Innovative nutrient recovery from secondary sources – Production of high-added value FERTIlisers from animal MANURE

Fact Sheet

Project Information

FERTIMANURE
Grant agreement ID: 862849

Status
Ongoing project

Start date
1 January 2020

End date
31 December 2023

Funded under
H2020-EU.3.2.1.1.
H2020-EU.3.2.4.1.

Overall budget
€ 8 419 670,75

EU contribution
€ 7 784 512,25

Coordinated by
FUNDACIO UNIVERSITARIA
BALMES
Spain

Project description

Added value and Safe fertilisers from livestock manure

More than 90 % of the manure produced by livestock farms in the EU is used for land fertilisation. However, this process is inefficient. The EU-funded FERTIMANURE project intends to develop, test and estimate advanced nutrient management strategies to produce competitive fertilisers that contribute to good yield. Their goal is to recycle valuable nutrients from livestock manure and produce bio-based fertilisers. FERTIMANURE will be deployed in five of the EU’s biggest livestock production...
countries, namely Belgium, France, Germany, the Netherlands and Spain. Outcomes should help promote this circular economy model for the EU agriculture sector.

**Objective**

"Total farm livestock population in Europe excrete around 1400 Mt of manure annually. More than 90% of manure produced is returned to agricultural fields. However, this is not being done in the most efficient and least leaky way. FERTIMANURE will develop, integrate, test and validate innovative Nutrient Management Strategies to efficiently recover mineral nutrients and other products with agronomic value from manure, to finally obtain reliable and safe fertilisers that can compete in the EU fertilizers market. FERTIMANURE focuses on “How to improve the agronomic use of recycled nutrients from livestock manure” to reconnect nutrient flows between plant and livestock production. Nutrient recycling relies not only in the technologies for producing bio-based fertilisers, but also in a better understanding and managing nutrients at the farm. The ambition of FERTIMANURE is to cover both technological approach for nutrient recovery and nutrient management. To this end, the technological approach will be covered by the implementation of 5 innovative & integrated nutrient recovery on-farm experimental pilots in the most relevant European countries in terms of livestock production (Spain, France, Germany, Belgium, The Netherlands), whereas the nutrient management will be addressed through 3 different strategies adapted to mixed and specialised farming systems: (Strategy #1) On-farm production and use of Bio-Based Fertilisers (BBF), (Strategy #2) On-farm BBF production and Centralised Tailor-Made Fertilisers (TMF) production and (Strategy #3) On-farm TMF production and use. A total of 31 marketable end-products (11 BBF & 20 TMF) will be obtained. The agronomic & environmental performance and their potential to replace conventional fertilisers will be assessed. Ultimately, FERTIMANURE seeks to provide an innovative circular economy model to favour rural development in agricultural sector by creating real synergies and links within farmers and other industrial activities."

**Field of science**

/social sciences/economics and business/business and management/commerce
/agricultural sciences/animal and dairy science

**Programme(s)**

**Topic(s)**
Call for proposal
H2020-RUR-2019-1

Funding Scheme
IA - Innovation action

Coordinator

FUNDACIO UNIVERSITARIA BALMES
Address
Carrer Perot Rocaguinarda 17 08500 Vic Barcelona Spain
Activity type
Higher or Secondary Education Establishments
EU contribution
€ 1 023 650
Website
Contact the organisation

Participants (20)

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EU contribution
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Website
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Activity type
Research Organisations
EU contribution
€ 719 222,50
Website
Contact the organisation
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<td>Italy</td>
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<td>ACONDICIONAMIENTO TARRASENSE ASSOCIACION</td>
<td>Spain</td>
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<td>IPS KONZALTING DOO ZA POSLOVNE USLUGE</td>
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Croatia

EU contribution
€ 202 436,50

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Private for-profit entities
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FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.

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€ 91 875

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FERTINAGRO BIOTECH SL

Spain
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€ 373 187,50

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Activity type
Private for-profit entities
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France
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Activity type
Research Organisations

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AGRIFUTUR SRL

Italy
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€ 210 000

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POLSKI ZWIAKEK HODOWCOW I PRODUCENTOW BYDLAY MIESNEGO

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€ 59 500

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Activity type
Other

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DEPARTAMENT D'AGRICULTURA, RAMADERIA, PESCA I ALIMENTACIO

Spain
EU contribution
€ 99 800

Activity type