

Seaweed Solutions AS (SES)



-Sugarkelp-

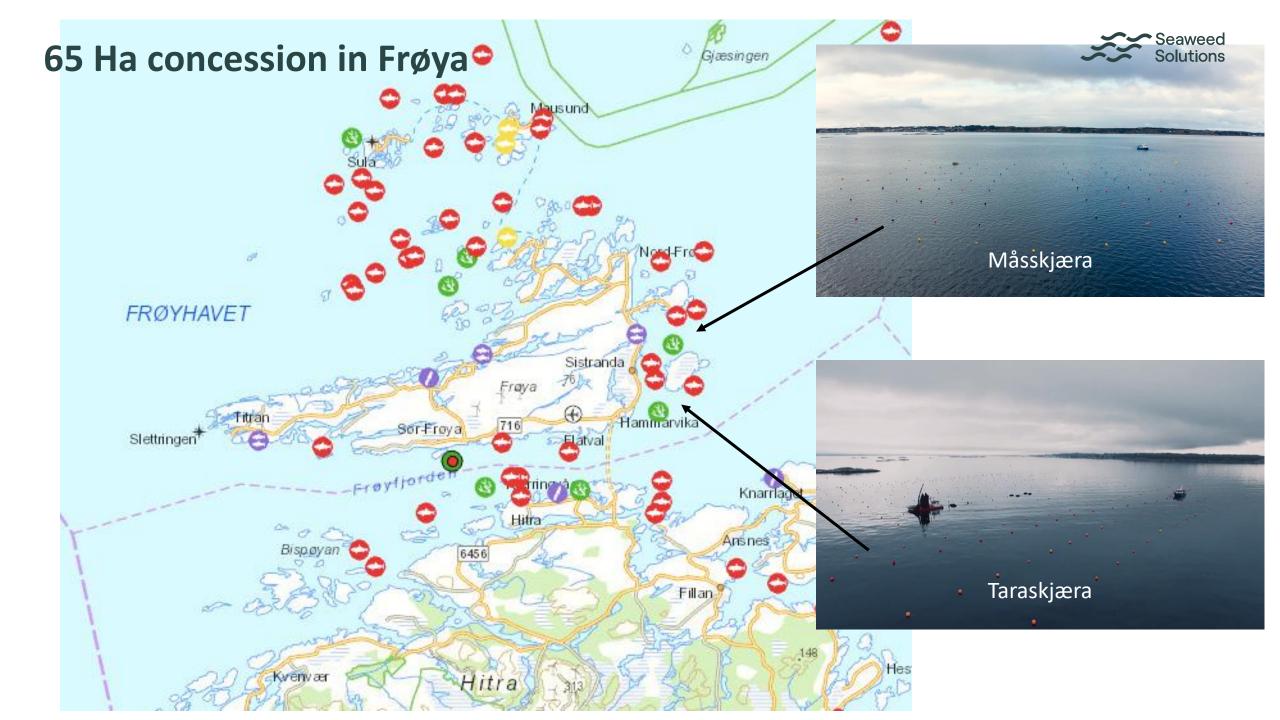
-Winged kelp-



- Established in 2009 with a vision of developing large skale seaweed farming as a new industry in Norway and Europe
- Norways first seaweedfarming site established in Frøya in 2019
- Farm and sell Saccharina latissima (sugarkelp) and Alaria esculenta (winged kelp) for food and feed in the B2B market
- Ecologically certified along the entire value chain
- Seedlings production for other farmers in Norway and Europe
- Strong focus on R&D and partnerships

Lokalitet: Trondheim, Frøya og Hitra





Seaweed Solutions Team





Jon Funderud CEO



Maren Sæther Processing and Quality Manager



David Aldridge Hatchery Manager



Andreas Lavik Seed Sales and Partnerships



Lennart Ahrné Senior Market Advisor



Frank Neumann Marine Technology Manager



Kristian Cato Haugen Seafarm Manager



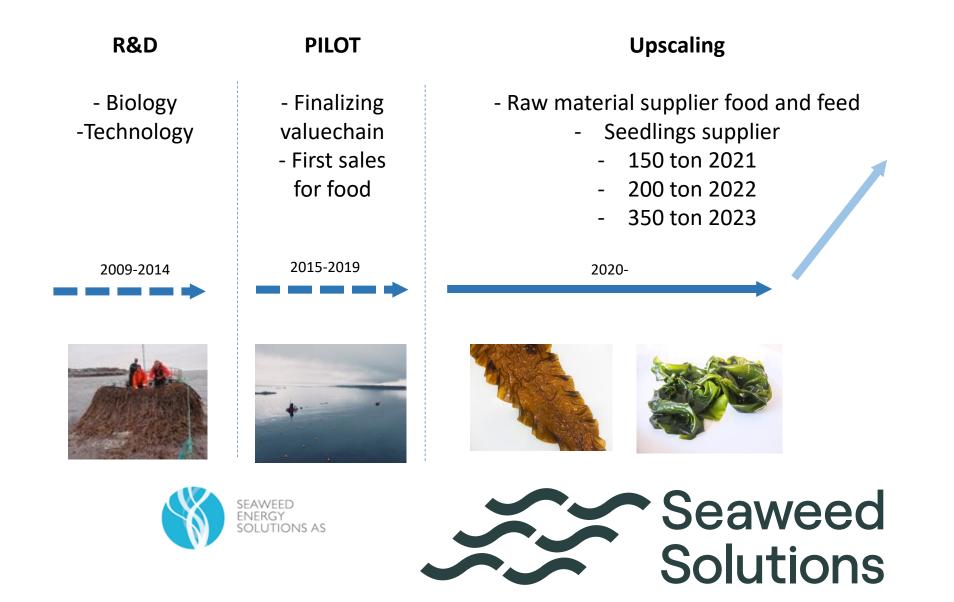
Diogo Raposo Cultivation Coordinator



Ana Borrero Environmental Research Coordinator

SES – History





Farming of seaweed – from spore to raw material





New sea farm 2022 – 19 ha (500 ton capacity) <u>Plus</u> another under construction









Fresh-frozen and blanched-frozen

Cut, grinded or whole leaf

Packing format

The opportunity



Seaweed – The biomass of the future

Sustainable: No feed, fertilizer, pesticides, freshwater or land use Scalable: Major potential for upscaling offshore (billions of tons) Increasing demand: Food, feed, bioplastics, and bioenergy Perfect timing: hitting the mega-trends (climate, health, blue economy)











treakthroughs This edible packaging will make rou reconsider seaweed Sector (1991) 100 Sector (1991) 100



A valuable biomass





Market opportunities



Food

- Salads, soups, smoothie, herbs
- Snacks
- Vegetarian/vegan
- Salt replacement
- Flavour
- Texturizer





Specialty chemicals

- Alginate
- Carrageenan
- Agar
- Mannitol
- Cellulose
- Bioplastics
- Fiber and textiles
- Minerals

Health & nutrition

- Pharmaceuticals
- Nutraceuticals
- Functional food ingredients
- Functional feed ingredients
- Cosmetics
- Plant biostimulants





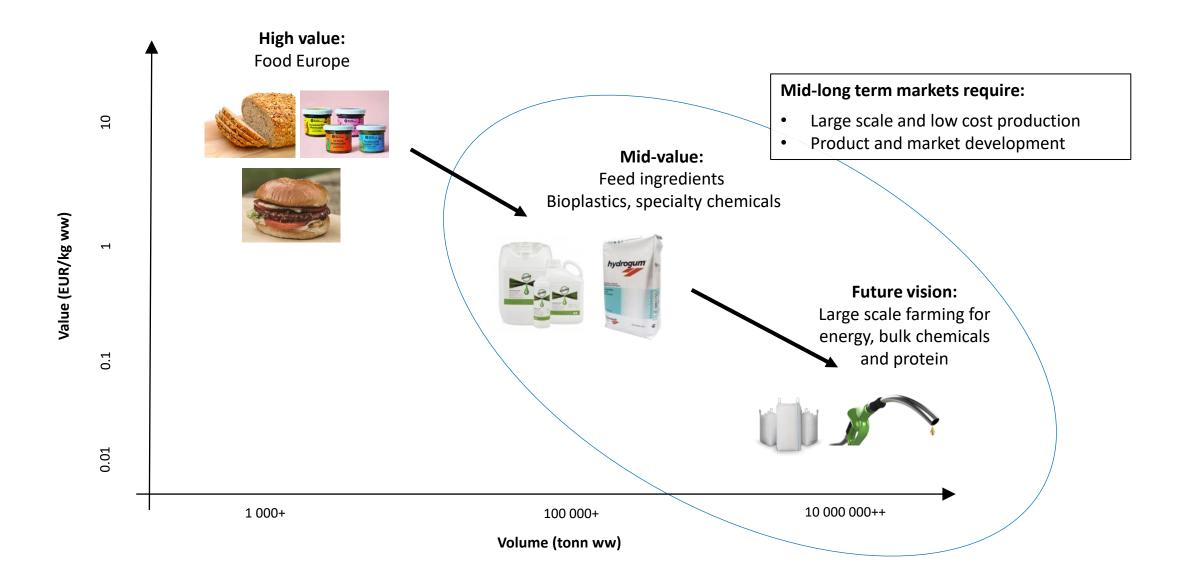


Industrial commodities

- Biofuels and biogas
- Biochemicals
- Protein
- Fertilizers

Market roadmap







Challenge	Solution
Iodine	Blanching Species selection Inclusion level
	Informing/labelling
Heavy metals (cadmium, inorganic arsenic)	Monitoring (analysis) Processing
Allergenes (fish, shellfish, molluscs)	Monitoring (analysis) Reduction (washing, holdtfast removal, sorting) Inclusion level

European food innovation – a wave of new food products containing seaweed Solutions

- ✓ Climate friendly
- ✓ Vegan / plant based
- ✓ Healthy
- ✓ "Clean label"
- ✓ "Natural"
- ✓ Product developed in Estonia:



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Join us in unlocking the potential of seaweed!



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