

Portfolio of Project Factsheets (Bivalves)





Overview

These factsheets outline the outputs and commercialisation needs for the 36 BlueBio funded projects as of November 2023. This includes 17 projects from the cofunded call (\P), 9 projects from the 1st additional call (\P), and 7 from the 2nd additional call (\P).

Each factsheet contains the following information:

- Project Name
- Brief description/tagline
- Relevant Blue Invest sectoral opportunity icon (see next page for description)
- Website (if applicable)
- Country flags of industry partners in the consortium
- Outputs (including Technology Readiness Level (TRL), brief description, Intellectual Property Rights (if provided)
- Commercialisation Needs or Next Steps

More information on the projects available on www.bluebioeconomy.eu

Blue Invest Sector Opportunities

Aquaculture



Aquafeed



Broodstock



Disease battling & fish welfare



Equipment



Rearing/ Harvesting

Blue Biotechnology



Biofuels



Cosmetics



Food & Feed



General



Nutraceuticals



Pharmaceuticals



Waste Reduction

Blue Biotechnology



Fishery Services



Fishing Gear



Fishing



Ship Equipment





Advanced Materials using Biogenic Calcium Carbonate from Seashell Wastes

https://site.unibo.it/caseawa/en



Power of the off Outputsand Commercialisation Needs



Project consortium includes 1 company:



Outputs

Biogenic CaCo3 micro-& nano-particles



TRL 4/5

The grounded particles still preserve the compositional and texture features of the pristine seashells



Calcium phosphate biomaterials



TRL 3

Apatite micro-nano particles with osteogenic and luminescent properties obtained by innovative one-pot low temperature hydrothermal method.



Strengthened & conductive Levirex® compounds



TRL 4/5

Antistatic Levirex® sole shoes developed using conductive biogenic CaCO₃ particles.

Universität Konstanz





Commercialisation Needs

Upscaling

Regulatory aspects for food byproducts

Collection and storage chain of waste seashells

Industry Network (companies & services)







Sustainable utilisation of MARIne resources to foster GREEN plant production in Europe

Portfolio of Outputs and Commercialisation Needs

http://www.marigreen-project.eu/



Project consortium includes 3 SMEs & 2 Large Enterprises:



Outputs

Residue treatment methodologies



TRL 4

Treatments of fish, seaweed and mussel residues to obtain fertilisers/biostimulants. Organic fish farming sludge treatment methodology



TRL 4

Innovative treatment of RAS sludge from organic fish farming to obtain a composting material with a high carbon content.

Fertilisers and Biostimulants



TRL 5

Developed using different treatment technologies (grinding, mixing, pelletising, composting, extraction, compost fermentation, biochar impregnation).

Commercialisation Needs

Upscaling production and equipment

Designing fertilisers/
biostimulants targeted to market preferences

Linking raw material suppliers with processors/ farmers



MuMiFaST

Mussel mitigation feeds and supply system technological development

https://bluebioeconomy.eu/musselmitigation-feeds-and-supply-systemtechnological-development/

Portfolioef Outputsand Commercialisation Needs



Project consortium includes 1 SME and 3 large enterprises:



Outputs

Commercial mussel meal



TRL 5

Bioprocessing of waste material from mussel production, including optimisation of raw product and industrial-scale processing of meals.

Waste stream byproducts



TRL 4

By-products generated from waste streams of mussel production and processing of mussel meals.

Commercialisation Needs

Upscaling of raw product and processing lines

Informed regulatory framework for expanding industry

Valorisation of ecosystem services

Raising **Awareness**

Product development for sidestream fermentation



BIVALVI

Advancing European bivalve production systems

Portfolio of Outputsand Commercialisation Needs

https://bluebioeconomy.eu/advancingeuropean-bivalve-production-systems/



Project consortium includes 1 Large enterprise, 1 SME, and associated industry partners:



Outputs

Disease identification



List of diseases in bivalve production in Norway and Ireland.

Farming technology



Protocols for farming technology for Manila clam.

Clam Selective **Breeding**



Selective breeding programme for Manila clam.

Blue Mussel Selective Breeding



Pilot selective breeding programme for Blue mussel with sterile end products.

Disease resistance genes



Candidate genes for bivalve disease resistance.

*indicates changes in TRL level during project

Commercialisation Needs

Identify biotic and abiotic threats for bivalve production

supply from healthy and **bivalves**

Advance bivalve production systems

Ensure seed well performing

Engage with stakeholders

Develop selective breeding programmes for bivalves

