Animal waste

UC 2 - France

- Multiple animal wastes: fish farming, shellfish industry, slaughterhouses and sheep breeding
- Availability, characterisation and seasonality studies
- Protocols for sorting, pre-treatment and conditioning

Process

- Simultaneous fractionation of multiple animal wastes
- Enzymatic hydrolysis combined with twin-screw extrusion
- Scale-up to an industrial environment
- Zero-waste process

Outputs

- Liquid biostimulant
- Bio-based organic fertiliser pellets
- Fish oil

LANDFEED

Animal Waste to Bio-based Fertiliser

The French Use Case develops an innovative process to convert a mix of undervalued animal wastes into new ad hoc balanced bio-based fertilising products. A mix of wastes from several agro-industrial sectors is transformed by an optimised sequence of twin-screw extrusion and enzymatic hydrolysis to produce a liquid biostimulant and a solid organic fertiliser. The process simultaneously generates a high-value-added fish oil to reach a zero-waste process. It contributes to strengthen the European fertiliser value chain, meanwhile complying with the EU Fertilising Products Regulation.

Circular Bio-based Europe Joint Undertaking

Bio-based Industries Consortium

Co-funded by the European Union