



# Nutri2Cycle

Transition towards a more carbon and nutrient efficient agriculture in Europe



## Newsletter - February 2020

[Nutri2Cycle updates](#)

### **Nutri2Cycle at ESNI 2020**

This year, the Biorefine Cluster Europe and the Systemic consortium joined forces to promote the importance of nutrient recycling.

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#ESNI  
@Bioref\_Cluster



BIOREFINE  
CLUSTER EUROPE

# ESNI

European sustainable nutrient initiative

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## Systemic workshop

22 and 23 April 2020, Brussels

- On 22 April, the **SYSTEMIC** project will discuss in which European policy frameworks can better enable the financial viability of nutrient recovery from waste in Europe.
- On 23 April, the second edition of the **ESNI** Conference will offer you a comprehensive overview on the benefits of nutrient recycling to boost agriculture, novel food production and sustainable development.

Nutri2Cycle together with 5 EU projects joined forces to organise parallel sessions tackling: a) Research and Development, b) Policy and c) Industrial implementation. Register [here](#)

Nutri2Cycle updates

### Nutri2Cycle at the RRB and the Biobased Market people



RRB2020  
RENEWABLE RESOURCES & BIOREFINERIES

16th International Conference  
on Renewable Resources  
and Biorefineries

3-5 June 2020  
Het Pand, Ghent - Belgium

The 16th edition of the **International Conference on Renewable Resources & Biorefineries** (RRB) will take place in Ghent, Belgium from Wednesday 3 June until Friday 5 June, 2020. Delegates from university, industry, governmental and non-governmental

organizations and venture capital providers will present their views on industrial biotechnology, sustainable (green) chemistry and agricultural policy related to the use of renewable raw materials for non-food applications and energy supply.

A **Biobased Market** is taking place on the second day of the RRB conference, June 4th, from 17h where companies, institutes, start-ups and projects will be able to show their biobased products and innovations to the RRB community.



N2C will be present at both the RRB conference and the Biobased Market.

Deadline for submitting abstracts/posters: March 15

[Learn more about RRB conference and the biobased market](#)

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Nutri2Cycle updates

### Nutri2Cycle at PERM



On the 17th June 2020, the 4th **Phosphorus in Europe Research Meeting (PERM)** will take place in Vienna in partnership: ESPP, Biorefine Cluster, TU Wien, Proman. The PERM is a part of the 4th European Sustainable Phosphorus Conference (ESPC4).

The PERM is a part of the 4th European Sustainable Phosphorus Conference (ESPC4). This is a unique opportunity to meet and exchange with other projects working on phosphorus, and to discuss research perspectives with the European Commission, industry and stakeholders.

N2C is taking part of the PERM together with other EU projects.

Check out the draft program [here](#)  
Register [here](#)

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### Nutri2Cycle highlights

- [Download and share Nutri2Cycle brochure](#)
- [Check project updates on the website](#)

- [Share with us your news on nutrient recycling developments!](#)

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#### Policy developments

### "RENURE" - the proposed new term for Recovered Nitrogen from Manure

During the opening session of ManuREsource 2019, Wim Debeuckelaere, European Commission (EC) DG Environment presented for the very first time the key findings of the JRC SAFERMANURE study proposing criteria for the safe use of processed manure in Nitrates Vulnerable Zones above the threshold established by the Nitrates Directive.



A new term for Recovered Nitrogen from Manure, RENURE, was introduced. This could be considered as a first step towards end-of-manure status for processed/upcycled manure. The proposed criteria for the use of processed manure products were highlighted in the context of European Nitrate Directive. These results indicate large potential for scrubbing salts and mineral concentrates as biobased fertilisers.

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#### Nutri2Cycle updates

### Summer School "Transition towards a more carbon, nitrogen, and phosphorus efficient agriculture in Europe"

On September 16th to 19th, Gent university welcomed the first Nutri2Cycle summer school, targeting PhDs and young researches working on more efficient use of carbon, nitrogen, and phosphorus in agriculture. The event was a great success with more than 30 participants from over ten countries that actively contributed during the four days presenting their expertise.

Read more about the summer school and the activities [here](#)

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Nutri2Cycle updates

### Nutri2Cycle Second General Assembly platform

The 2nd assembly of the Nutri2Cycle project took place on 17-18/09/2019 in Ghent at the Faculty of Bioscience Engineering of Ghent University. During the meeting all work packages were presented by their respective WP leader. The main outcome of the discussions following the presentations were structured per work package. Check [here](#) a brief description of the outcomes.

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Nutri2Cycle updates

### National Task Forces launched in 12 member states

By now, most of the NTFs have already been set up and several meetings took already place in order to promote the project and discuss **nutrient recovery technologies**. During most of the first meetings, the goal was to introduce the project and to have some interesting interactive discussions among different stakeholders. During most meetings, the short list solutions were discussed in order to have an idea of how different stakeholders approach the selected

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technologies in terms of knowledge, innovation, environmental sustainability, economic sustainability, the effect on C, N, and P cycles, the degree of acceptance.

### First meeting of the Portuguese NTF

The First meeting of the Portuguese National Task force of Nutri2Cycle Project took place on October 4 2019 and gathered 40 participants at the Instituto Superior de Agronomia in Lisbon Portugal. The participants showed their interest in integrating the NTF. The meeting started with a presentation of the project, followed by a round table with key actors that gave their opinion about the limitations to create a market of organic materials to be used as fertilizers.



All the participants were very enthusiastic about the NTF and topics related to animal production; agriculture and organic materials market were discussed during the round table.



The mission of this new NTF will be:

- to ensure the promotion of the project and the dissemination of actions and results in Portugal;
- to develop a network of stakeholders at national/regional level interested in nutrient recovery and recycling;

- to encourage cooperation in the recycling of nutrients between national/regional stakeholders, exchanging knowledge and information and promoting joint actions.



The main goals defined for the first NTF actions are:

- to enhance the dialogue and interaction between sectors;
- to create specialized working groups;
- to plan some joint actions;
- to analyse the results obtained at national and international level.

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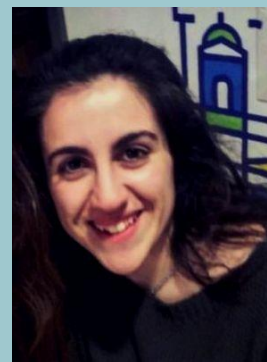
## News from WP2

### Blending of raw and treated organic materials to produce organic fertilizer or growth substrates

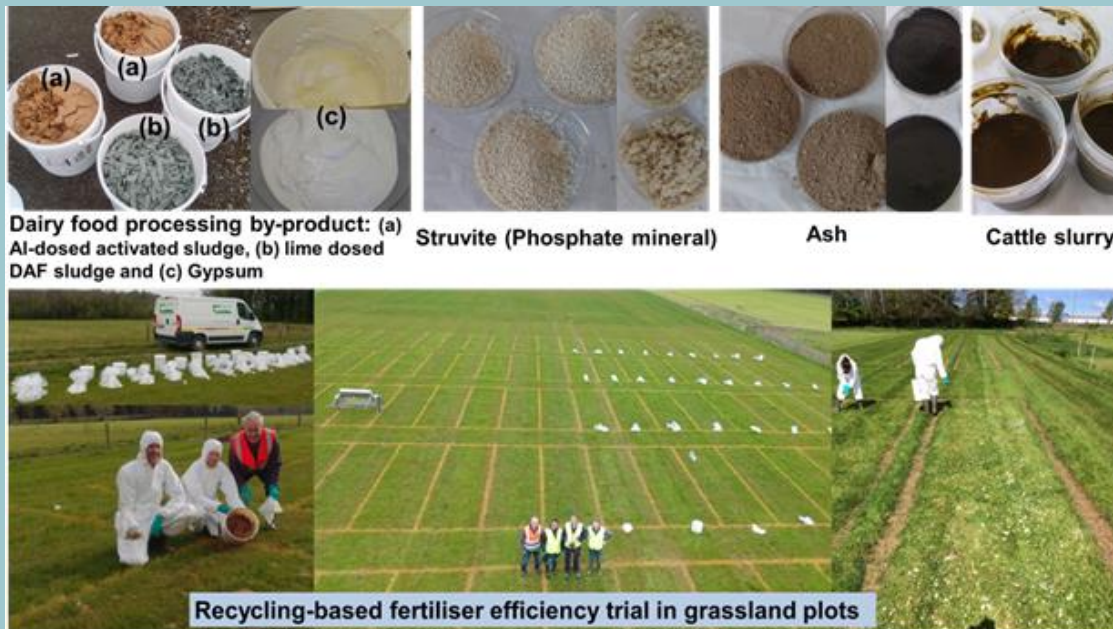
**PhD student: Joana Prado**

“The work I have been developing in my PhD has the aim of producing a bio-based fertilizer with known ratios of N-P-K, through the blending of raw or treated manures. In this specific case, the reuse of organic materials will contribute to a circular economy through the nutrients’ incorporation from manures. This is an important step to reduce the use of synthetic fertilizers, not only to reduce the carbon footprint of the manufactory of synthetic nitrogen, but also, to have a natural and renewable source of phosphorous.

Read more about Joana Prado's research [here](#)



## Crop Farmer using a variety of manure and dairy processing residues to recycle and build soil C, N, P fertility



In order to facilitate closing the nutrient cycle loop within the agro-industrial food supply chain, the Nutri2Cycle consortium partner researchers at Teagasc in Ireland are assessing the fertiliser efficiency (N, P recovery) and agronomic quality (crop yield, soil organic matter and C build up) of a number of bio-based fertilisers from agro-food processing by-products in grassland and arable land plot trials.

[Continue reading](#)

**Nutrient recycling events!**





**SYSTEMIC & ESNI | 22 & 23.04.2020**

**Brussels, Belgium**

[See details](#)

**RRB16 | 03.06.2020**

**Ghent, Belgium**

[See details](#)

**PERM - ESPP | 15.06.2020**

**Vienna, Austria**

[See details](#)



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