

Piet Bogaert, PhD

Seagriculture USA, 2024

Seaweed
an important source of
nutrition, everyday
products and one of the
links in the sustainability
chain

Red Seaweed Promise TM

www.cargill.com





Our purpose is to nourish the world in a safe, responsible and sustainable way.

Who ve are

155,000 employees Working in 70 countries

More than 150 years of experience





For farmers We supply feeds, other inputs and expertise to farmers and buy crops and livestock from them













We transform raw materials into finished goods















We move products around the world





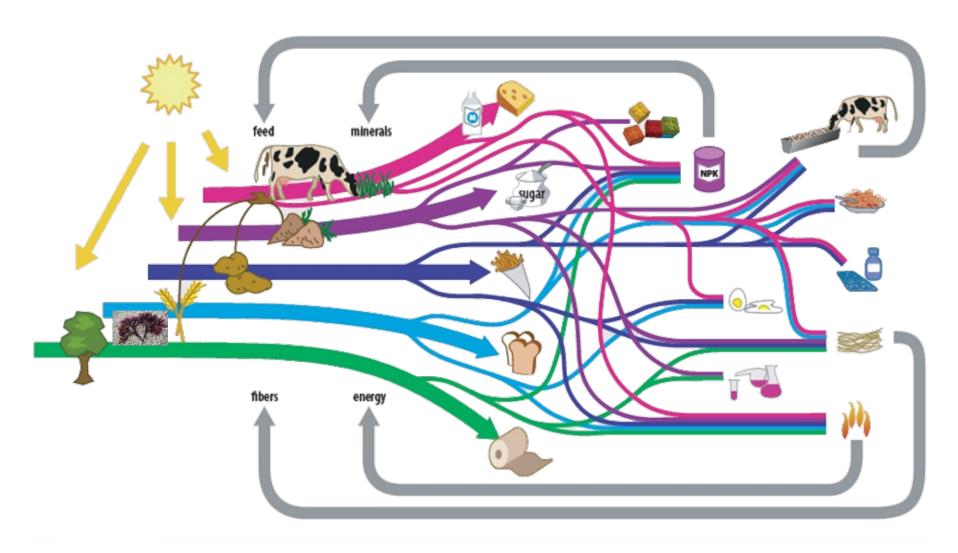








Bioeconomy Value Chain



Source: Idiomorf Infographics & Dutch Bioorefinery Cluster

Seaweeds

- > as food
- > as biological active
- > as animal food
- > as building material
- > as









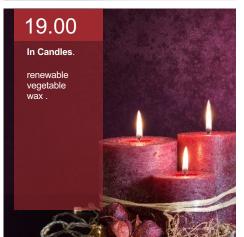








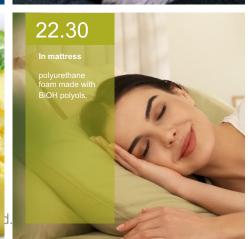












Seaweeds & Sustainability

Red Seaweed Promise TM

Introducing the Cargill Red Seaweed Promise™

Cargill sustainable goals



UN sustainable development goals



Other close standards (ASM-MSC ...

2017 Red Seaweed Promise 1.0

With no sustainability standards applicable to red seaweed production by smallholder farmers, the Red Seaweed Promise standards were set up based on Cargill sustainable goals, UN Sustainable goals and close existing standards



Red Seaweed Promise™ Global sustainability





producers



support



production



A unique sustainability program for red seaweed addressing key sustainability challenges leveraging the strong partnerships we have with our suppliers and seaweed producers

Provision of *externally* verified sustainability sourced carrageenan through a global mass balance system

Red Seaweed Promise 1.0

Cargill Red Seaweed Promise

Verification criteria (standards)

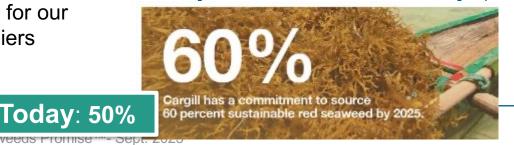
co-developped by Cargill & Proforest

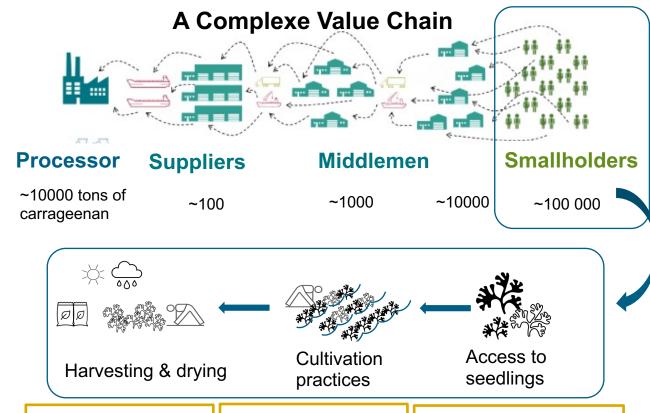
Single site global mass balance system for our volumes from sustainable sourcing

Recommending continuous improvement projects for our suppliers

Supplier and producer audit verification completed by Proforest





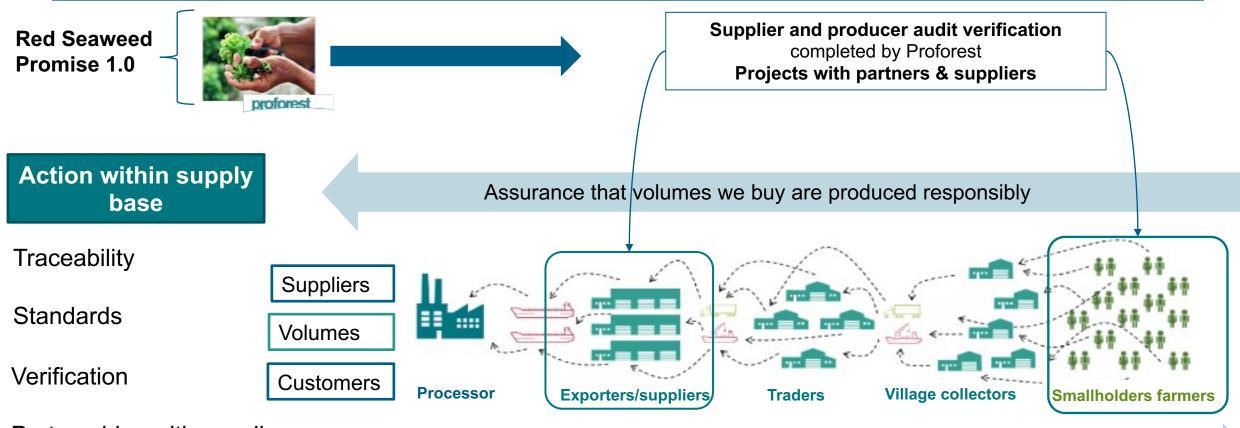


Informal activity
Unbalanced
value chain, &
risk supported
by the most
vulnerable

Non efficient & artisanal practices, opportunistic activity
Price volatility

Loss due to diseases & pest, extreme weather events, caused by climate change

Red seaweed Promise 1.0: An approach within the supply base



Partnerships with suppliers and its producers

Engage with suppliers to cascade responsible sourcing commitments up the supply base

Meet customers demands → traceable and verified volumes

Is it enough to secure a sustainable red seaweed value chain and contribute to tackle its many challenges?

Significant sector challenges

Eucheumatoids case

- → Produced mainly in South-East Asia
- → Main cultivars originated from the Philippines
- → Vegetative reproduction
- → Easy to cultivate
- → Short cultivation cycles (30-45 days)

Farming Practices

Poor basic non efficient and non-sustainable farming practices

Farmers

Low social & economic resilience of SW culture: remote communities often struggling in a poverty context

Value chain
Informal&
unbalanced
business
network: poor
traceability,

price volatility.

unfair incomes

Regulatory

<u>Lack or poor local,</u>

<u>national or</u>

<u>international</u>

regulatory

framework

Marine planning,
environmental
assessments,
biosecurity,
management of crop

Value chain non resilient against climate change or socio-economic shocks



→ Poor regulation of farming activity – individual right to use the sea

genetic resources, ...

- → Opportunistic activity cash crop for remote & poor communities
- → Lack of significant investment on the production



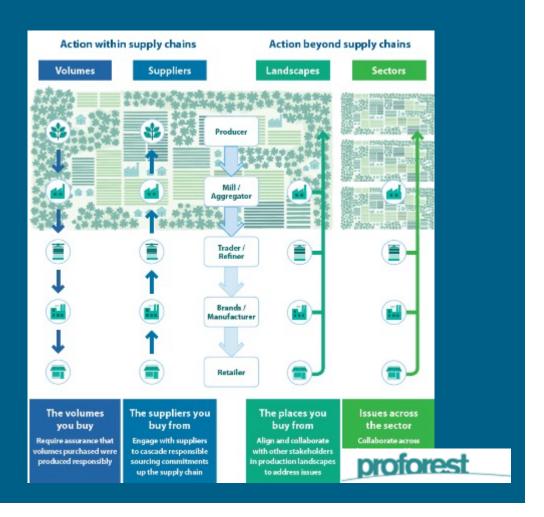
Lack of resilient
strains (climate
change / diseases),
lack of varietal
selection and
agronomic
development



Red Seaweed Promise 2.0

WITHIN & BEYOND OUR SUPPLY BASE





Red Seaweed Promise 2.0

Vision: 100% of the seaweed sourced will be to RSP 2.0 standard by 2030

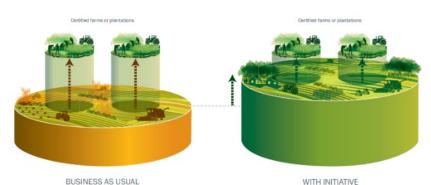
Mission statement: At Cargill, we aim to source the <u>highest quality of red seaweed</u> and in doing so, we want to ensure that it provides seaweed producers with an <u>attractive livelihood</u> and that it <u>preserves marine habitats</u>

Our Approach: Implement transformative projects Within and Beyond the Value chain

In partnership: With our selected suppliers because of their strong commitment on the developing a sustainable business for them and the smallholders they work with

Action within supply chain

- Volumes we buy
- Suppliers we buy from



- Places we buy from

Action beyond

supply chain

Issues across sector

Source: Proforest Briefing 03: Implementing responsible sourcing – using landscape initiatives

Red Seaweed Promise 2.0



Product



Goal 1. Seaweed production is stable, sustainable and attractive from producers to processor

- Healthy and productive seaweed strains
- Traceability
- Climate change mitigation plans



People



Goal 2. Red seaweeds producers are resilient against economic & environmental impacts

- Fair price and living income
- Health & Safety
- Inclusive support to thousands of smallholders



Planet



Goal 3. Farming practices have positive impacts on the environment

- Best practices
- Seaweed Ecosystem Services

