

## Main expected impacts

ABACUS will participate to 3 KPIs of the AWP of



ABACUS will demonstrate the realization of Terpenes and terpenoids biobased value chain thank to the selection of new algae strain, to the use of new qualification production on biomass production line and to low cost and integrated extraction process step.

→ 1 new bio-based value chain (KPI 2)

ABACUS aims to license at least 5 new biobased materials from the ABACUS value chain.

→ New biobased materials by 2020 (KPI 5)

ABACUS will significantly improve the production of terpenes and terpenoids thanks to the use of new qualification device equipping PBR systems.

→ New consumer products based on bio-based chemicals & materials by 2020 (KPI 6)



Grant Agreement N°745668



ABACUS brings to the market **innovative algae-based ingredients** for high-end applications, spanning from algal **terpenes** for fragrances to **long-chain terpenoids (carotenoids)** for nutraceuticals and cosmetic actives.



## Main challenge of ABACUS

Commercialization of high value compounds is the main lever for commercial growth of the existing microalgae industry, and product innovation based on new molecular targets and biorefinery schemes could open new market areas.

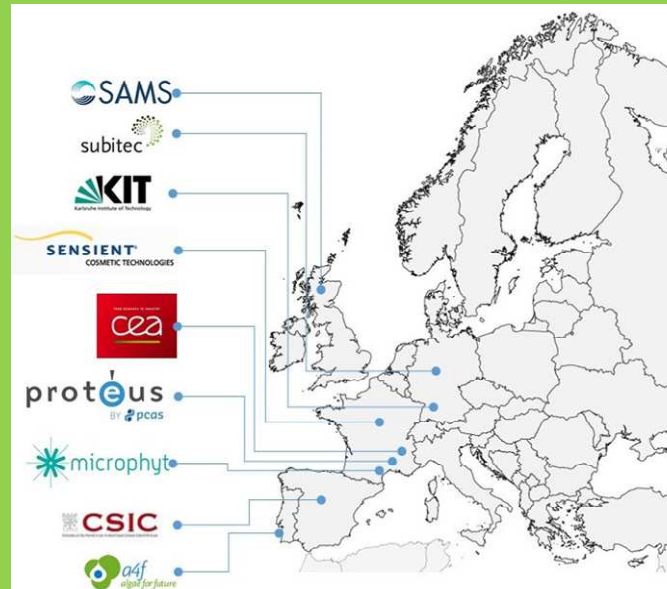
The full value chain to generate final goods from algae source is mastered in ABACUS to clarify and strengthen their position on competitive markets.

The ABACUS project confronts these challenges with a strong focus on high value metabolites for high-value markets as lead products in a comprehensive biorefinery scheme.

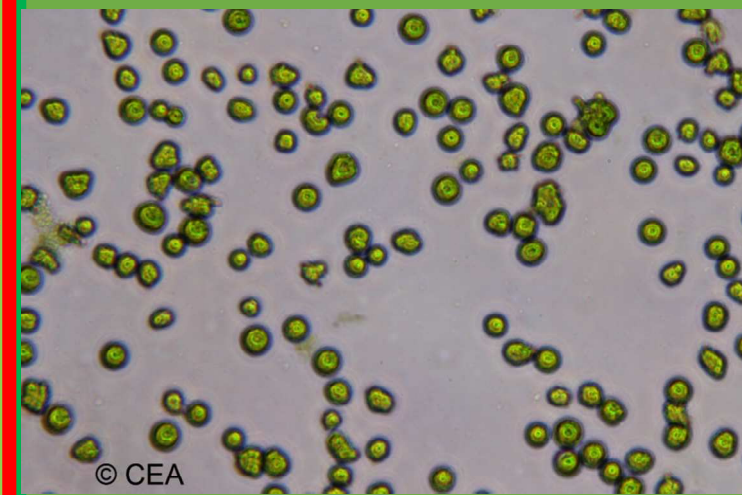
**The main achievement of ABACUS will be to tackle the biological and bioprocess challenges of oriented algal production for different terpenoids**

## CONSORTIUM

*ABACUS gathers 2 large industries, 3 SMEs and 4 RTOs.*



*ABACUS selects and optimizes unique algae strains from 5 large culture collections owned by project's partners:*



For more information about ABACUS

[www.abacus-bbi.eu](http://www.abacus-bbi.eu)

ABACUS is a Research and Innovation Action project coordinated by



*ABACUS project has received funding from the BioBased Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement N° 745668.*