

ABC Animal Bone Char Phosphorus REcovery

BioPhosphate developed for replacing the imported critical raw material phosphate rock based chemical fertilisers with secondary source of phosphorus.

The ABC (Animal Bone Char) BioPhosphate is made of food grade cattle bone grist, which is processed at 850 degree Celsius material core temperature under 3R specific processing conditions.

The BioPhosphate contains high amount of Phosphorus (>35% P₂O₅) and Calcium (>37%) that are processed/formulated to be available for plants, which allows efficient, environmentally safe and renewable BIO-NPK-C compound biofertilizer supply at less cost.

 **BIO P HOSPHATE**
100% NATURAL



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#Nutri2Cycle



www.nutri2cycle.eu

www.biophosphate.net

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National Task Forces

HUNGARY



Nutri2Cycle

Transition towards a more
carbon and nutrient
efficient agriculture in
Europe



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 773682.

Nutri2Cycle mission & goals

The Nutri2Cycle, EU project is aimed at closing C-N-P loops by reconnecting nutrient & carbon flows between conventional agro-pillars through agro-processing.

The project will:

- Benchmark existing N-P-C flows
- Propose & test innovative technologies at local level
- Validate (prototype lighthouse demo's)
- Elaborate strategic scenario's to identify the effect of these innovations at EU scale

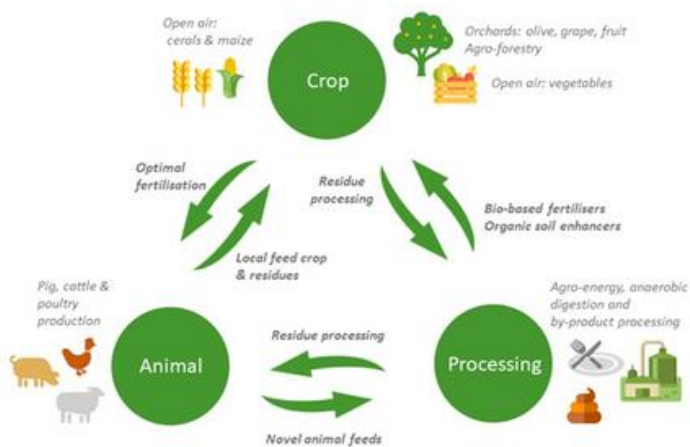
ABOUT THE PROJECT

The Nutri2Cycle is running from 2018 to 2023.

European agriculture is still characterized by a high overall contribution to greenhouse gas emissions and inefficient recovery of carbon and re-use of major plant nutrients. The project will assess the current Nitrogen, Phosphorus and Carbon flows looking into existing management techniques in different farms across Europe & analysing their related environmental problems.

NATIONAL TASK FORCES

NTFs set up in all Nutri2Cycle member states to enable the percolation of project results to local level in local language, especially towards Producer Organizations and local Operational Groups for production of fresh fruits/vegetables.



The BioPhosphate demo is set-up in real-world deployment conditions to address closing CNP loop to replace mineral P-fertilisers with ABC-animal-bone-char that is added-value upcycled (valorised) from food grade animal bones.



ABC Animal Bone Char for Phosphorus recovery. Formulated Bio-Phosphate trials for two comparative plants: elder and wheat

This demo is operational at TRL 8 in deployment conditions and is ready to be commercialized for BioPhosphate product manufacturing at next level TRL9 (20,800 t/y throughput capacity).

NUTRI2CYCLE brings together the extensive expertise of leading experts in the field of nutrient cycling from 19 organisations of 12 EU countries.