



FERTIMANURE project

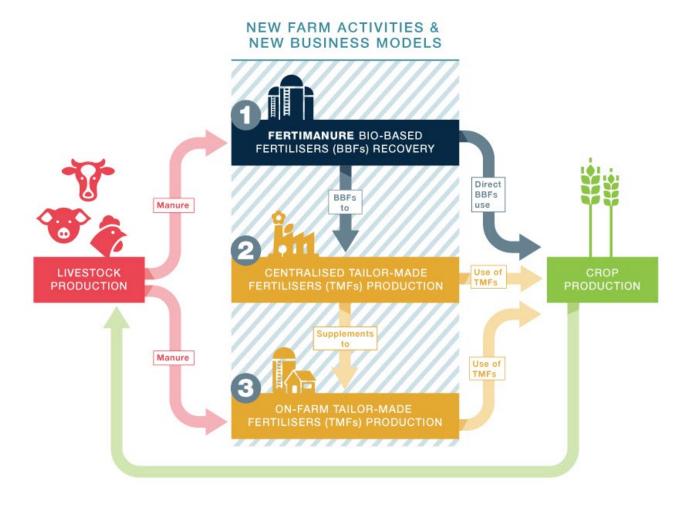
"From Farm to Market: Upcycling manure to improved fertilizing products"

Evan Marks (University of Vic)

4th Phosphorous in Europe Research Meeting (PERM)

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FERTIMANURE CIRCULAR ECONOMY STRATEGY





Challenges and opportunities addressed by the project

CHALLENGES



- Increasing global demand for mineral fertilisers + Resource Depletion
- Regional Nutrient Imbalances
- Lack of mature technologies for nutrient recovery
- In Europe, 1400 Mt/year of manure
- 7-9 Mt N/year + 1.8 Mt P/year
- More than 90% of manure is currently returned to agricultural fields





- New EU fertilisers regulation
- Social acceptance

OPPORTUNITIES

FERTIMANURE should provide real benefits and solutions to all those facing challenges related to inefficient use and management of manure.

- <u>Livestock sector</u>: Diversify the revenue sources. New farm activities bringing new business opportunities in the current fertilizers market.
- <u>Agricultural sector</u>: Well-defined and <u>standardised fertilizers</u> achieving the same consistency in performance than conventional mineral fertilisers.
- <u>Chemical Industry</u>: <u>Diversify nutrient sources</u> to produce fertilizing products. On-farm and centralised Tailor-Made Fertilizers production.
- <u>Technology providers</u>: New market opportunities for technological companies providing efficient & effective technologies for nutrient recovery.
- <u>Society</u>: Alternative internal secondary nutrient sources that will, in the long-term, ensure **food security and sustainable agriculture**.

Develop, integrate, test and validate innovative Nutrient Management Strategies to efficiently recover mineral nutrients and other relevant products with agronomic value (organic amendments and biostimulants) from animal manure, to finally obtain reliable and safe fertilisers that can compete in the European fertilizers market.



Main project outputs

Technical Outputs

- 5 Novel Technological Schemes (On-farm Pilots)
- 1 Novel System for On-Farm TMF production
- 11 Different BBFs obtained
- 8 TMFs with high market value
- 18 Compliant ILCD Datasets
- 1 Decision Support System





- 2 Business models: farmers + fertilisers companies
- 3 Business plans: mineral fertilisers, organic amendments, biostimulants

Market Outputs

Dissemination Outputs

- 4 FERTIMANURE Large scale events
- Presentation of results in 8 relevant conferences
- 16 Scientific publications
- New Community Group in Biorefine Cluster Europe

