



GreenCoLab

Joining the pieces
in algal biotechnology.





What we are



GreenCoLab is a collaborative platform to bridge the transfer of knowledge in the broad field of algae biotechnology

R&I agenda based on the exploration of micro- and macroalgae for different applications

Based in the University of Algarve (Faro, Portugal), with strategic partners located all over Portugal

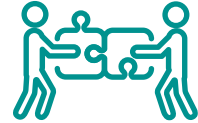




GreenCoLab

Joining the pieces.

Our partners



ACADEMIA

GreenCoLab is composed of 8 associates, with the common goal of advancing the RDI on algae biotechnology

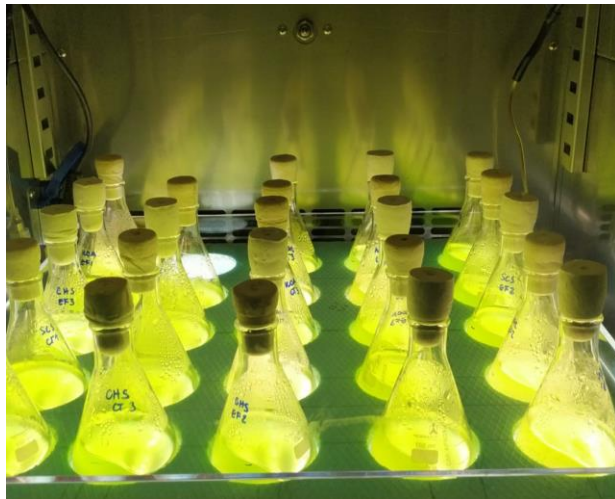
CCMAR



LNEG



universidade de aveiro

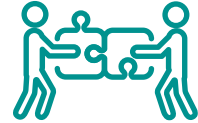




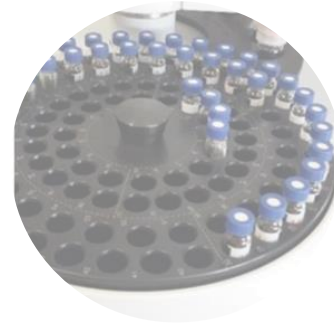
GreenCoLab

Joining the pieces. |

Our partners



GreenCoLab is composed of 8 associates, with the common goal of advancing the RDI on algae biotechnology



ACADEMIA



ALGAE PRODUCERS

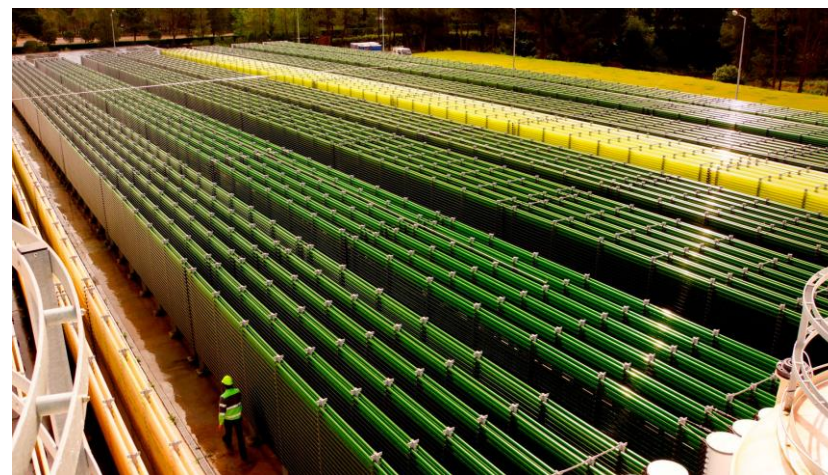
necton



Allmicroalgae
natural products



ALGA+





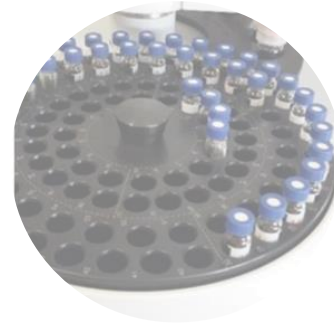
GreenCoLab

Joining the pieces. |

Our partners



GreenCoLab is composed of 8 associates, with the common goal of advancing the RDI on algae biotechnology



ACADEMIA



ALGAE PRODUCERS



ALGAE VALORIZATION





GreenCoLab

R&I Agenda



✓ *6 Action lines*

✓ *Covers the whole value chain*

✓ *High focus in sustainability*

✓ *Innovative Products & Services*





GreenCoLab

Projects



6.84M€

National

✓ 2 PT2020 projects

✓ 1 SIAC

✓ 1 PRR – Blue Bioeconomy agenda

International

✓ 2 H2020 projects + 3 Horizon EU

✓ 2 EEA Grants + 1 INTERREG

✓ 2 Networking projects

PT2020

PERFORMALGAE

algaeSolutions

ALGAEREFINE

H2020



Algae4IBD

Horizon Europe



REALM

EEA Grants & Interreg

SEAWEED2PLANT



Networking

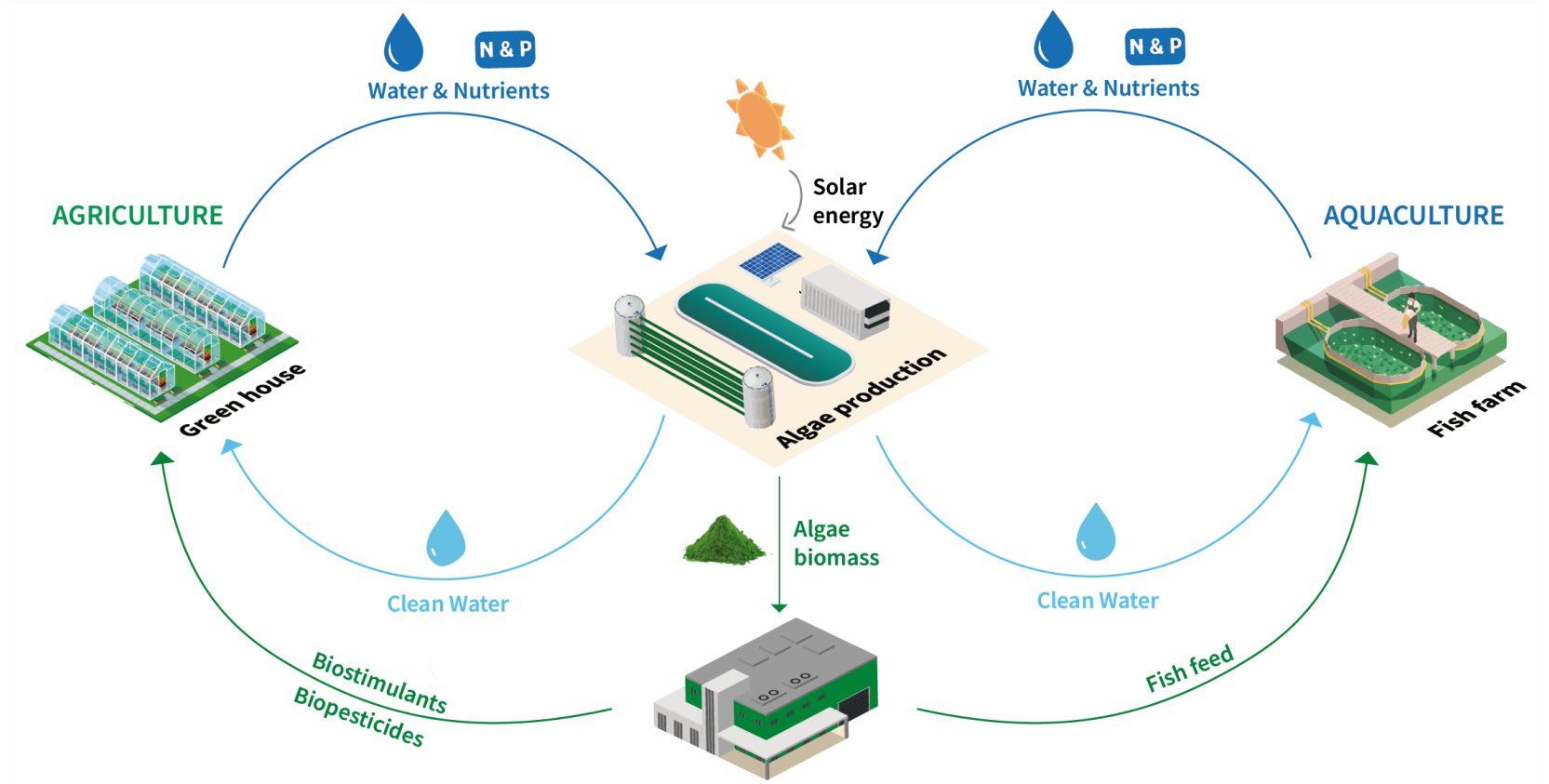


HIGHPROD

ECONOMIA CIRCULAR DEMO



Circular economy DEMO





GreenCoLab

Joining the pieces.

PRR – Circular economy DEMO



Perímetro 381,78 m

Área 2 031,9 m²

Iniciar nova

Estufas experimentais

Sala do Horto





Infrastructures

ALGAEREFINE

Lightweight industrial pavilion (500 m²)

- ✓ *300 m² Biorefinery labs*
- ✓ *300 m² Offices*

- ✓ *200 m² Pilot-scale biorefinery*



Location: **Close to “Horto”**



GreenCoLab

ALGAEREFINE

- ✓ *Proof of concept DEMO*
- ✓ *Development of high value ingredients for different biotechnological applications*
- ✓ *Application of algae-based refined ingredients in innovative products*
- ✓ *Novel equipment's will be acquired (e.g., high performance miller, supercritical extractor)*





ECONOMIA CIRCULAR DEMO

| Cross-border cooperation

Jornada de Trabalho ATLAZUL



Interreg
España - Portugal



Atlazul

Fundo Europeu de Desenvolvimento Regional



DEMO ECONOMIA CIRCULAR

Cross-border Context

Privileged climate conditions, due to the high solar irradiance and temperature

Strong R&D+i relationship with Algae-valorisation, Aquaculture, Agriculture fields and their associated-economy

Ability to democratize and mobilize know-how and technical expertise associated with the DEMO

Southern Iberian regions face increasing challenges with limited natural water supply





DEMO ECONOMIA CIRCULAR

Goals

Validate sustainable integrated approaches as a de-risking strategy by testing novel cultivation concepts

Decrease regional fresh-water usage, and enable nutrient recycling

Maximize productivity and profitability on a larger multi-industry scale

Attract highly qualified human resources, in tourism-dominant and low-density areas

Promote a cross-border transfer of knowledge, leading to info exchange and data generation





DEMO ECONOMIA CIRCULAR

Outcomes



Sustainable, scalable and economical-feasible cultivation systems

Development of new characterized functional ingredients alternative to synthetic and unsustainable

High-quality scientific data, that will advance this field of research

Strong collaborative networking among cross-border partners

Reduced environmental impact and low dependency on water





GreenCoLab

Joining the pieces
in algal biotechnology.

THANK YOU!

