

A banner image for the BioRefine Bulletin. It shows a hand holding a glowing lightbulb against a dark blue background. Above the lightbulb, there is a network of white dots connected by lines, resembling a molecular or data network. The text "BioRefine Bulletin" is written in white, bold, sans-serif font on the left side of the image.

BioRefine Bulletin

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Dear circular economy enthusiast,

Here we are with a new issue of our Bulletin, gathering the most relevant updates from our community!

We are happy to welcome REFLOW ETN in our network. REFLOW is an interdisciplinary cross-sectoral European Training Network combining world-leading scientists and key stakeholders in dairy processing, fertilizer production and phosphorus recycling with early stage researchers. The project addresses important technical and socio-economic challenges associated with the recovery of phosphorus from dairy processing waste water and its recycling into fertilizer products, enabling sustainable expansion of the dairy industry in Europe.

In this issue we turn our spotlight on the OLEAF4VALUE project, which aims to set up the basis of a smart value chain based on a newly developed 4.0 concept: Smart Dynamic Multi-Valorization-Route Biorefinery (SAMBIO) for the cascade valorization of the olive leaf

biomass.

Read more on project activities below!

Breaking news from our members will enrich your reading and will update you on their latest initiatives, progress and results.

And lastly do not forget to take a peek at publications and events we chose for you.

We wish you a pleasant reading!

The BCE Team

Our latest updates will be waiting for you at @Bioref_Cluster and www.biorefine.eu. See you there!

You wish to share any news with us? Get in touch! info@biorefine.eu

Biorefine Community

REFLOW joins our network!



We are happy to welcome REFLOW in our network!

REFLOW is a Marie Skłodowska-Curie Horizon 2020 project combining scientists in dairy processing, fertilizer production and phosphorus recycling with early stage researchers to address technical and socio-economic challenges associated with the recovery of phosphorus from dairy processing waste water and its recycling into fertilizer products.

Learn more on the project [here](#)

Biorefine Community

The first successful Biorefine Conference



On 30th and 31st May, the Biorefine Cluster Europe held the first edition of its Biorefine Conference 'The role of biorefineries in European agriculture', partner event of the EU Green Week 2022.

Nutrient recycling and recovery, renewable energy, water recovery and use, biomaterials & eco-design, biochemicals and value chain assessment were at the core of the event, which gathered about 100 people actively involved in circular economy.

Read more [here](#)

Project's corner

OLEAF4VALUE

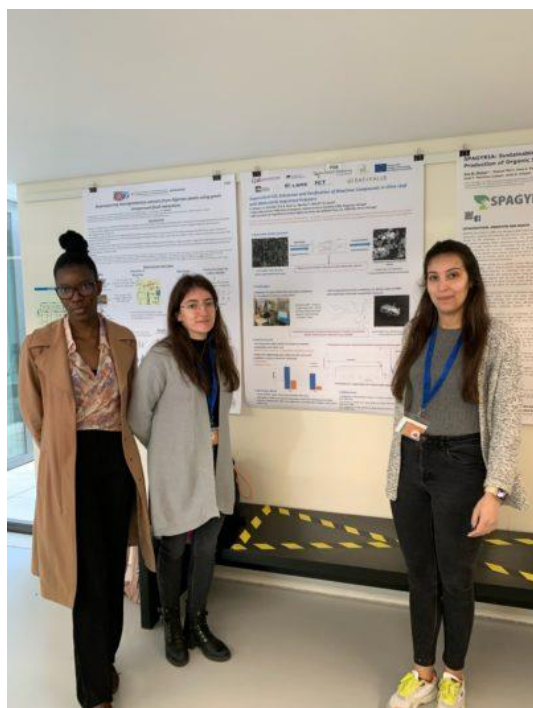


Natac is coordinating the OLEAF4VALUE project, a research and innovation action (RIA) funded by the European Union (H2020 -JTI-BBI) focused on tackling the problem generated by olive biomass through the development of a complete olive leaf upcycling system.

Read more [here](#)

The first in-person General Assembly of the OLEAF4VALUE project was held on 23-25 June. This General Assembly was held in the town of Hervás (Extremadura, Spain), where the coordinator Natac has an extraction factory equipped with the latest technology and located in a privileged natural environment, with a great agricultural tradition.

Read more [here](#)



Last March, Insituto Politécnico de Bragança attended the Second Iberian Meeting on Supercritical Fluids (EIFS), where Catarina Gomes (et al.) presented a poster for 'Supercritical CO₂ Extraction and Purification of Bioactive Compounds in Olive Leaf with Molecularly Imprinted Polymers' from the OLEAF4VALUE Project.

Read more [here](#)

Food for thoughts

Systemic - [Performance of a full-scale processing cascade that separates agricultural digestate and its nutrients for agronomic reuse](#)

Nutri2Cycle - [Selection and application of agri-environmental indicators to assess potential technologies for nutrient recovery in agriculture](#)

Project news

Nutri2Cycle co-chaired a policy roundtable at the ManuResource Conference 2022



Nutri2Cycle co-chaired a policy roundtable in collaboration with Nutrient Management Institute at the ManuREsource Conference which took place in 's-Hertogenbosch, the Netherlands, on May 12th 2022. The roundtables mainly focused on the missing links between RENURE (Recovered Nitrogen from Manure) and Fertilising Products Regulation in two parallel sessions.

Read more [here](#)

Project news

GlasPort Bio has just completed their ERA Net Smart Energy Systems (SES) & SEAI funded project PIGergy!



PIGergy was a collaborative project between GlasPort Bio (Ireland), a company who has developed an effective additive for animal manures for gaseous emission reductions and an Italian engineering company, KiRa Tech. (Italy) who bring a micro-CHP to the project.

Read more [here](#)

Project news

ReNu2Farm CAP: RDFs have potential in greenhouses



During earlier project trials, RDFs have been tested in agricultural crops and showed high potential for mineral fertiliser replacement. As quite some mineral fertiliser is used in greenhouses, they represent the second biggest market for possible RDF uptake. Therefore, as greenhouses require pure products, some of the most pure RDFs, namely ammonium nitrate from ammonia stripping and ammonium sulphate from chemical air washers, were then selected for greenhouse trials.

Read more [here](#)

Project news

Circularity may be the answer to sustainable biowaste management in cities: Murcia & Kalundborg meet to discuss best practices



The European project VALUEWASTE organised an exchange trip gathering stakeholders and policymakers of the Murcia Region in Spain to visit the biowaste collection experience carried out in the city of Kalundborg, Denmark.

Read more [here](#)

Project news

Circular Agronomics: investigating different innovative technologies to close nutrient loops



Circular Agronomics aims to reduce environmental impacts by maintaining agricultural productivity. Therefore, the project have investigated different innovative technologies to close nutrient loops, increase their efficiency in usage and reduce associated emissions. Several processes were piloted since the project's start. The next step is to extrapolate findings from the pilot-scale to existing large-scale operations.

Read more [here](#)



Nutri2Cycle - Two farms in Charente-Maritime participated in a demonstration of agronomic recycling of organic residues as substitutes for conventional fertilisers.

Upcoming events

Save the date!

international Biomass CONGRESS & EXPO

BRUSSELS | 5 - 6 JULY 2022

Bringing biomass markets closer

The International Biomass Congress & Expo 2022

05-06 July 2022, Brussels, Belgium

The International Biomass Congress & Expo aims to bring together leading producers, suppliers, regulators and other engaged organisations over a two day period. High-level speakers, experts in their field, will address a range of topical issues relating to the biomass sector.

[Continue reading](#)



Pitch Perfect and Boost the European Bioeconomy

26 September 2022, Brussels, Belgium

The 'Pitch Perfect and Boost the European Bioeconomy' event is a one day event of intense cross-border and cross-sectoral pitching, matchmaking and networking, with the aim to link industry to innovative (biobased) technologies, innovators to investors and to create new partnerships for the future and the further development of innovative, cross-border and cross-sectoral industrial value chains in the biobased economy.

[Continue reading](#)



Bio-based Scaling & Finance Forum Event

4 October 2022, Wuppertal, Germany

The event features multiple rounds of live and online sessions where key players along the bio-based industries sectors will have access to 20 prominent SMEs and 20 corporations (seeking strategic funding and partnerships for the growth and deployment of their technologies and production processes).

[Continue reading](#)

The Biorefine Cluster is supported by the European Biogas Association (EBA), a no-profit organisation which advocates for recognition of biomethane and other renewable gases as sustainable, on demand and flexible energy sources that provide multiple knock on socio-economic and environmental benefits. Learn more [here](#)



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