

PLENITUDE

FIRST-OF-ITS-KIND, LARGE-SCALE, LOWEST-COST, ZERO-WASTE BIOREFINERY FOR THE PRODUCTION OF PROTEINS FOR FOOD AND FEED APPLICATION FROM LOW COST SUSTAINABLE FEEDSTOCKS



FACTS & FIGURE

“First-of-its-kind, large-scale, lowest-cost, zero-waste biorefinery for the production of proteins for food and feed application from low cost sustainable feedstocks”

H2020 – N. 838104

Duration

2019 – 2024 (60 months)

PLENITUDE



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N. 838104



DESCRIPTION

Project's aim

The challenges of feeding a rapidly growing population presents a high-level strategic problem and according to the European Parliament “The EU is currently suffering from a major deficit in protein production and is dependent on imports from third countries,” creating an urgent need for technology breakthroughs to increase local protein production .

The PLENITUDE project addresses this challenge by using the benefits of biotechnology and the use of nature and natural processes to support efficient manufacturing. The project integrates two established processes into a flagship, large-

scale, first-of-its-kind, biorefinery producing bioethanol and sustainable food-grade protein. The process takes a proportion of the sustainable cereal crops that feed the biorefinery to create a feedstock for the fermentation process to produce mycoprotein, an established high-quality protein currently used as a meat alternative.



HOW WE CONTRIBUTE

- Life Cycle Assessment
- Life Cycle Costing Analysis
- Social Life Cycle Assessment



EXPLOITABLE RESULTS

coming soon