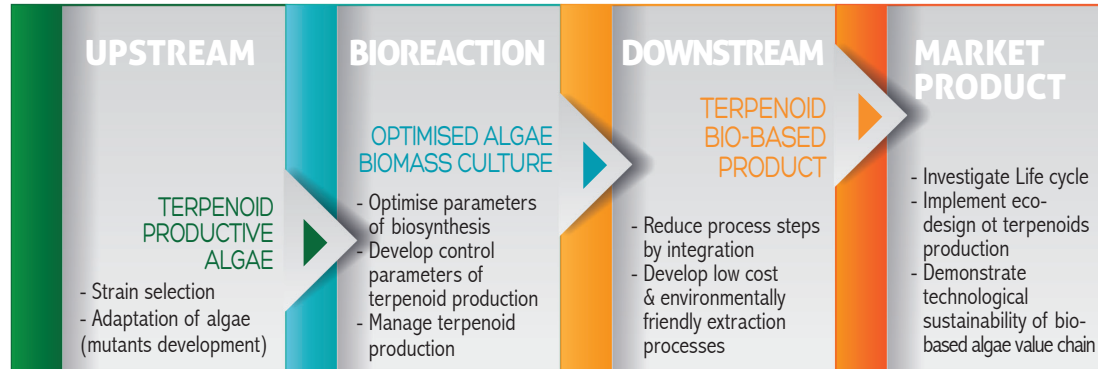


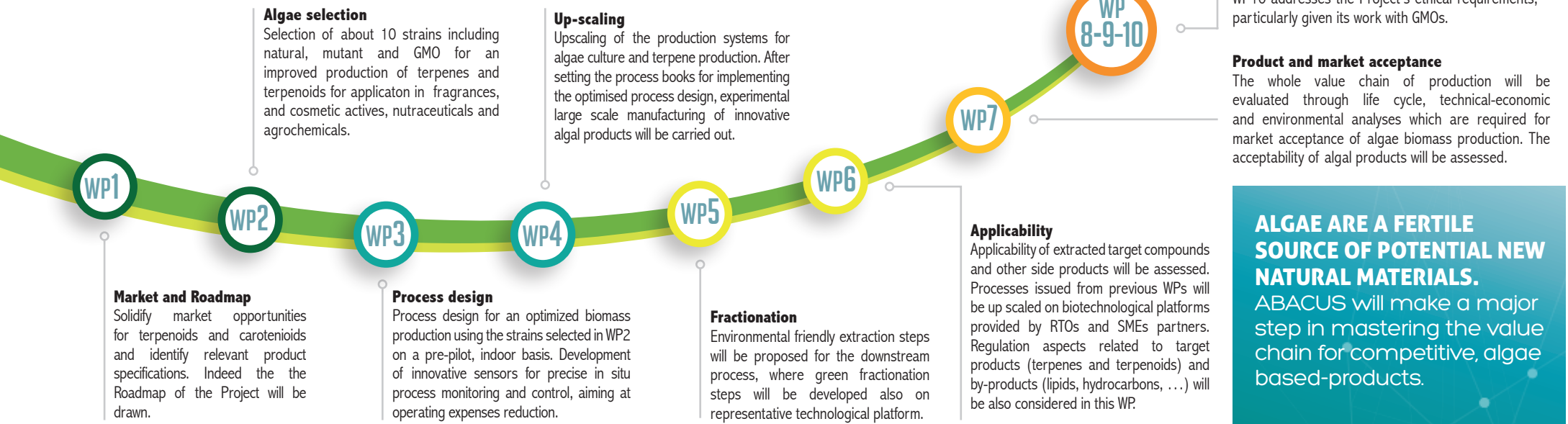
Bringing **INNOVATIVE MICROALGAE-BASED** compounds to the **MARKET**



THE MAIN ACHIEVEMENT FROM ABACUS WILL BE TO TACKLE THE BIOLOGICAL AND BIOPROCESS CHALLENGES of oriented algal production for different terpenoids encompassing both well-established and more innovative market sectors.



RoadMAP



ALGAE ARE A FERTILE SOURCE OF POTENTIAL NEW NATURAL MATERIALS.

ABACUS will make a major step in mastering the value chain for competitive, algae based-products.

About the PROJECT



ABACUS is a 3-year project aiming at a business-oriented and technology-driven development of a new algal biorefinery, thereby bringing to the market innovative algae-based ingredients for high value applications, with focus on algal terpenes for fragrances to long-chain terpenoids (carotenoids) for nutraceuticals and cosmetic actives.

The concept of ABACUS will associate several interdisciplinary approaches in order to support a high-value products oriented market development:

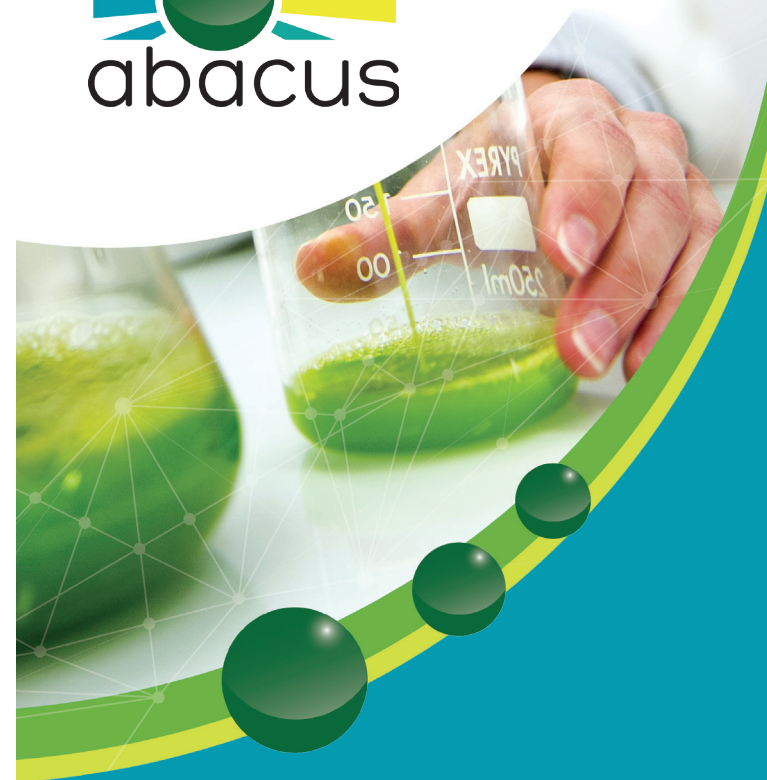
- Selection and Biological engineering of microalgal strains and oriented photosynthesis of terpenoids
- Technological development of algae biomass production system to optimize cultivation and photosynthesis of terpenoids
- Technological development of the downstream processing step to reduce harvesting time and costs (both investment and operational costs), and to be environmentally acceptable
- Market development oriented to new added value algae bio-based materials and new bio based value chain production

Terpenoids are molecules that can be found in photosynthetic microorganisms like plants or algae. They represent a renewable alternative to petroleum-derived fuel and building blocks of synthetic biopolymers as well as high value compounds for cosmetic and nutraceutical uses

WE ARE abacus



This project has received funding from the Bio-Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation program (grant agreement N° 745668)



ALGAE for a BIOMASS Applied to the PRODUCTION of added value COMPOUNDS

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