

JŪRAS SINERĢIJAS FORUMS

JŪRAS MAKROAĻĢU PĀRSTRĀDES UN AUDZĒŠANAS TEHNOLOĢIJAS

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Inženieris
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KURZEMES
PLĀNOŠANAS
REĢIONS



LATVIJAS
HIDROEKOĻĢIJAS
INSTITŪTS

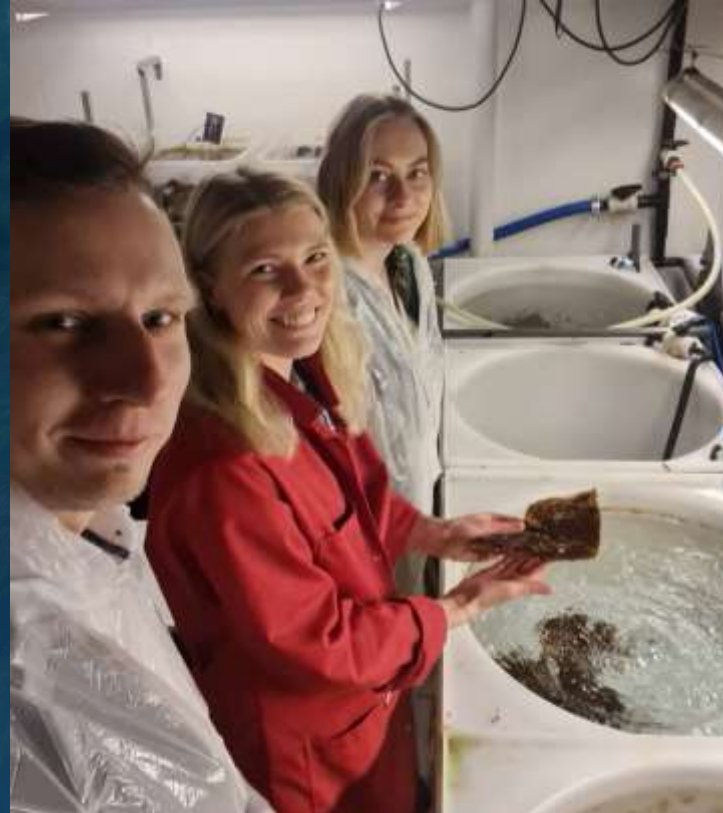


Finansē
Eiropas Savienība

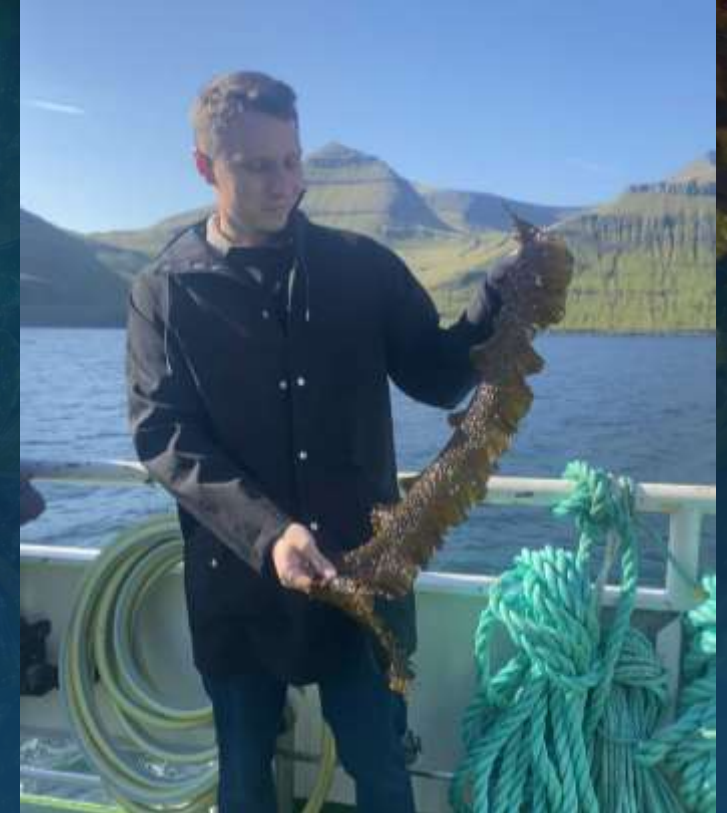
First scalable seaweed production rig installation in Norway 2017



Project with SINTEF - Norway's leading research institute 2020



Project in Faroe Islands with Ocean Rainforest



About Sirputis

Sirputis brings more than a decade of seaweed industry experience together with strong machinery engineering know-how, delivering tailored solutions for cultivation, harvesting, processing, and extraction.

With 100+ projects worldwide, we help clients build reliable and scalable seaweed operations across the value chain.

EU Funded Projects



Smart DFI



Eurostars

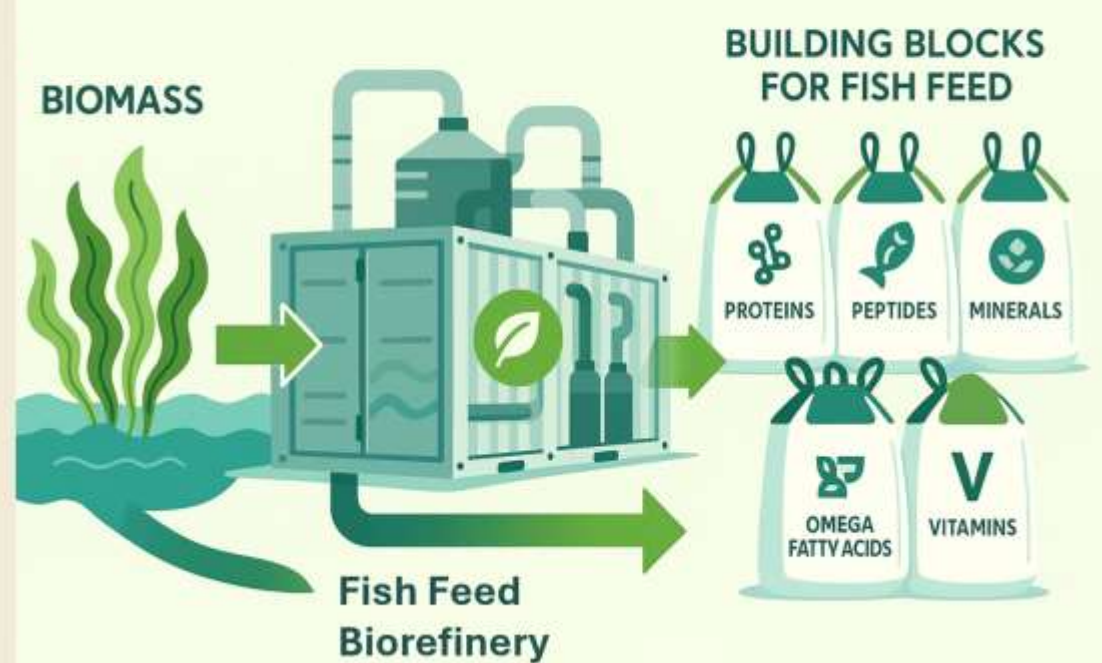
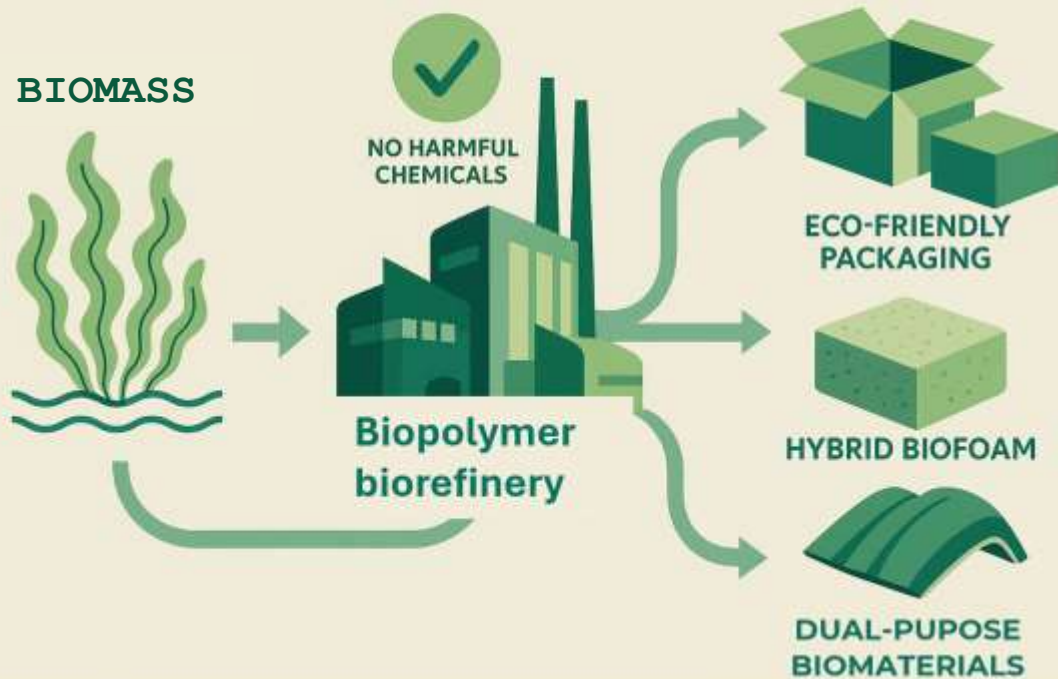
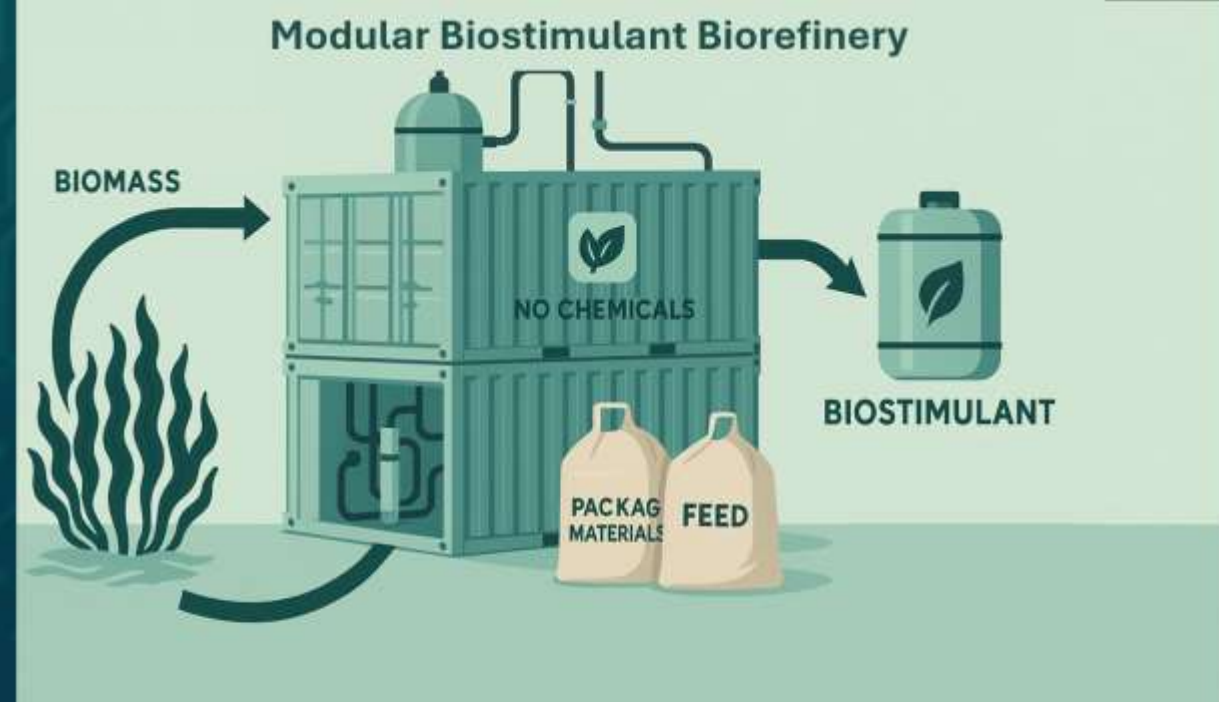


Seamark (Horizon)



SIRPUTIS

3 Pillars





10+
years

100+
projects

17
countries

 Delivered projects

[Project references link](#)

REFERENCES & VALUE CHAIN



Direct seeding



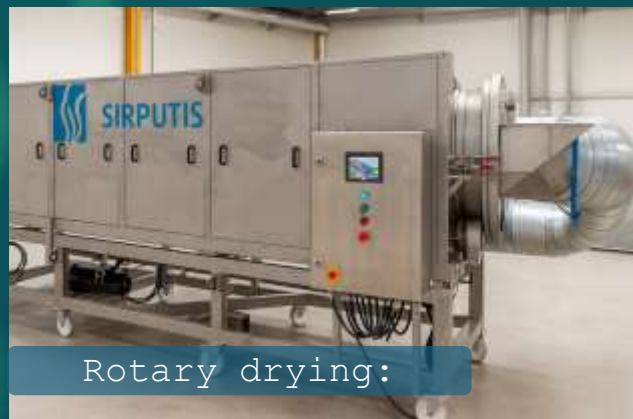
Harvesting & processing



Processing and extraction



Work stations



Rotary drying:



Process and storage tanks



Belt drying: Heat pump / fuel



Dry seaweed handling

[Project references link](#)

PARTNERS AND CLIENTS



DEEP KNOWLEDGE OF COMMON SPECIES

Ascophyllum
nodosum



Saccharina
latissima



Alaria
esculenta



Macrocystis
pyrifera



Eucheuma
spinosum



Cottonii



Sargassum



Ulva



WHAT IS SEAWEED GOOD FOR?

Most people use seaweed products from waking up to bed

Food



Cake



Ice cream



Milk



Processed meat products



Noodles



Jelly

Cosmetics



Soaps



Shampoos



Toothpaste



Moisturizers



Lotions



Serums

Pharmaceuticals



Tablets and capsules



Wound coatings



Syrups

Biomateria



Packaging barriers



Foam



Injection molded

Notpla, a seaweed-based packaging startup, aims to replace 1 billion single-use plastic items by 2030.

The company has already displaced 21 million plastic units, with products now used at major UK venues like Tottenham Hotspur Stadium and IKEA's London restaurant.

1



4:00 pm · 8 Jun 2025 · 9,522 Views

Investing

Uluu raises \$16 million to scale seaweed solution

By Anastasia Sartorenes

October 30, 2025



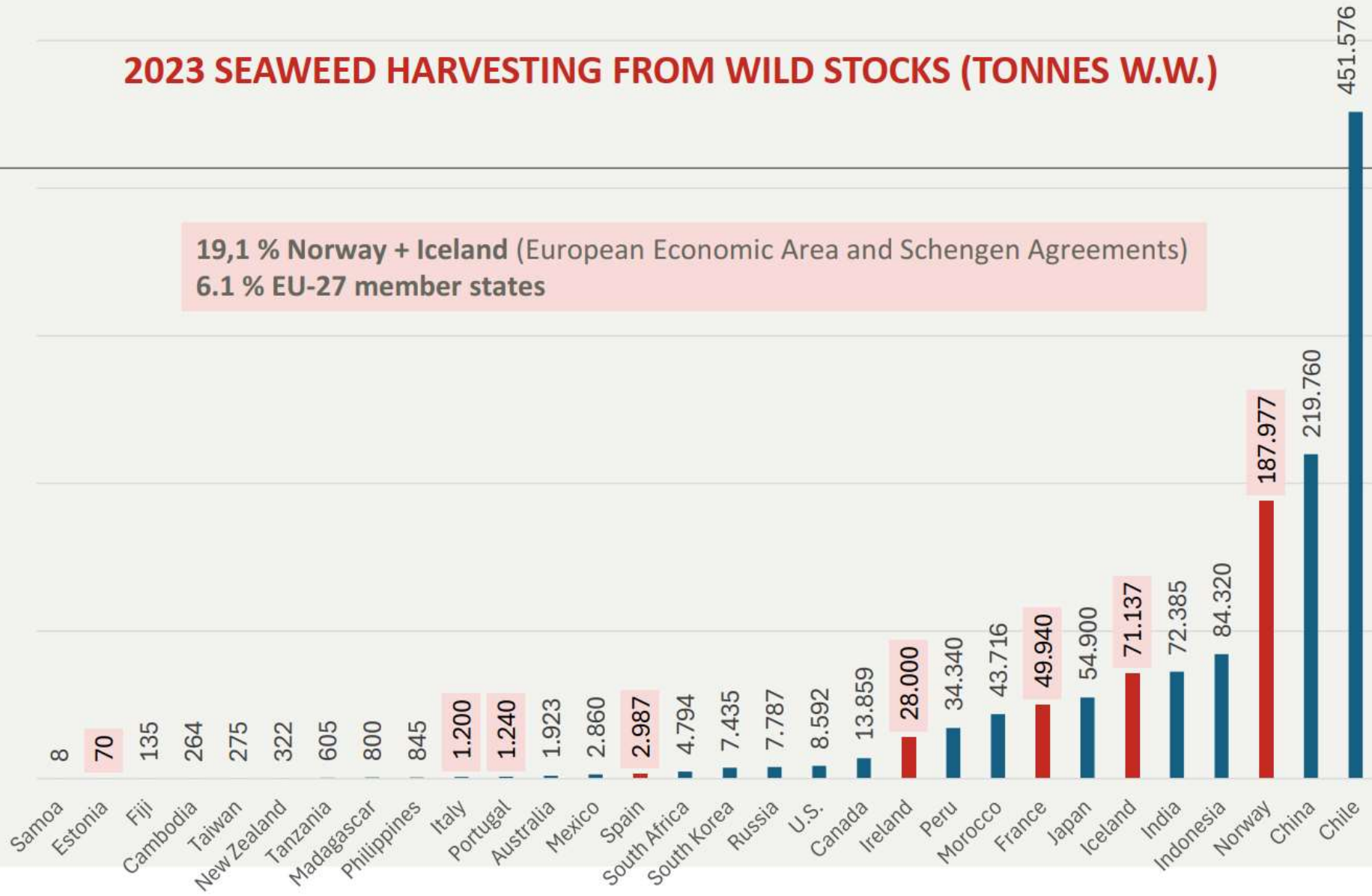
Backed by fresh capital, Australian start-up Uluu is set to scale its seaweed-based plastic alternative, aiming to disrupt the US\$700 billion global plastics industry.



Seaweed solution Uluu raises \$16 million to scale plastic alternatives. Pictured, Uluu co-founders and co-CEOs, Michael Kingstary (L) and Dr. Julia Reisser (R). Image source: Supplied

2023 SEAWEED HARVESTING FROM WILD STOCKS (TONNES W.W.)

19,1 % Norway + Iceland (European Economic Area and Schengen Agreements)
6.1 % EU-27 member states



FINLAND, ESTONIA, LATVIA, LITHUANIA

Latvia and Lithuania currently no commercial seaweed

<input type="checkbox"/>	Name	Headquart...	Value chain	Species	Production process	Industry (Applications)
1	EstAgar	Estonia	Farming & harvesting Applications	Furcellaria lumbricalis	Wild harvesting	Hydrocolloids
2	Vetik	Estonia	Applications	Furcellaria lumbricalis	Wild harvesting	Pigments, inks, dyes Biostimulants
3	Numami	Estonia	Applications			Food
4	Furcella Oü (Berrichi)	Estonia	Applications			Personal care
5	Nordaqua	Finland	Multi-stakeholder platform Research			
6	Origin by Ocean	Finland	Farming & harvesting Processing	Fucus vesiculosus Sargassum sp. Sacc	Wild harvesting Aqu.	Personal care
7	Nemo Seafarms	Finland	Farming & harvesting	Fucus sp.	Aquaculture	
8	SFTec	Finland	Processing			
9	Under Ytan	Finland	Farming & harvesting Applications	Cladophora glomerata	Wild harvesting Aqu.	Food Biostimulants
10	Sirputis	Lithuania	Infrastructure & equipment			
11	Seaweed Foam	Lithuania	Applications			Biopolymers / coatings / materials

Headquarters	Companies	Headquarters	Companies	Headquarters	Companies
Germany	24	Sweden	18	Latvia	0 (?)
Poland	1	Denmark	22	Norway	53

HYDROCOLLOIDS

Industrial & Food Applications

High-value polymers for gels, thickeners, stabilizers and film-formers



FURCELLARAN

(Red Seaweed)

Furcellaria lumbricalis

ULVAN

(Green Seaweed)

Emerging

ALGINATE

(Brown Seaweed)

Possible but limited

Markets

- Food & Beverages
- Pharma
- Biomaterials & Industrial

FUCOIDAN

Health & Functional Ingredients

Bioactive sulfated polysaccharide with growing interest in health, nutraceutical and cosmetic applications



FUCOIDAN

(Brown Seaweed)

Fucus vesiculosus

Markets

- Food
- Pharma & Cosmetics

Baltic Potential

Proven for furcellaran, emerging for ulvan, limited for alginate in Baltic species

BIOSTIMULANTS

Agriculture & Horticulture

Seaweed extracts to improve plant growth, stress tolerance, soil health and yield



SEAWEED EXTRACTS

(Brown, Red, Green)

Multiple Species

Markets

- Agriculture
- Horticulture
- Turf & Ornamentals

Baltic Potential

Most realistic near-term multi-species route in the Baltic

FOOD INGREDIENTS

From Cultivated

Sustainable source of minerals, protein, fiber, omega-3 and unique flavor compounds



CULTIVATED SPECIES

Ulva (Green Seaweed)

- Human Food
- Plant-based Products
- Feed & Pet Food

Baltic Potential

Viable only with cultivated, traceable biomass, with *Ulva* the strongest near-term candidate

Baltic case most compelling for furcellaran, niche for fucoidan, broad opportunity for biostimulants

HOW TO START?



Seaweed production:



Seaweed valorisation:



Introducing the ARCTIC SEAWEED Platform

High area utilisation
(up to 24km or 2m/sqm)

Adaptability to
different conditions &
species

Interconnectable
modular design

Cultivation process
based on
Direct Seeding

Highly automated &
mechanized system

Build on end2end
integration
*(direct seeding, harvesting, stabilisation
to customer)*

86 m

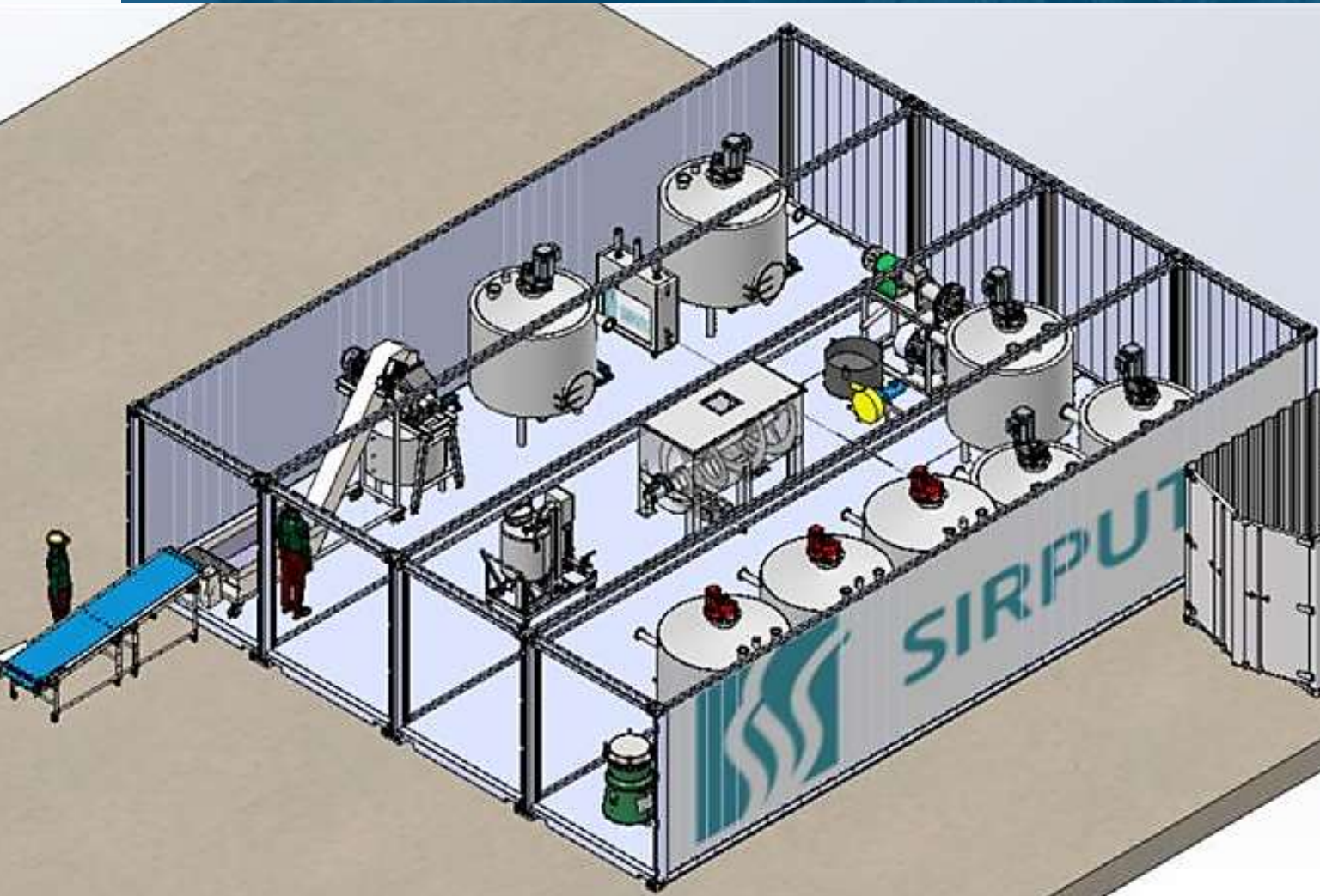
12.600 sqm (ca. 1,26 ha)

farming module size

150 m

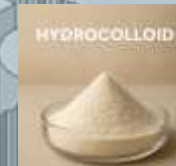


MODULAR BIOREFINERY SOLUTION



Highly customizable
multi-stream
platform:

1. Biostimulant
2. Residual solids for feed
3. Alginate
4. Cellulose
5. Fucoidan brine
6. Dried seaweed
7. Fermented/pickled



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