



Ecomondo/BlueInvest

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KELP-EU will....

- Kickstart the European sustainable seaweed industry and sustainable seaweed farming by processing 150 tonnes of European farmed seaweed
- Develop best-in-class processing infrastructure to create food, nutraceuticals and bio-materials products
- **#** Be delivered in 18 months
- Be delivered solely by Oceanium, a Scottish seaweed processor

Work packages

- 1. Project management
- 2. Development of sustainably farmed seaweed supply chain
- 3. Scale up of seaweed processing and demonstrator biorefinery site identification and design
- 4. Development of seaweed products
- 5. Exploitation and dissemination

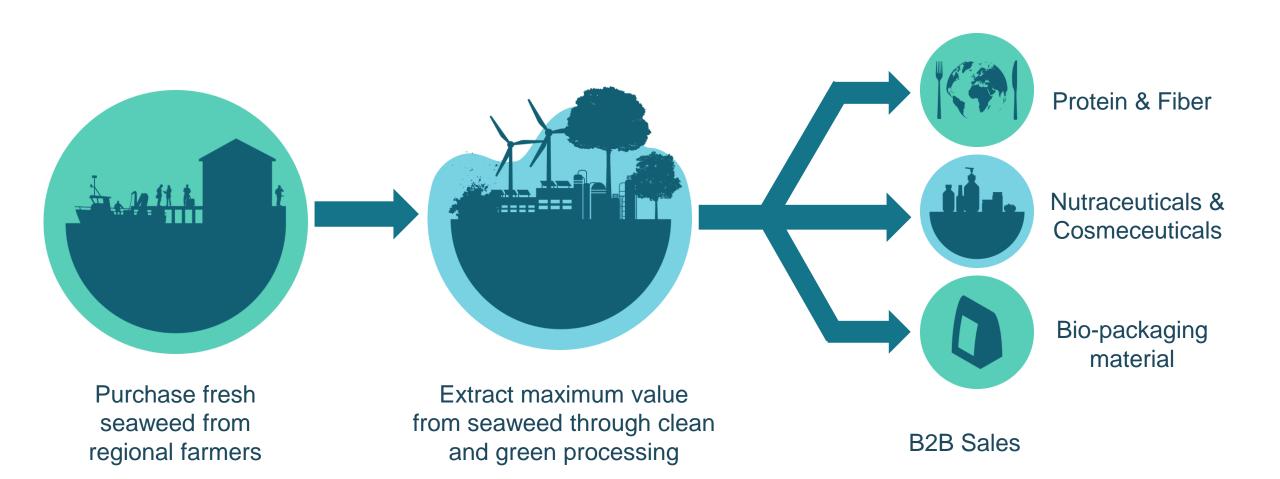


- **Over millennia, seaweed has evolved some nifty protective and restorative mechanisms to survive against extreme conditions from freezing water to boiling beaches.
- **Seaweeds** are remarkably regenerative, resilient and nutrient rich marine plants.





Scaling Up an Innovative, Clean and Green Technology





Products Being Developed in the KELP-EU Project



AN OCEANIUM® BRAND



AN OCEANIUM® BRAND

And in the background...





Seaweed Production Is Set to Increase to Meet Demand

3x

Global market growth between 2000-2018

32.4m tonnes

With production value of \$13.3bn (€11.3bn) in 2018

€9.3bn

Potential industry demand in Europe by 2030, with European supply contributing 30%

8.3m tonnes

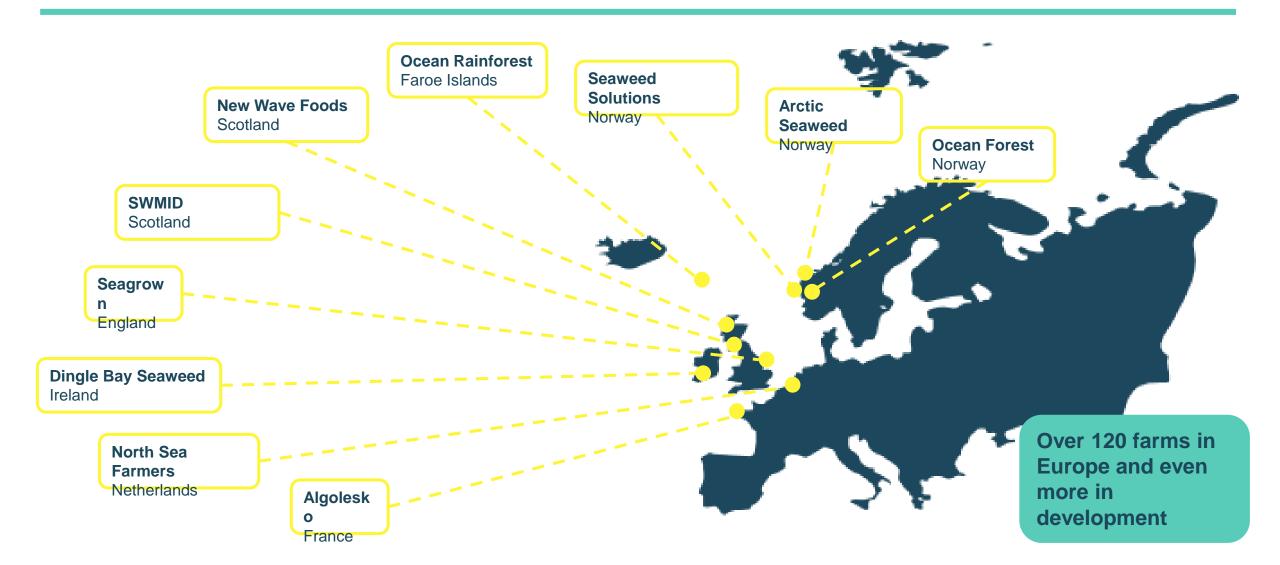
Or 27,000 hectares: the European supply that could meet this demand

Source: Seaweed for Europe (2021) Investor Memo

*Based on high ambition case



The Growing European Seaweed Farmer Community Is Stepping Up





The Foundations for Europe's Seaweed Industry Already Exist

World class ocean impact startups in Europe

Historic marine skills base and R&D capability

Strong alignment with European Green Deal

85% of European seaweed startups already at TRL8 or TRL9

North Sea and Atlantic waters make for ideal growing conditions



Source: Seaweed for Europe (2021) Investor Memo

*Based on high ambition case



KELP-EU's Mission...

...To kickstart the
European sustainable
seaweed industry and
sustainable farming by
developing seaweedbased products for
people health and
planet health

Potential benefits of a European seaweed industry...

85,000

FTE jobs in Europe by 2030 (direct, indirect and induced)

5,400,000

CO₂ emissions mitigated in 2030

600-2000

Tonnes of phosphorous removed annually from coastal waters in 2030

6000-20,000

Tonnes of nitrogen removed from annually coastal waters in 2030

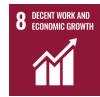
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KELP-EU Will Have an Impact on Global Challenges

New food/nutrition ingredients contribute to improved diets and nutrition	2
# Circular biobased materials	12
Reduced reliance on terrestrial agriculture and freshwater resources	2
Replaces carbon-intensive products	12
# Few waste products from processing	12
Reduced plastic waste at sea	14
Increased regional aquaculture-based food production	14
Positive marine biodiversity impacts	14
# 750+ jobs and stimulate £160m+ of goods and services globally by 2030	9
# Direct GVA up to £57.56m by 2030	8
# Technical upskilling/reskilling of workforce	9
R&D investment in innovation and novel products	9



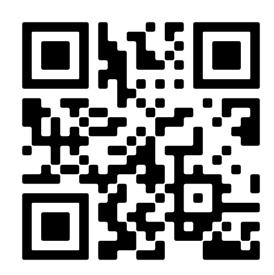








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