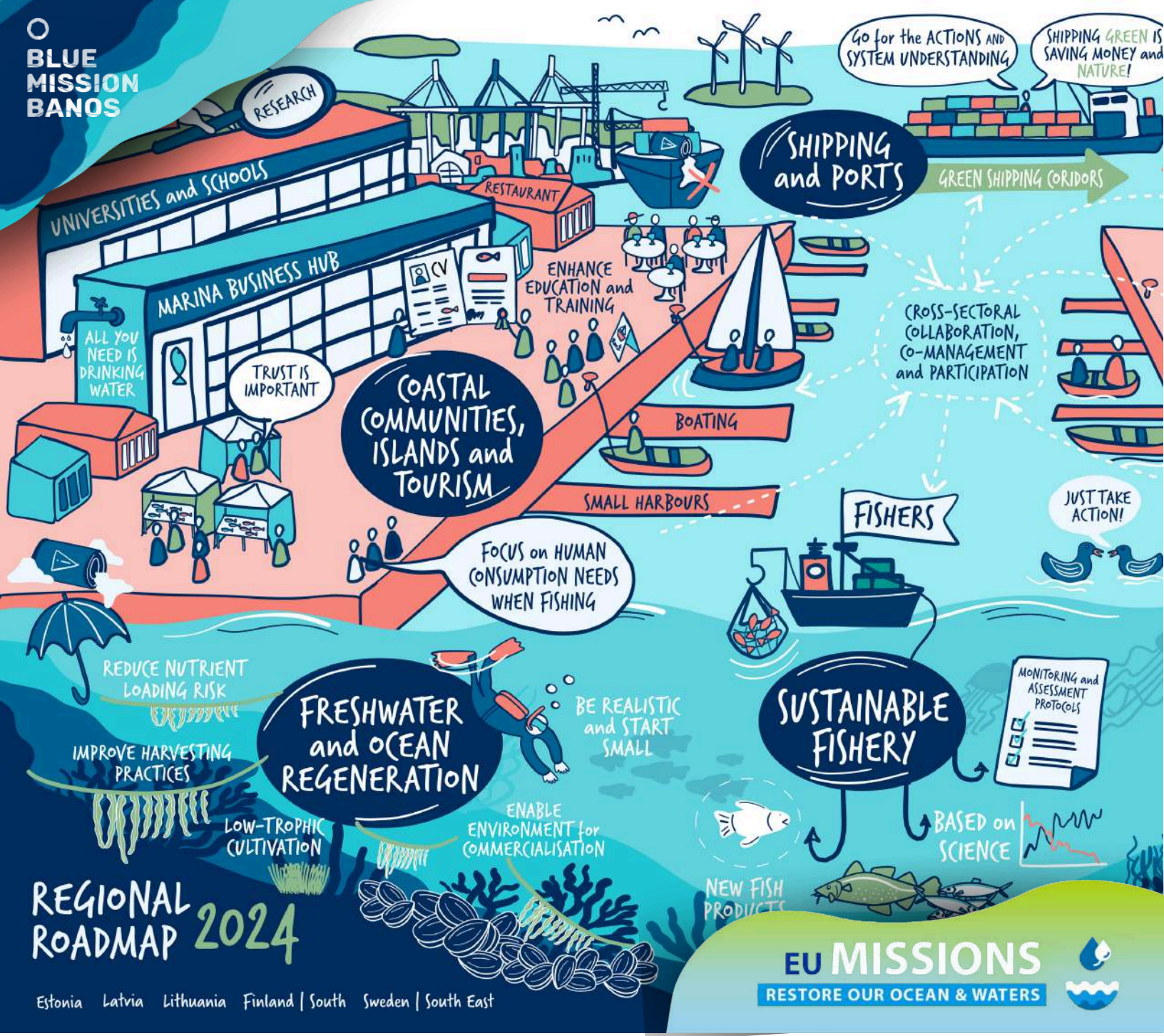
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BLUE MISSION BANOS





REGIONAL ROADMAP 2024

Estonia Latvia Lithuania Finland | South Sweden | South East

ROADMAP 2030

STEPS FOR EFFECTIVE DEPLOYMENT OF THE MISSION OCEAN & WATERS



ARENA 2 REGION: ESTONIA, LATVIA, LITHUANIA, SOUTH FINLAND & SOUTH-EAST SWEDEN



Go for the SYSTEM UN

SHIPPING and PORTS

UNIVERSITIES and SCHOOLS

MARINA BUSINESS HUB

RESTAURANT

ENHANCE EDUCATION and TRAINING

COASTAL COMMUNITIES, ISLANDS and TOURISM

BOATING

SMALL HARBOURS

FISHER

FOCUS on HUMAN CONSUMPTION NEEDS WHEN FISHING

SUSTAINABLE FISHERY

FRESHWATER and OCEAN REGENERATION

BE REALISTIC and START SMALL

ENABLE ENVIRONMENT for COMMERCIALISATION

NEW FISH PRODUCTS

VS. TRADITION and H

REDUCE NUTRIENT LOADING RISK

IMPROVE HARVESTING PRACTICES

LOW-TROPHIC CULTIVATION

REGIONAL ROADMAP 2024

Estonia Latvia Lithuania Finland | South Sweden | South East



ABOUT THE 2ND BLUE MISSION BANOS ARENA HELD ON 25TH/26TH APRIL 2024 IN RIGA

The BlueMissionBANOS coordination and support project aims to inspire, engage, and support all relevant actors and initiatives across the Baltic and North Sea Lighthouse Area to take the necessary actions to make the Blue Economy carbon-neutral and circular while eliminating pollution and restoring biodiversity. These are the core objectives of the EU Mission Ocean, "Restore our Ocean and Waters by 2030."

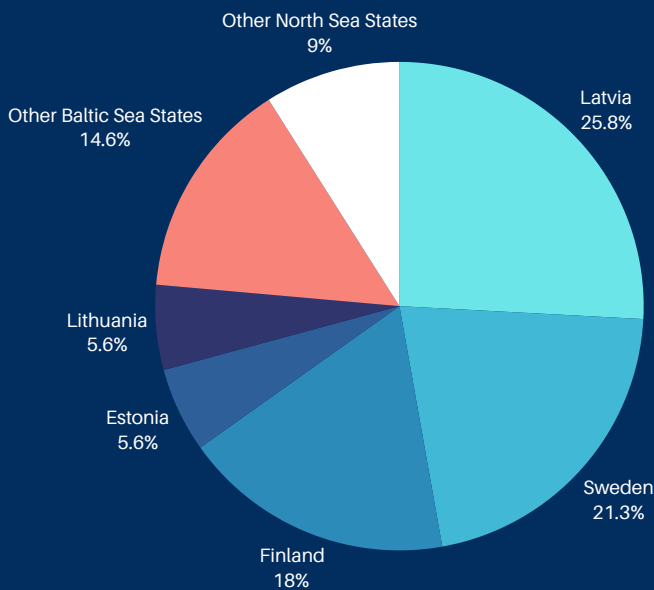
To this end, the 2nd BlueMissionBANOS Arena event held in Riga brought together around 200 regional actors from Latvia, Lithuania, Estonia, Finland, Sweden, and beyond. Over the course of the two-day event, participants and speakers exchanged in fifteen diverse workshops on existing initiatives, lessons learned, knowledge to be transferred and the most pressing remaining issues to be tackled in their region regarding the effective deployment of the Mission. The results of these discussions culminated in a stakeholders' assembly, in which all participants had the opportunity to vote on the priority ranking of actions discussed, fine-tuned, and suggested within these workshops.

This Roadmap is the result of this process and presents the top action points for the coming years in the order of priority as voted on by the Arena 2 participants. The action points are organised around the following six thematic fields of the Arena: (1) freshwater and ocean regeneration; (2) marine protection, planning & policy; (3) sustainable fishery; (4) coastal communities, islands & tourism; (5) shipping & ports, and (6) business support.

**89 participants
voted on the
final roadmap
for the Arena 2
region**

ARENA 2 PARTICIPANTS

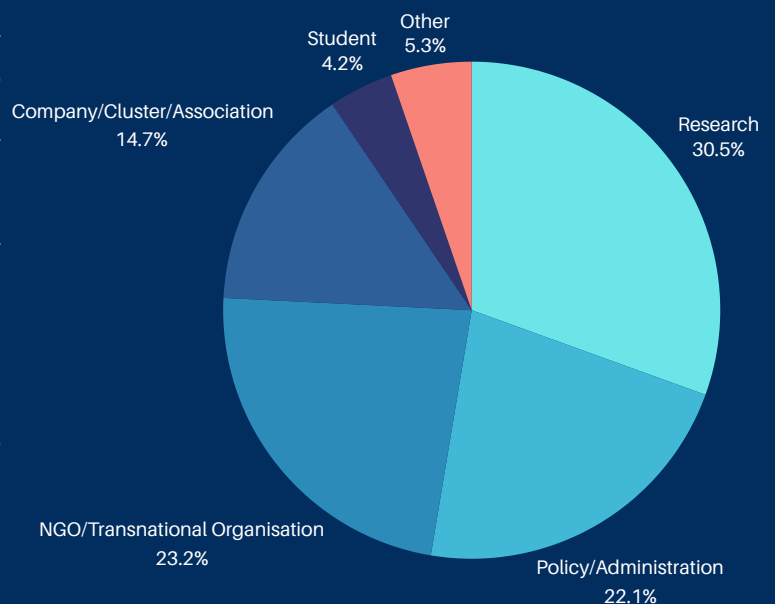
Where are our participants based?



Of the eighty-nine participants who voted in our final Stakeholders' Assembly, over three quarters were from the Arena 2 region, with the highest participation from Latvia, Sweden, and Finland. Over ninety percent of the voting participants were from the Baltic Sea region.

Our Arena 2 participants come from a variety of sectors representing all sides of the blue economy. Of the participants who voted in the final Assembly, 30.5% work in research, 23.3% work in NGOs or transnational organisations, and 22.1% work in policy or administration. In addition, 14.7% of our participants come from a business background and 4.2% are students.

What type of work do our participants do?



GOALS

01

Restore and regenerate oceans and freshwater.

02

Improve and extend marine protection, planning, and the policy framework.

03

Extend and improve the sustainability of fisheries.

04

Support coastal communities, islands, and the tourism industry.

05

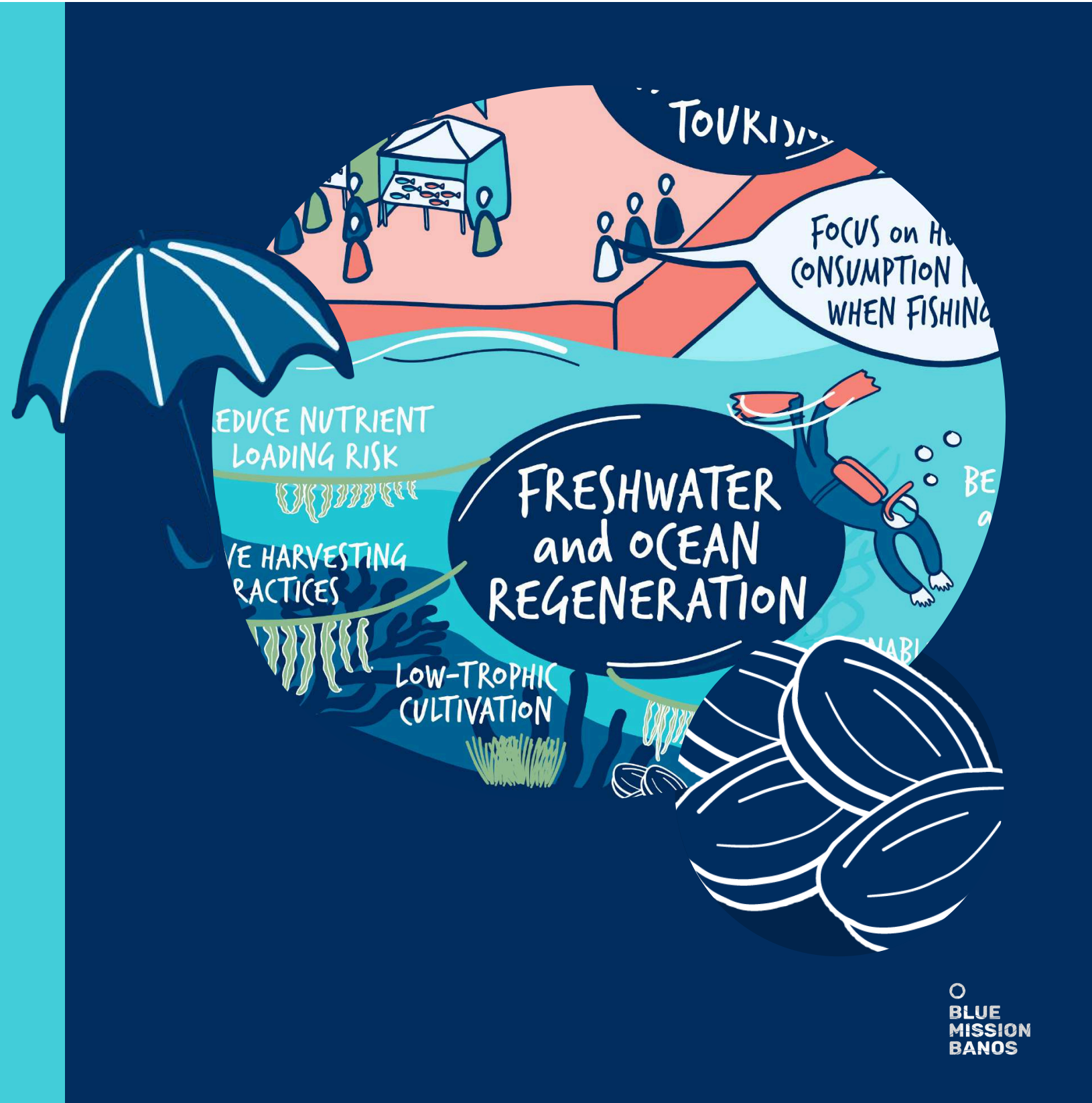
Modernise ports, harbours and shipping processes to be more green.

06

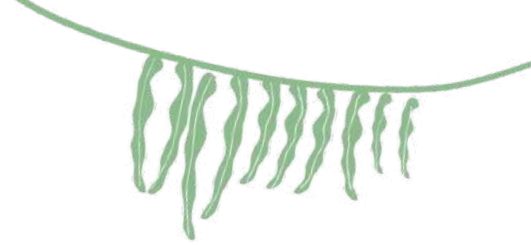
Increase support for blue businesses and related skills development.



FRESHWATER AND OCEAN REGENERATION



ACTION POINTS



01

Develop and implement nature-based solutions: Use the best available knowledge, assess all possible effects, collaborate extensively with stakeholders, have clarity in responsibilities, raise awareness and educate.

02

Aim for a supportive policy framework: Streamline licensing procedures; promote local algae and mussel products; apply the polluter pays principle more widely.

03

Co-management of water bodies: Cooperate with local communities in management activities; present good examples of actions widely; align data needs of stakeholders.

04

Start small, otherwise you will not start at all!
As simple as that.

05

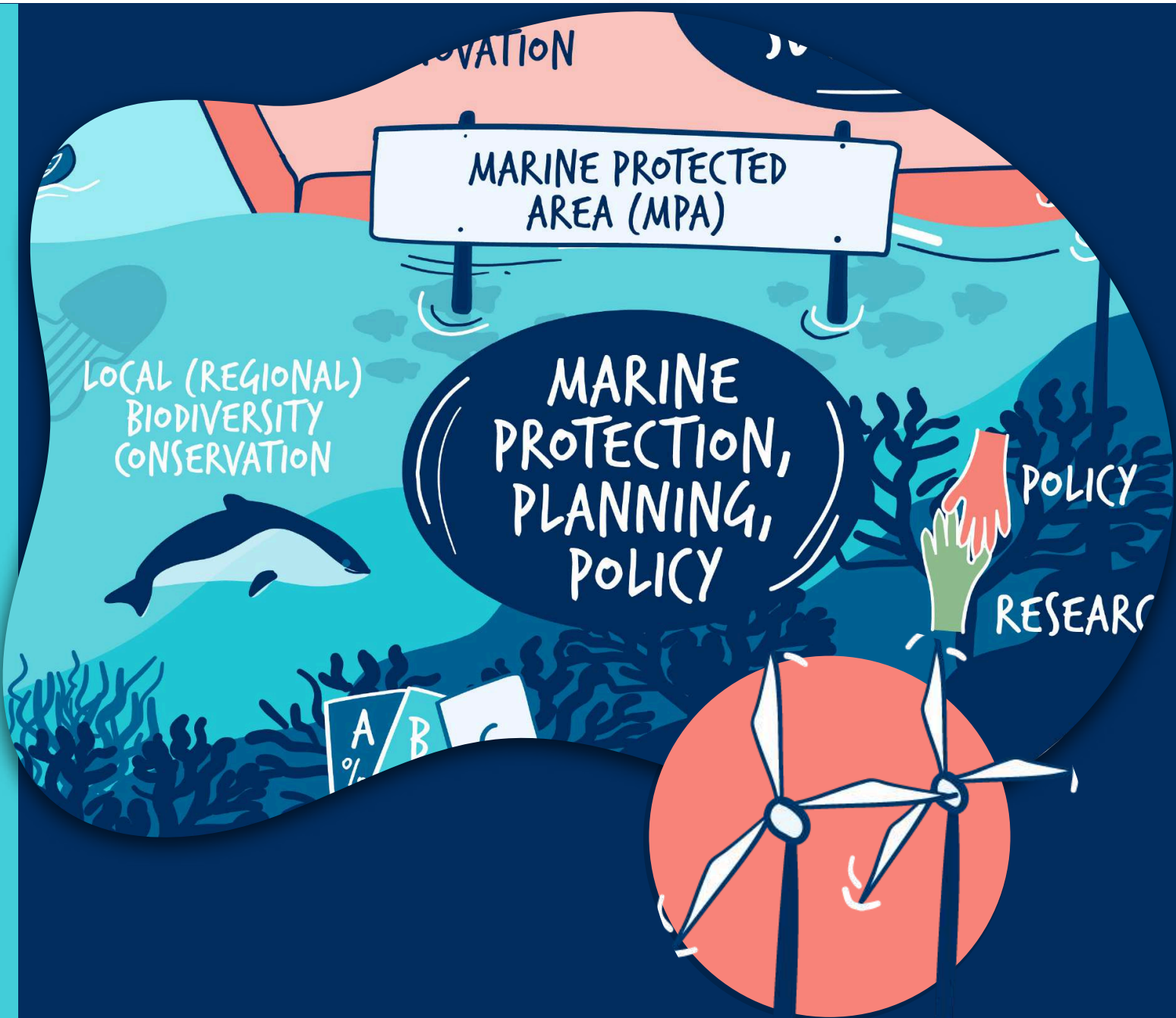
Enable the environment for commercialisation: Identify & support viable business cases through existing business support institutions; allocate more testbeds; promote standardisation for consumer safety.

06

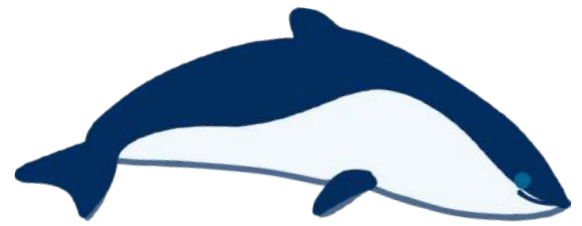
Improve monitoring processes: Aim for procedures showing environmental benefits of algal and mussel farms, use citizen science, align the monitoring requirements of various nature restoration activities.

02

MARINE PROTECTION, PLANNING & POLICY



ACTION POINTS



01 **Include all stakeholders in the MPA processes** from the start, in particular from currently underrepresented sectors such as business (e.g. extractive sector), local communities and fisheries.

02 **Empower the local communities** through ocean literacy and co-management schemes on the establishment, management, and monitoring of MPAs, including initiatives such as blue community gardens, citizen science and active management with fishers.

03 Start implementing **strong and clear communication, education and provide regular information** on marine conservation needs and measures, including their cost-effectiveness, bringing positive perspectives of MPA establishment and effective management.

04 **Improve integration of MSP processes** with land-based activities and planning to ensure better assessment and inclusion of land-sea interactions.

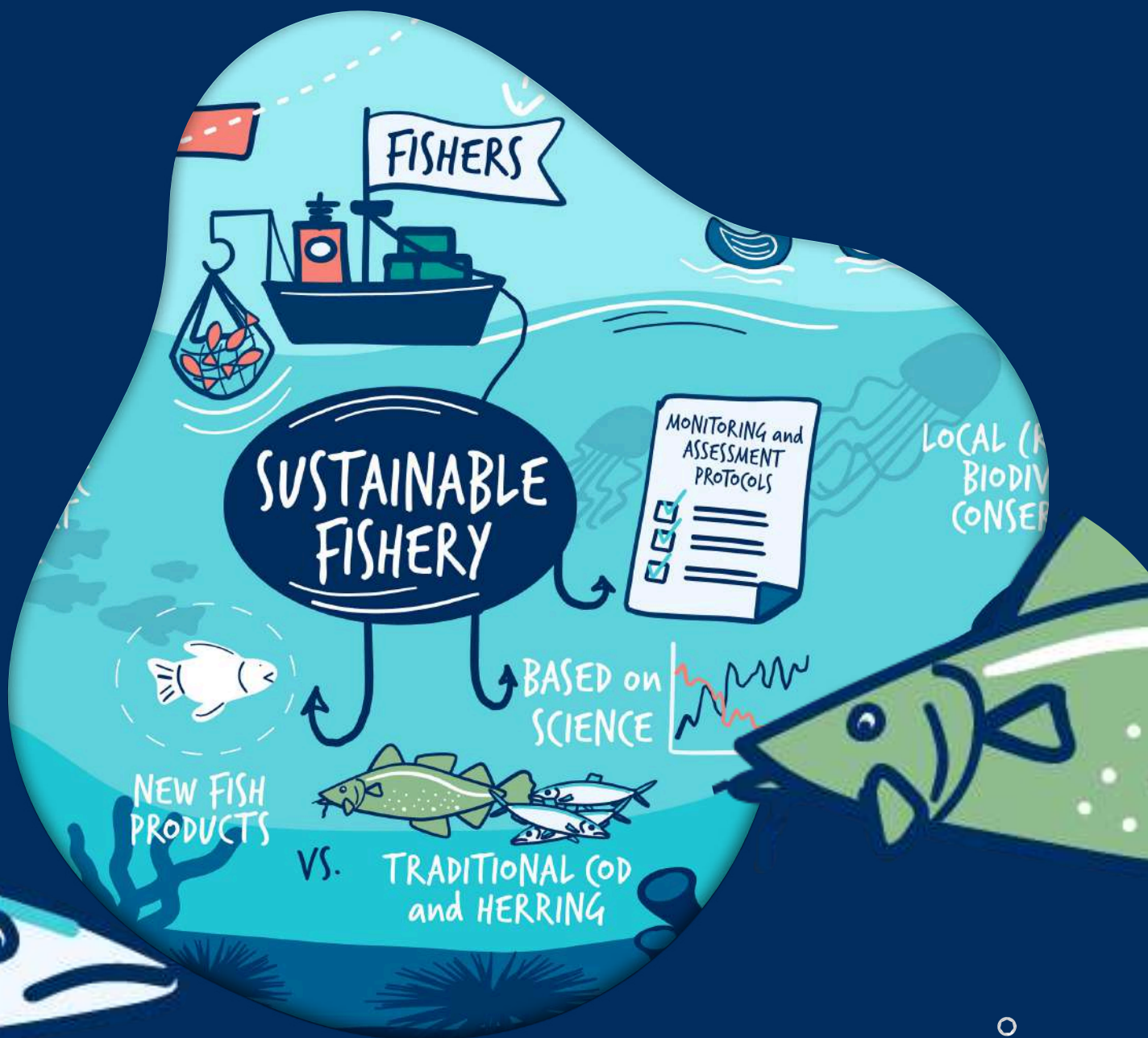
05 **Focus on expanding marine protection** regionally, working towards achieving coherent and effective pan-Baltic MPAs, with particular consideration of ecological connectivity and land-sea interactions.

06 **Strengthen MSP as a policy instrument** on different levels (EU/national/local) for efficient implementation of the ecosystem-based approach and better coordination with and mainstreaming of marine protection policies.

07 **Integrate policy and research efforts** across land and marine realms to effectively tackle pervasive environmental issues in the Baltic Sea.

08 **Coordinate the design** of local and regional conservation and restoration actions to guarantee their successful implementation.

SUSTAINABLE FISHERY



ACTION POINTS



01

Fisheries management should be based on science and be built on solid data from regional and transnational cooperation, rather than political and economic interests.

02

Focus more on small-scale and local coastal fisheries, limiting multi-national large-scale industrial fishing in the Baltic Sea.

03

Present the science in a clear way that cannot be distorted to fit individual countries' fisheries policies and the economic interests tied to these policies.

04

Promote new fish products as an alternative to traditional fish species such as cod and herring. We need to develop new products that fit consumer preferences and simultaneously raise consumer awareness.

05

Fishing should focus more on human consumption and less on supplying industrial fishmeal producers.

06

Promote economic opportunities for coastal fisheries to fish invasive species such as Round Goby. Specifically, we should provide funding for fisheries to invest in adapted fishing fleets and gear and to test more sustainable fishing methods.

04

COASTAL COMMUNITIES, ISLANDS AND TOURISM



ACTION POINTS



01

Apply strategic planning at the local, regional, & international levels to balance coastal tourism and boating with environmental & social impacts. It is vital to recognise that a place visited is a resource that must be actively managed.

02

Strengthen data collection and analysis: Support comprehensive studies to understand coastal communities' economic, social, and environmental impacts to inform policy decisions and prioritise funding for sustainable tourism initiatives.

03

Facilitate stakeholder collaboration to empower communities and promote circular business models in collaboration with authorities, NGOs, and tourism actors to achieve common goals.

04

Education, awareness and responsibility are key to creating a culture of responsible tourism and working strategically with challenges.

05

Enhance marinas' role in community development: Collaborate with local stakeholders and communities to tailor strategies addressing marinas' unique needs, fostering job creation & sustainable growth.

06

Promote sustainable boating practices: Urge the adoption of sustainable leisure boating practices (including infrastructure for alternative fuels and charging) to minimise the environmental impact.

07

Maximise the potential of marinas and coastal areas as business hubs, attracting SMEs and providing opportunities for youth engagement in maritime professions and recreational activities geared towards sustainability.

08

Diversify tourism seasons and activities: Encourage the development of off-season tourism by promoting local culture and environment.

05

SHIPPING & PORTS



ACTION POINTS

01

Invest in infrastructure: Upgrade port facilities, improve recycling facilities, enhance power transmission capacity, and develop storage solutions to support the growth of green shipping.

02

Create a more universal definition of Green Shipping Corridors to improve the frameworks, incentives, and monitoring opportunities in the shipping industry across the entire value chain.

03

Address existing loopholes in the governance of the shipping industry through improving the policy frameworks, financial support mechanisms, permitting, and cross-border regulations.

04

Educate the public & engage with stakeholders on the effect of the shipping industry on green goals. This includes increasing communication, education programmes, and organising stakeholder workshops on all levels of the value chain.

05

Improve access and support of green fuel sources by working with intergovernmental institutions, national ministries, stakeholders, and citizens.

06

Engage with private sector actors through partnerships and effective communication to ensure that financial input, new technologies and approaches are carried forward into the future and utilised on the ground.

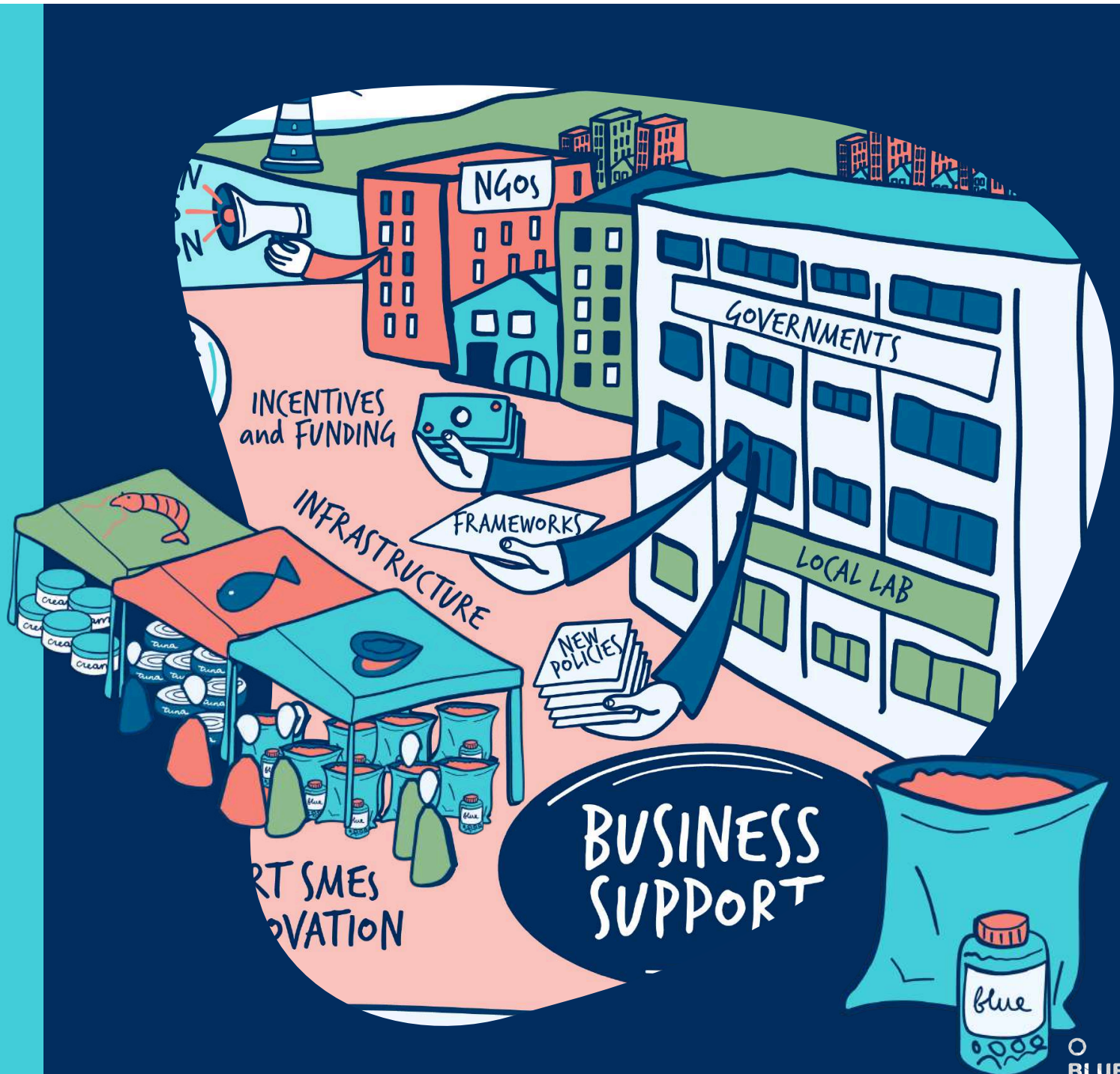
07

Provide incentives for new collaborative approaches between stakeholders, beyond today's market forces on the regional, national, and global level, for establishing green shipping corridors.



06

BUSINESS SUPPORT



ACTION POINTS

01

Promote sustainable business models: Use climate change projections to assess the impact on the Baltic and create a business case for ecosystem-positive solutions, as well as incentives to finance them.

02

Foster innovation and research: Allocate funding for technology development, research on low-trophic aquaculture, side-stream valorisation, and incentivise collaboration between academia, industry, and government.

03

Establish a unified regulatory framework: Streamline permitting processes and harmonise standards across sectors. Simplify approval of new compounds to incentivise innovation and consumer awareness in the EU internal market.

04

Enhance education and training: Integrate blue education from primary school to attract talent. Foster collaboration between universities and the blue sector to promote entrepreneurial skills development amongst young graduates.

05

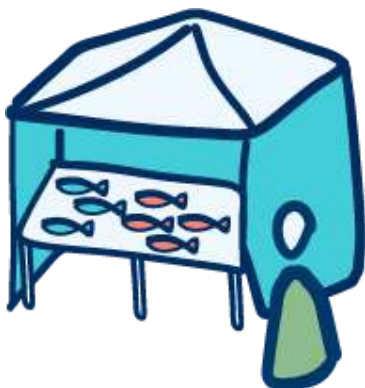
Support startups and SMEs beyond pilots: Provide financial assistance, mentorship programmes, and market access to help startups and SMEs overcome barriers to innovation. Organise support for scaling up to ensure sustained growth.

06

Promote stakeholder collaboration: Facilitate communication and cooperation among industry, scientific communities, and government agencies. Promote face-to-face interactions & make information accessible and relatable to non-experts.

07

Increase consumer awareness: Educate consumers about nutritional and environmental benefits of local species and sustainable production methods (aquaculture, local fisheries). Use creative methods and arts to shift consumers' perspectives.



08

Strengthen regional cooperation: Establish cross-border partnerships and knowledge-sharing platforms (e.g., [BlueBioMatch](#)). Use Smart Specialisation Strategies to put blue innovation on the agenda and link it with wider regional development priorities.

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We would like to extend a thank you to everyone who participated in our second Mission Arena in Riga, Latvia with a special thanks to workshop organisers, speakers, and our BlueMissionBANOS Arena 2 team.

SUBMARINER Network Team at Arena 2

Angela Schultz-Zehden, Alberto Terenzi, Annika Steele, Ferdinand Bulmer, Frances Klatt, Frederick Bruce, Ivana Stojanovic, Katharina Kurzweil, Lotta Torvelainen, Mariia Pospelova, Marko Kovacevic, Mats Heitzmann, Maya Miltell & Silvia Tosatto.

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**Thank you for your
continued support for the
EU's Mission Ocean & Waters**



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**BLUE
MISSION
BANOS**

ROADMAP 2030: Steps for the effective deployment of Mission Ocean in the Arena 2 Region



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BLUE MISSION BANOS





ROADMAP 2030

STEPS FOR EFFECTIVE
DEPLOYMENT OF THE
MISSION OCEAN & WATERS



MISSION ROADMAP



NORTH SEA ARENA

CO-CREATE

CO-DESIGN

CO-FINANCE
(Funding)

CO-OWN

Data
Monitoring

Protection

Collaboration

Innovation

Pilots

OFFSHORE
WIND / MULTI
USE

Nature
based Solutions

DIGITAL &
SECURE
OCEAN

MARIPARK

+21Gw

ZEEKER
WETEN!

Academy

MISSION
OCEAN

Draw
up!

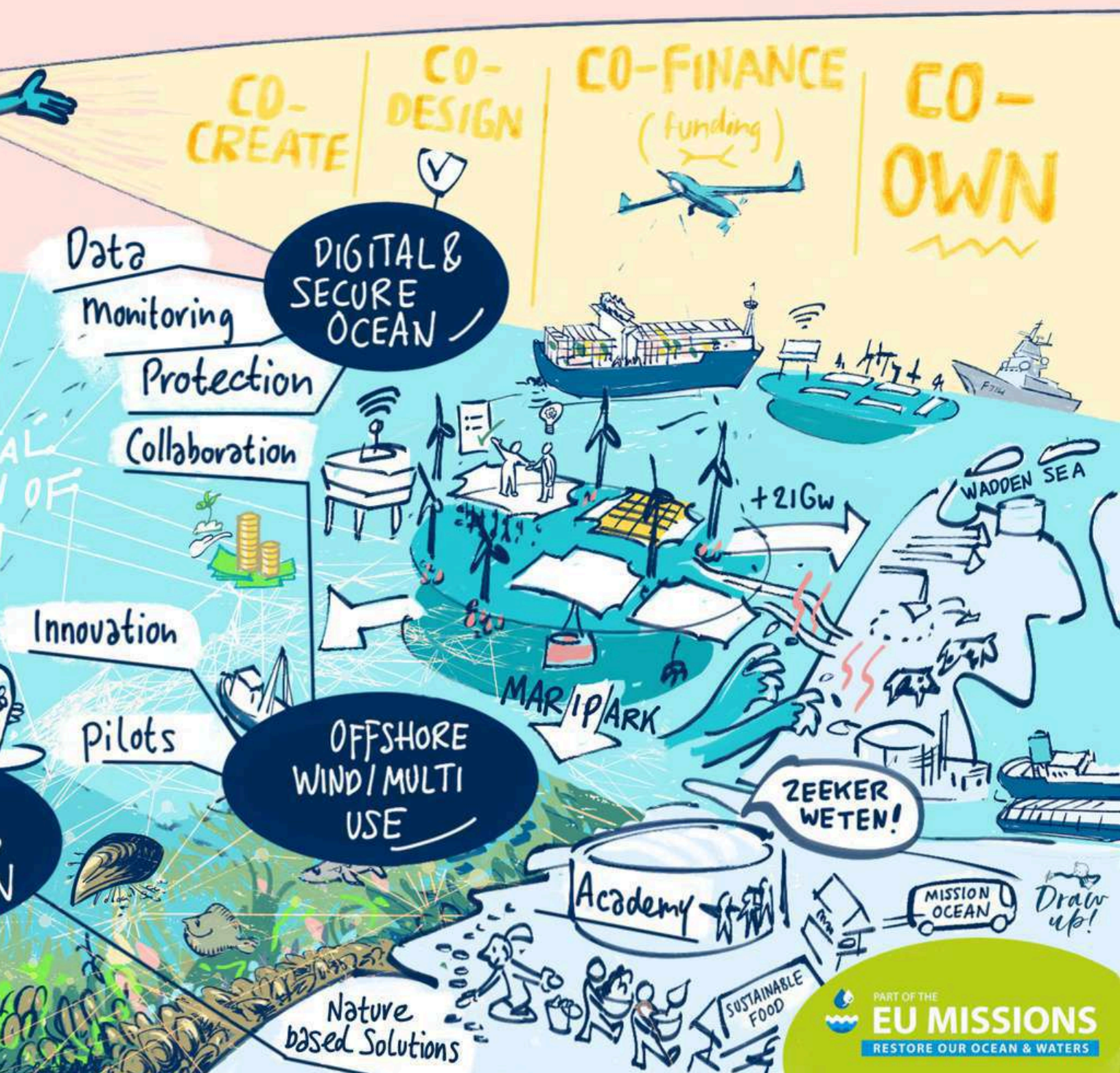
SUSTAINABLE
FOOD



PART OF THE

EU MISSIONS

RESTORE OUR OCEAN & WATERS



ABOUT THE 3RD BLUE MISSION BANOS ARENA HELD ON 26TH/27TH NOVEMBER 2024 IN AMSTERDAM

The 3rd BlueMissionBANOS Mission Arena, held in Amsterdam in November 2024, focused on the North Sea region, encompassing the Netherlands, Belgium, northern France, western Germany, and western Denmark. This event continued the mission of fostering collaboration among diverse stakeholders to advance the European Union's Mission Ocean & Waters. This Mission emphasizes protecting and restoring marine ecosystems, addressing pollution, and steering the blue economy toward carbon neutrality and circularity.

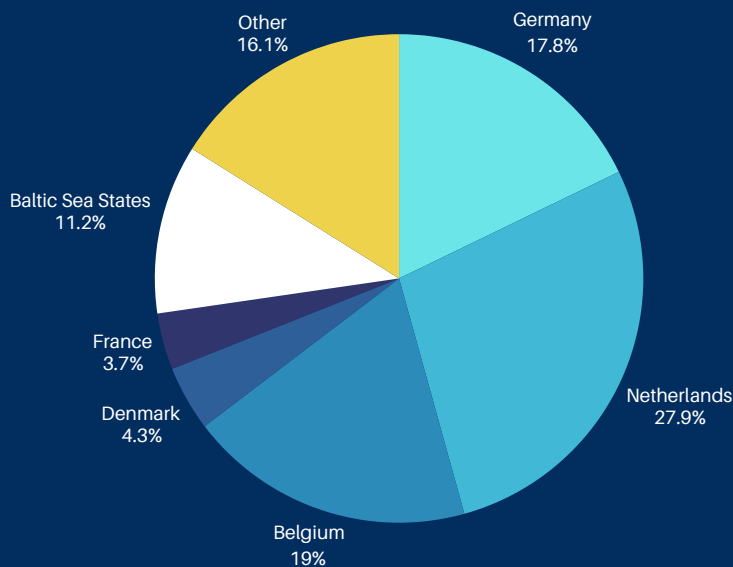
As a key European maritime region, the North Sea is pivotal in renewable energy, innovation, and economic activities. During the Arena, the 300 participants explored solutions tailored to the North Sea's unique context, such as integrating multi-use zones into maritime spatial planning, promoting marine energy production, advancing digital and secure ocean technologies, and strengthening marine governance frameworks. With an emphasis on cross-sectoral collaboration, the thematic fields addressed in this roadmap include offshore wind and multi-use areas, marine protection and restoration, citizen engagement and education, blue bio-resources, green shipping, governance, business support, and digital security for marine infrastructure.

This roadmap consolidates the insights and priorities identified during the event, offering actionable guidance to harmonise economic growth, technological advancement, and environmental stewardship in one of Europe's most dynamic marine regions.

**142 participants
voted on the
final roadmap
for the Arena 3
region**

ARENA 3 PARTICIPANTS

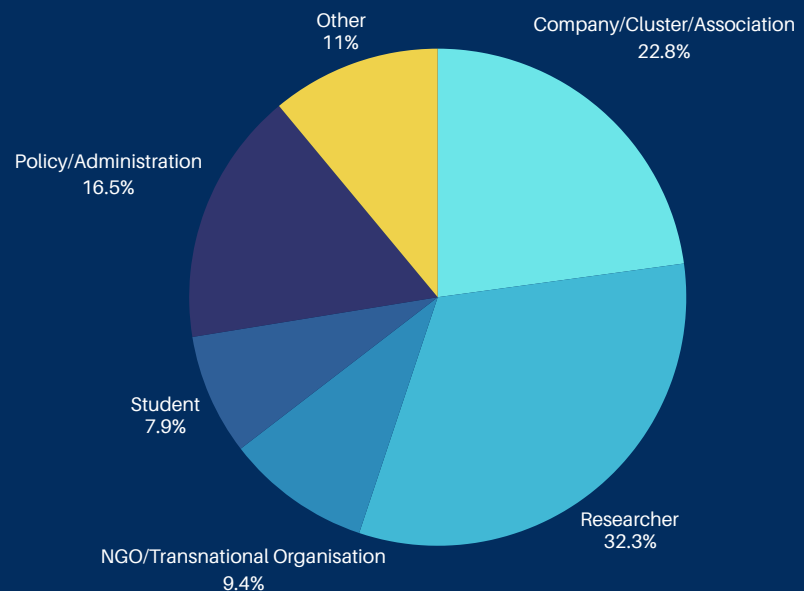
Where are our participants based?



Of the over three hundred participants who registered for the third Mission Arena nearly three quarters (72.7%) were from the Arena 3 region, with the highest number of participants from the Netherlands, Belgium, and Germany. 83.9% of participants came from the BANOS region, with the remaining joining from other European countries.

Our Arena 3 participants come from a variety of sectors representing all sides of the blue economy. Of the participants who voted in the final Assembly, 32% work in research, 23% work in companies, clusters or other associations, and 17% work in policy or administration. In addition, 9% of our participants come from a NGO or a transnational organisation and 8% are students.

What type of work do our participants do?



PROGRAMME

TUESDAY, 26 NOVEMBER 2024

Title	Topic
Opening Session: Setting the Scene for the Mission Ocean and Waters in the Arena 3 Region	Mission Ocean & Waters
Mariparks: Derisking entrepreneurship and the sustainable blue economy	Offshore Wind/Multi-Use
Co-designing actions and guidelines to reinforce citizen engagement in the Mission Ocean and Waters	Citizen Engagement/ Education
Life Cycle Assessments in the Blue Bioeconomy: Ecosystem services and carrying capacity	Blue Bio Resources
Filling the gaps: Discussing pathways for effective Mission Ocean Governance - INVITATION ONLY	Governance
Viable and scalable business models "Business for Blue Good"	Business Support
Connecting seas: Cooperation and tools for EU Marine Protected Areas	Marine Protection & Restoration
Reconciling offshore wind and biodiversity targets: Are we on track to realise the European Green Deal?	Governance
Collaboration to enhance marine security in turbulent times	Secure & Digital Ocean
Demonstration of the Digital Twin of the Ocean and its capabilities	Secure & Digital Ocean
Leading the Way: Marine nature restoration advancements, challenges and needs in the North Sea region	Marine Protection & Restoration
Small or large scale: What are the governance implications evolving from Offshore Wind Energy development in the North Sea?	Governance
Co-creating minimum requirements for Nature-Based Solutions in EU marine and coastal environments	Marine Protection & Restoration

WEDNESDAY, 27 NOVEMBER 2024

Title	Topic
Mentoring and technology exchange for supporting the regional blue bioeconomy: What do blue bio startups and companies really need?	Business Support
Stakeholder engagement in innovative marine solutions: Marine conservation management, financing and beyond	Marine Protection & Restoration
Feasibility & beyond: Investing in and developing Recirculating Aquaculture Systems	Blue Bio Resources
Upscaling ocean multi-uses through co-management and operational alignment between Low Trophic Aquaculture and Offshore Wind	Offshore Wind/Multi-Use
Workshop on environmental advocacy and justice	Citizen Engagement/ Education
The blue on land: Agricultural applications of algae produced with circular resources	Blue Bio Resources
Green messaging for blue growth: How can we communicate the sustainability benefits of algae products to customers, end users and regulators?	Blue Bio Resources
Blue horizons for young wavemakers: Exploring career pathways in the blue economy	Citizen Engagement/ Education
Enhancing seaweed aquaculture governance: Working with public authorities to improve licensing and regulatory frameworks in the North Sea	Governance
Final Session: Voting on the Arena 3 Roadmap	Mission Ocean & Waters

SNEAK PEEK INTO THE ARENA



The documentation of all workshops including presentations and summaries can be found on the [BlueMissionBANOS website](https://www.blumissionbanos.eu).

GOALS

01

Integrated Maritime
Spatial (MSP) Planning
and Multi-Use Zones

02

Ecologically relevant
Marine Protection and
Restoration

03

Cooperation on Nature-
Based Solutions

04

Citizen Engagement
and Education on Blue
Sectors

05

Sustainable Blue Bio-
Resources

06

Transnational
Governance and
Regional Collaboration

07

Business and
Innovation Support

08

Digital Security
and Infrastructure

01

OFFSHORE WIND & MULTI-USE



ACTION POINTS

01

Simplify Regulatory Frameworks with clear licensing roadmap. Ideally establish one-stop-shops.

02

Designate multi-use zones as a standard in policy and regulatory frameworks. Multi-use should be integrated into all facets: MSP, Area Passports, CIA Zones, MariParks. Requirements to begin with Multi-Use for new activities from the planning stages.

03

New tenders for blue economy activities can no longer use a single-use approach, but should integrate multiple activities guided by national targets and ambitions.

04

Support multi-use business models that enhance economic and environmental benefits and enable different blue economy sectors to work together. Address financial de-risking with insurance options.

05

Strengthen cross-sector blue economy stakeholder dialogue structures to reduce siloed approaches. Build on the already good 'Communities of Practice' examples in the region.

06

Undertake Baseline Assessment on a basin level serving the purpose for all possible uses, contributed to from National efforts in EEZs and Coordinated basin activities from regional elements and undertake joint monitoring effort.

07

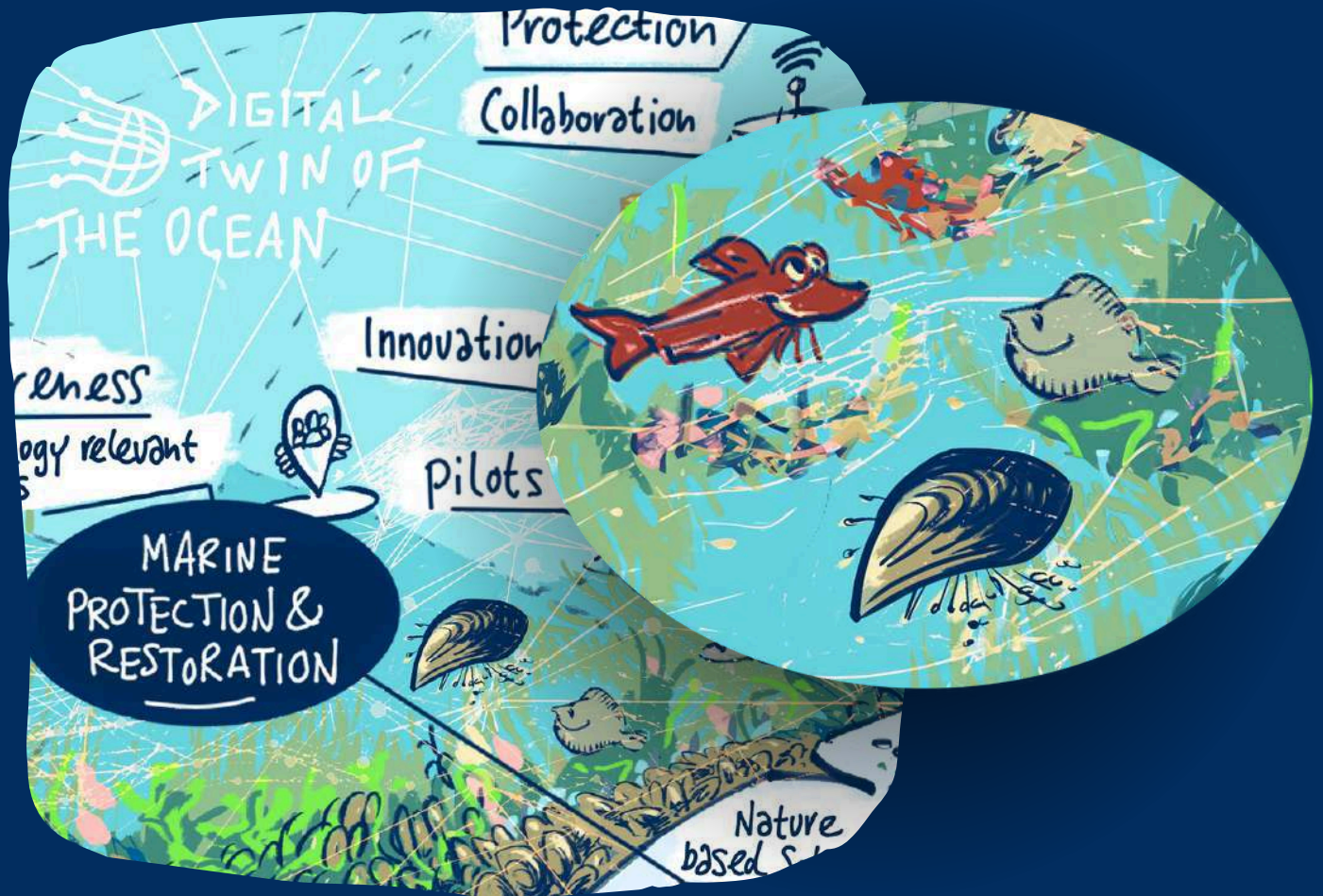
Operationalize the transnational planning of the North Sea and other basins using examples such as the GNSBI. This mandates consideration of transnational planning, aspects and develops joint projects

08

Provide public support for the necessary investments in upscaling multi-use solutions and large scale installations (such as MariParks).

02

MARINE PROTECTION & RESTORATION



ACTION POINTS

01

Increase funding for marine protection and restoration, and support innovation in technology, staff resources and capacity building. Nature Restoration Fund or innovative funding approaches should be used to manage, and upscale beyond the national level.

02

Boost marine protection and restoration through the uptake of R&D project results by national governments, their integration in policies on different blue economy sectors and by cooperation in research, stakeholder engagement and data sharing.

03

Create both incentives for sustainable industry practices and a thorough policy enforcement approach for lack of compliance with joint cross-sectoral long-term agreements on sustainable marine use.

04

Align prioritisation of protection and restoration areas, requirements, monitoring, enforcement, and efforts among the Member States, to facilitate management and regional cooperation on nature-based solutions, restoration efforts and conservation.

05

Focus on educating policymakers, legislators, and the public about the North Sea's state, and reduce (regulatory) barriers to restoration efforts.

06

Broaden stakeholder inclusion in marine protection and planning, by prioritising input from underrepresented sectors, using an inclusive language, and by empowering communities. The Dutch North Sea Agreement could be an inspiration.

07

On local and regional cooperation, **use a systems approach, test risk assessment frameworks, and facilitate literature, expert and public consultations for** efforts on restoration and implementation of nature-based solutions.

03

CITIZEN ENGAGEMENT & EDUCATION



ACTION POINTS

01

Integrate Ocean Literacy into non-formal and formal education activities to raise awareness of marine ecosystems, conservation, and sustainable use.

02

Establish regional blue economy hubs that bring together students, researchers, and professionals from industry and academia.

03

Attract more young people to careers and entrepreneurship in blue economy sectors and raise the profile of the blue economy as an exciting place to build a career.

04

Create collaborative frameworks with vocational training centres to inform, upskill, and reskill the workforce for the blue sector, with special attention to people in need of employment and NEETs.

04

Citizen or public engagement activities often involve the usual suspects and representatives of citizen groups, instead of 'real' citizens or inhabitants. **More effort and planning is needed to engage diverse people and communities in research and policy.**

06

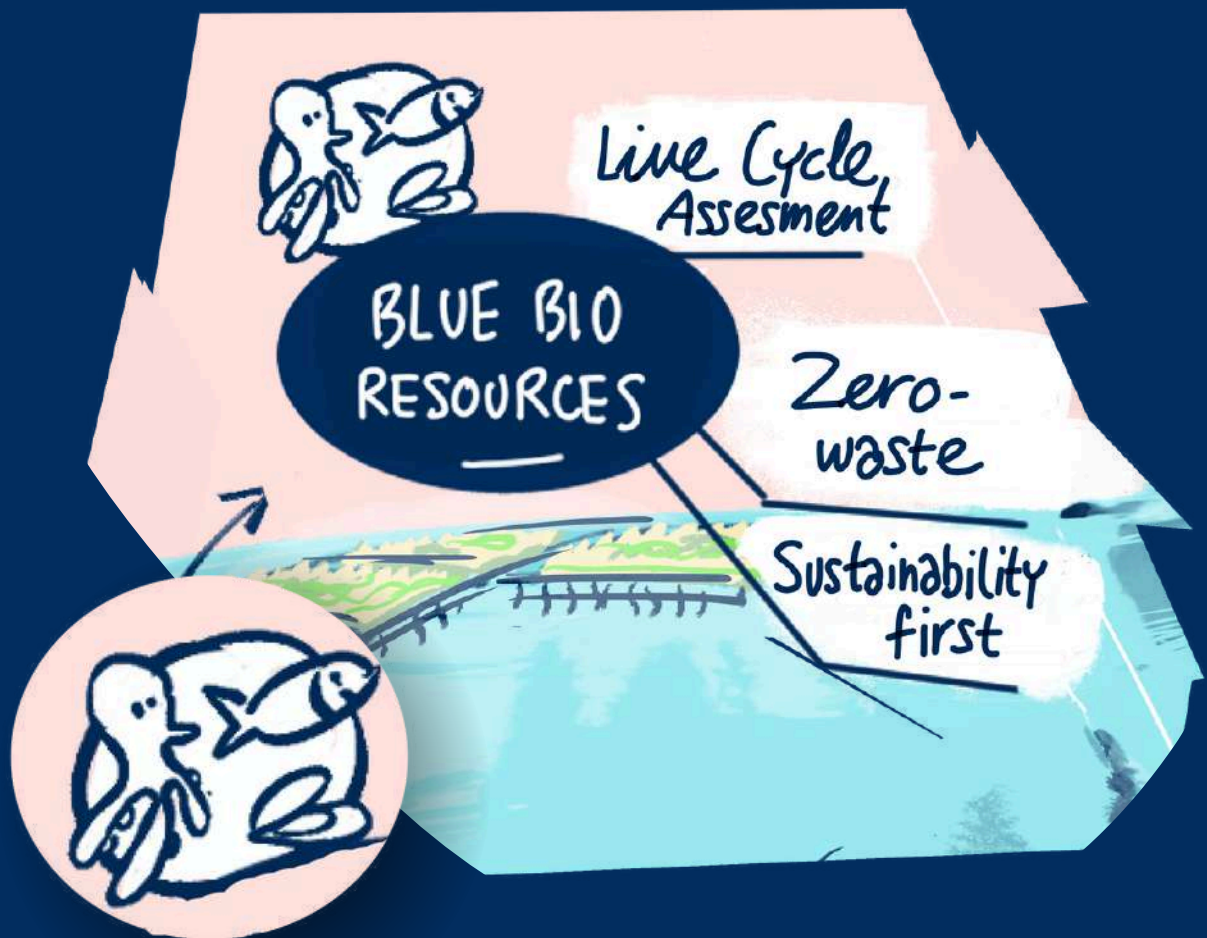
Avoid overwhelming the public by seeking synergies between existing engagement platforms, initiatives and events. **Use a greater diversity of voices and media to communicate marine issues outside of the "blue bubble".**

07

Deepen and lengthen the interaction between citizens and other stakeholders. Move from the model of citizen engagement by experts to facilitating citizen ownership and co-management of resources.

04

BLUE BIO RESOURCES



ACTION POINTS

01

Harmonise Life Cycle Assessment (LCA) methodologies by developing transparent, robust, accessible & pragmatic standards for algae and other blue bioeconomy sectors, also relevant to the industry.

02

Create incentives for zero-waste sustainable production and consumption, such as biorefining and symbiosis concepts for blue-green solutions.

03

Design an ecosystem-based approach for new aquaculture projects in MSP, aiming for optimal siting and acknowledging carrying capacities of the system.

04

Acknowledge biodiversity as a core prerequisite for a sustainable blue bioeconomy, by including biodiversity in environmental performance indicators of aquaculture.

05

Prioritise economic diversification in sustainable production, including low-trophic aquaculture and the blue on land, to de-risk industry, adapt to climate change, and support resilient communities.

06

Create a level playing field for the agriculture and aquaculture sectors with equal opportunities, and also transfer lessons learned and good practices from green to blue bioeconomy.

07

More research is needed on the modelling of biological pathways and impacts, such as in marine carbon systems.

05

GOVERNANCE



ACTION POINTS

01

Better coordination between all countries around the North Sea including non-EU countries in Marine Spatial Planning processes. For reasons of transparency, this should also include an exchange of developments in the respective EEZ.

02

Develop a governance structure with a clear leadership responsibility that is able to bring specific solutions to the regions. This should be based on dialogues with Mission actors.

03

Create suitable regulations and financing instruments that are flexible and adaptable enough to realise new concepts. A proof-of-concept approach in the sense of feasibility studies could be integrated into the regulatory system.

04

Take a sea basin approach to tackle climate change and the ambitions of the Green Deal at the political and policy levels.

05

Install a permanent transparent platform to facilitate the dialogue between science and politics and act as a translator between the two parties.

06

Develop a governance structure that is capable of bringing specific solutions to the regions. Knowledge about best practice examples should be transferred beyond the regions to a greater extent such as the Maripark concept.

07

Establish a transnational governance structure to support the implementation of the Ocean & Waters Mission and other regional development issues. This can also be a network of actors mandated with this task by the respective governments.

08

Expand the scope and legacy of Mission Ocean & Waters by engaging with exist-ing networks, including the private sector, and focusing on delivering.

06

BUSINESS SUPPORT



ACTION POINTS

01

Simplify regulations and permitting processes to reduce administrative burdens and accelerate sustainable blue business development.

02

Develop flexible funding instruments, including test sites and market mechanisms, to support innovation and incentivise ecosystem restoration and conservation efforts (e.g., biodiversity credits).

03

Provide startups with legal assistance, IP protection frameworks, & mentorship programmes to articulate business cases. Use matchmaking platforms to connect them with funders, large enterprises and peers & identify mutual opportunities for collaboration.

04

Implement awareness-raising campaigns to enhance consumer understanding of sustainable marine products. Support market fit analyses and develop community hubs to connect producers and consumers.

05

Develop communities of practice (CoPs) to foster a cross-sectoral Innovation ecosystem among industry, research, and policy stakeholders. Create trust and synergies for systemic innovation.

06

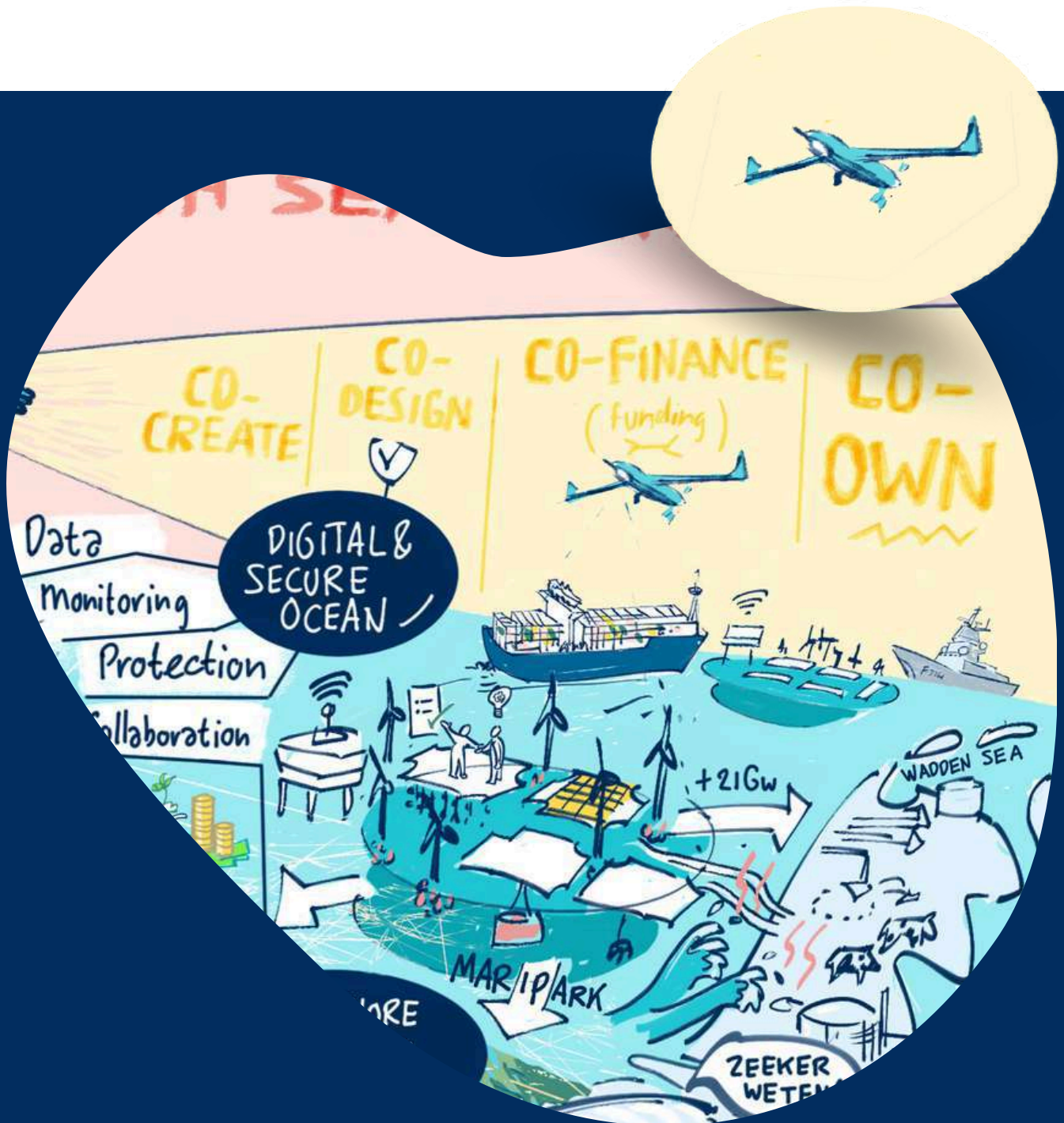
Encourage blue economy industries to conduct technology scans and collaborate with established sectors to adopt and adapt innovative solutions. Drive the valorisation of marine byproducts & the development of scalable, sustainable value chains.

07

Develop workforce training and education programmes on the blue economy to build a skilled workforce and address current labour shortages and knowledge gaps.

07

DIGITAL & SECURE OCEAN



ACTION POINTS

01

Enhance collaboration between and within government agencies and private sector to improve security in critical infrastructure through data-sharing initiatives that foster trust while protecting sensitive information.

02

Encourage the collaborative development and implementation of technological innovations to enable real-time infrastructure surveillance, threat detection, and coordinated response capabilities across sectors.

03

Promote innovation programmes to collaboratively develop new security solutions, explore co-existence and multifunctionality of infrastructure to enhance resilience and address emerging threats more effectively.

04

Create a regional platform for marine security and safety. The platform can provide a secure and neutral space for dialogue among stakeholders to build trust, exchange insights, and collaboratively address shared challenges.

05

Define and agree on roles and responsibilities between states, authorities and private actors in relation to the monitoring and surveillance of marine and offshore infrastructure to enable effective protection.

06

Integrate more data and data lakes into the Digital Twin platform to contribute to the development of ocean numerical models.

07

Consistent collection across all EU sea basins steered from EU level, which will generate more observational data not only including biological or geological data but also for example socio-economic data.

08

Develop and integrate new and existing applications on the Digital Twin platform.

ACKNOWLEDGEMENTS

We would like to extend a thank you to everyone who participated in our second Mission Arena in Amsterdam, Netherlands with a special thanks to workshop organisers, speakers, and our BlueMissionBANOS Arena 3 team.

SUBMARINER Network Team at Arena 3

Angela Schultz-Zehden, Agnese Cosulich, Alberto Terenzi, Efthalia Arvaniti, Ferdinand Bulmer, Frances Klatt, Franziska Drews-von Ruckteschell, Freya Robinson, Ivana Stojanovic, Katharina Kurzweil, Lotta Torvelainen, Maria del Camino Troya, Mariana Mata Lara, Mariia Pospelova, Maya Miltell, Mercedes Wansart, Sarah Tamulski, and Silvia Tosatto.

BlueMissionBANOS Arena 3 Organisers

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OTHER REGION'S ROADMAPS

We invite you to read the roadmaps developed during [Mission Arena 1](#) for the overall BANOS region, and for [Mission Arena 2](#) for the region of Estonia, Latvia, Lithuania, South-Finland and South-East Sweden.





ROADMAP 2030: Steps for the effective deployment of Mission Ocean in the Arena 3 Region

PUBLISHED BY:

SUBMARINER Network For Blue Growth EEIG

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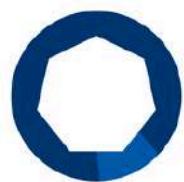


**Thank you for your
continued support for the
EU's Mission Ocean & Waters**



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BLUE MISSION BANOS

ABOUT THE 4TH BLUE MISSION BANOS ARENA

HELD 28-29 APRIL IN SOPOT, POLAND

The fourth Mission Arena in Sopot, Poland, brought together 200+ stakeholders from the South Baltic region to discuss in 17+ workshops what is needed to turn the blue economy carbon-neutral, circular and more secure, while reducing pollution and increasing biodiversity. The event centred on the following seven themes important to the region: MSP and Multi-Use, Marine Protection and Restoration, Citizen Engagement and Education, Blue Foods, Governance, Sustainable Maritime Infrastructure, and Shipping and Ports.

BlueMissionBANOS organised the Arena in cooperation with the Blue Economy Baltic Forum and the Sustainable Blue Economy Partnership under the patronage of the Polish EU Council Presidency.

This roadmap consolidates the insights and priorities identified during the event, offering actionable guidance for the upcoming deployment phase of Mission Ocean and Waters. The action points in this roadmap were developed through an interactive co-creation process. The participants of the fourth Mission Arena voted on the order of their priorities in the final plenary session.

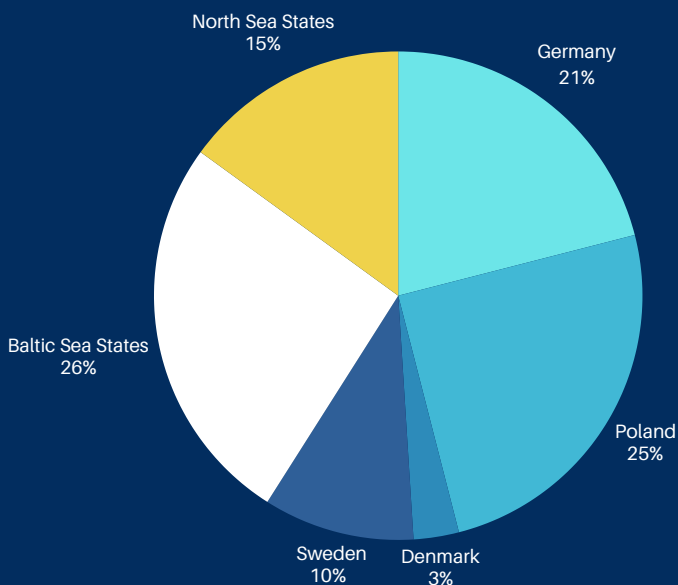
***Nearly 200 participants voted on the final
roadmap for the Arena 4 region!***

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BANOS**



ARENA 4 PARTICIPANTS

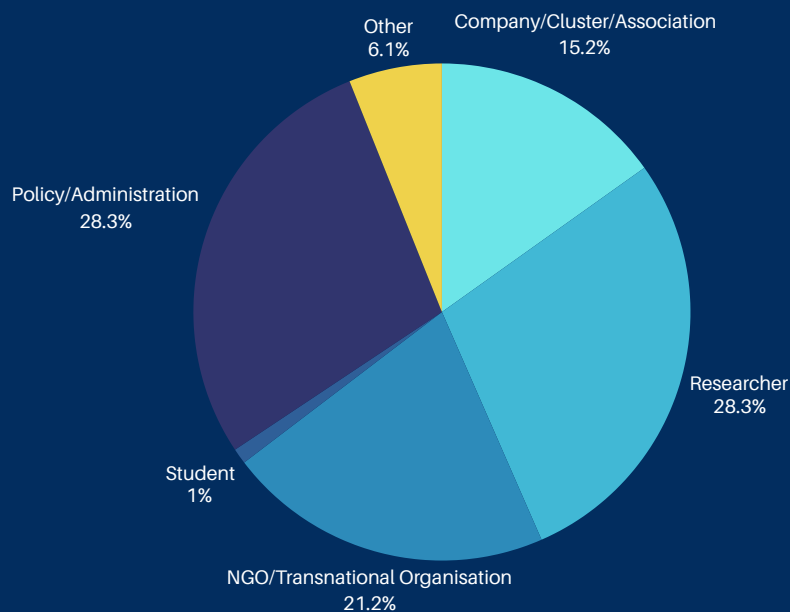
Where are our participants based?



Of the over two hundred participants who registered for the fourth Mission Arena, nearly 50% were from the Arena 4 region, with the highest number of participants from Poland.

What type of work do our participants do?

Arena 4 participants come from various sectors representing all sides of the blue economy. Of the participants who voted in the final Assembly, 28% work in research, 28% work in policy or administration, and 21% work at NGOs or transnational organisations.



MSP and Multi-Use

- Multi-Use in the South Baltic: Exploring Opportunities on Offshore Wind Farms
- Maritime Spatial Planning Foresight Workshop

Marine Protection and Restoration

- Quality check of emerging minimum requirements for marine and coastal Nature-Based Solutions
- Marine Protection and Nature Inclusivity
- Tackling PFAS Pollution in Water

Citizen Engagement and Education

- Shaping Future Blue Leaders: Educating Youth for Innovation and a Sustainable Blue Economy
- Citizen Engagement Strategies in Mission Ocean: Appraisal and Next Phase

Blue Foods

- Pet Food from the Blue Baltic
- Blue Foods

Governance

- Tools for Multi-Level Governance
- Integrating Blue in Green
- Mission Ocean and Waters Governance: From pathway to best case scenario

Sustainable Maritime Infrastructure

- The Life of a Leisure Boat
- Removing Wrecks and Munitions from the Baltic
- Security of Maritime Infrastructure

Shipping and Ports

- Ports - Sustainable and Secure Energy Hubs in an Evolving Transport Landscape
- Tools for shared and dynamic risk picture of the Baltic Sea region

Our Solution Areas

01

Enhancing MSP
and Multi-Use

02

Sustainable Maritime
Infrastructure

03

Optimising
Shipping and Ports

04

Meeting the
Growing Demands
of Governance

05

Exploring Innovative
Approaches to
Blue Foods

06

Increasing Citizen
Engagement and
Education

07

Shaping Marine
Protection and
Restoration

01

MSP & MULTI-USE



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MSP & Multi-Use Action Points

- 01** **Facilitate the transition** from policy declarations to concrete, actionable measures that promote the implementation of multi-use (MU) concepts.
- 02** **Implement concrete actions** to facilitate cooperation among stakeholders from different sectors and the offshore wind energy, contributing to sustainability and enabling the multi-use approach.
- 03** **Strengthen the capacity of MSP** and provide it with the tools to address emerging challenges, including climate change, the implementation of the European Green Deal, and decreasing international safety and security.
- 04** **Establish enabling governance frameworks** and provide targeted incentives to stimulate private sector involvement in multi-use (MU) initiatives.
- 05** **Secure funding** to promote the Baltic Sea Region's (BSR) experience in maritime spatial planning (MSP) and support countries in other maritime regions that are at the initial stages of developing and implementing such plans.
- 06** **Ensure that principles of social justice** are integrated into the implementation of MSP processes.
- 07** **Systematically collect and analyse experiences** related to MSP implementation and establish appropriate monitoring and evaluation systems.

02 MARINE PROTECTION & RESTORATION



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Marine Protection & Restoration Action Points

01

Identify and evaluate marine habitats and environmental resources given their significance across social, environmental, and economic sectors, highlighting their value to both nature and society.

02

Explore options for using Nature-Based Solutions or Nature-Inspired Design of grey infrastructure in the South Baltic to support progress towards nature restoration targets and pilot emerging standards for their implementation.

03

Prevent the use of PFAS as a group through EU-level legislation. The planned "PFAS ban" should apply to all products where safer alternatives are available including those produced outside the EU.

04

Effective marine protection and restoration requires a comprehensive understanding and continued monitoring of PFAS pollution. All countries surrounding the Baltic Sea should actively engage in this work.

05

Implement local-level measures to identify PFAS pollution hotspots and mitigate their impact. The PFAS issue in the sea can be effectively addressed at its sources, both sea-side and land-based.

06

Pay attention to previously neglected issues in MSP preparation and implementation, such as identifying areas to be reclaimed, the role of marine habitats as a carbon reservoir, and the need to protect them.

07

Develop and mainstream new MPA management guidelines.

03

CITIZEN
ENGAGEMENT
& EDUCATION



GAMEFICATION
OF EDUCATION

○
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BANOS

Citizen Engagement & Education

01

Promote Ocean Literacy in schools: Integrate Ocean literacy programs into early education curricula, including field trips to coastal areas & marine research facilities.

02

Create regional blue economy hubs that connect industry and academia, organise events, networking sessions, knowledge-sharing, and vocational trainings.

03

Introduce more entrepreneurship & innovation trainings, including innovative practices, business modelling, and startup development.

04

Empower local institutions, organisations & businesses with mechanisms to be more willing to cooperate around the Baltic. Focus on marketing benefits to them.

05

Regional and local authorities should support small-scale initiatives; for example, a local science fair in Poland could become a trans-Baltic event with a regional audience.

06

Limit additional pan-European initiatives, instead focusing on strengthening existing initiatives and connecting local projects, especially in the education sector.

07

Increase awareness of the benefits of cooperation beyond activities in your own backyard.

08

Create and foster more positive actions, in which participation is uplifting and does not remind participants of the challenges the Baltic is facing.

04 BLUE FOODS



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Blue Foods Action Points

- 01** **Strengthen local coastal communities** by diversifying fisheries and aquaculture towards new low-impact fishing methods and low-trophic species.
- 02** **Work towards enhanced labelling** that clearly communicates production method, origin, nutritional value, and sustainability of aquaculture products.
- 03** **Encourage collaboration across the value chain**—from producers to retailers—to co-design seafood products that reflect consumer expectations and promote wider adoption of sustainable aquaculture.
- 04** **Increase consumer confidence in new species** and aquaculture products by fostering education and engagement on sustainable seafood production.
- 05** **Promote product development** from underutilised marine resources to create high-value products for human and non-human consumption.
- 06** **Boost consumer awareness of underutilised seafood** as a sustainable alternative to more traditional species.

05 GOVERNANCE




GREEN & BLUE
ACTIONS

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BLUE
MISSION
BANOS

Governance Action Points

01

Promote co-creation and collaboration among practitioners by establishing a common platform to exchange practices and lessons learned.

02

Harmonise indicators, classifications, and legislative terminology to better integrate blue bioeconomy contributions and ensure policy coherence across sectors.

03

Strengthen early-stage innovation by fostering applied R&D partnerships between academia and industry to advance low-TRL blue bioeconomy solutions and accelerate their uptake across green bioeconomy value chains.

04

Establish and expand national Mission Hubs to foster cross-ministerial cooperation and to actively support the transformation of the Blue economy sector.

05

Enhance the effectiveness and usability of marine and coastal planning by integrating key concepts such as fair and just transition, and raise awareness about balancing interests of both human and nature.

06

Support the implementation of the European Ocean Pact by better coordinating existing EU directives and aligning relevant policy areas to ensure coherence on the supranational level.

07

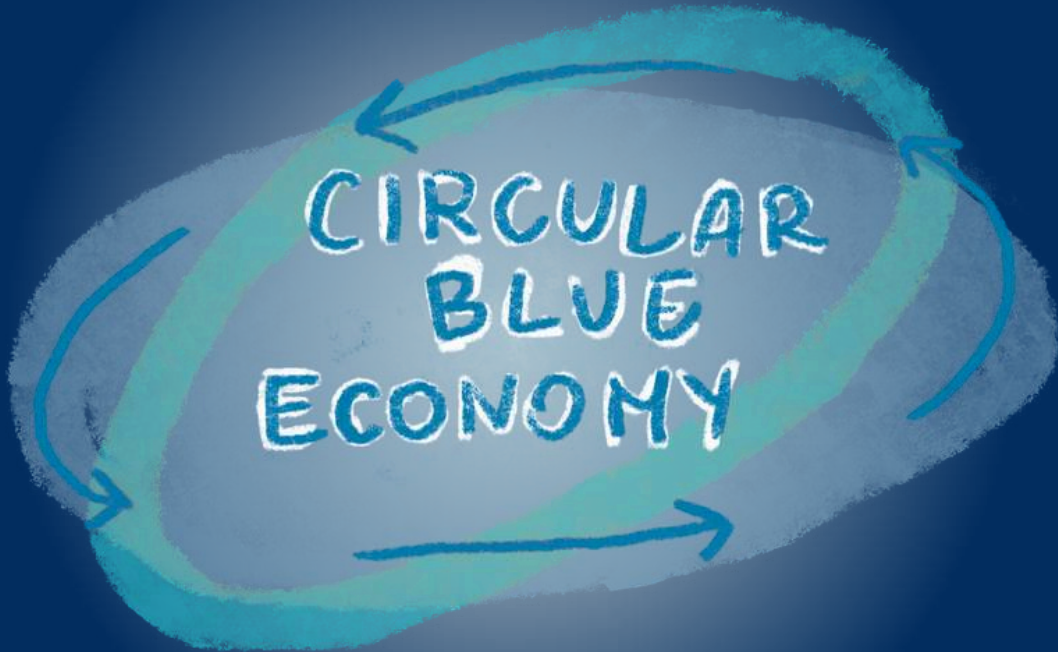
Develop and implement localised action plans in the BANOS region rooted in science-policy interfaces, citizen engagement and capacity building.

08

Promote synergies with strategic policy tools such as green public procurement to create demand for sustainable blue bio-based products and bolster cross-sector market development.

06

SUSTAINABLE MARITIME INFRASTRUCTURE



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Maritime Infrastructure Action Points

01

Promote a comprehensive lifecycle approach by encouraging maintenance, repair, retrofitting, and reuse of existing boats to maximise their full usable lifespan.

02

Develop a coordinated strategy to address rising hybrid threats, secure offshore wind farms, and improve risk prediction and mitigation.

03

Boost research and secure networks: Leverage EU advances in AI, quantum computing, and data spaces to build secure, real-time maritime security systems.

04

Unite science and stakeholders to prevent marine hazards and to achieve good marine environmental status; promote vocational training for a blue economy.

05

Protect and make critical submarine infrastructure more resilient and secure.

06

Simplify regulations and permitting processes to reduce administrative burdens and accelerate sustainable blue business development. Intensify work on the full launch of the Baltic Pipe.

07

Develop a comprehensive monitoring strategy for wrecks and munitions on the Baltic Sea floor.

08

Improve sustainability in leisure boating by enhancing education and training in responsible boat usage, energy efficiency, waste-management, protecting marine ecosystems and eco-friendly navigation.

07 SHIPPING AND PORTS



○
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Shipping & Ports Action Points

01

Invest in modern, climate-resilient maritime infrastructure that supports sustainable port operations, clean energy generation, and safe navigation, focusing on cross-border connectivity and the full integration of environmental considerations.

02

Foster strategic partnerships with private sector stakeholders, including shipbuilders, marina operators, logistics firms, and clean tech providers, to co-develop innovative solutions that align economic interests with regional sustainability goals.

03

Strengthen regional cooperation frameworks by enhancing the use and integration of risk assessment tools into national maritime safety protocols, ensuring harmonised responses to both environmental threats and security challenges.

04

Offer targeted financial incentives, regulatory support, and innovation funding to encourage cross-sector and cross-border collaborations that address shared maritime sustainability challenges and accelerate the uptake of best practices across the SBR.

05

Enhance the availability, distribution, and affordability of green fuel sources by supporting the development of fuel supply chains, storage facilities, and fueling infrastructure at key South Baltic ports.

06

Conduct targeted research and regional training programs to improve understanding of low-sulphur fuel spill behaviour and integrate this knowledge into operational protocols and response strategies across the SBR.

Sneak Peek into Arena 4



The documentation of all workshops, including presentations and summaries, can be found on the [BlueMissionBANOS website](https://www.bluemissionbanos.org/).

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Contributing Organisations / Projects



GDAŃSK UNIVERSITY OF TECHNOLOGY



Co-funded by the European Union



Blue Supply Chains



Co-funded by the European Union



Co-funded by the European Union



Co-funded by the European Union



Co-funded by the European Union

REDII Ports



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ROADMAP 2030: Steps for the effective deployment of Mission Ocean and Waters in the South Baltic

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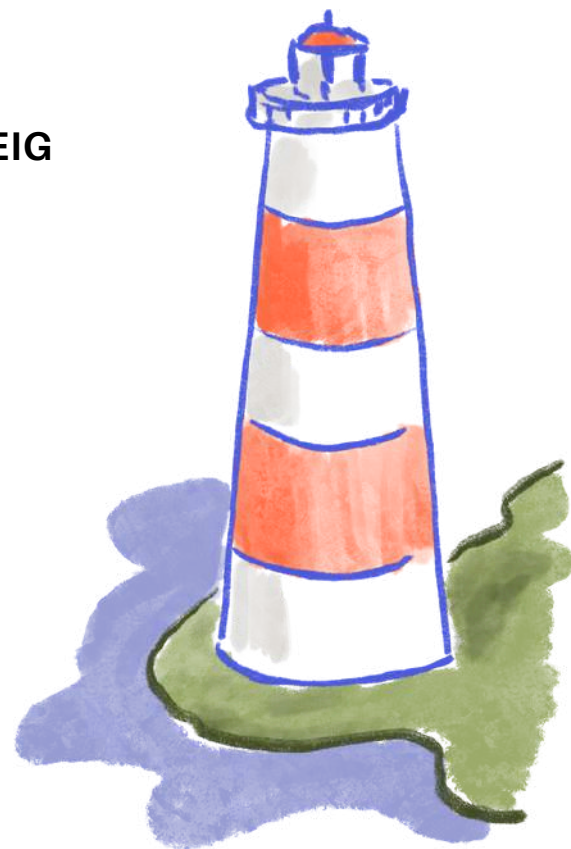
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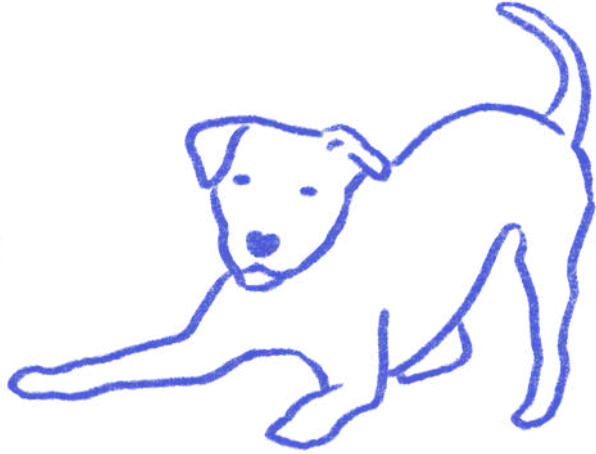
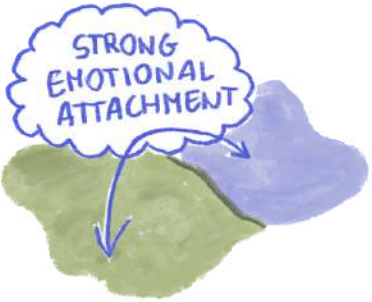
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OTHER REGION'S ROADMAPS



We invite you to read the roadmaps developed during our previous three Missions.



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