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Making the best of algae biomass

*From sustainably produced biomass to
valuable phycocyanin and co-products*



Project ID

Name	SPIRALG
Funding	BBI-JU under Horizon 2020
Duration	2018 - 2022
Partnership	GREENSEA (Coordinator, France), MILIS (Italy), ALGAIA (France), MIAL (Germany) and UCD (Ireland).
Cost	5,6 million €

Work plan and leaders

WP 1	Microalgae cultivation	MILIS
WP 2	Phycocyanin extraction	GREENSEA
WP 3	Valorisation of co-products	ALGAIA
WP 4	Economic and market analysis	MIAL
WP 5	Life Cycle assessment	UCD
WP 6	Project management	GREENSEA



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 Matteo PAVANE, MILIS
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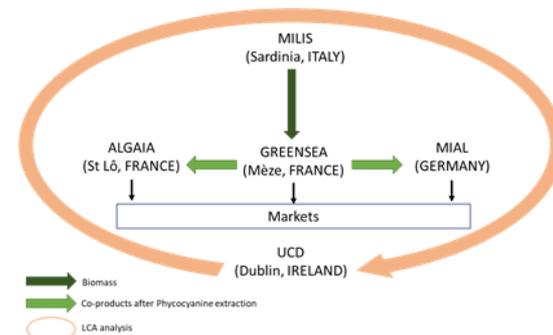
Aim and impacts

Develop a DEMONSTRATOR able to produce 1 ton of phycocyanin per year under environmentally sustainable and economically viable conditions

Spirulina is a filamentous blue-green micro-algae currently produced and commercialised as food complements. Among its major components, the blue pigment (phycocyanin), which can reach 20% of the biomass, is identified as a high value product.

SPIRALG will make the best of this biomass by producing and valorizing different fractions for markets within the agro-food and health sectors. In order to be economically competitive, the industrial partnership will work jointly towards

- ✓ **Energy saving production systems** (co-generation, automation, water based extractions...)
- ✓ **Efficient bio-based value chains** for complete valorisation of the biomass



SpiralG has the ambition to:

Modernise a known established sector of microalgae production by boosting innovation in all compartments.

Increase the competitiveness of European biomass producers and industry by supporting new jobs, growth and investments

Ensure sustainable and low environmental impact

HYPERFOOD
by Milis Energy

MIAL
MICROALGAE TECHNOLOGY

BIOTECHNOLOGIES
GREENSEA

Algaia
Your natural partner

UCD DUBLIN
University College Dublin
Ireland's Global University