



6-8 April 2022

4th Oceans Forum

on trade-related aspects of Sustainable Development Goal 14:

A shift to a sustainable ocean economy:

Facilitating post-COVID-19 recovery and resilience





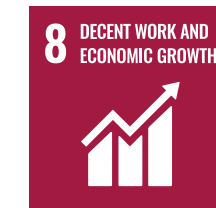
Seaweed farming – a way for sustainable growth



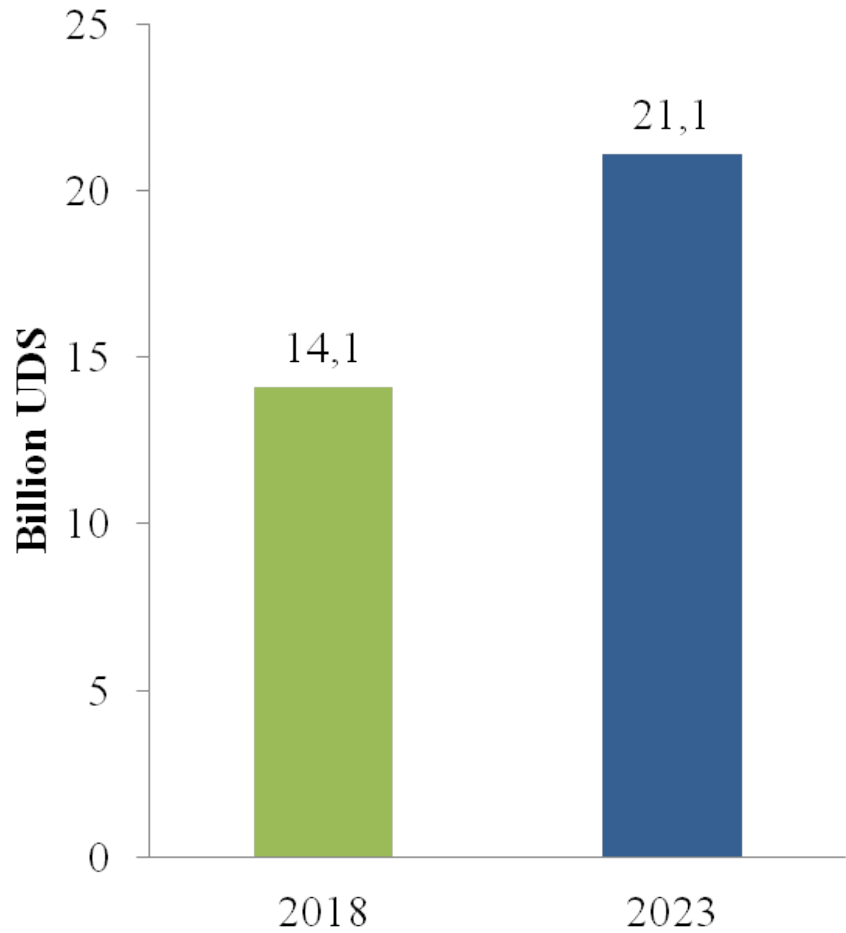
Helena Abreu

Seaweed farming & SDG

- Provides the 4 ecosystem services
- Safe, traceable and high-quality Food, Feed, and Raw-material
- Preserves the wild seaweed populations & creates new habitats
- Bioremediation of N and P
- Reduce GHGs replacing edible & raw-materials with larger carbon footprints
- No freshwater, no fertilizers*
- Does not compete with land for other food crops
- Source of protein, fiber and a contribute to fight nutrition deficiencies
- It can be integrated with other marine farming | leisure activities
- Provides Jobs and Education opportunities, independent from genera, across the globe but mostly in less developed areas



34.7 million tons seaweed

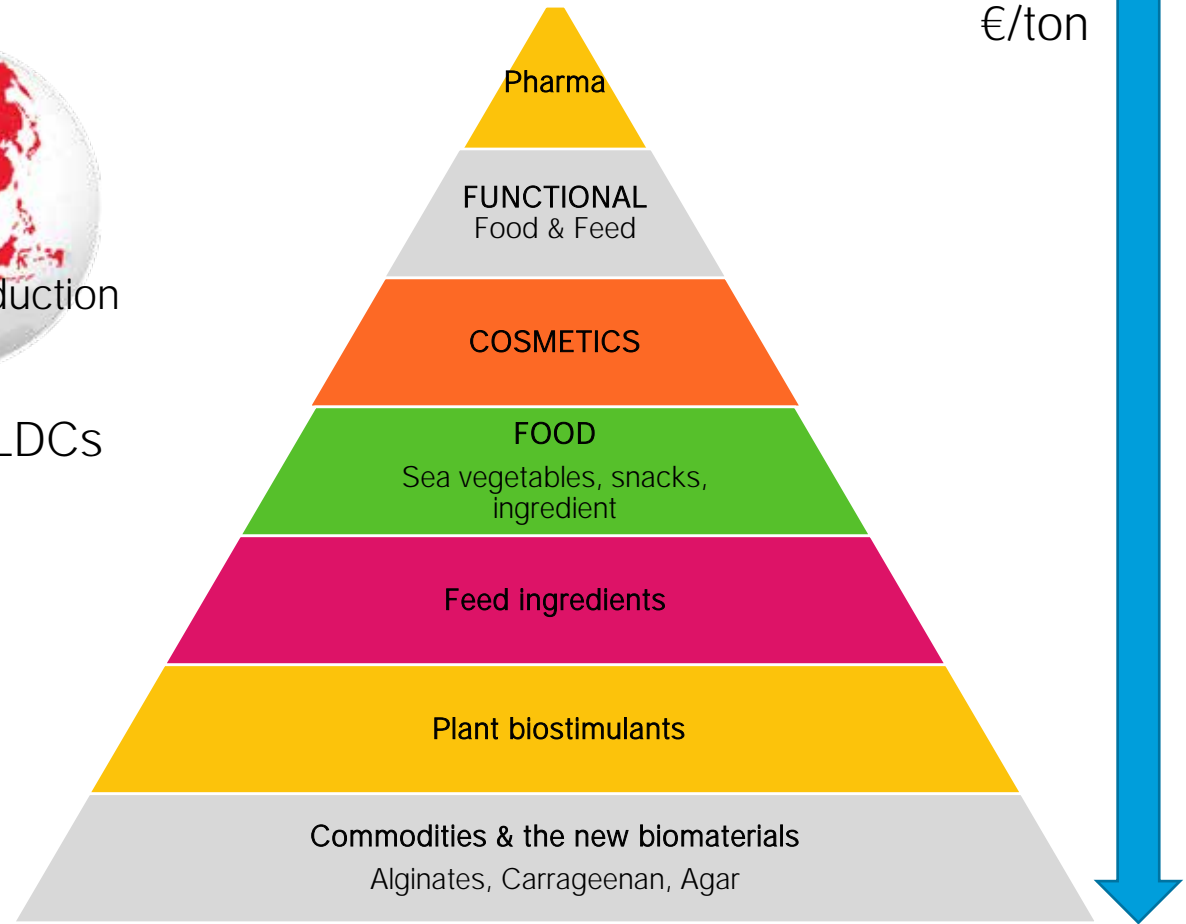


Markets and Markets, 2020



97% of production

10 of 46 LDCs



Seaweed farming

+ Top source of “blue food” (38%)

+ Job creation:

- 1 per 2dry ton (ALGA+)
- 1 per 10dry ton (WorldBank estimates)
- + At sea and near/on-shore
 - Also with IMTA at commercial scale

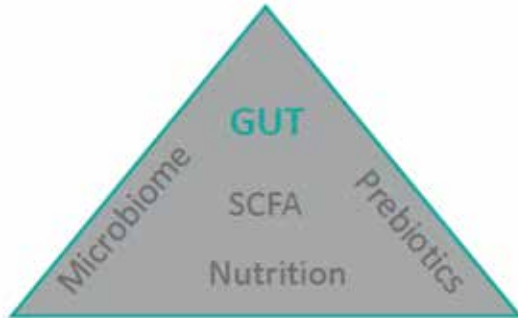
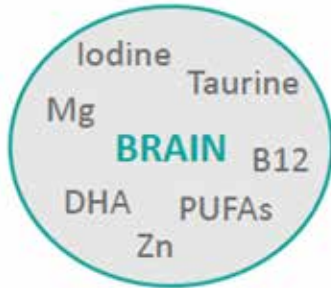


Over 450 edible seaweed!

- Size
- Chemical composition
- Production systems
- Value



1g of Seaweed a day....



MACROALGAE
Macro and micronutrients,
antioxidant & anti-inflammatory
compounds, etc...

Adapted from Cornish et al. 2017

Iodine *

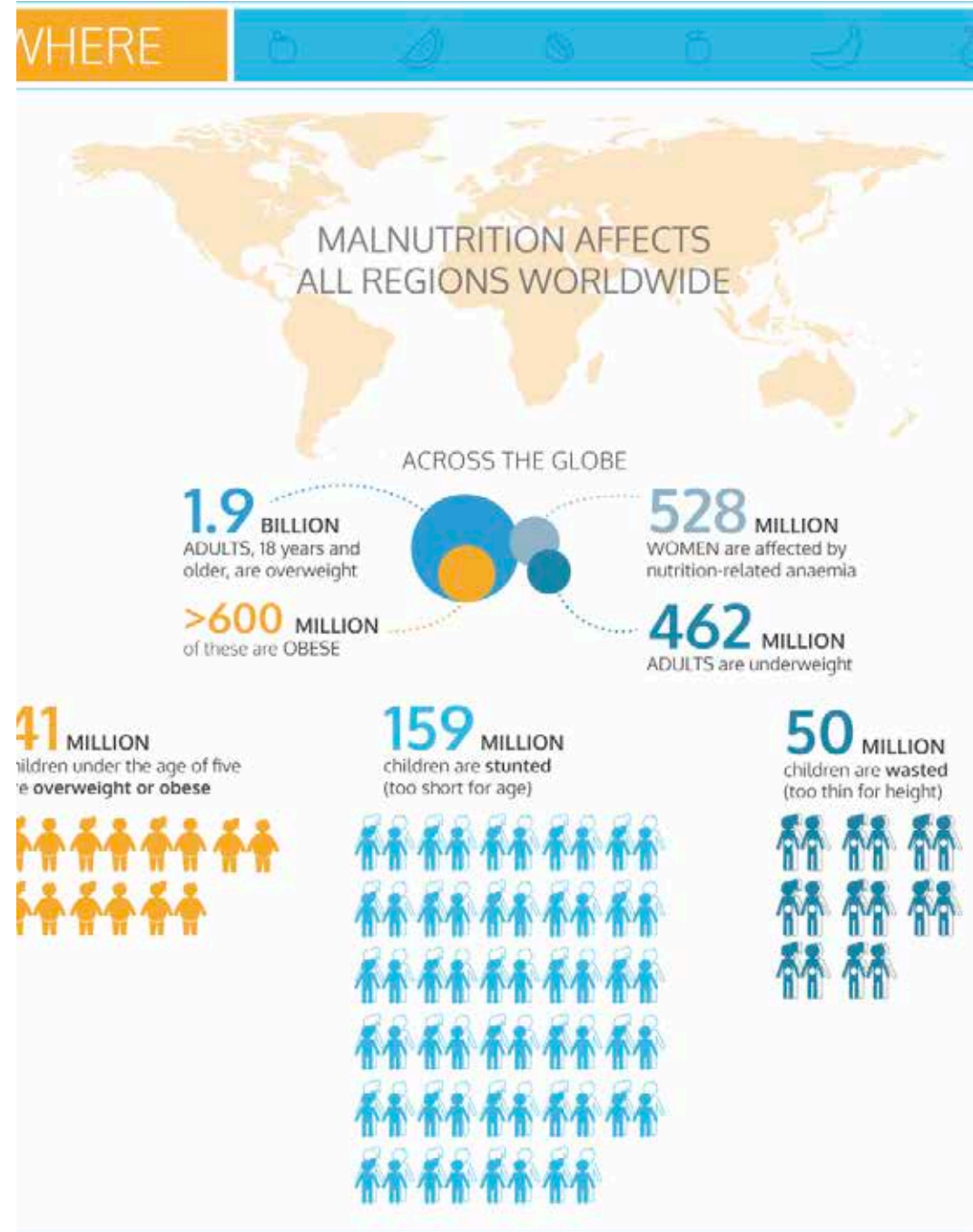
Fe

Zn

Mg

K

Vit. E,
A and
B12



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By **CHRISTIAAN HETZNER**
March 8, 2022 6:04 PM GMT

What about Seaweed?!



Products



BY DAN BUETTNER PHOTOGRAPHS BY DAVID McLAIN

The Secrets of Long Life

Kame Ogido, 89, a resident of Okinawa, holds a handful of edible seaweed. The Japanese island is defined by the author as a "Blue Zone," where people live longest.
NATIONAL GEOGRAPHIC

Sustainable Diets:

"...low environmental impacts which contribute to food and nutrition security and to healthy life for present and future generations...protective and respectful of biodiversity and ecosystems, culturally acceptable, accessible, economically fair and affordable; nutritionally adequate, safe and healthy; while optimizing natural and human resources".

Burlingame, B. & S. Dernini. 2010.
"Biodiversity and Sustainable Diets United against Hunger"
3-5 11/2010. Rome,
FAO and Biodiversity International.

Women take the lead



Education | Literacy

- At school & businesses
- All generations
- Between countries |cultures



R&D and Knowledge transfer

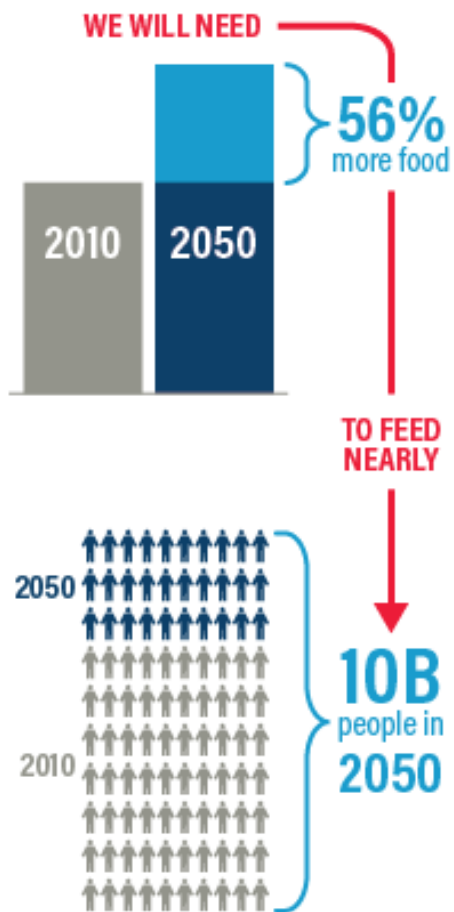
- Agriculture & Marine Agronomy
- Asia & “Newcomers”
- All with LDCs
- Biology, Technology, Product Development



CREATING A SUSTAINABLE FOOD FUTURE BY 2050

How?

How do we feed
10 billion people...



...without using
more land...

**WE NEED TO PREVENT AGRICULTURE
FROM EXPANDING**



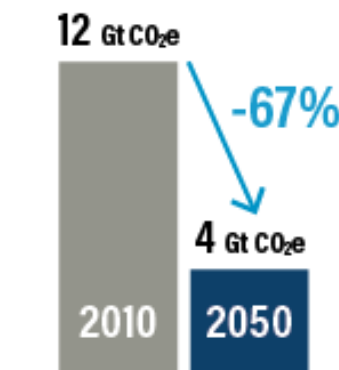
we currently use
~50%
of the world's
vegetated land
for agriculture



**TO SAVE AN AREA
OF FORESTS NEARLY**
2X the size
of India

...while lowering
emissions?

WE CAN LOWER EMISSIONS



**WITH INNOVATIVE
TECHNOLOGY LIKE**



Improved feeds

Plant-based burgers



Resilient crop breeds

35,000,000 tons of seaweed & more to come...

A unique global “blue food” and raw-material

Education & Transfer of knowledge

Solid R&D and accurate info to attract long term
investment & results



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SEAWEEDS IN A CHANGING WORLD

24TH INTERNATIONAL SEAWEED SYMPOSIUM

19 - 24 FEBRUARY 2023

Hobart | Tasmania | Australia | Online





Thank you!

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