



Decarbonising biotechnology for sustainable agriculture





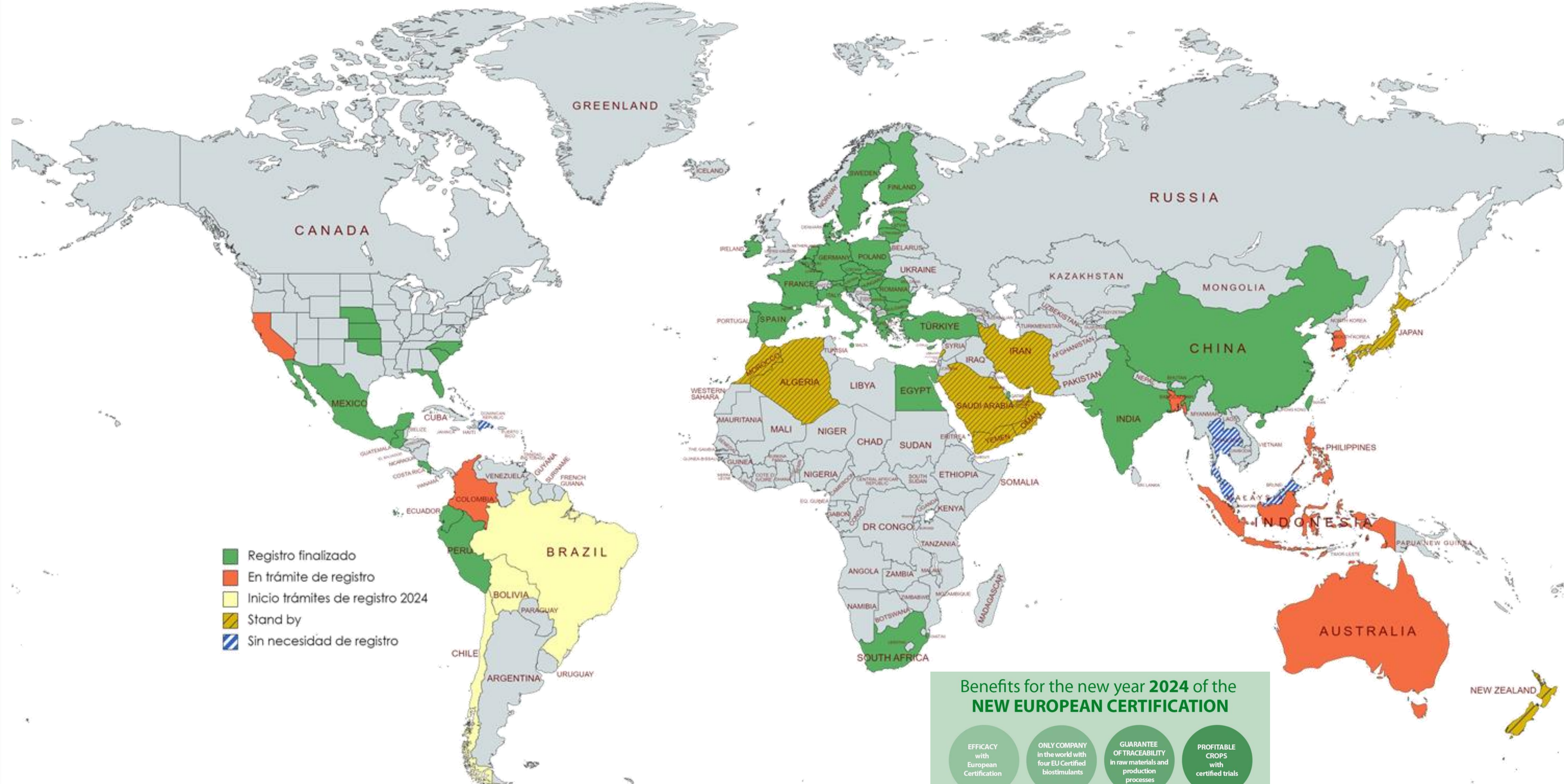
Biorizon
biotech

Microalgae-based biostimulant products



Co-funded by
the European Union





Benefits for the new year 2024 of the NEW EUROPEAN CERTIFICATION

- EFFICACY with European Certification
- ONLY COMPANY in the world with four EU Certified biostimulants
- GUARANTEE OF TRACEABILITY in raw materials and production processes
- PROFITABLE CROPS with certified trials






We work for a sustainable and productive agriculture



biorizon.es

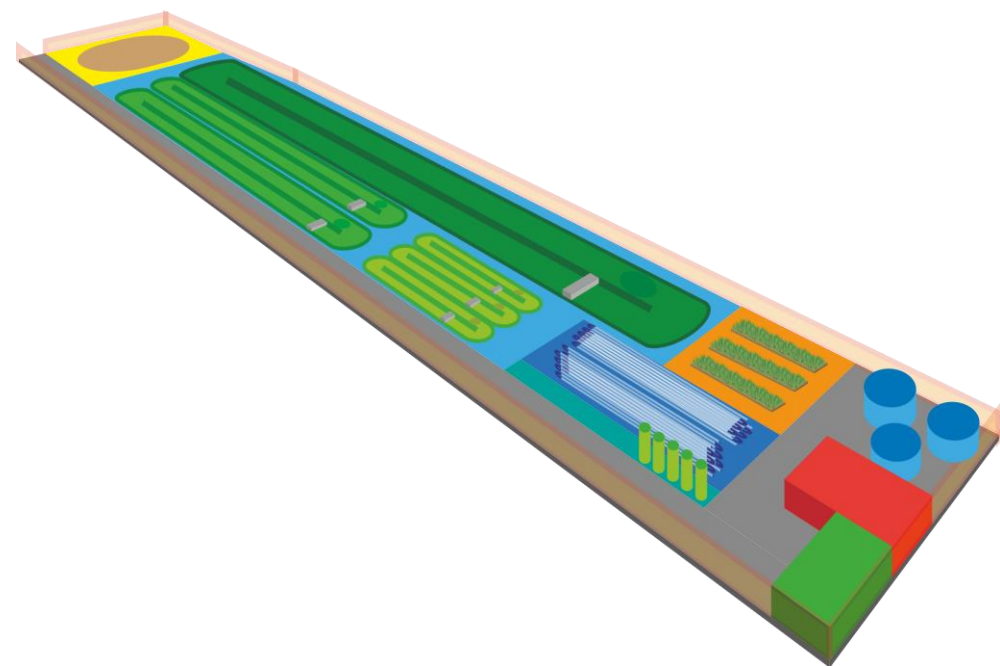


World pioneers in the development of microalgae-based products for agriculture

Our process our innovation



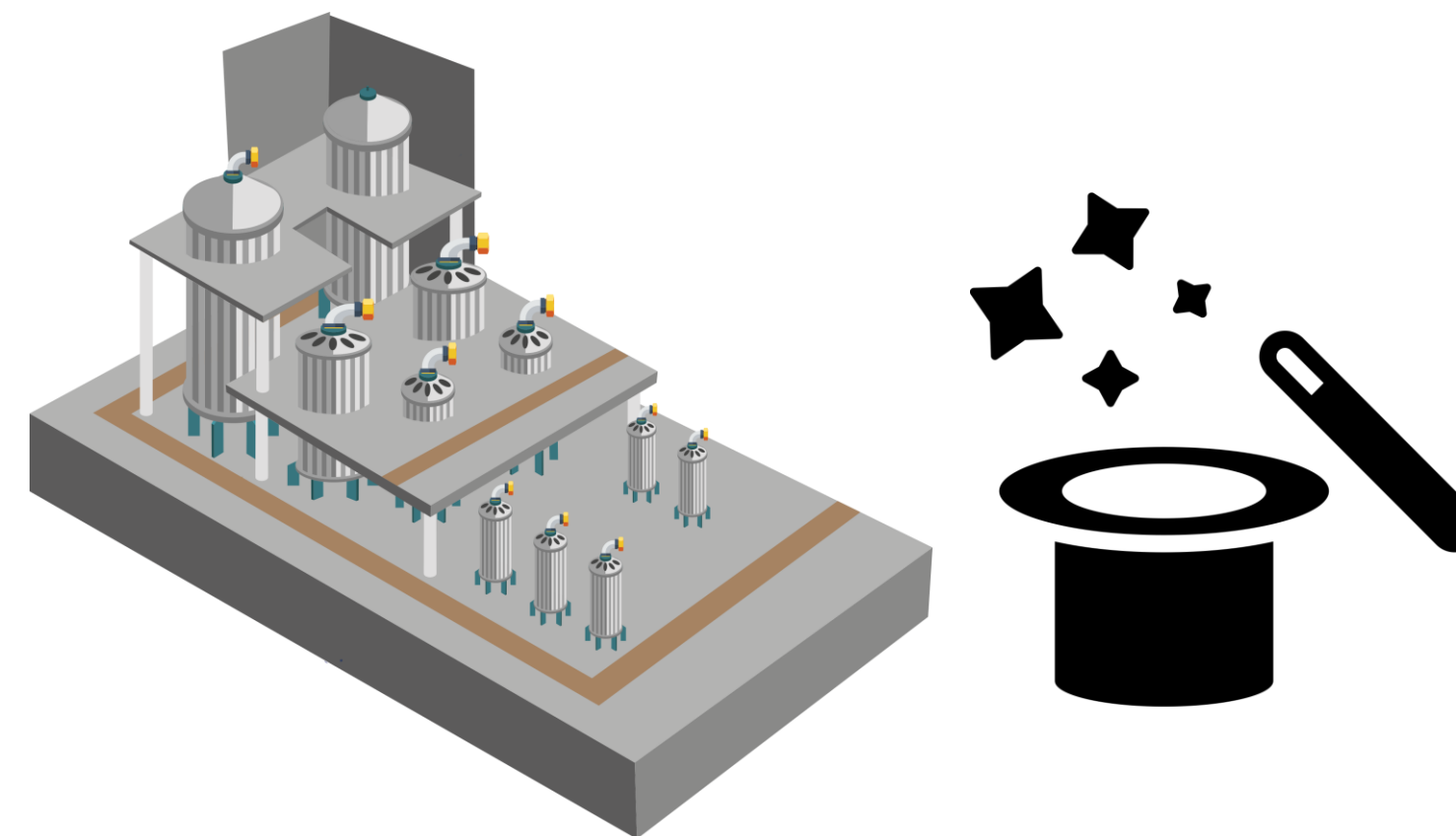
Microalgae Cultivation



Biomass



Biocatalytic Processing



Multienzymatic cascade reaction

Bioproducts



Technology & Solutions



BIOSTIMULANTS



BIOPROTECTORS



MICROBIAL BIOSTIMULANTS



Technology & Solutions



BIOSTIMULANTS



ENZYMATIC

ORGANIC

TRIE TECH TECHNOLOGY



MICROBIAL



BIOPROTECTANTS



ORGANIC TRIETECH LINE

NUTRITIONALS



CALCIO

MICRO

COMPLET

BOTANICAL EXTRACTS





Facilities and Infrastructure



P  TA

The word "PITA" is written in a large, green, serif font. The letter 'I' is replaced by a stylized green plant with a single orange circular fruit at the top.

HQ & Industrial facilities



**PLANTA DE CULTIVO DE MICROALGAS
ÁGORA-SABANA**



AGORA – SABANA

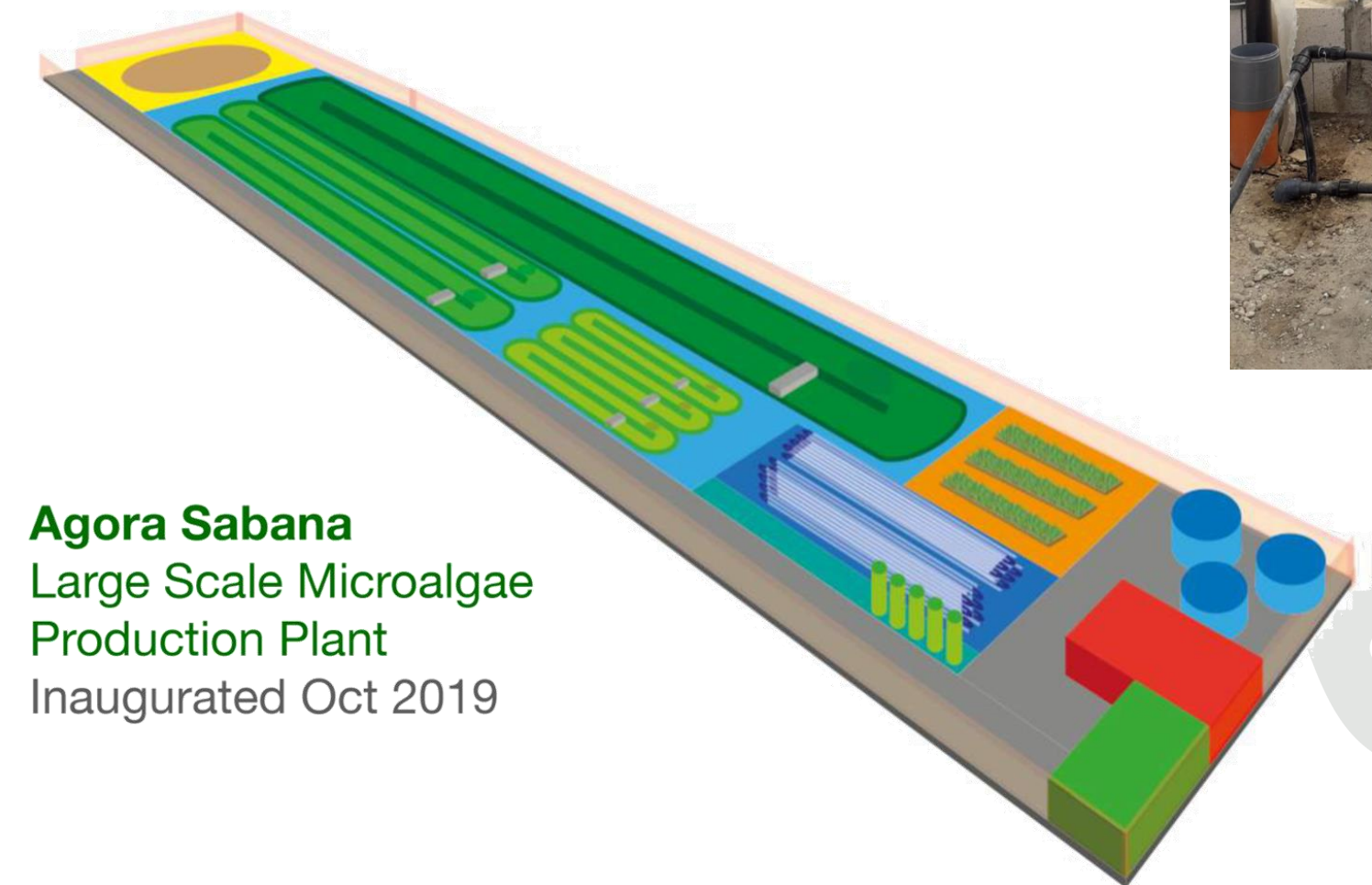
MICROALGAE PRODUCTION PLANT



AGORA - SABANA



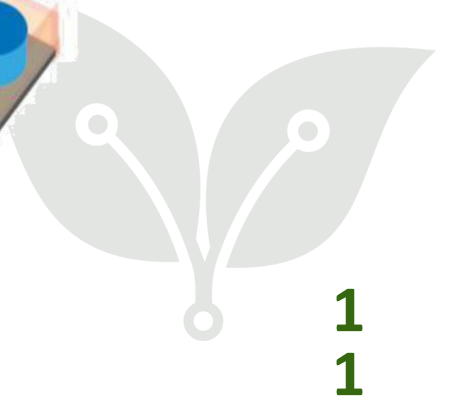
2,0 hectares
Microalgae Production Facility



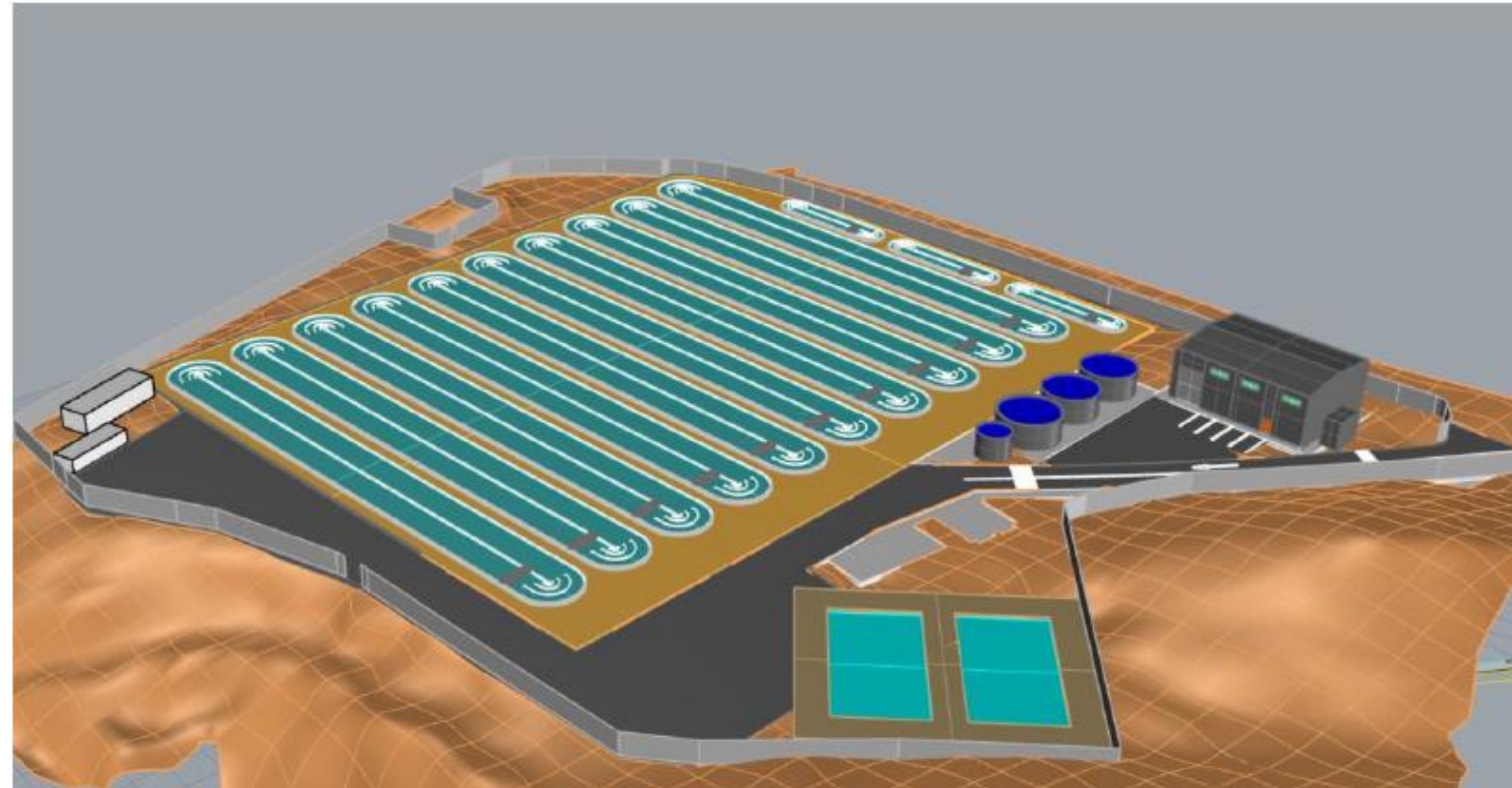
Agora Sabana
Large Scale Microalgae
Production Plant
Inaugurated Oct 2019



Project
funded by the
EUROPEAN UNION



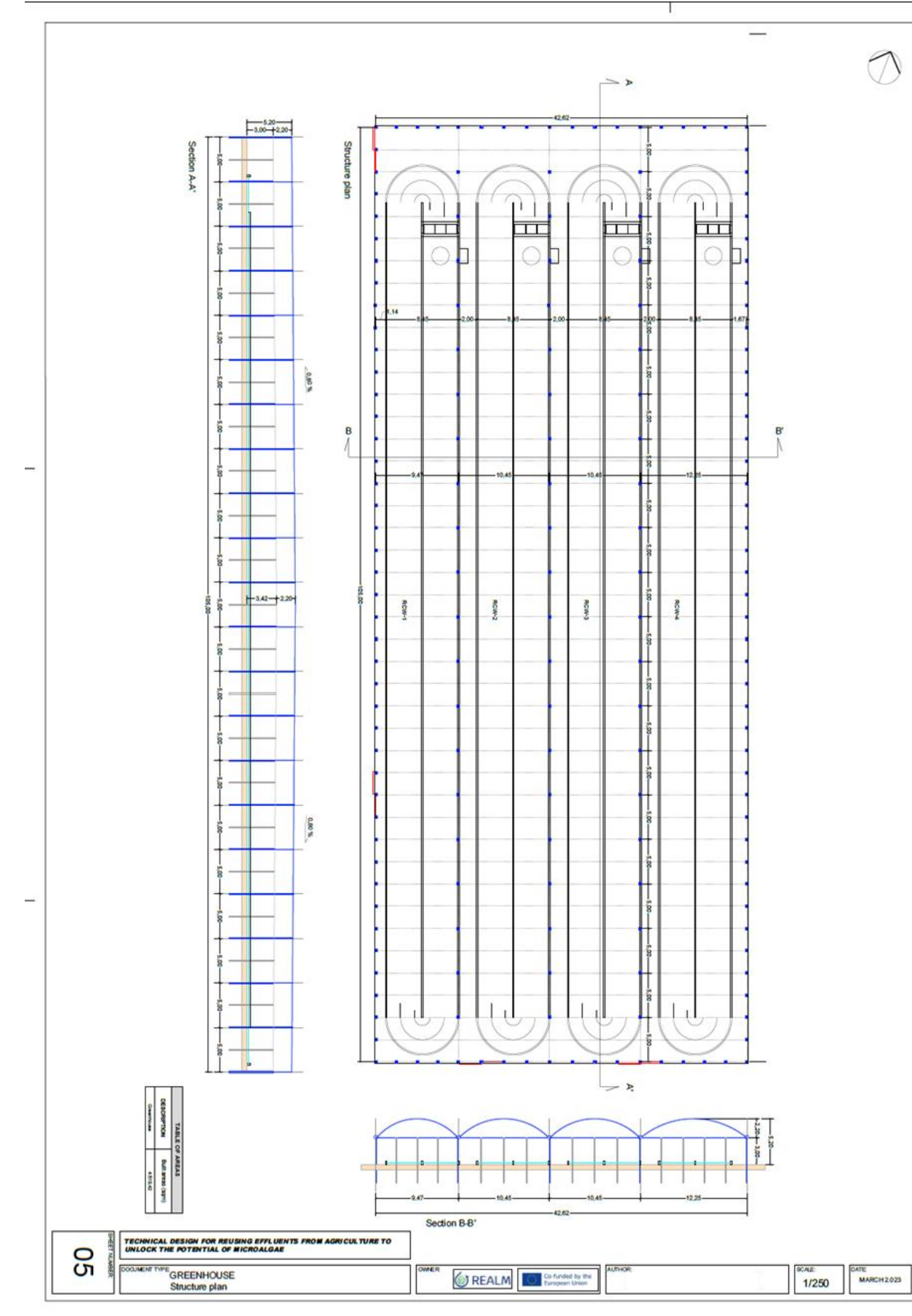
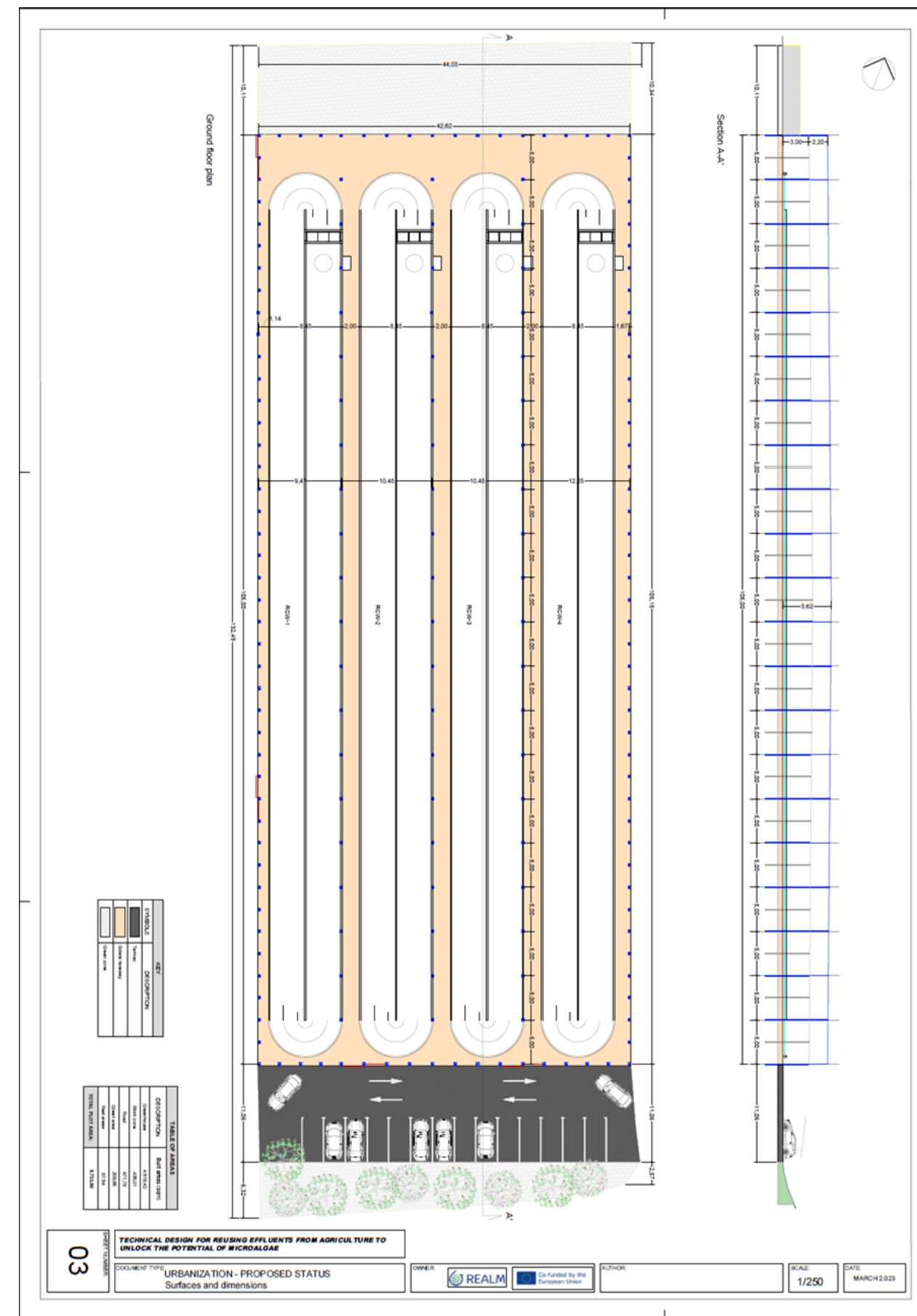
New Microalgae Production Facility



2 hectares
in Carboneras´
**Thermal Power
Plant**
(Almería, Spain)



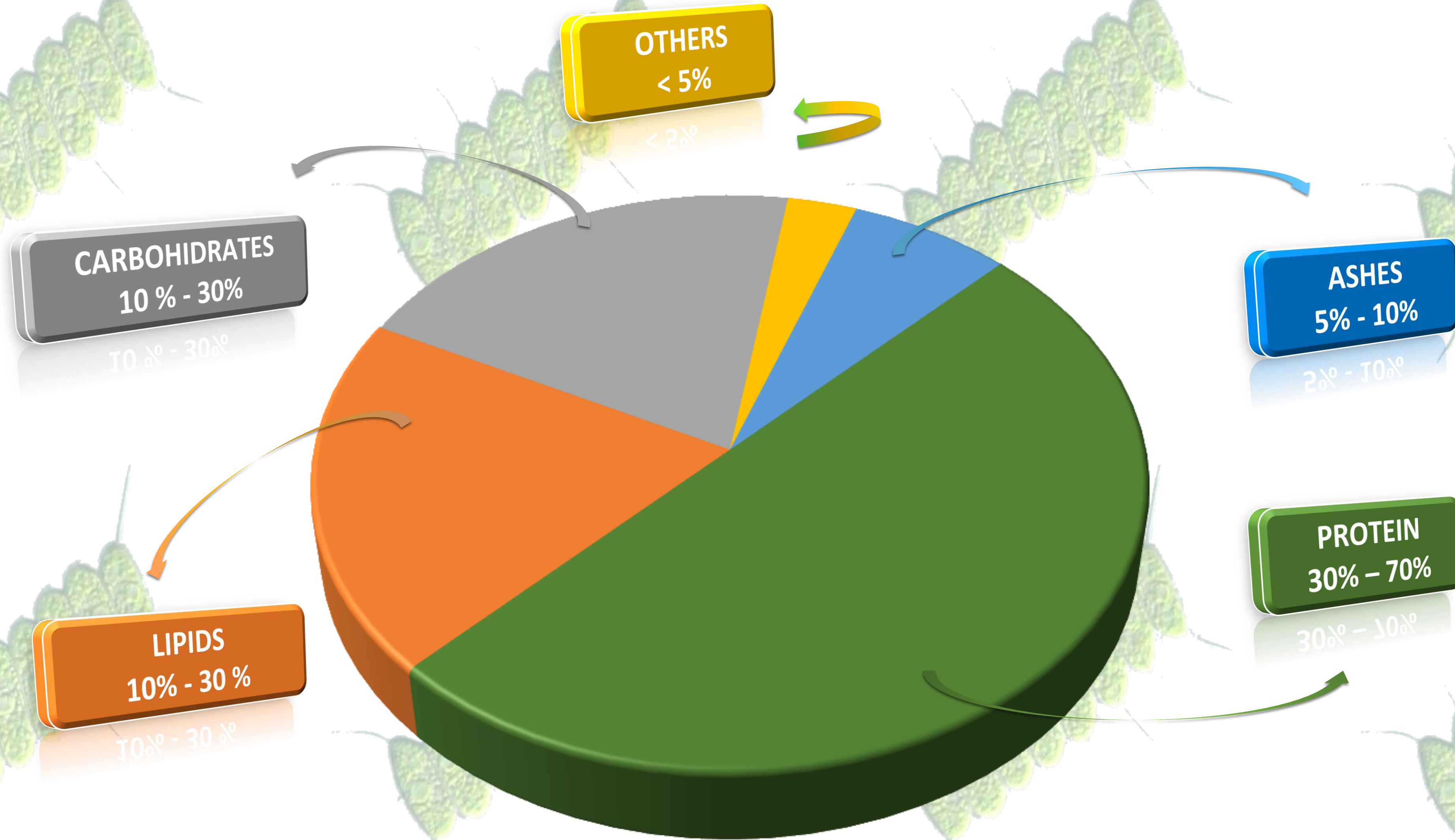
BIORIZON'S REALM FACILITY





WHY MICROALGAE?

Microalgae composition



Microalgae for plant biostimulants



High content in protein for valorisation into free amino-acids

Growth hormones or plant growth regulatory substances

Mineral nutrients (Macronutrients and micronutrients)

Polysaccharides

Antioxidant compounds

Vitamins

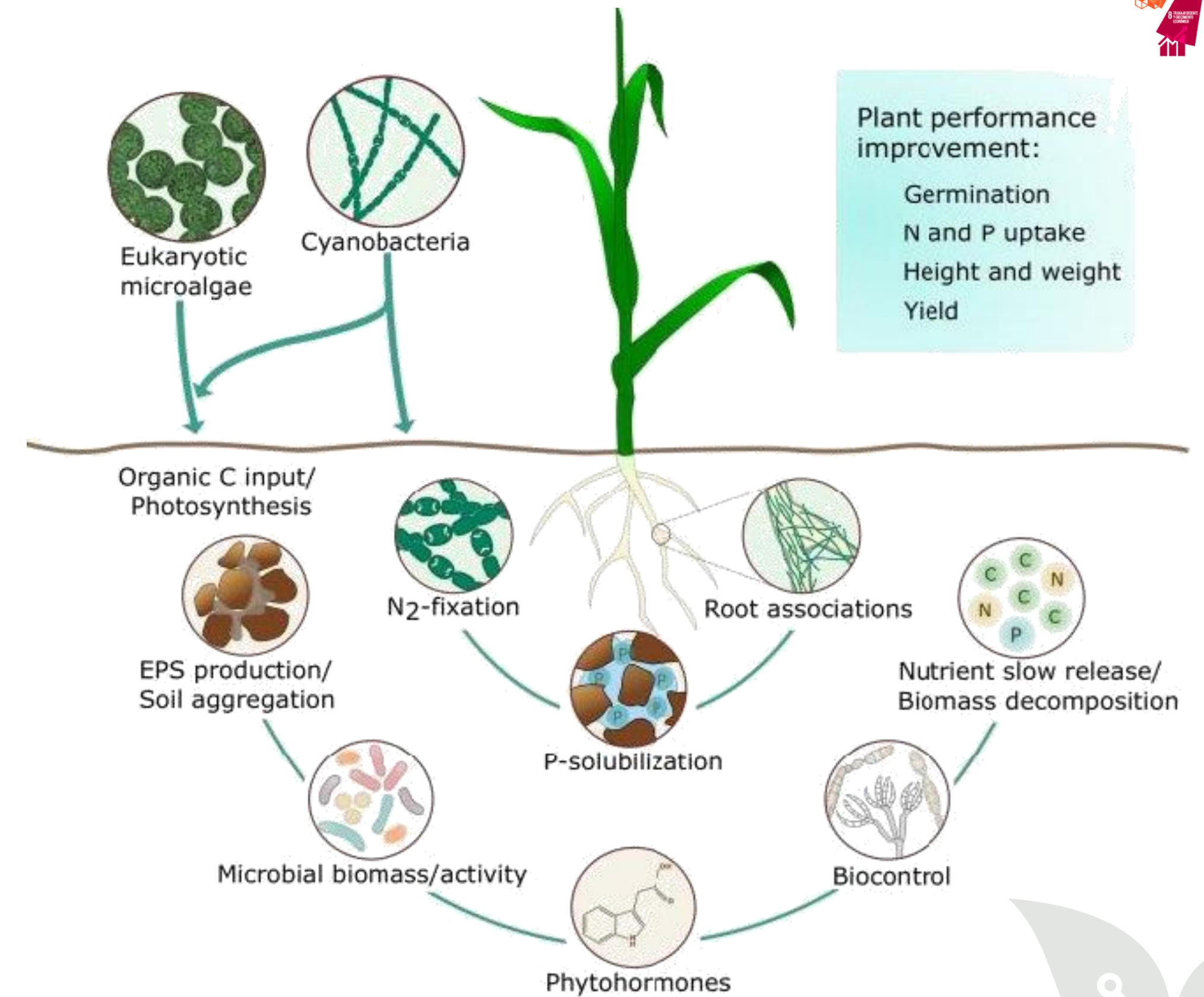
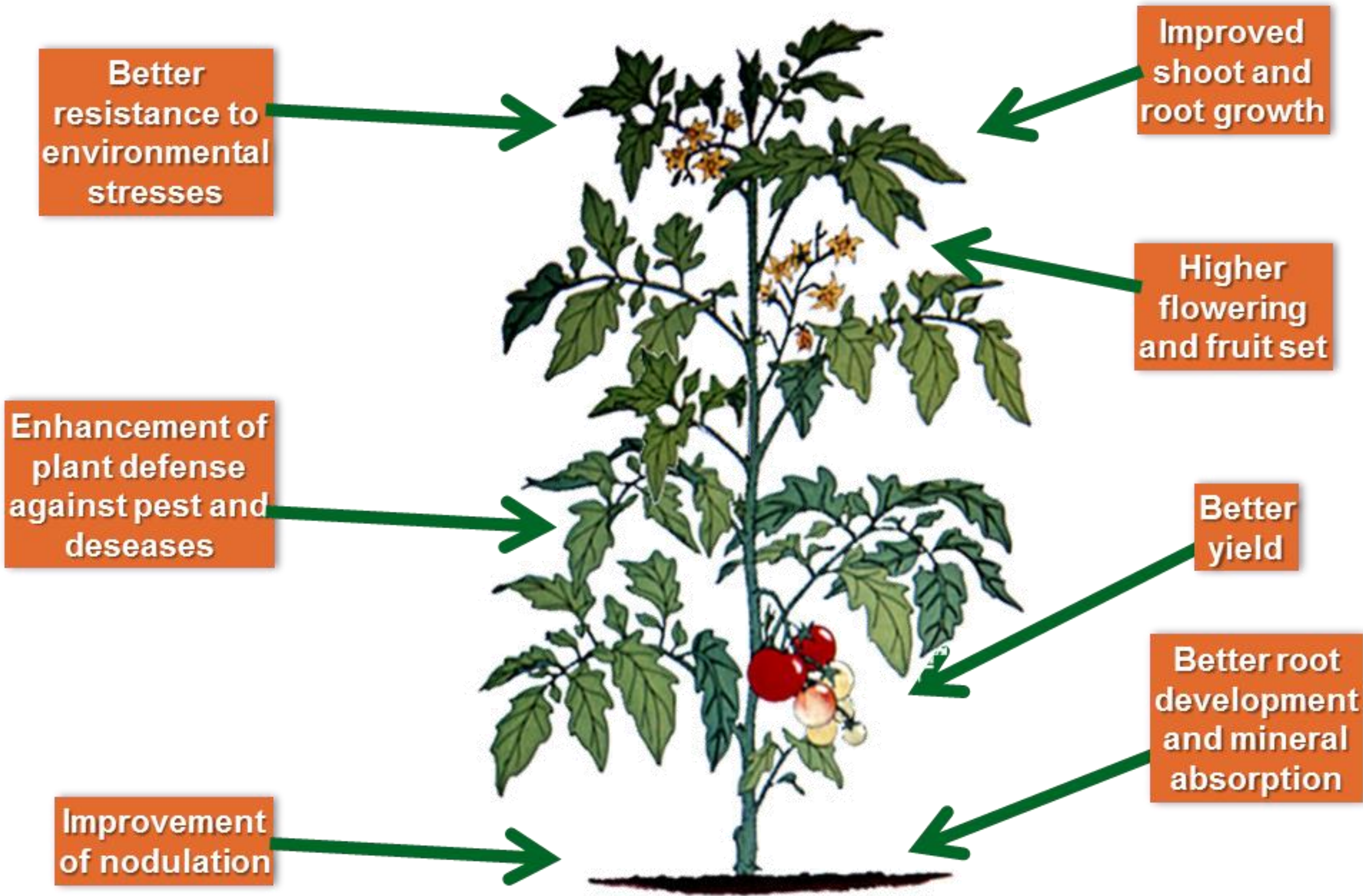
Active peptides



- ✓ Auxines.
- ✓ Gibberellins.
- ✓ Cytokinins.
- ✓ Brassinosteroids.
- ✓ Abscisic acid
- ✓ Ethylene
- ✓ Jasmonic acid.
- ✓ Salicylic acid.

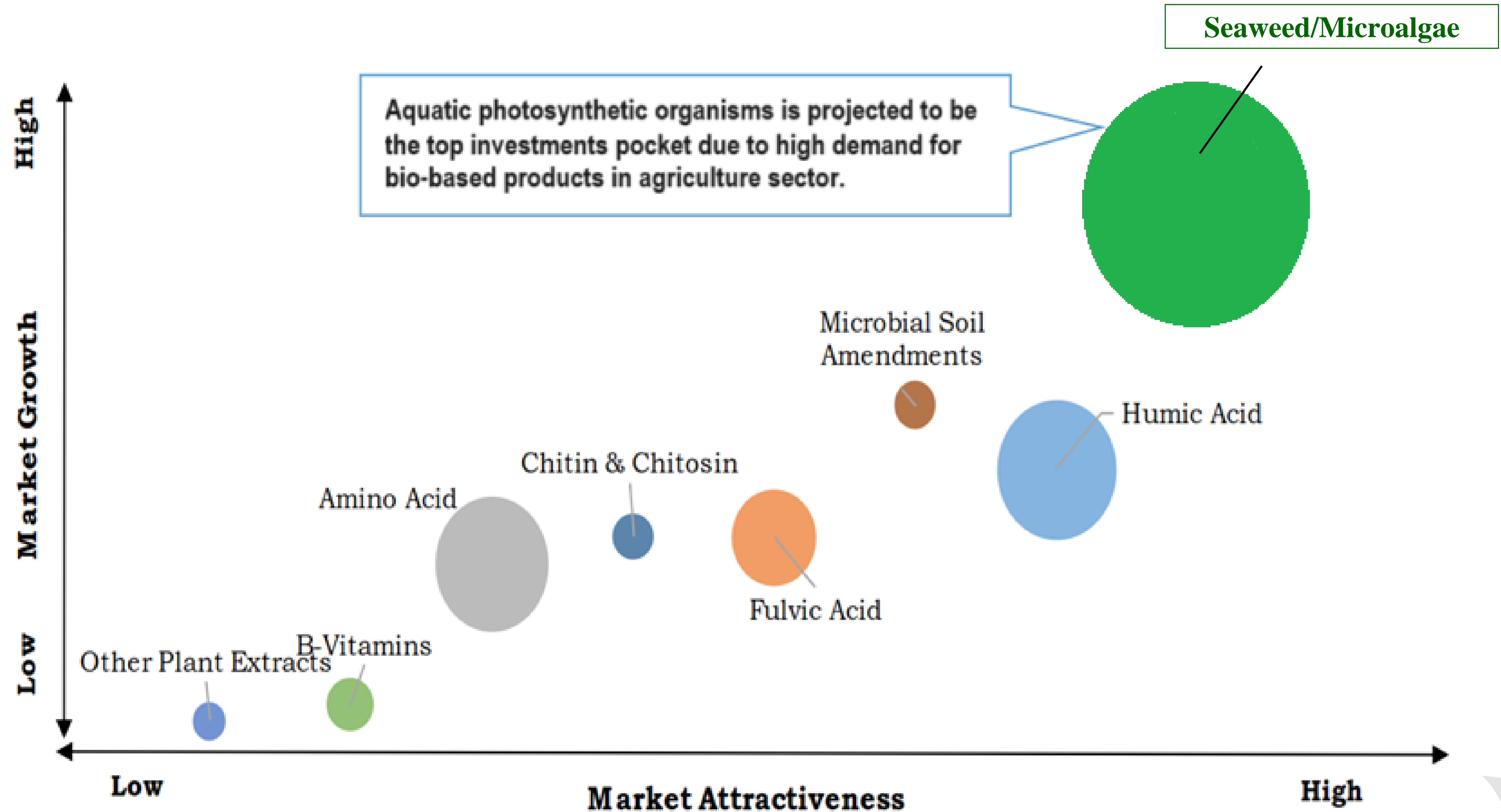


Microalgae for plant biostimulants



Alvarez A. L., Weyers S. L., Goemann H. M., Peyton B. M., Gardner R. D. (2021). Microalgae, soil and plants: A critical review of microalgae as renewable resources for agriculture, *Algal Research* 54: 102200. <https://doi.org/10.1016/j.algal.2021.102200>

Global Biostimulants Market



Source: Global Biostimulants Market. Allied Research Market





Research & Development



2013 - 2014

REGENERA

Wastewater treatment and ~~biofertiliser~~ **BIOSTIMULANTS**
production via microalgae cultivation



Research Centers:



2016-2021



Sustainable production of bioactive compounds from microalgae for enhancement of agriculture and aquaculture activities.



Centros de investigación:





REALM

2022-2026

Reusing Effluents from Agriculture to Unlock the Potential of Microalgae



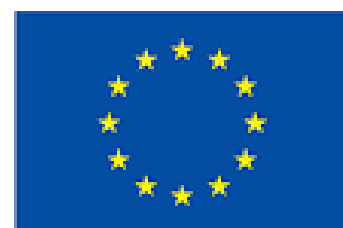
Funded by
the European Union

Budget
10,8 M €

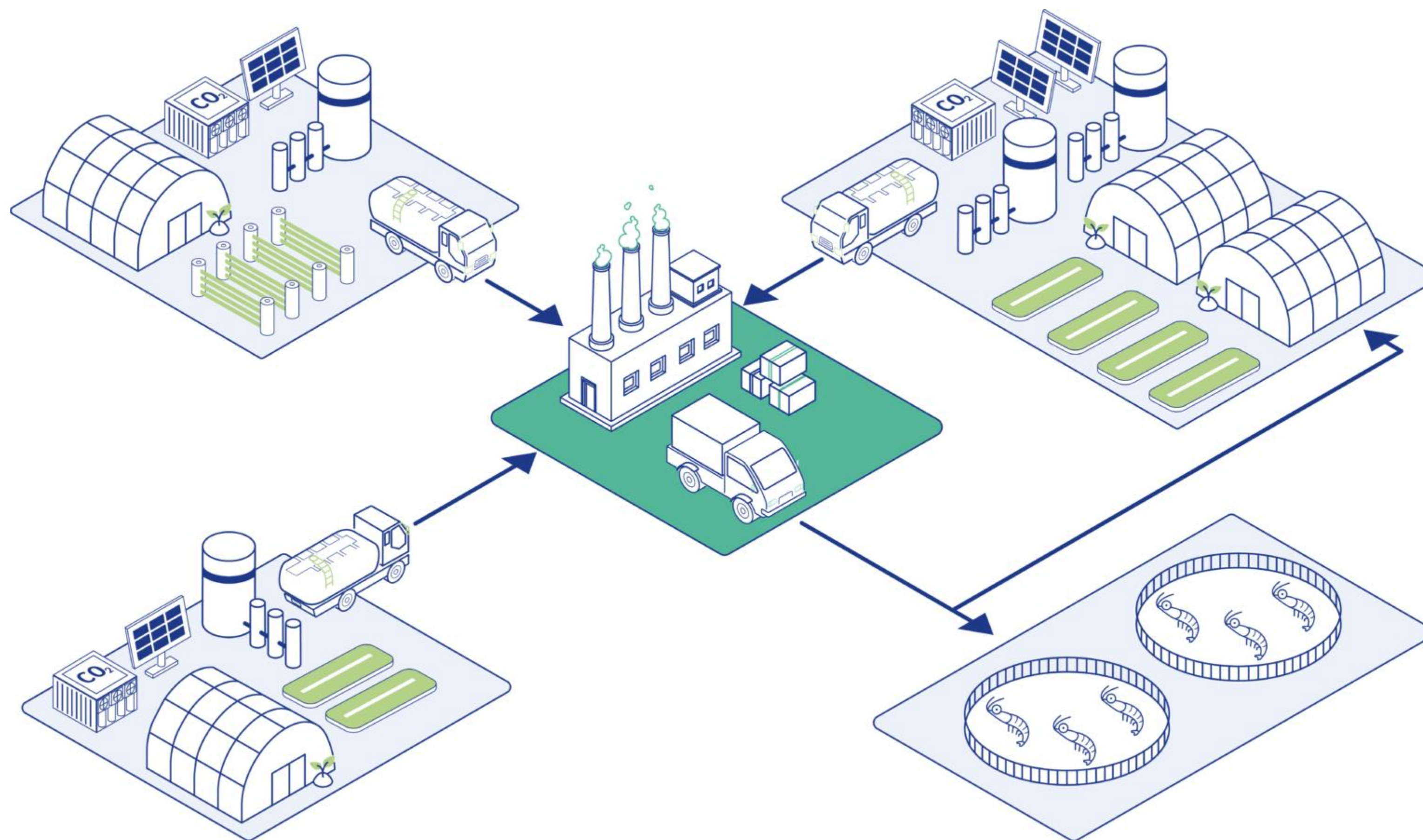




REALM



Co-funded by
the European Union





2021-2023

Eco-friendly and sustainable new family of Biopesticides based on Microalgae via circular economy approach



Blue Economy Window Call
- EASME/EMFF/2020



 Co-funded by
the European Union

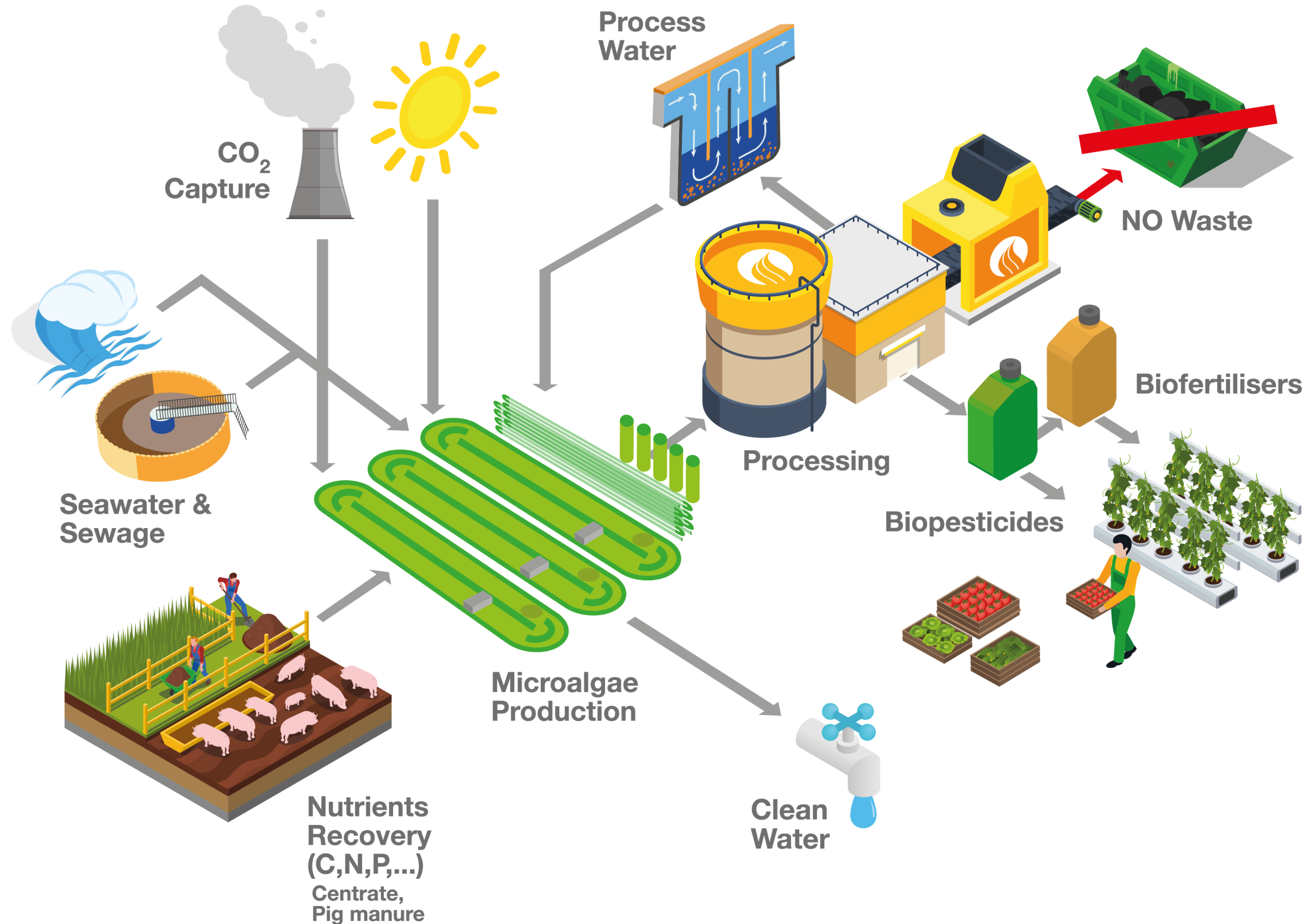
Budget
1,4 M €



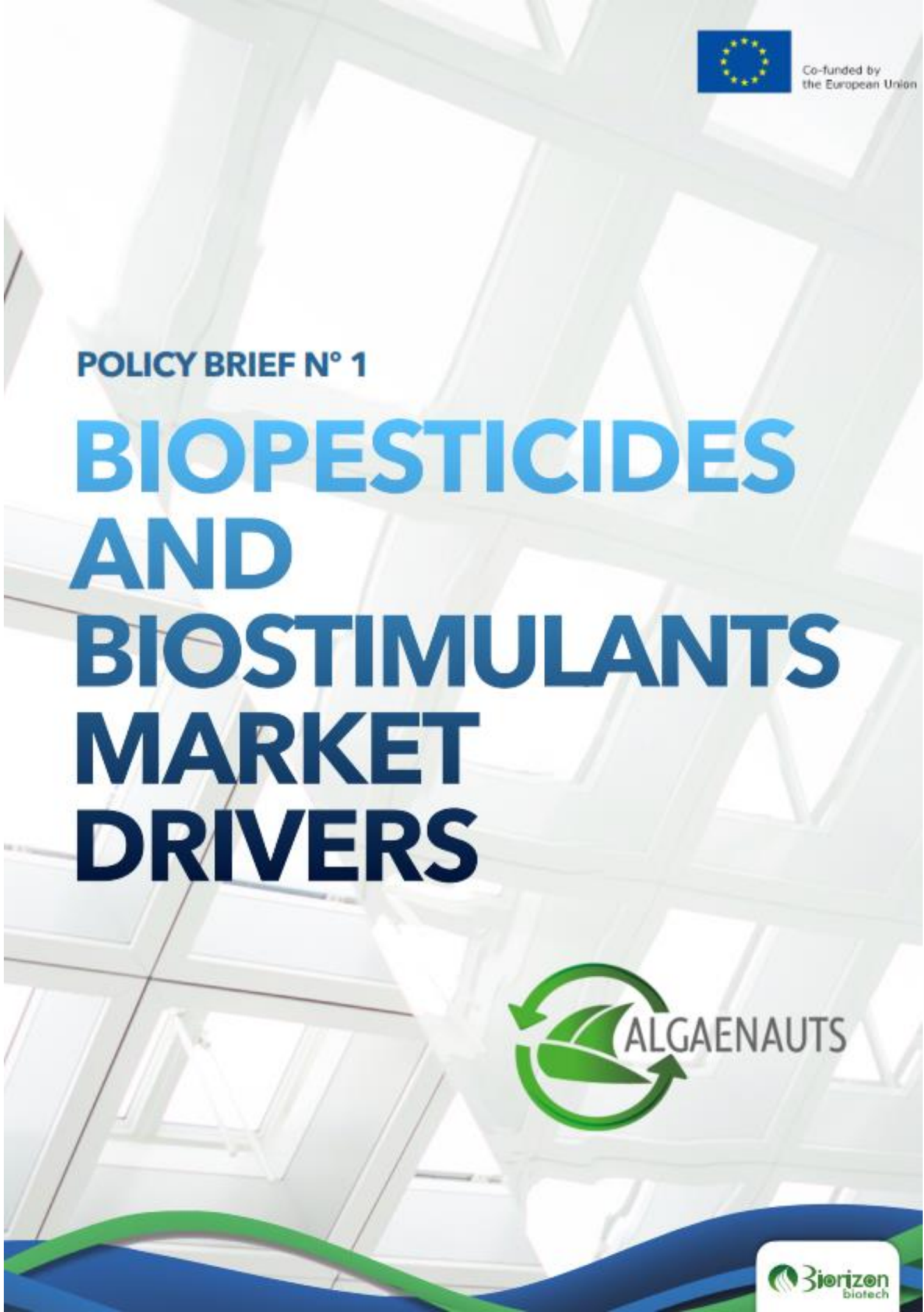
Eco-Innovative process



Co-funded by the EMFF programme of the European Union under grant agreement No. 101038250



Market and legal framework for microalgae-based biostimulants





www.biorizon.es



[@biorizonbiotech](https://www.facebook.com/biorizonbiotech)



[@biorizonbiotech](https://twitter.com/biorizonbiotech)



[@biorizonbiotech](https://www.linkedin.com/company/biorizonbiotech)



[@biorizonbiotech](https://www.instagram.com/biorizonbiotech)



Albert Einstein, 15
Scientific & Technological Park of Almeria,
PITA
04131 Almería (Spain)
biorizon@biorizon.es
www.biorizon.es