

News on biobased resource recovery

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Dear circular economy enthusiast,

As for every month, we are back with a new issue of our Bulletin to share the most relevant updates from our network!

The Biorefine Community keeps growing! This month we are happy to welcome two new Horizon Europe projects: Novafert and Nutribudget.

Novafert aims to demonstrate the technical, economic, environmental feasibility and safe use of a wide portfolio of alternative fertilising products to enhance their market uptake and favor the replacement of synthetic and mineral fertilisers. Nutribudget will develop a prototype of an integrated nutrient management platform to optimize nutrient use across different agricultural production systems in Europe.

Check below to learn more on these two interesting projects!

In this issue we also turn our spotlight on the Ecofunco project. After 39 months of research, Ecofunco reached its end and it is now ready to present its final results in bio-based coatings! Discover more on the project in the section below!

As usual, 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

Novafert and Nutribudget join our network!



We are happy to welcome two new Horizon Europe projects in our network!

[Novafert](#) aims to demonstrate the technical, economic, environmental feasibility and safe use of a wide portfolio of alternative fertilising products to enhance their market uptake and facilitate the replacement of synthetic and mineral fertilisers.

[Nutribudget](#) will develop the prototype of a first-of-its-kind integrated nutrient management platform, called Nutriplatform, which will contribute to optimize nutrient management across different agricultural production systems and regions in the EU.

Project's corner

Ecofunco - ECO sustainable multi FUNctional biobased COATings with enhanced performance and end of life options



After 39 months of research, the ECOFUNCO consortium is ready to show some of the final results obtained thanks to BBI JU, BIC and Horizon 2020 funding. 17 research and industrial partners from 8 countries worked together to achieve significant results in bio-based coatings.

Check the video and read more [here](#)



Currently, multi-layers of cellulose or plastics combined with PET, EVOH and PE are widely present in the market and are hard to recycle. ECOFUNCO addresses the challenge of substituting the petro-based version of these products with biodegradable coatings of cellulose or bioplastics based on biomolecules, biopolymers and functional materials coming from agri-food waste streams.



The research on biopolymers showed that obtaining biodegradable coatings comparable to fossil-based ones was possible thanks to the collaboration between partners. Different institutions shared their discoveries to achieve the best solutions. Discover more [here](#)



The processes and materials developed in the project are not meant to stay in the project. During the 3 years, partners have been keen on disseminating their results. They have participated in more than 70 events, published 12 open access articles and shared their knowledge in one workshop and one scientific conference.

Food for thoughts

CircularAgronomics - [Environmental Policy Analysis](#)

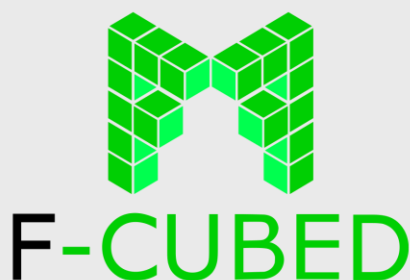
Lex4Bio - [Review and assessment of published Life Cycle Assessment studies on bio-based fertilisers](#)

Prolific - [Ultrasound and Microwave-assisted Extraction of Proteins from Coffee Green Beans: Effects of Process Variables on the Protein Integrity](#)

Nutri2Cycle - [Halving nitrogen waste in the European Union food systems requires both dietary shifts and farm level actions](#)

Project news

F-Cubed at the Circular Materials Conference



F-CUBED project partner Swerim AB presented their research findings from Work Package 2 “Paper Sludge Treatment” at the Circular Materials Conference held in Skellefteå, Sweden on the 14th and 15th September 2022. The conference is the leading Nordic forum concerning the industrial, scientific and commercial progress of the use of circular materials.

Read more [here](#)

Project news

HIGFLY Feedstock Selection: Is Miscanthus one solution to the energy crop indirect land-use change debate?



HIGFLY researchers are aiming to make their technologies flexible enough to efficiently process a variety of feedstocks to mitigate any potential supply chain issues and ensure that the technologies remain relevant in the face of changing agricultural, biological residue and biorefinery landscapes.

Read more [here](#)

Project news

Prolific final event: Value chains from agro-industrial side-streams



Join the final PROLIFIC dissemination event where the project will highlight the most promising exploitation routes for extracts from legumes, coffee residues and fungi. Prolific will put its findings into the wider context of circular bio-based economies and in particular the potential for regions in Italy. Success stories from other projects and initiatives will trigger discussion on next steps and supportive actions.

Read more [here](#)

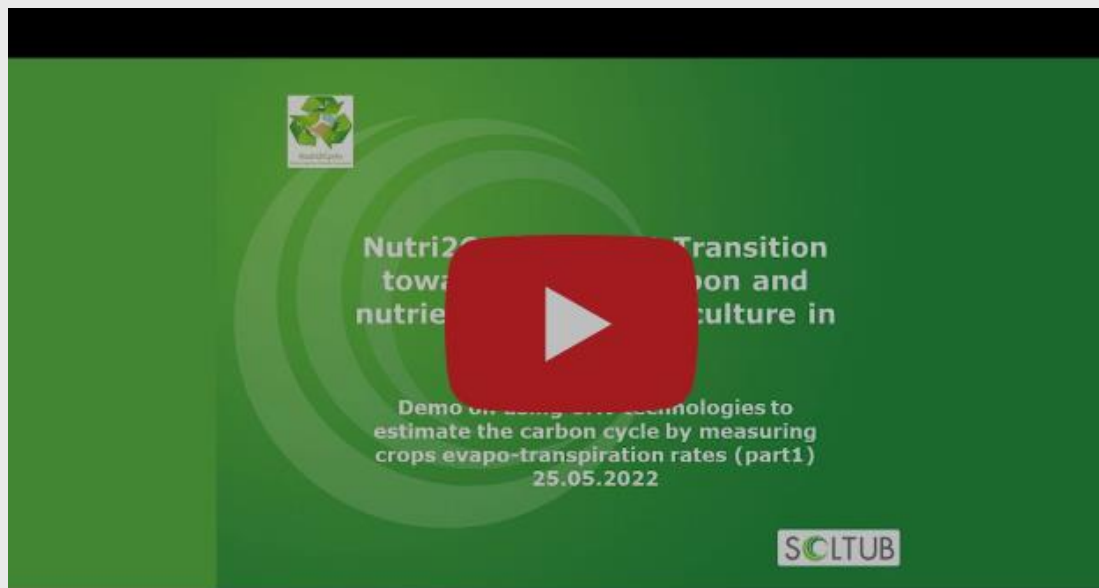
Project news

ECOVAL gets to know the facilities of SOGAMA, the largest urban waste manager in Galicia



Several ECOVAL partners visited the most important facilities of the Galician Environmental Society (SOGAMA), in Santiago de Compostela and Cerceda. SOGAMA is a regional public company at the service of Galicia's environmental policy in the area of urban waste management and treatment. It is based on the prioritisation of waste prevention, reduction, preparation for reuse, recycling and recovery.

Read more [here](#)



Nutri2Cycle - The utilisation of the variable rate of fertiliser (VRF) application is almost an every day practice in the precision farming. VRF improves the nutrient use efficiencies and maintain the reasonable yield levels. Drones utilisation can help farmers in the optimisation of their costs and benefits. As there is a strong relationship between gross primary production (GPP) and evapotranspiration (ET) and the latter one can be spatially modelled using energy balance models, the drone field maps can be used for the VRF.

Upcoming events

Save the date!



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).



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The EU Bioeconomy Conference - Enabling the European Green Deal in Challenging Times

06-07 October 2022, Brussels, Belgium

The conference will present the findings of the [EU Bioeconomy Strategy Progress Report](#), adopted in June 2022, and highlight the role of bioeconomy policy in enhancing policy coherence and system thinking. A series of bioeconomy success stories from EU research and innovation will be presented, alongside evidence of the successful implementation of the EU Bioeconomy Strategy.

[Continue reading](#)



Natural Fibertastic

13 October 2022, Bergen op Zoom, Netherlands

Natural fibres are becoming an increasingly important feedstock for new materials in the global transition. Together with circular materials and concepts, bio-based materials are part of the solution to climate change and resource scarcity. Circular and bio-based solutions ensure that fewer fossil raw materials need to be extracted.

During Natural Fibertastic 2022, you will be taken through the entire chain from bio-based raw materials to applications in the construction, infrastructure and packaging sector. And from technical innovations to social innovations.

[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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