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Dear circular economy enthusiast,

As usual, we are back to share with you the most interesting news from our community... so let's start this journey together!

The BCE community is growing! Three new projects, Bionanopolys, HigFly and OLEAF4VALUE, joined our network to work together for a transition to a more sustainable resource management. Discover more details on these projects below!

The first edition of the Biorefine Conference 'The role of biorefineries in European agriculture' is coming soon. Do not miss the chance to meet us in Ghent to learn more on the current research innovations and promising solutions in the six main Biorefine domains related to the sustainable resource management in the framework of circular economy systems.

In this issue, we turn our spotlights on the Lex4Bio project, which aims at identifying and quantifying nutrient-rich side-streams and evaluates technologies for producing safe, efficient

and regionally targeted bio-based fertilizers in the EU. The project also provides policy recommendations for achieving a higher use efficiency of bio-based fertilizers and socioeconomic improvements for the rural population.

Breaking news from projects of our community 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

Bionanopolys, Higfly and OLEAF4VALUE join our network!



We are happy to welcome Bionanopolys, HigFly and OLEAF4VALUE in our network!

[Bionanopolys](#) aims to launch an open, innovative test bed for the design, development, testing, regulatory and environmental assessment, and upscaling of promising nano-enabled bio-based materials.

[HigFly](#) develops the next generation of technologies for the production of sustainable aviation fuel from abundant second generation feedstock.

[Oleaf4Value](#) sets up the basis of six smart

value chains based on a newly developed 4.0 concept: Smart Dynamic Multi-Valorisation-Route Biorefinery (SAMBIO) for the cascade valorisation of the olive leaf biomass according to its initial composition.

Biorefine Community

Biorefine Conference: the role of biorefineries in European agriculture



The first edition of the Biorefine Conference 'The role of biorefineries in European agriculture', will take place on 30 and 31 May in Ghent, Belgium. The Conference is aimed at highlighting the current research innovations in the six main Biorefine domains related to the sustainable resource management in the framework of circular economy systems.

Check the preliminary programme and register [here](#)

Biorefine Community

The Flemish Algae Month starts in May!



During the Flemish Algae Month Event (FAME), three consecutive events will take place focusing on different aspects of microalgal technology. On May 4th will be discussed the use of (micro)algae in the food industry (ILVO-Flanders Food), while on May 12th the focus will be on the development and upscaling of a circular economy based on microalgae (Radius, Thomas More campus Geel). Finally on May 19th the topic will be the use of agricultural and food side streams for the cultivation of microalgae (UGent-Innolab).

Interested? Discover more on the events [here](#)



ALG-AD is a Interreg NWE funded project in which new technology is being developed to take excess waste nutrients produced from anaerobic digestion of food and farm waste to cultivate algal biomass for animal feed and other products of value. In this video you can discover the pilot facility in Oostkamp, Belgium.

Project's corner

LEX4BIO - Optimising bio-based fertilisers in agriculture



LEX4BIO will identify and quantify nutrient-rich side-streams and evaluates technologies for producing safe, efficient and regionally targeted bio-based fertilizers in the EU. LEX4BIO provides policy recommendations for achieving a higher use efficiency of bio-based fertilizers and socioeconomic improvements for the rural population.

Read more [here](#)

A total of about 80 BBFs, including N- and P-fertilizers, are currently being evaluated, including agronomic efficiency, environmental safety and potential risks for food and feed safety and human health. Many of these BBFs are commercially available, but also BBFs that are still on the development phase for reaching commercialization are being included for testing. This will ensure selection of various types of BBFs with different processing technologies and their potential to produce site specific fertilizers for different climatic and soil conditions.

Read more [here](#)





Both field and greenhouse trials are being conducted across Europe, from Spain to Finland, for testing agronomic efficiency of BBFs. Currently, a second year of the field trials is about to start in spring 2022. Preliminary results have shown that great variation exists in mineral fertilizer replacement values of BBFs, but many of the BBFs are equivalent to commonly used mineral fertilizers. From the environmental point of view, characterization of BBFs and soil properties is important for minimizing N and P losses, thus also ensuring best utilization efficiency of these essential nutrients.

Read more [here](#)

Food for thoughts

Lex4Bio - [Improving the prediction of fertilizer phosphorus availability to plants with simple, but non-standardized extraction techniques](#) - Science of The Total Environment 806

ReNu2Farm - [What are the desired properties of recycling-derived fertilisers from an end-user perspective?](#) - Science Direct

Project news

F-CUBED members gathered together for the consortium meeting



F-CUBED consortium members gathered together on the 11th and 12th of April 2022 for the project's second consortium meeting in the beautiful town of Reus in the province of Tarragona, Spain where for the first time partners were all able to meet in person to discuss the project's progress. The main focus of the meeting were the results from the two pilot tests conducted on paper sludge and olive pomace, the ongoing work of the life cycle and value chain assessments and the subsequent dissemination strategy.

Read more [here](#)

Project news

An open innovation test-bed for the development of bio-based nanomaterials



A more sustainable future requires efficient measures to protect climate, to reduce greenhouse gas emissions and to save fossil resources. A lot of industries have realized this necessity and look for potential alternatives to fossil-based materials for their production processes. The complexity of development steps of these alternatives, so called biomaterials must not be underestimated. Bionanopolys aims to provide biomaterials with desired properties and accelerate market entry through efficient support services. For this purpose, 14 pilot plants are available for different tests, which are complemented by a broad variety of

services.

Read more [here](#)

Project news

ReNu2Farm CAP launches a survey for the recreational sector and private users



The ReNu2Farm CAP consortium developed a survey for the recreational sector and the private users to better understand the knowledge gaps that are hampering the RDFs market uptake.

Are you working in the recreational sector? or do you know people from the sector?

Support us and participate in our survey, or forward it to people that could be interested, to help us investigating the existing barriers for use of recycled nutrients and identifying the needs of the targeted sectors.

Read more [here](#)

Project news

HIGFLY Solvent Selection and Quantum Chemistry



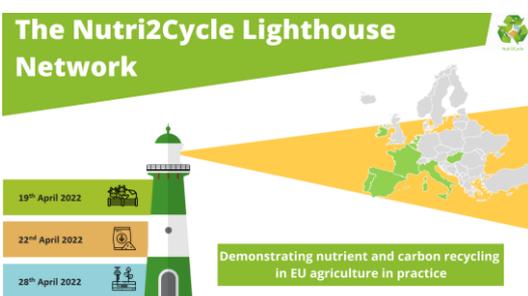
One of the HIGFLY project's main objectives is to reduce the energy consumption of sustainable aviation fuel production by targeting unit operations throughout the process ranging from more efficient reactor technologies and catalysts to designer solvents and

membranes. Furthermore, the aim is for a more circular process using solvents of natural origin, specifically, combinations of natural compounds called deep eutectic solvents (DES).

Read more [here](#)

Project news

Nutri2Cycle hosted its webinar series on the Lighthouse Network



Yesterday, the Nutri2Cycle project closed its webinar series dedicated to the 'Lighthouse Network'. The series was aimed at presenting the lighthouse prototypes of nutrient management approaches and innovation. During the webinars, the lighthouse demos demonstrated the research outcomes at relevant pilot, field, farm scale in order to assess the technical feasibility of the proposed solutions and favor their transferability across the EU regions.

If you missed this event, do not worry! You can re-watch it [here](#)!

Project news

Citizens visit the VALUEWASTE Pilot Plant in Murcia, Spain



The Murcia City Council, as part of the second communication campaign of the project in Murcia (Spain) and Kalundborg (Denmark), recently organised a series of visits to the VALUEWASTE Pilot Plant in Cañada Hermosa, Murcia (Spain).

Read more [here](#)

Project news

Updates from the Run4Life project



With the final workshop at the end of November 2021 and the final review meeting in February 2022 the Run4Life project has officially come to an end. Of course the consortium is still actively sharing the project results.

Read more [here](#)

Project news

GlasPort Bio has had recent successes in both awards and research funding!



Irish Times Innovation Award – Sustainability category winner: GlasPort Bio's innovative technology, GasAbate, which tackles agricultural emissions at source, was awarded the prestigious Irish Times Innovation Award for Sustainability in March 2022.

Read more [here](#)

Upcoming events

Save the date!



EUBCE 2022

9-12 May 2022, Marseille & Online, France

EUBCE is the largest biomass conference and exhibition in the world.

Each year, EUBCE brings together the greatest minds and latest advancements in biomass, with the aim of accelerating research and market uptake across the globe. During the conference, over 2,000 experts from both academia and industry share and discuss groundbreaking ideas, technologies, applications, and solutions for the sourcing, production, and utility of biomass.

[Continue reading](#)



ManuREsource 2021

11-13 May 2022, 's Hertogenbosch, The Netherlands

ManuREsource is an international conference stimulating the exchange of experiences between regions on the policy measures taken for coping with manure surpluses, both in terms of manure management in a broad sense, and more specifically in terms of manure treatment.



[Continue reading](#)

ESPC4 & PERM5 (Phosphorus in Europe Research Meeting)

20-22 June 2022, Vienna & Online,

Austria

The European Sustainable Phosphorus Conferences are unique events bringing together companies, stakeholders, regional and national authorities, innovation and researchers, to discuss phosphorus and nutrients sustainability actions and policies. This fourth conference ESPC4 follows from the previous three successful ESPC conferences.

[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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