

PARTNERS INVOLVED



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CONTACTS

Project Coordinator:

Laia Llenas Argelaguet
laia.llenas@uvic.cat
BETA Technological Centre - UVIC

EU Project Manager

Stéphanie Roosa
stephanie.roosa@greenwin.be
GreenWin



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FERTIMANURE

INNOVATIVE NUTRIENT RECOVERY
FROM SECONDARY SOURCES-
PRODUCTION OF HIGH-ADDED VALUE
FERTILISERS FROM ANIMAL MANURE

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ON-FARM PILOTS

On-farm pilots implementing, operating, and evaluating different and complementary technologies. The energy and mass efficiency has been evaluated in near to optimal configurations.



FERTIMANURE QUALITY ASSESSMENT

In general, FERTIMANURE products led to similar crop yield and nutrient release in the soil than the mineral fertilisers compared.

Although conclusions have yet to be drawn from the gas emission analyzes regarding their environmental impact, the initial results suggest that they can be a good substitute for current mineral fertilizers.

10 tested crops: potatoes, rye grass, winter wheat, tomatoe, spinach, cabagge, maize, sugar beet, grass, and lettuce.



18 BIO-BASED FERTILISERS (BBFs) RECOVERED

- **Nitrogen (N)** fertilisers: ammonium sulphate and nitrates with up to 7% and 15% of N.
- **Phosphorus (P)** and **potassium (K)** fertilisers: P rich ashes with up to 15%P₂O₅.
- **Organic** amendments: biochars, soil conditioners from digestate, and biodried organic amendments.
- **Biostimulants**: microalgae-based biostimulants with up to 1.5% free aminoacids.

ROAD TO MARKET

With the aim of putting recovered BBFs on the market, FERTIMANURE will generate **business plans** focused on 3 types of end products: mineral fertiliser, organic amendment and biostimulant. Business plans will provide a handful of insight into the economic profitability and sustainability of production.

Next to that, 2 levels of **business model** canvases will be produced for farmers and the fertilising industry, depicting the fundametal elements of a business and structuring an idea of BBFs production in a coherent way.



FERTIMANURE MANURE MANAGEMENT PACKAGE

Its aim is to help farmers on a better management of manure, considering direct manure use, nutrient recovery, as well as environmental, legal and economic aspects.



The **Logistics Tool** calculates the economically optimal logistic and manure management strategy (treatment, transport, BBF production) considering the regional nutrient requirements and limitation of a specific crop-soil combination and regional manure production.



The **Decision Support System** supports users to take well informed decisions regarding which FERTIMANURE pilot they could use to produce an specific BBF considering their farm manure production and the pilots treatment capacity, life cycle environmental performance and economic performance (CAPEX and OPEX).



The **TMF Nutrition Tool** calculates the optimal combination of BBFs to meet with the nutrient requirements of a specific crop-soil combination and by taking into account the soil fertility status, regulatory limitations and/or price of the fertilising products.



The **Regulatory Tool** evaluates the alignment of the produced BBFs with the EU Fertilising Products regulation.

