

Partners



Contact us

If you would like more information about the project, please contact us:

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Valuable Products from Algae
Using new Magnetic Cultivation
and Extraction Techniques



Horizon 2020
European Union Funding
for Research & Innovation

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The Project

VALUEMAG proposes a revolutionary technology for microalgae industry in order to produce and purify high-value biomolecules in an affordable and environmentally-friendly manner by:

- Developing a photobioreactor system (mPBR) based on magnetics nanoparticles and a magnetic steel cone
- Optimizing cultivation parameters

Objectives

VALUEMAG project seeks to develop an advanced magnetic method for micro-algae cultivation and harvesting at minimum cost. It further includes integrated bio-refineries conception to treat microalgae biomass and thus:

- Holistic production of food from microalgae biomass
- Obtaining commercially valuable products (cosmetics & nutraceuticals)

Impact

Economic & competitive innovative technology

- Efficient use of lands
- Drastic reduction of costs, water and electricity.
- High production rate

Environmentally friendly approach

- Water and CO2 recycling

Socio-economic and development driven force

- New job creation
- Improvement of the innovation capacity
- Integration of new knowledge

