



HOW TO THROW GOOD MONEY AFTER GOOD MONEY

Getting from public funding to the market

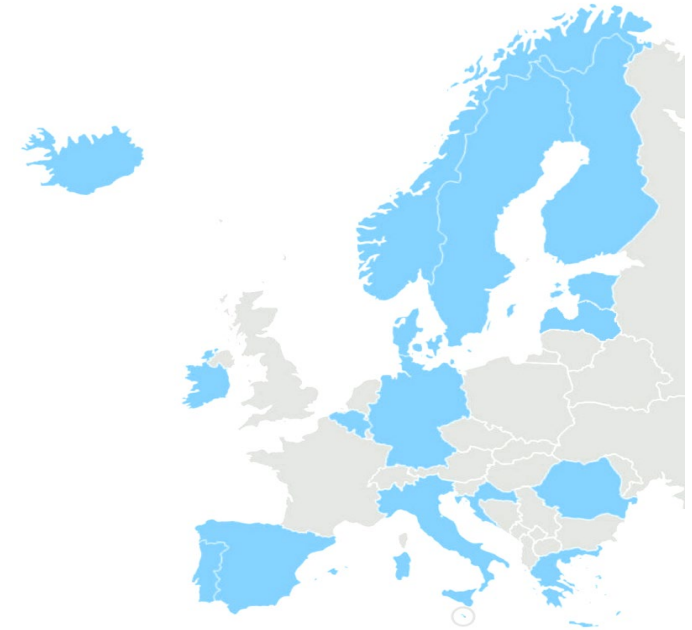
Ingeborg KORME, Coordinator team ERA-NET Cofund Blue Bioeconomy
The Research Council of Norway (RCN) & JPI Healthy and Productive Seas and Oceans
Aquaculture Europe Innovation Forum - 29.09.2022

Blue Bioeconomy ERA-NET Cofund “Unlocking the potential of aquatic bioresources”

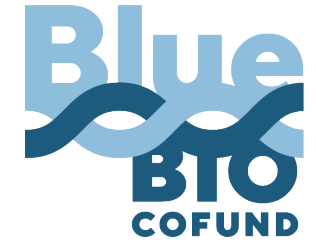
1 December 2018 – 31 May 2024

Identify new and improve existing ways of bringing bio-based products and services to the market

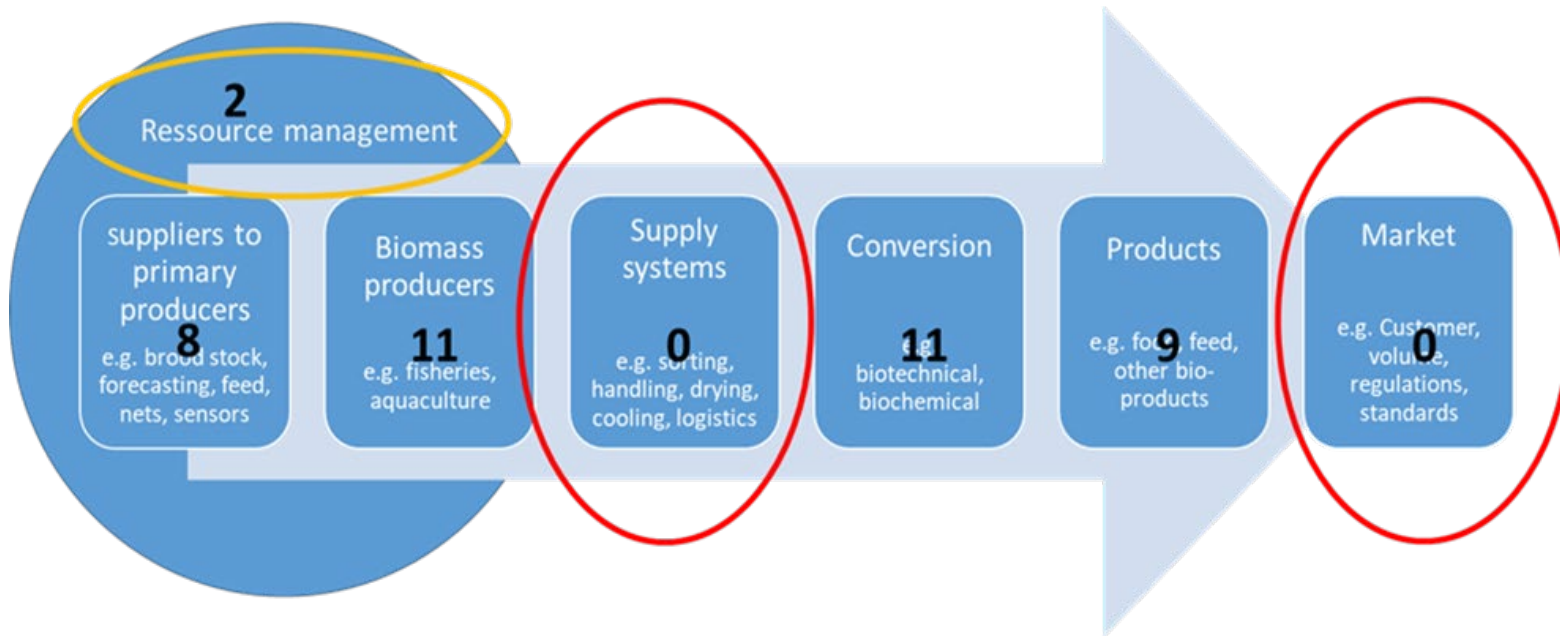
17 countries - 30 partners
(funding agencies and ministries)



Value chain approach



Launched three calls: December 2018, June 2020 and June 2021

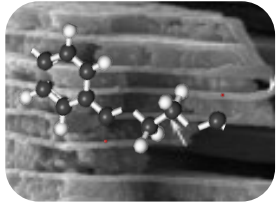


2020 call
Supply systems
13 countries, 11 mill €
Funded 10 projects

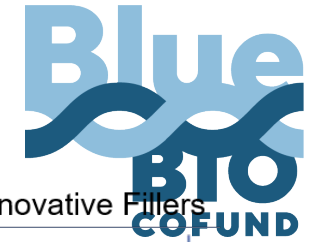
2021 call
Resource management and market
Currently 8 countries, 7.5 mill €
Possibly 6 or 7 projects

Industry involvement is mandatory!

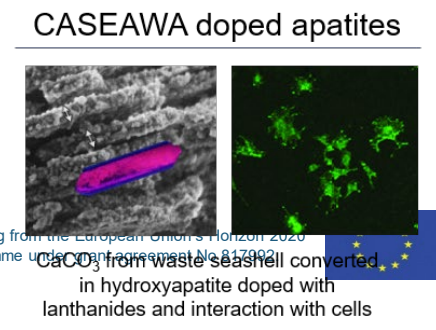
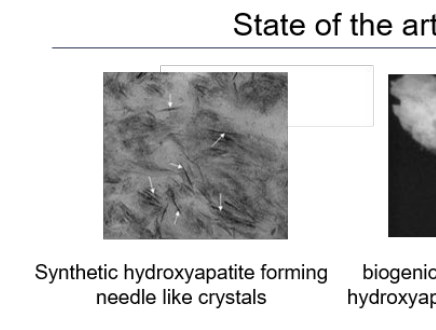
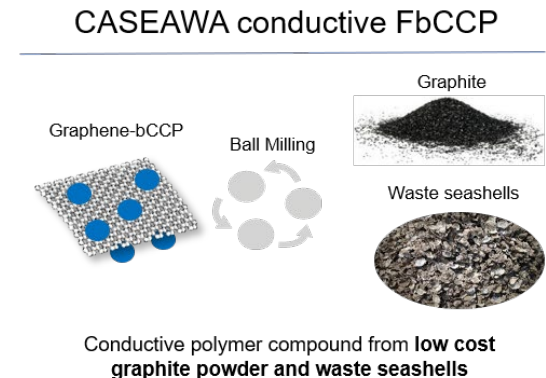
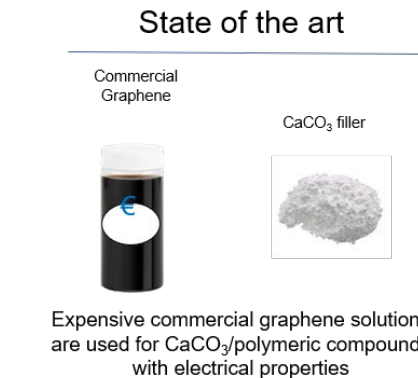
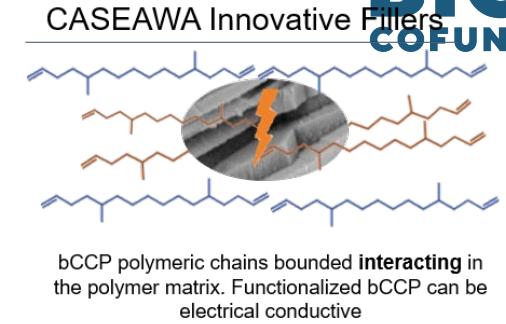
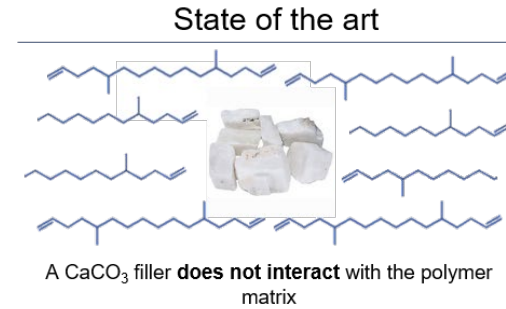
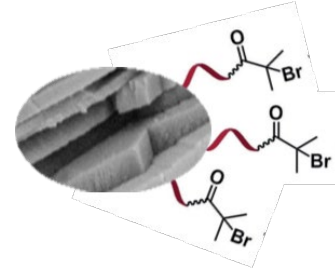




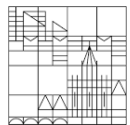
ADVANCED MATERIALS USING BIOGENIC CALCIUM CARBONATE FROM SEASHELL WASTES (CASEAWA)



grinding
→
chemical functionalization



Alma Mater Studiorum - Università di Bologna
Giuseppe Falini (Coordinator)



University of Konstanz
Helmu Coelfen (PI)



Consejo Superior de Investigaciones Cientificas
Jaime Gomez Morales (PI)

FINPROJECT®

Gabriele Maoloni(PI)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 847992

AquaHeal3D: All-marine 3D printed Wound Healing Accelerant

Project scope



Tunicates
Cellulose



Seaweed
Alginate



Salmon Roe
HTX – Bioactive
(skin re-epitelialization)

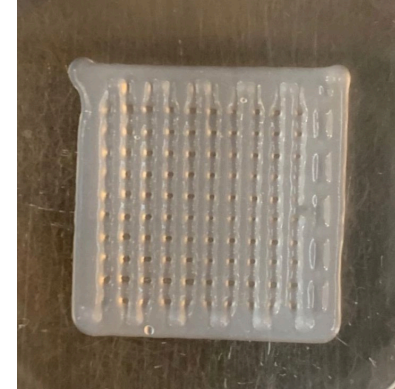


3D Printed Patch



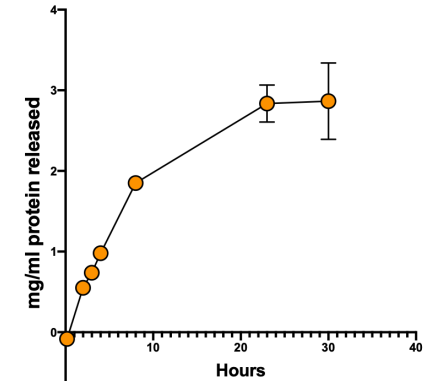
3D bioactive Wound
Healing Patch

Status June 9th

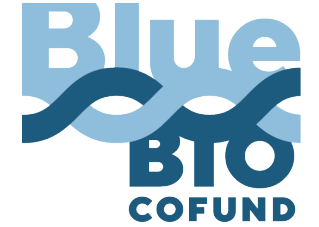


- Prototype
- HTX: marine bioactive ingredient integrated in bio-ink

- Initial release kinetics satisfactory
- Slow-release kinetics



- Bioassays pending (fibroblast collagen production)
- Animal testing on wounds in Q1 2021 (mini-pigs Charles River)
- Clinical study in patients in 2021/2022



Novel enhanced bioplastics from sustainable processing of seaweed



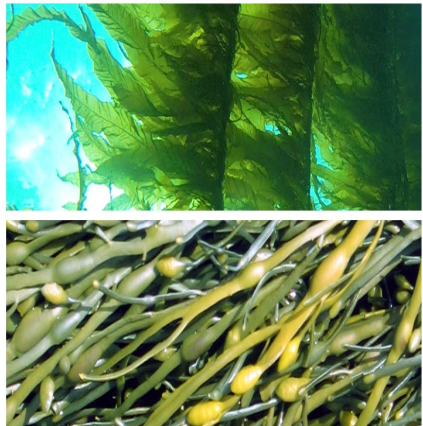
Project duration: 01.03.2020 – 01.03.2023

Project coordinator: SINTEF Industry, Dept. of Biotechnology and Nanomedicine (Øystein Arlov)

<https://www.sintef.no/plastisea>

PlastiSea

Cultivated and wild brown algae



Biomass processing



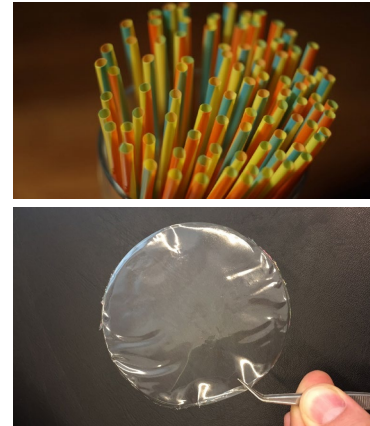
Bulk utilization



Biorefinery



Bioplastic prototypes for pilot scale production



LCA, sustainability and economical assessment of seaweed harvest, processing and products

The PlastiSea project will

- Introduce novel bioplastics with enhanced processability and performances toward single-use materials for the food industry, and for applications in pharmaceutical packaging or coating
- Expand the knowledge on brown algae biomass and processing for medium- and large-scale applications
- Identify opportunities and challenges of upscaling and boosting European seaweed-based industries
- Uphold an active dialogue with industry end users and consumers for results exploitation

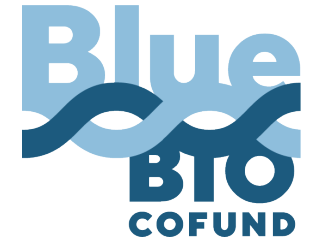


COMMERCIALIZATION SUPPORT

How to throw good money after good money?

One of the more common routes from policy to solutions is through publicly funded research and innovation.

But where do we go after the R&I projects have been funded? How do we get to the solutions?



As public funders in BlueBio, we connect European national R&I priorities in the blue bioeconomy.

Our method is to use calls and networking between our projects, encompassed by our value chain approach.



But “uptake” is about reaching the market. And how do you get from a public funded R&I project to the market?

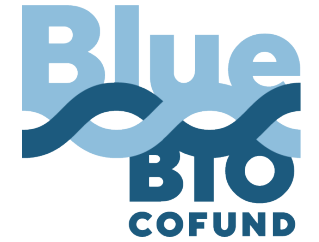
And what do you do when the professor (probably) doesn't want to start a spin-out?

What we do: **supportive activities**

- Create connectivity and stimulate synergy among projects
 - Online networking meetings
- Human capacity building
 - Targeted webinars and training courses for students and non-students
- Commercialization support



Targeted commercialization support



Impact and market readiness

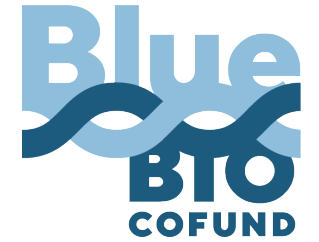
- Move up in Technology Readiness Level.
- Learn to prepare for commercialization.
- Meet potential investors.
- Plan for post-BlueBio.



Pre-seed funding
Commercialization know-how
Becoming a spin-out
Getting even closer to the market



Challenges in public funded innovation



- I. **From public funding to the market:** almost no overlap in TRL level between public funders and Venture Capital.
- II. **From open science to Intellectual Property Rights:** who owns what?
- III. **Time will tear us apart:** very different pace at research institutions and industry partners.



Process of support action for commercialization

1. Input from mid-term meeting and presentations (March -22).
2. Initial meetings with actors in the innovation and start-up space (spring -22).
 1. Blue Invest
 2. EIT Food
 3. Katapult Ocean
 4. Bioeconomy Ventures
 5. EATiP
3. Survey to all project coordinators (August -22).
4. E-coffee meeting on commercialization support (October -22).
5. Matchmaking with European instruments.



ARE YOU THE ONE WE HAVE
BEEN LOOKING FOR?

Thank you!



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[28.MB Roadmap, Responsibilities.docx](#)

**New BlueBio ERA-NET COFUND
on the Blue Bioeconomy**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 817992.