

Newsletter

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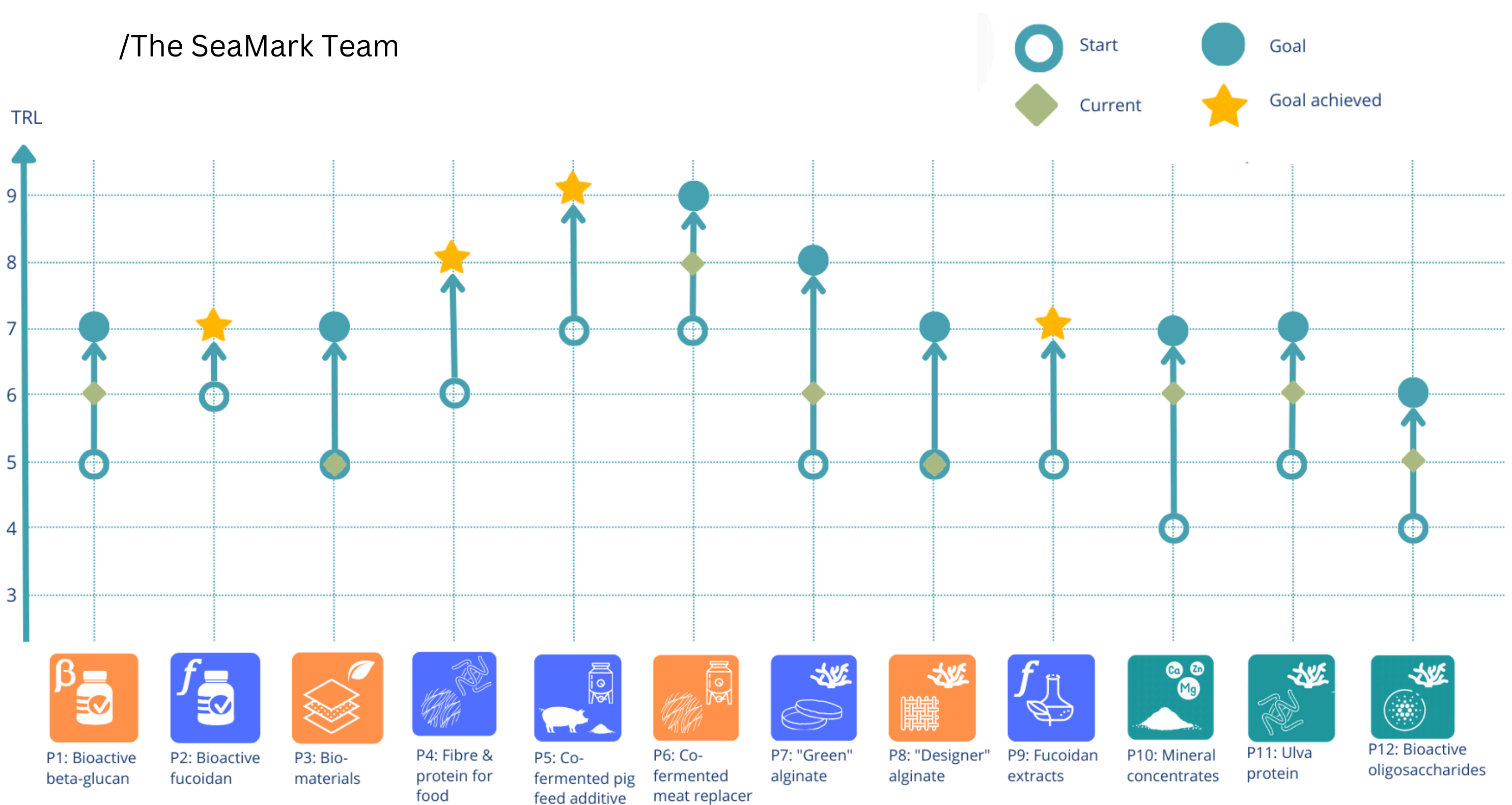


SeaMark enters its final year!

We are officially in the final phase of the project and making rapid progress! In June, we will be submitting several key deliverables, including the biodiversity assessments (see a sneak peek on page 3). Product development is actively ongoing across all areas, and many partners have already achieved their targeted Technology Readiness Levels (TRLs), as shown below.

As we move into the final phase, our focus is on accelerating progress further and translating our findings into clear, actionable recommendations to maximise Europe's potential for sustainable seaweed use.

/The SeaMark Team



Biodiversity and carbon sequestration assessments of three seaweed farms finished

Sjókovin, led by PhD candidate Sophie Koch, has just finished two big environmental sustainability assessments.

First, **the biodiversity assessments** revealed something exciting: Ocean Rainforest's cultivation system, which stays in the water for up to three years, creates a stable, long-term habitat. This supports a wider variety and a greater number of marine species compared to traditional systems that are removed and replaced each year.

Even more promising is the partial harvest method. By leaving the holdfast and stem intact, habitat continuity can be maintained for mobile species even after harvest. This could be a game-changer for sustainable aquaculture.

That said, more research is needed to fully understand how harvesting practices affect marine biodiversity over time.



Second, the **carbon sequestration study** reveals that a significant amount of carbon is sequestered in the water for every tonne of *Saccharina latissima* (wet-weight) cultivated. However, the extent of carbon sequestration varies considerably across the three study sites located in the Faroe Islands, Norway, and France. This is due to differences in environmental conditions and cultivation methods. The direct carbon uptake in the seaweed biomass relates to the chemical composition of *S. latissima* and harvested amounts.

In the Faroe Islands an average carbon removal when harvesting and bringing the kelp on land is around 25 kg per ton wet-weight. The preservation, processing and product application determine the full picture of carbon uptake and will be assessed in the Life Cycle Assessment of the flagship products later in the project.

The amount of biomass lost to the surroundings during cultivation at sea also differs between sites. Notably, the use of partial harvest techniques, where kelp is left in the water over winter to allow for regrowth, plays a critical role. While this method supports sustainability through habitat creation, it also results in the highest biomass loss to the surrounding marine environment. This lost biomass may enter the marine food web or sink to deeper ocean layers, where it contributes to long-term carbon storage.

ALGApus releases a new product: SEA ORIGINALS Thalassotherapy Kit

Inspired by the 19th-century European spa tradition of thalassotherapy, this kit blends sea lettuce and Atlantic sea salt to deliver a deeply relaxing and skin-refreshing bath experience. Sea lettuce is rich in antioxidants and minerals that support hydration, while sea salt acts as a gentle exfoliant with mild cleansing properties.

Each kit includes three single-use sachets, pre-measured for ease and convenience, no prep, no complicated rituals. Just a simple, natural way to enhance your bath routine with ingredients you can trace and trust.

Discover the kit: [Order now](#)



Public summaries now available for all SeaMark deliverables!

To make SeaMark's progress more accessible, we've started publishing public summaries of our confidential deliverables as well.

Among the highlights, deliverables 8.2 and 8.3 show that scaling up cultivation, improving drying processes and placing biorefineries closer to farms could significantly cut production costs, especially for beta-glucans and green alginates.

You can browse all the summaries at seamark.eu/about/deliverables. We'll continue updating the page as new deliverables are submitted, so stay tuned!



Upcoming events in 2025:

- [Submariner Working Group - Blue Economy Jobs and Skills](#), September 4, Online
- [Aquaculture Europe](#), September 22 - 25, Valencia, Spain
- [2nd EU Algae Awareness Summit](#), 16-17 October, Berlin, Germany
- [Nordic Photosynthesis Congress and Algae Symposium](#), October 20 - 23, Elsinore, Denmark



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