



# COASTAL REGIONS IN TRANSITION TO THE BLUE BIOECONOMY

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29/02/2024



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# Project Facts

- 12 Project Partners
- 9 Regions
- 3 Sea Basins: Baltic & North Sea, Atlantic
- 36 Months (August '22-July '25)
- 2.3 Million EUR Budget (Horizon Europe Programme)
- Coordinated by SUBMARINER



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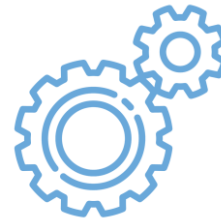
# Project Outcomes



Stimulate the development of a **sustainable blue bioeconomy** by enabling **startups and SMEs** in the participating regions to realise their circular, eco-friendly business ideas



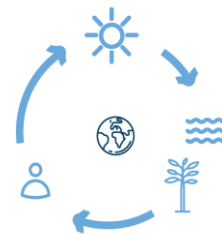
Showcase integrated and **circular blue bioeconomy value chains**, to serve as inspiration to European coastal communities



**Develop tools** for supporting businesses in integrating ecosystem services into novel ecology-driven business models and induce cross-sector collaborations along the value chains.



Foster **stakeholder engagement** through dedicated activities in the 9 project regions and beyond



Provide regional actors **access to the technologies** to realise their transition to blue bio-based solutions across their chosen value chains



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# Blue Regional Visions

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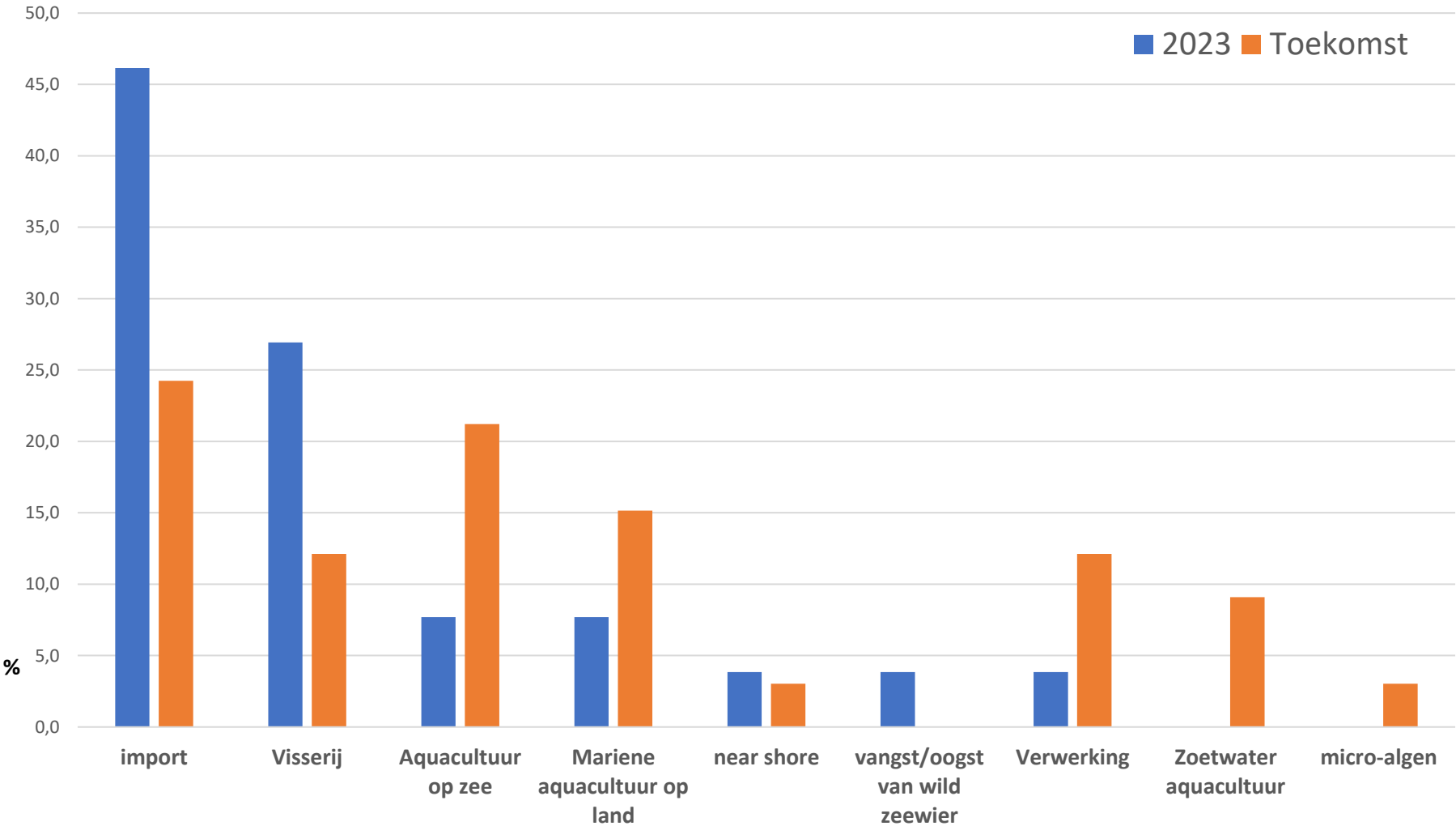
- Community of **Practice** in the 9 project regions will:
  - .Regional Vision (document):
    - Description status quo Flemish Blue Bio
    - Future prospects
    - Opportunities/bottlenecks
    - What actions to take



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# Which activity do you think is the largest supplier of raw materials for the Blue Bioeconomy in Flanders?

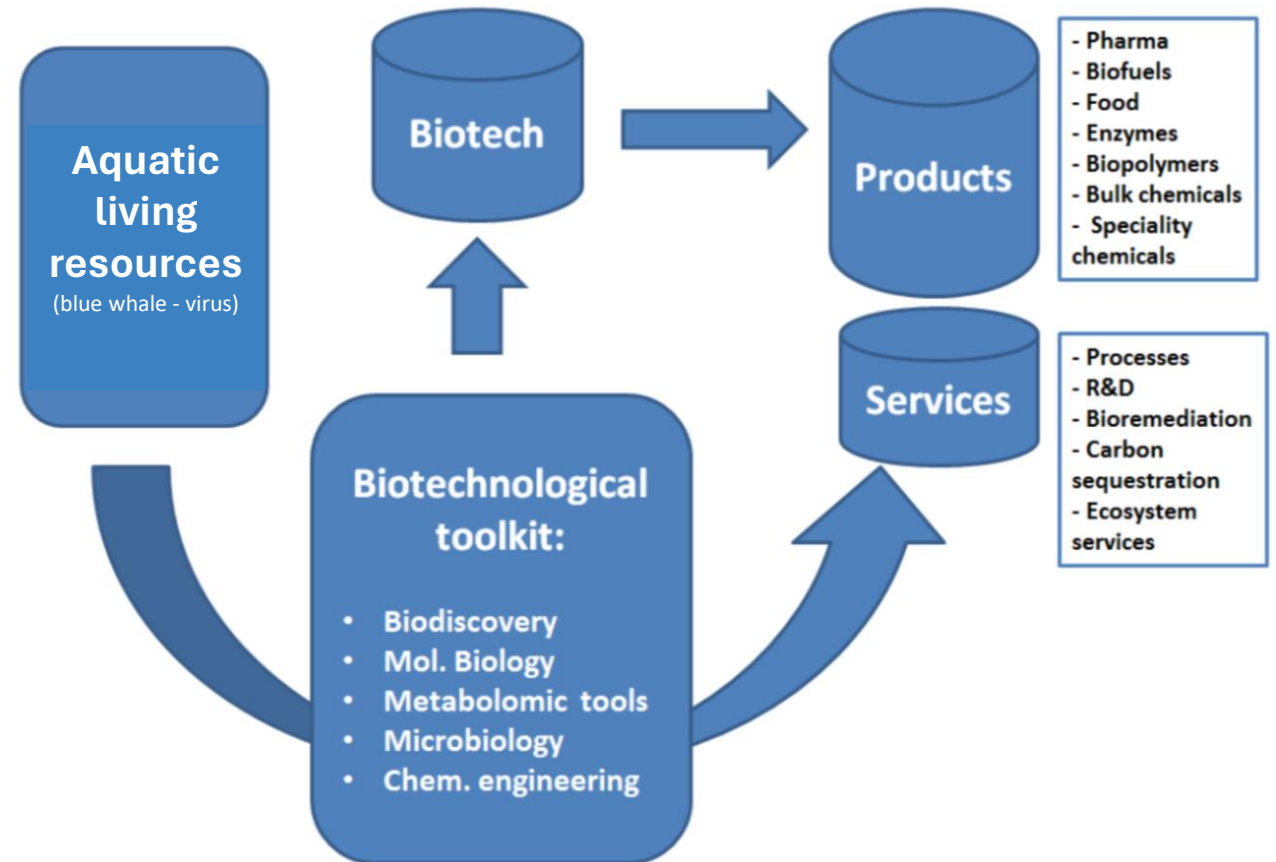


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# Blue Bio Value Chains

- Understanding and selecting **10 most promising** value chains in the 9 project regions
- Create **working groups** and **CoPs** to understand how to develop them further
- Support the creation of an **innovation ecosystem** around them



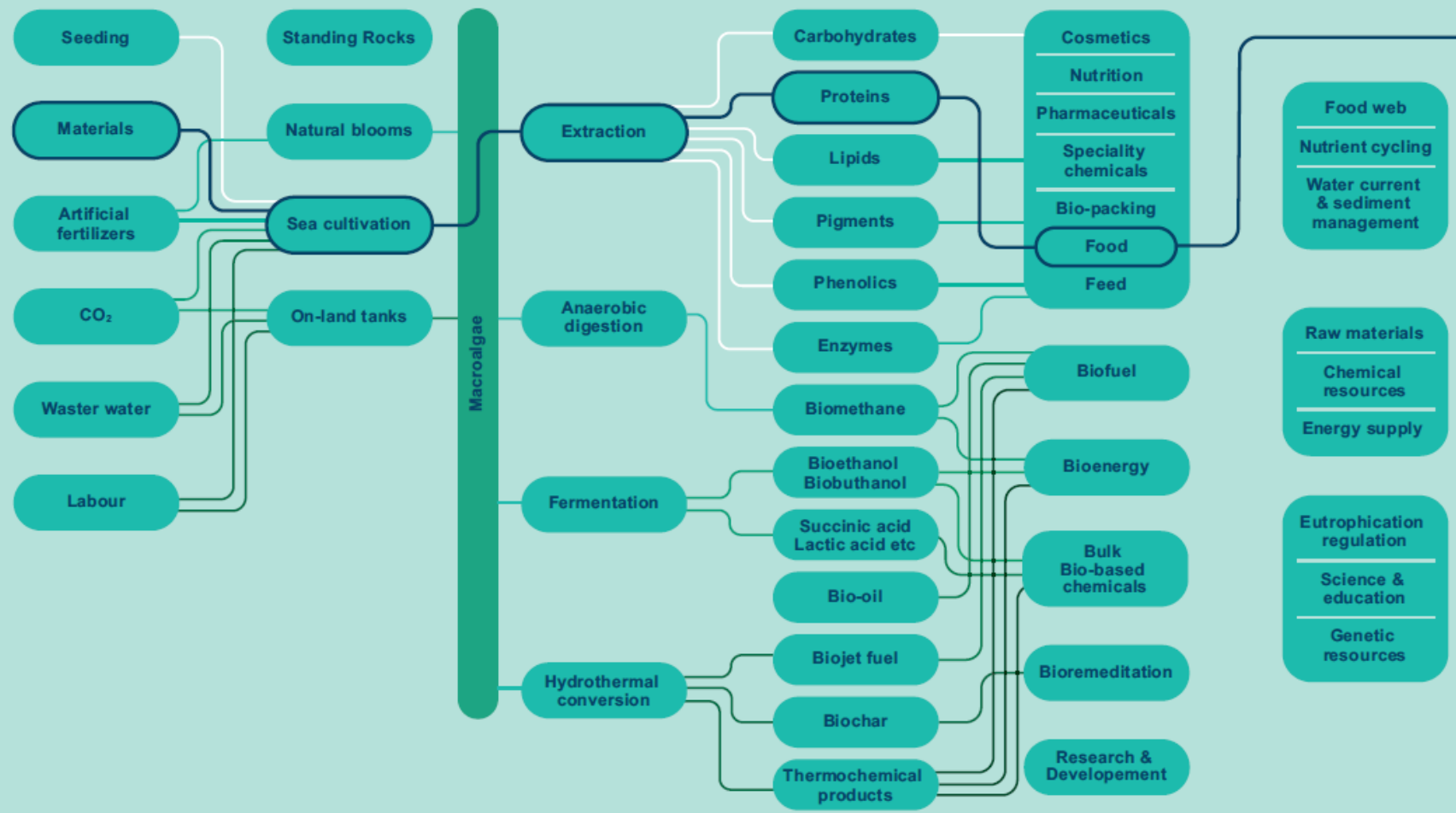
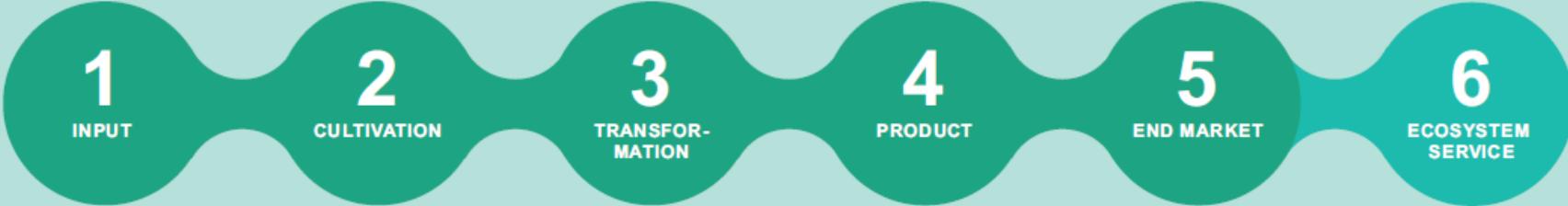
## Welke combinaties van grondstof-eindproduct meest beloftevol?

Wilde Vis als Kerngrondstof in voeding	5
Wilde schelp- en schaaldieren als kerngrondstof in voeding	3
Offshore Macro-algen als additief in voeding	3
Kweekvis als Kerngrondstof in voeding	2
Kweekvis als additief in voeding	2
Kweek schelp- en schaaldieren als kerngrondstof in voeding	2
Offshore Macro-algen als kerngrondstof in voeding	2
Offshore Macro-algen voor cosmetica	2
Offshore Macro-algen voor biomateriaal	2



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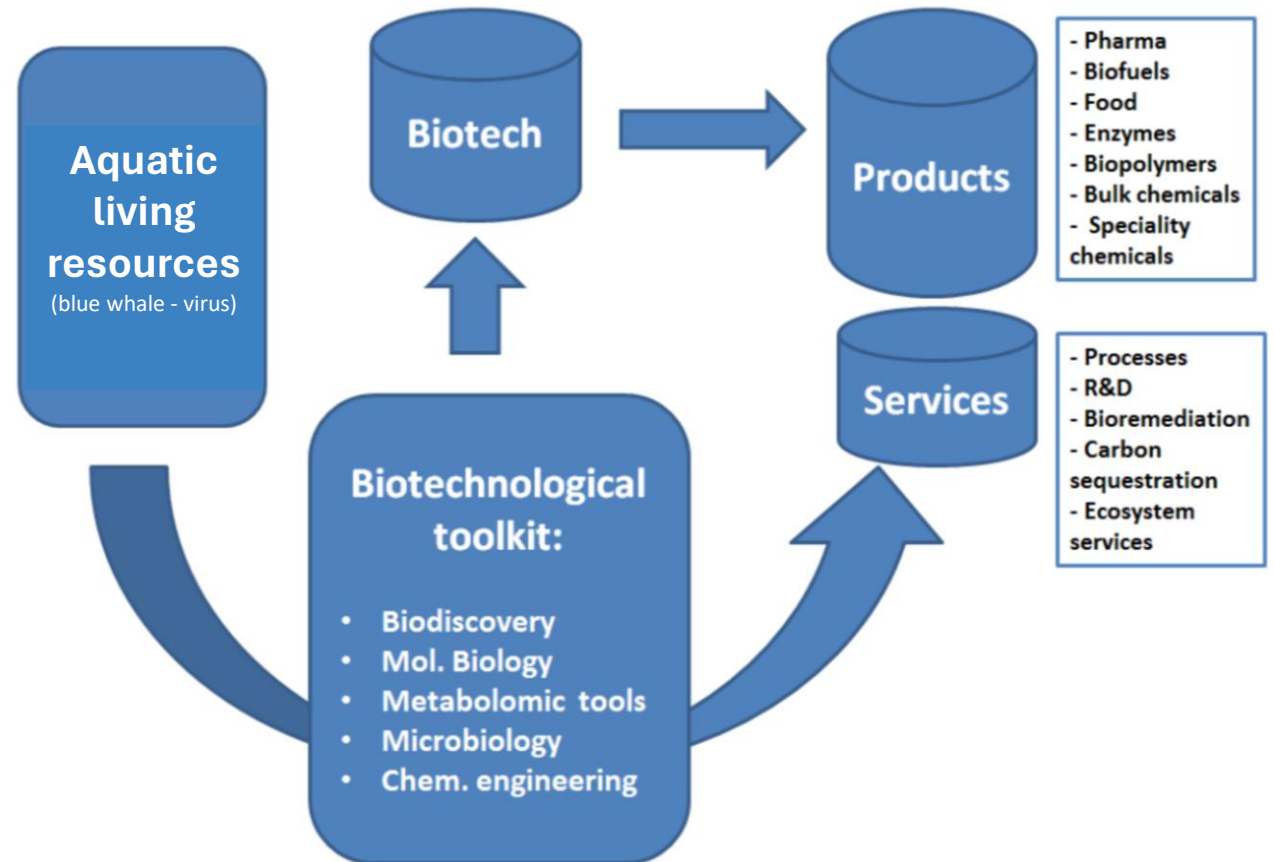
- Involved Actors**
- Seaweed bio-banks
  - Seaweed nursery
  - Seaweed farm labourers
  - Biorefineries / processor / businesses
  - Supermarkets / shops / restaurants





# Blue Bio Value Chains

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# What are Ecosystem services

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"the benefits people obtain from ecosystems"

Supporting services: primary production,...

Provisioning services: food, energy,...


Regulating service: purification of water and air, carbon sequestration,...

Cultural services: recreation,...



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	Deliverable 3.2	BBC value chain					
Ecosystem Services		Bivalves	Crustaceans	Fish	Macroalgae	Marine bacteria	Microalgae
<b>Provisioning</b>							
Food		X	X	X	X	X	X
Raw materials		X	X	X	X		X
Medicinal resources			X		X	X	X
<b>Regulating</b>							
Water filtration and nutrient assimilation		X			X		X
Coastal protection		X			X		
Carbon sequestration and storage		X					
Biochemical cycling		X			X		
Biological control					X		
<b>Supporting</b>							
Habitat protection and maintenance		X			X		
Maintenance of genetic diversity		X					
Sediment creation							
Water cycling		X					
Oxygen production					X		X
<b>Cultural</b>							
Recreational activities and mental and physical health		X	X	X	X	X	X
Tourism and ecotourism			X				
Sense of place and spiritual connection				X	X		
Aesthetic and spiritual appreciation and inspiration for culture, art, and design				X			

# Ecosystem approach

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Are these ecosystem services important for a Region?

- Can be local food production, but also product towards retail
- Can be protection,...
- Can be regional productplacement (food+tourism+..),...
- Opportunities for nature inclusive design for other activities
- .....

But our activities off/nearshore have an impact: apply the ECOSYSTEM APPROACH

Our activities in relation with the environment:

- Can we reduce those negative impacts?
- Can we use or reinforce the positive effects of certain ES?
- Can we give a value to the ES?



# Ecosystem approach

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Why a value?

- \*Create awareness, willingness or obligation to influence positively the ES, even if its not directly provide economic value for the company when validating impacts
- \*Quantification and valuation of ecosystem services provides decision-makers (in both industry and policy) the possibility to consider trade-offs between alternative management scenarios:
  - Lesser ecological impact if food has marine origin in comparison to land-originated
  - Healthier: also a long term win for governmental cost?
- \*Ecosystem approach can enhance public support and thus give the different players a license to operate.



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# 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.

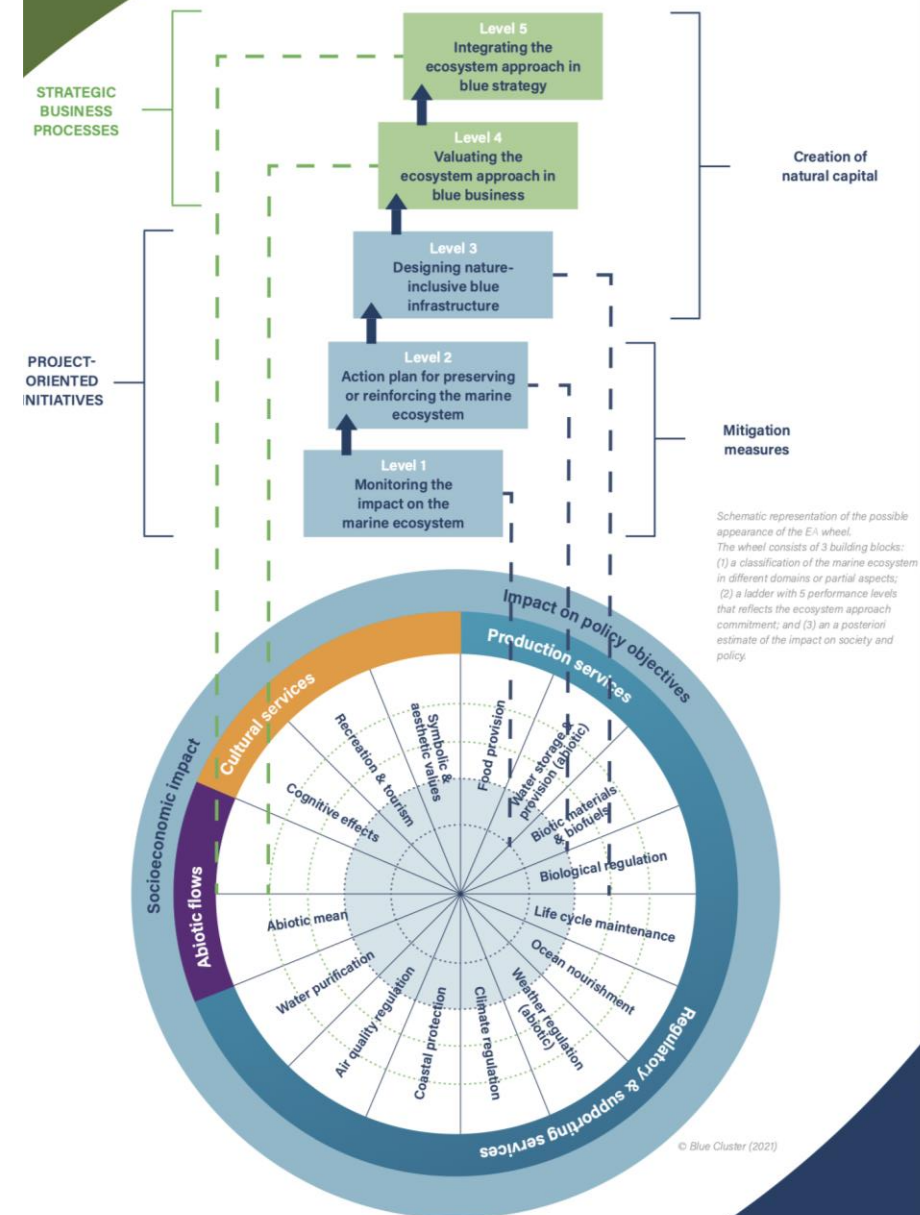


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# Ecosystem Services Valorization

- Ecosystem Approach (EA) Wheel provides inspiration for **impact assessment** and **cognitive framework** to understand ecosystem services and their benefits for companies and policymakers.
- It sets a “ladder” of integration of ecosystem services into decision-making.
- It defines environmental and socioeconomic impacts of ecosystem services.



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# Ecosystem approach

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How to give a value?

BlueBiocluster: create an awareness tool for Ecosystem Approach.  
Input from different projects



**WABESCO**



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# Matchmaking, Acceleration and Business Support

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- Stakeholder and technology **mapping**
- **Matchmaking** events, **co-creation** workshops and **mentoring**
- **Funding** for startups
- **Engage** investors, funders, mentors/coaches, ecosystem stakeholders and industry in a continuous dialogue



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# Blue Bio Match

The Blue Bioeconomy Hub

Search for active people

Lobby Live feed People Events Groups News Opportunities Admin Panel

Manage group

Mussels Working Group

Joined

Live feed Members Events News Media centre



bluebiomatch.eu

Blue Bio Match

Home Explore Connect Events Opportunities FAQ Admin Panel

Algae Working Group  
62 members  
Joined  
Go to Group  
The SUBMARINER Algae Working Group serves as a one-stop-shop for algae support tools...  
[See more](#)

Aquaculture Working Group  
36 members  
Joined  
Go to Group  
The SUBMARINER Aquaculture Working Group brings together researchers, companies, public...  
[See more](#)

Biotechnology Working Group  
27 members  
Joined  
Go to Group  
Biotechnology is about utilization of bio based materials and products. Biotechnology can act...  
[See more](#)

BlueBioClusters Matchmaking  
20 members  
Private  
Joined  
Go to Group  
BlueBioClusters - WPS - Matchmaking Activities During the next year we will ignite all...  
[See more](#)

CoP Peniche

Ecosystem Services and Valorization

Mussels Working Group

EMPOWERING WOMEN  
WIN BIG

Women in the Blue Economy

Search by location  
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Show map: Sort by: Recently active

Jurgen Adriaen  
Active today - Ostend, Belgium

Alberto Terenzi  
Active today - Berlin, Germany  
Working to support amazing people in joining forces

Agnes Isabella Dorich  
Active today - Oslo, Norway

Elin Traustadottir  
Active today - Brussels, Belgium  
Director @ Wellness Lab | Marine Collagen Production

10 opinions expressed by the European Union. Not for them.



# Blue Bio Match

The Blue Bioeconomy Hub



[bluebiomatch.eu](https://bluebiomatch.eu)

- Matchmaking platform between technology providers and users
- Mentoring for startups and SMEs
- Regional and thematic groups
- Events and opportunities
- Online innovation ecosystems for all project stakeholders and beyond
- Interested blue bioeconomy stakeholders **welcome to join!**



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# Start UP/Scale UP Support Program

- Identify them, treasure them
- Guiding, Matchmaking, Mentoring
- Bootcamp



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# Proposed Timeline 2024

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## ❖ Regional "Atlantic" Bootcamp

- March: announce applications opening
- April: selection process
- June: one-day Bootcamp (Brest?)
- Mentorship for the winners between June - September

## ❖ Transnational Bootcamp

- August: announce applications opening
- September: selection process, announce the selected Startups
- November: one-day onsite at Mission Arena (Amsterdam?)



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# GET INVOLVED

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- Blue Startups and SMEs needing solutions for their challenges
- Startups and SMEs with solutions for blue challenges
- Mentors
- Coaches
- Experts
- Business Development support actors

❖ Communication will follow (DBC newsletter, BlueBioMatch, LinkedIn,...)

PM, DM, SMS,..... @ [jurgen.adriaen@blauwecluster.be](mailto:jurgen.adriaen@blauwecluster.be)



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