

Turning ocean overgrowth into global regenerative growth

In accordance with the UN 2030 Agenda
for Sustainable Development

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ORIGIN BY OCEANS

LIFE CYCLE IMPACT

1. BIOMASS AS FEEDSTOCK

Harvesting invasive seaweed species and
Cultivating native seaweed species.

We remove nitrogen and phosphorus
from the oceans by using invasive
algae before it decomposes and
emit greenhouse gases.

2. OUR BIOREFINERY

Environmentally sustainable
technologies, multiproduct
process value and resource
utilization maximization

Closed loop production with
non-toxic process chemicals
and clean energy

3. CHEMICAL PRODUCTS

Biodegradable products enable
substituting existing oil-based
chemicals in everyday goods.

Decarbonizing consumer products
and reducing the carbon footprint.



4. BIOMASS PRODUCTS

Biodegradable biomass
residue becomes can be
utilised substituting grass
silage in animal feed,
eco-friendly concrete
fillers, peat alternatives
and biochar for agriculture.

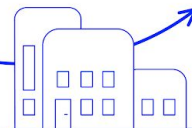
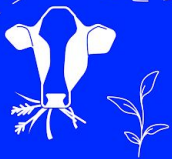
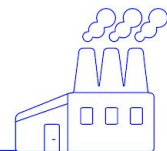
Biomass captures and
can store carbon, reducing
emissions and contributing to
long-term carbon sequestration.

REGENERATING OCEAN ECOSYSTEMS & CAPTURING CARBON

After consumption of the chemical and
biomass products biogenic carbon returns to
the fast carbon cycle through biodegradation

Continuous flood of nutrients to the oceans
from agriculture, forestry and industries.

Ocean overgrowth
of invasive algae





Global volume of **invasive**
brown algae species
is surging, **requiring urgent**
commercial-scale
local **solutions**

By targeting Sargassum, we aim to leverage this **Underutilised and cost-effective resource** to address the environmental issues they pose and bring 100% biobased chemicals to the markets.



TRANSFORMING OCEAN CHALLENGES INTO REGENERATIVE BUSINESS SOLUTIONS

Our patented biorefining process produces materials traditionally sourced from fossil fuels, climate-sensitive plants and land/water intensive renewable crops.



We remove nutrients from the oceans by harvesting invasive algae, reducing harmful emissions and unlocking the value of this unused resource. Our operations support local economies.



Transforming nearly 100% of the biomass into bio-based ingredients.



Alginate:
Multi-functional biopolymer for cosmetics, food, and industrial applications.

Fucoidan:
High-value compound for cosmetics and nutraceuticals.



Sustainable 100% bio-based & biodegradable ingredients reduce the carbon footprint of consumer goods.

Residuals are being repurposed into products and materials, capturing carbon.

OCEANTHIX™ alginate
OCEANBOOST™ fucoidan



water-based
biorefinery
(non-toxic)

maximizing value
from feedstock

can be used for
animal feed

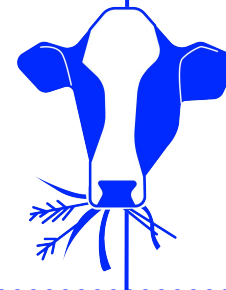
VALUE
PRODUCTS



RESIDUE



OCEANRESIDUE™
Seaweed residue



THE SOLUTION: REACHING COMMERCIAL VIABILITY WITH ALGinate AND FUCOIDAN

FOAK production launch with high-performance *alginate* and *fucoidan* for cosmetics, food, and textile applications and seaweed residue repurposed into products and materials to support a circular economy approach.

OCEANTHIX™ Alginate

A multifunctional rheology modifier with optimized viscosity, texture enhancement, and hydration benefits.

TEXTILES

COSMETICS

NUTRITION

MATERIAL SCIENCE

DETERGENTS

OCEANBOOST™ Fucoidan

A bioactive marine ingredient with antioxidant and anti-inflammatory properties for skincare and nutraceutical applications.

COSMETICS

NUTRITION

OCEANRESIDUE™ Seaweed residue

An untapped resource of fatty acids, fibres and seaweed proteins with diverse applications across

AGRICULTURE/FEED

NUTRITION

COSMETICS

MATERIAL SCIENCE



SOURCING

Harvested invasive algae (supporting ocean restoration).



BIOREFINING

Patented, green chemistry-based process.



FOAK

First-of-a-kind industrial-scale production for biopolymers sourced from invasive algae. Scalable production through strategic partnership.



COST EFFICIENCY FOR SCALE

Designed for a broad-market penetration beyond niche segments.

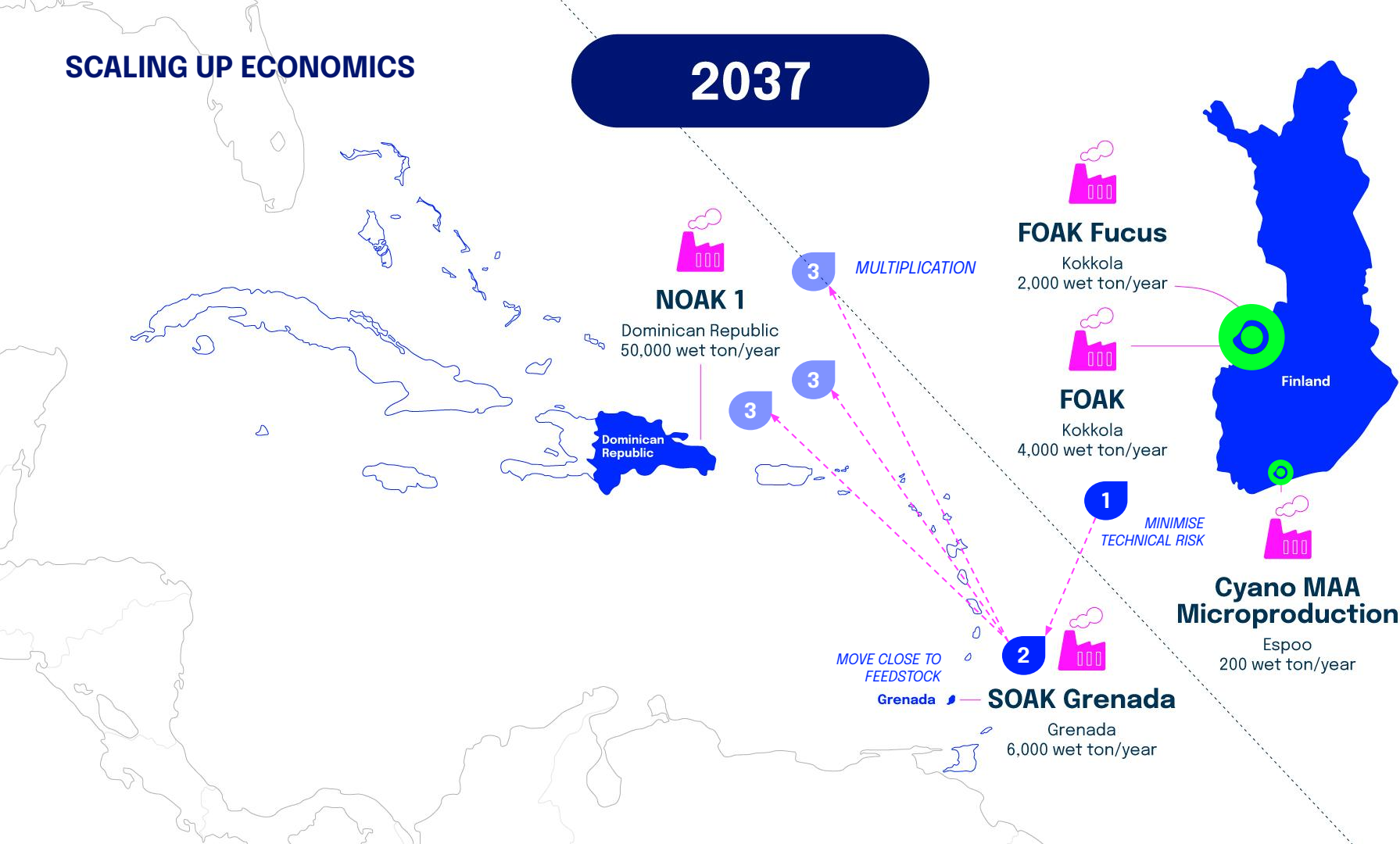


PREMIUM MARKET ADOPTION

Aligns with sustainability standards for high-value applications.

SCALING UP ECONOMICS

2037



Scale up and Commercialisation

- Investments into scale-up phase to reach First-Of-A-Kind commercial operations - more industrial investment - supports EU's security of supply
- Balanced investment pipeline to cover the whole development phase of the startups - from R&D to commercialisation
- Green transition strategy should include all the industrial sectors providing concrete solutions for the national targets - not only energy
- National strategy for bio and circular economy should include clear targets from each market sector
- The UN Agenda 2030 should be the driver of the green transitions
- Priority to companies supporting national sustainability strategy targets-not just job creation, but ecosystem creation



Join the Industrial Revolution 2.0!

