# The Opportunity for the UK Seaweed Aquaculture



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Global perspective on the opportunity

# Seaweed aquaculture in 3 numbers

#### Current seaweed aquaculture value: \$13.3 bn

The global seaweed market tripled between 2000-2018 to \$13.3 billion. 99% in Asia



Food and Agriculture Organization of the United Nations

#### New seaweed applications value: \$11.8 bn

10 new seaweed applications with the potential to grow by an additional \$11.8 billion by 2030



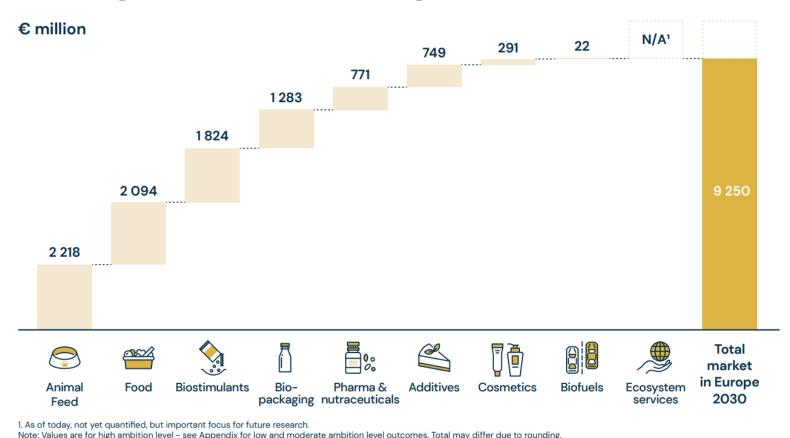
European 2030 seaweed market: €3bn-€9.3bn

European seaweed market to grow up to €9.3bn by 2030



High ambition case scenario (Source: Seaweed for Europe: Investor Memo, 2021)

## European seaweed products demand



"Seaweed is a high-potential renewable material that can help produce more sustainable and better performing chemicals and packaging at the scale needed"

Peter ter Kulve President Unilever Home Care



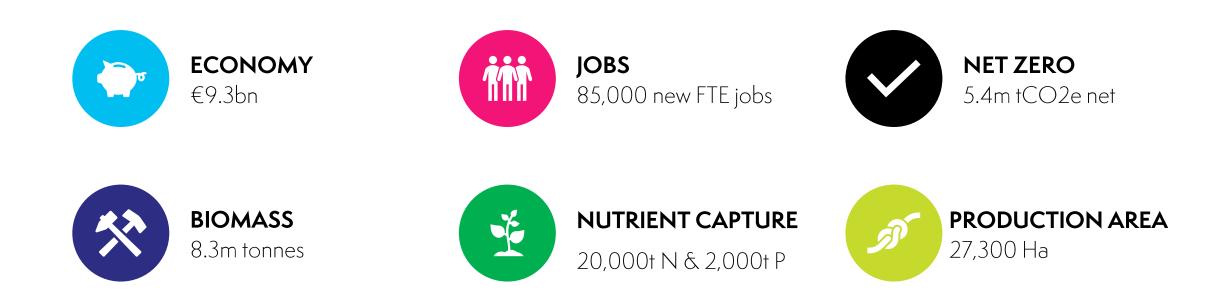
Unilever

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Significant positive impacts for Europe by 2030

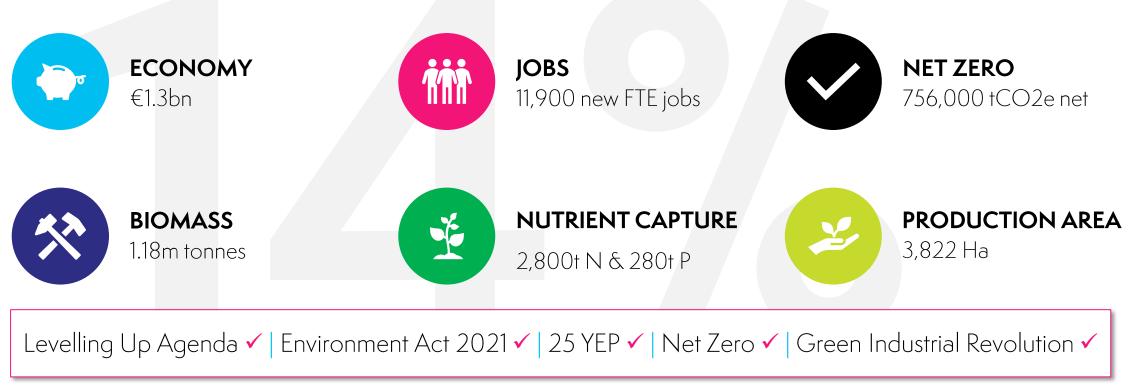
## What does this mean for Europe?



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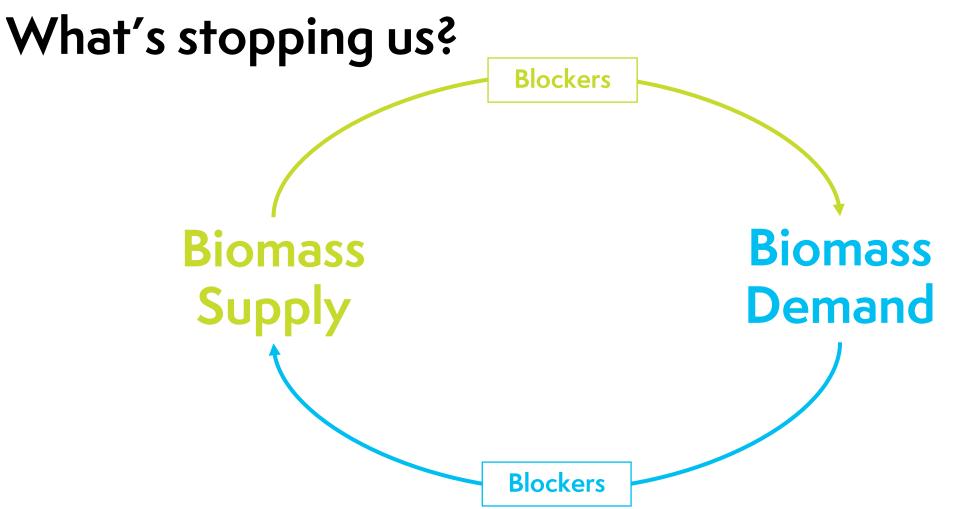
c14% of European coastline & fisheries tonnage

## What <u>could</u> this mean for the UK?



Source: Seaweed for Europe: Investor Memo, 2021

Two interlocking challenges need to be concurrently addressed to reach 14% market share



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#### Supply target: 1.18m tonnes by 2030



### Biomass supply blockers





Unblocking supply – a viable option

# Aquaculture Enterprise Zones

Explore the viability of a repeatable, place-based Aquaculture Enterprise Zone model around England and Wales's coastlines to promote sustainable aquaculture development.

Aquaculture Enterprise Zones (AEZ) seek to create a supportive and inclusive environment for aquaculture, navigating the barriers to entry and harnessing the underlying market drivers to create long-term prosperity for our coastal communities.

Strategy proposed 10 AEZs around England and Wales by 2030, and 20 by 2050



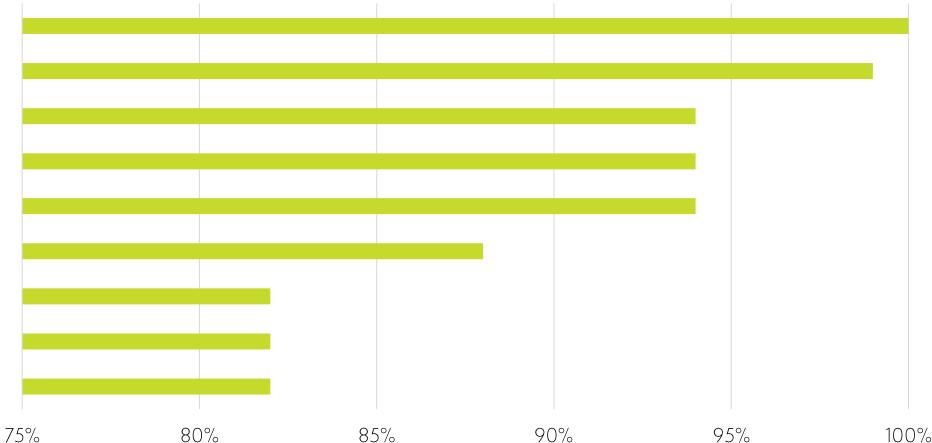
Supply target: 1.18m tonnes by 2030

# Survey Question: "How valuable do you believe each, component of the AEZ model is to your business?"

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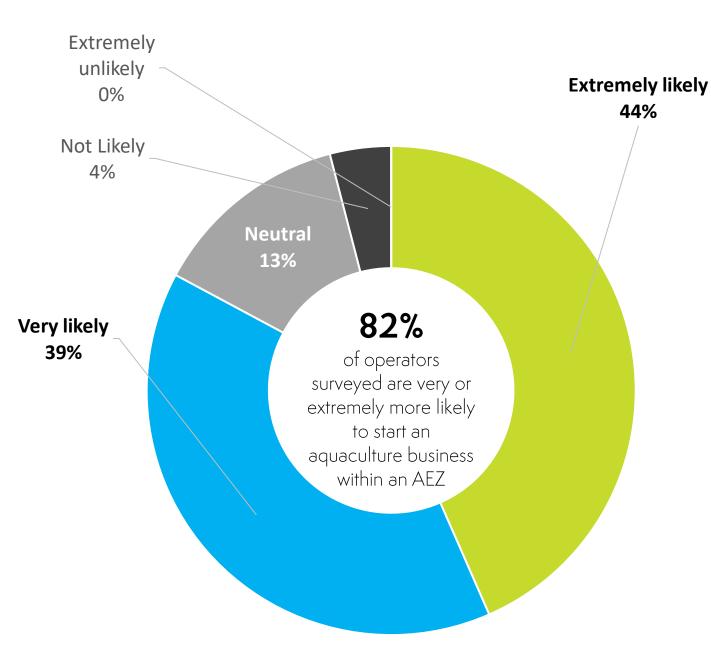
Very or extremely useful

Fast Track Permitting Collaboration & Innovation Localised Supply Chain Offtake and Market Demand Headlease/Sublease Model Investment Pathways Environmental Monitoring Skills Development Shared Infrastructure



Source: AEZ Strategic Pathway Report – Survey based on 30 respondents to AEZ research survey

#### Supply target: 1.18m tonnes by 2030



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Survey Question: "How much more likely would you be to start an aquaculture business within an AEZ compared to a location outside an AEZ?

# Demand blocker analog



Demand target: 1.18m tonnes by 2030

# Demand blocker analogy PURE CANE SUC





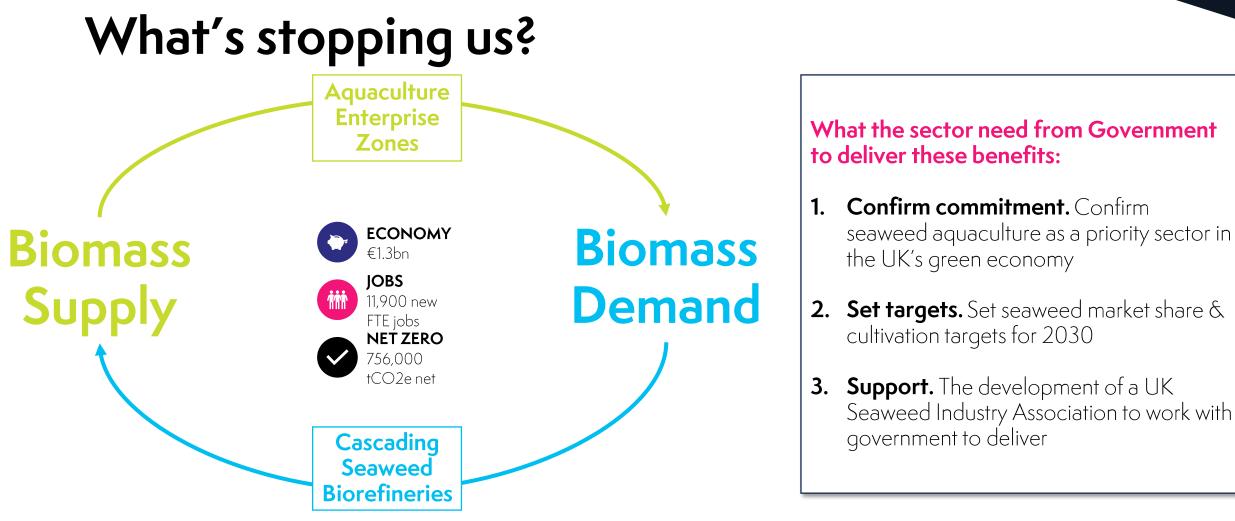
Creating the missing link in the UK seaweed value chain

# **Cascading Seaweed Biorefinery**

- ▶ Full utilisation of seaweed biomass
- Valorisation of seaweed biomass
- ▶ 5-10 year forward contracts for seaweed biomass production
- Playing catch-up with Europe



The time to act is now to seize this opportunity for the UK



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### Aquaculture Enterprise Zone Thank you

Rob Passmore CEO & Co-founder





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