

## Innovation Booster

**NextGenProteins** will serve as a platform for industrial partners/ entrepreneurs to take their innovations to the next level by turning them into relevant, credible products and thus, accelerate market-driven, customer- and consumer-responsive innovative EU alternative protein production. This will contribute to EU's food security and its goal of future proofing food and feed supply chains in a world faced with climate change, resource scarcity, increasing waste and aging population.

## Demonstration Platform

**NextGenProteins** will demonstrate the suitability of alternative proteins in food and feed value chains.



### Microalgae Protein

Microalgae will be grown on carbon dioxide (CO<sub>2</sub>) emission from a geothermal power plant in an efficient, indoor production process, transforming waste into microalgal protein meal.



### Insect Protein

Black soldier flies and crickets will be grown on underutilised plant-food biomass, transforming waste into insect protein meal.



### Single Cell Protein

Carbohydrates derived from wood biomass and biomass residues, will be transformed through microbial fermentation to turn non-food biomass into Single Cell Proteins.

Specialists and companies along the entire value chain, from producers in the forefront of alternative proteins development, through research institutes and university all the way to large and relevant businesses in feed and food production team up to produce the **NextGenProteins**.

*Do you want to be part of it?*

*Contact us!*



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# NEXTGEN

PROTEINS

**Bioconversion of Underutilized Resources  
into Next Generation Proteins for Food and Feed**

*Access to high quality, sustainably produced proteins is becoming increasingly restricted due to a growing world population, increased pressure on natural resources and climate change, while at the same time the global protein demand has never been higher for both food and feed.*

This Project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement no. 862704.

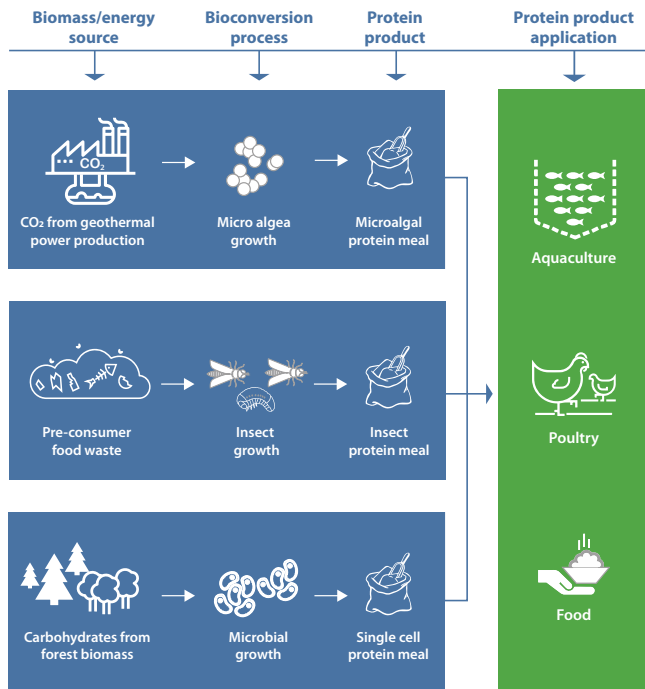


## Objective

**NextGenProteins** will optimise the production of **three alternative proteins** through **resource efficient bioconversion** processes and demonstrate their suitability in an industrially relevant environment as addition to, or **substitute of traditional protein** sources in **various feed and food** applications.

**NextGenProteins** will contribute to strengthening food security, sustainability and self-sufficiency of EU protein production by demonstrating the suitability and economic viability of next-generation proteins as part of food and feed value chains with less strain on natural resources and reduced environmental impacts.

## Concept



## Methodology

**NextGenProteins** addresses key barriers that currently prohibit the industrial production of microalgae, insect and single cell proteins, such as scalability, production costs, value chain risks, safety, regulations and consumer acceptability.

