



CLOSING NUTRIENT LOOPS

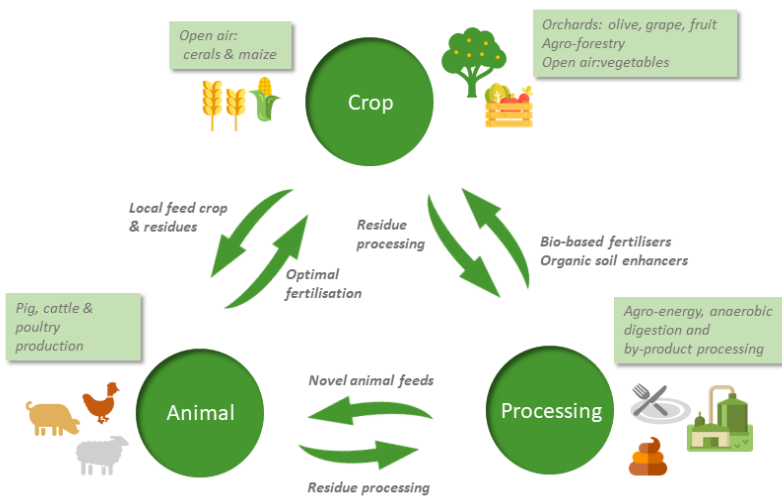
The Nutri2Cycle project runs from 2018 to 2023. It provides an essential contribution to circular economy by closing nutrient loops.

European agriculture is still characterized by a high overall contribution to greenhouse gas emissions as well as inefficient recovery of carbon and reuse of major plant nutrients (nitrogen and phosphorus).

The Nutri2Cycle project assesses the current Nitrogen (N), Phosphorus (P) and Carbon (C) flows looking into existing management techniques in different farm systems across Europe and analysing their related environmental problems.

Tackling the existing nutrient flow gaps in Europe it helps decreasing greenhouse gas emissions, reducing soil degradation and improving EU independence for energy and nutrients.

From farmers to end-users: targeting the whole value chain



Nutri2Cycle interacts with all actors influencing nutrient cycles to:

- Create more efficient and sustainable farm business models for nutrient recovery and recycling.
- Spread the results at regional, national and European level throughout a comprehensive network of regional operational groups, National Task Forces and European stakeholders.
- Assess how the products obtained through the identified business models can aim for labelling and reach end-users.
- Provide scientific support on effective regulatory frameworks to reduce emissions and increase self-reliance of Europe for food, energy and nutrients in the next century.

The recovery of nitrogen and phosphorus in farms can be significantly improved by creating better synergies between animal breeding and crop production. These improvements facilitate the return of carbon to soil and reduce greenhouse gas emissions, which could be combined with the production of energy for self-consumption on-farm.

Lighthouse demo solutions: put theory into action

Nutri2Cycle demonstrates and upscales new or optimised technologies, tools and practices. 14 selected lighthouse demo solutions aim to capture and compile evidence-based research outcomes of C, N, P loop closure at relevant pilot, field, farm scale and/or operational scale.

Nutri2Cycle assesses their transferability and potential impact at the regional, national and international level to determine the overall sustainability and innovation capacity of EU agricultural systems and formulate policy recommendations.

