



# Nutri2Cycle

Transition towards a more carbon and nutrient efficient agriculture in Europe



## Newsletter - May 2023

Nutri2Cycle updates

### 3rd Nutri2Cycle Summer School in Barcelona



**3rd NUTRI2CYCLE SUMMER SCHOOL,**  
7-9 June 2023, Barcelona, Spain

The third edition of the Nutri2Cycle international summer school will take place from 7 to 9 June 2023 in Barcelona, Spain. The course will offer participants a first-hand knowledge on the needs of the farming sector. The program includes lectures on the main research lines investigated by the project as well as two workshops focused respectively on the sustainability assessment on nutrient recovery and recycling and on the emission monitoring and abatement in manure processing.

Two breakout sessions on the latest development of the legal framework and science communication will also enrich the course, providing food for thought and favoring the discussion on the current gaps in the nutrient cycle.

The preliminary agenda and the link to register are available [here](#).

Additional details on the programme will be shared soon.

### Submit your abstract!

A call for abstracts is open! Participants to the N2C summer school are invited to submit their abstract for poster presentation. More information on the abstract submission can be found [here](#).

Deadline for submission is 20 May 2023.



Nutri2Cycle updates

**Nutri2Cycle leading the workshop on policy at the European Sustainable Nutrient Initiative (ESNI)**

# ESNI CONFERENCE

September  
Brussels, Belgium

Nutri2Cycle will co-organise a workshop on the developments and outstanding issues in the legislative framework on nutrient recycling and recovery. The European Sustainable Nutrient Initiative - ESNI Conference is one of the major events on nutrient recycling, providing a comprehensive framework of the policies promoting the nutrient recycling and recovery (NRR) at European level as well as a focus on the role of EU-funded R&I projects in contributing to raise awareness on the benefits of nutrient recycling and reuse. The event will take place in September and it will be linked to the closing event of the Nutri2Cycle project.

More information will be shared soon.

[Nutri2Cycle updates](#)

**Nutri2Cycle is featured in the EC's Results Pack on Fertilisers**



European agriculture is often characterised by nutrient imbalances, in which an excess of nutrients can negatively impact the environment. “Today’s agriculture sector puts great pressure on primary nutrients and energy, which creates gaps in nitrogen, phosphorus and carbon cycles and causes environmental and economic challenges in the EU food supply,” say Erik Meers, a professor at Ghent University and project coordinator of Nutri2Cycle.

Read the entire article [here](#)

Nutri2Cycle updates

**Nutri2Cycle organised a webinar on 'best practices and barriers in nutrient efficient agriculture in Hungary, Croatia and Poland'**





On Friday 3 February, the Nutri2Cycle consortium organised a webinar on the 'Best practices and barriers in nutrient efficient agriculture in Hungary, Croatia and Poland'.

Tackling first the state-of-the-art in the implementation of bio-based circular fertilisers in Europe and the legal issues to achieve an efficient circular economy in Europe, the webinar addressed the status of energy and fertilisers market in Hungary and Poland, providing an insight on its perspective in the next future.

Best practices and possible barriers towards the transition to nutrient efficient agriculture were discussed with specific reference to Poland, Croatia and Hungary. Project partners gave an overview of the selected Nutri2Cycle lighthouse demos implemented in some of these countries to assess their technical feasibility and their transferability in other EU regions.

Did you miss the webinar? You can re-watch it [here](#)

[Nutri2Cycle updates](#)

**Nutri2Cycle invited by the European Commission to discuss food security**



On 22 November 2022, Nutri2Cycle was invited by the European Commission to join their internal workshop on food security and discuss how research and innovation can concretely contribute to face the challenges encountered at global level. Professor Erik Meers, coordinator of Nutri2Cycle, presented the overall concept of the project and how its outcomes can feed nutrient efficient agriculture in Europe and contribute to food security with decreased external inputs.

Erik Meers explained how circular bio-based fertilisers can help boosting crop productivity while reducing farming costs and environmental impact by using the right amounts of nitrogen where and when plants need it and finding ways to reduce nutrient losses to the environment.

Additionally, circularity in agriculture also contributes to the self-reliance in regards with guaranteeing food security.

Nutri2Cycle updates

**International doctorates in practice. Good experience from Nutri2Cycle**



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Nutri2Cycle

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Krystyna Malińska, prof. PCz



**„Dobre praktyki  
z Politechniki”:**

*Doktoraty „międzynarodowe”  
w praktyce*



**26 marca 2023 (niedziela)**



**godz. 9:00-10:00**



Sala Rady Dyscypliny WliŚ  
ul. Dąbrowskiego 73  
Politechnika Częstochowska



TOP MINDS

On March 25 and 26, the Częstochowa University of Technology hosted participants of the #TopMinds mentoring programme (2023 edition). During this weekend, apart from information meetings about scholarships, there was an open session titled 'Good practices from the University of technology'. During this session, Danuta Drózdź and Ania Jasińska from the faculty of infrastructure and Environment talked about their doctoral experience in cooperation with a foreign university as part of the Nutri2Cycle project.

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**Soil Health Open day organised by Teagasc**





On the 16<sup>th</sup> of March 2023, Teagasc held a 'Farming for Soil Health' open day at Johnstown Castle in Co. Wexford, Ireland. The event was organised as a means to highlight current research being undertaken within the area of agricultural soil systems, and provided information as to current best practices in managing soil systems on Irish farms. The event also aligned with the 3<sup>rd</sup> Global Soil Biodiversity Conference, which was held in Dublin, Ireland from the 13<sup>th</sup> – 15<sup>th</sup> of March.

Read more [here](#)





How do I enhance soil nutrient supply?

We caught up with Patrick Forrestal at last weeks [#FarmingforSoilHealth](#) event. He gave some great advice as to what you can do to enhance soils nutrients supply.

Watch the video to learn more

## Lighthouse demonstration in Spain



The 4th Conference of the European projects Nutri2Cycle and Circular Agronomics took place on 17 November in Vic (Catalonia), where IRTA showcased the results of the monitoring of the ammonia recovery plant, a case study of the Ammoneva project, and the obtaining of fertiliser by-products. The event was also the occasion to build up on the existing synergies with the

Circular Agronomics project, which presented its final results on the application of the fertiliser products obtained in different extensive crops and rotations.

Read more [here](#)

### Nutri2Cycle results presented to stakeholders in Hungary



On November 2022, Soltub as representative of the Hungarian National Task Force (NTF), organised an online meeting to present the results of the Hungarian and international projects and initiatives in nutrient recycling focusing mostly on the available technologies and products, which can serve in the closing of the CNP nutrient cycles and reduce the GHG emissions in the plant cropping, animal husbandry and mixed farming systems.

Read more [here](#)

### Lighthouse demo activities in Flanders



5 out of the 14 lighthouse demos of the Nutri2Cycle project are located in Flanders. In our [last newsletter](#), we already highlighted some of the lighthouse activities. This article provides an update of these activities.

Read more [here](#)

### Nutri2Cycle highlights

- [Download and share the updated Nutri2Cycle brochure](#)
- [Download and share National Task Forces brochure in 12 different EU Languages](#)
- [Check project updates on the website](#)

[Nutri2Cycle updates](#)

**PhD Students within Nutri2Cycle**





Merve Konucu is a Ph.D. candidate at Ghent University (Belgium) under the supervision of Prof. Erik Meers. She holds a M.Sc. in Biotechnology from Mersin University (Turkey). Since 2022 she has been working on the Nutri2Cycle project. Her research interest is microalgae biotechnology and her doctoral study focused on harvesting microalgae by coagulation-flocculation method and characterization of microalgal biomass.

Read more about Merve's work [here](#)

#### Recent Publications

### Read the latest publications from the project!

**Moringa oleifera Lam. as a bioflocculant for harvesting microalgae grown on agricultural wastewaters for feed production.** Applied Sciences 12, 12968. in *MDPI*  
Read the full paper [here](#)

**Black soldier fly larvae as an alternative feed source and agro-waste disposal route – A life cycle perspective.** Resources, Conservation and Recycling, 192, 106917 in *Science Direct*  
Read the full paper [here](#)

**Cycles of carbon, nitrogen and phosphorus in poultry manure management technologies – environmental aspects** in *Critical Reviews in Environmental Science and Technology* 53(8), 914-938.  
Read the full paper [here](#)

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### Nutrient recycling events!



**RRB - Renewable Resources and Biorefineries 2023 | 30 May - 02 June 2023, Riga, Latvia**  
[See details](#)

**RAMIRAN I 12-14 September 2023, Cambridge, United Kingdom**  
[See details](#)

**ESNI - European Sustainable Nutrient Initiative | September 2023, Brussels, Belgium**



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