News on biobased resource recovery

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Dear circular economy enthusiast,

Before April ends, here we are again with a new issue of our Bulletin gathering all the most inspiring news from the circular economy world.
Our community is growing and we are happy to welcoming RECOVER, a BBI-JU project scaling up an innovative biotech solution for the non-recyclable plastic packaging and agricultural films waste streams.

This time, our Bulletin will offer you an insight on one of our project members, Pro-Enrich. You will be reading how the project is developing a flexible biorefinery approach able to processing a range of agricultural residues from rapeseed meal, olives, tomatoes and citrus fruit industries.
Along with that, we also gathered for you some of the most interesting events from our community, which tackle different aspects of circular economy.

As usual, latest news and updates from projects of our network will enrich your reading and will offer you highlights on their developments and obtained results.

And to make your reading even more interesting, do not forget to take a peek at the publications and the upcoming 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

Circular economy

The BCE community is growing!

The Biorefine Cluster is happy to welcoming RECOVER in its network! RECOVER develops processes for the bioremediation of plastics pollution in soils and compost and the biotransformation of conventional plastics into bio-fertilizers and biodegradable plastics for agricultural and food packaging applications.

Discover more on the project here!

Project's corner

A focus on Pro-Enrich

The Pro-Enrich project is an EU funded BBI-JU project (GA792050) active since May 2018. During this time, its 16 partners have been working to develop novel functional proteins and bioactive ingredients from rapeseed, olive, tomato, and citrus fruit side streams, which will have applications in food, cosmetics, pet food and adhesives.

Read more here

Pro-Enrich is working in the biorefining process of rapeseed. So far, the Danish Technological Institute (DTI, Denmark) - the project coordinator- and Bangor University (BU, UK) have developed processes for biorefining hot and cold pressed rapeseed press cake from Emmelev Mill (Denmark) into protein concentrate and isolate at lab and in the pilot scale facility at DTI in collaboration with enzyme experts from Tailorzyme (Denmark) and processing experts from GEA.

Read more here

DTI and BU are testing different pre-treatment and extraction methodologies to extract phenolic compounds as well as dietary fibres from olive pomace and olive mill wastewater. The products are identified by InnoRenew CoE (Slovenia) - independent research institute focused on renewable materials and sustainable buildings and tested and evaluated for industrial purposes by Natac (Spain) -developer and producer of innovative and distinctive natural extracts.

Read more here

Pro-Enrich is developing novel functional proteins and bioactive ingredients from tomato pulp and juice. Anecoop – The Mediterranean's leading fruit and vegetable producer- has supplied whole fruit to the project, and BU has developed a method for separating the seeds from the pulp and juice. Later on, Natac has analysed and biorefined at lab scale carotenoids and polyphenols (known for their antioxidant properties).

Read more here

Project news

Enabling a Circular Economy: How to encourage a viable agricultural market for nutrients recovered from biowaste

Experience from the H2020 SYSTEMIC project has shown that the major barrier to the uptake of nutrient recovery and reuse (NRR) is the lack of a market for the recovered products, thereby hindering the financial viability of nutrient recovery and reuse in Europe. In this workshop, SYSTEMIC aims to bring together experts and practitioners in the field of nutrient recovery and reuse with policy makers to discuss what else needs to be done to create an enabling policy framework for the advancement of NRR in Europe.

Read more here

Project news

Renu2Farm published two reports on the production of RDFs

The Interreg North-West Europe (NWE) project ReNu2Farm, recently published two reports under the 'WP1 Production and logistics of Recycling-derived fertilisers (RDFs)'. The first one, titled *Implementing Nutrient Recovery from Manure/Digestate*, offers an overview of production of RDFs and implementation of the market available nutrient recovery technologies. The second, *Book of Success Stories*, provides an overview of the practical experience and testimonials from

businesses actively adopting recovery technology.

Read more here

Project news

RECOVER: The Future of Agri-food Waste Plastics Treatment

RECOVER is built upon the needs to solve the contamination of agro-fields with non-biodegradable agro-plastics, improving the municipal waste handling by decreasing the packaging fraction going to unsustainable waste management routes.

RECOVER is finalizing the process of Agri-food waste-plastics (AWP) mapping, characterization, collection strategy and pre-treatment.
A complete collection of samples (>30) was analysed in order to identify the main variables that are expected to affect the biodegradation capacities. Subsequently, 4 types of most representative fossil plastics have been selected with the purpose to normalize samples for all the Work Packages.

Read more here

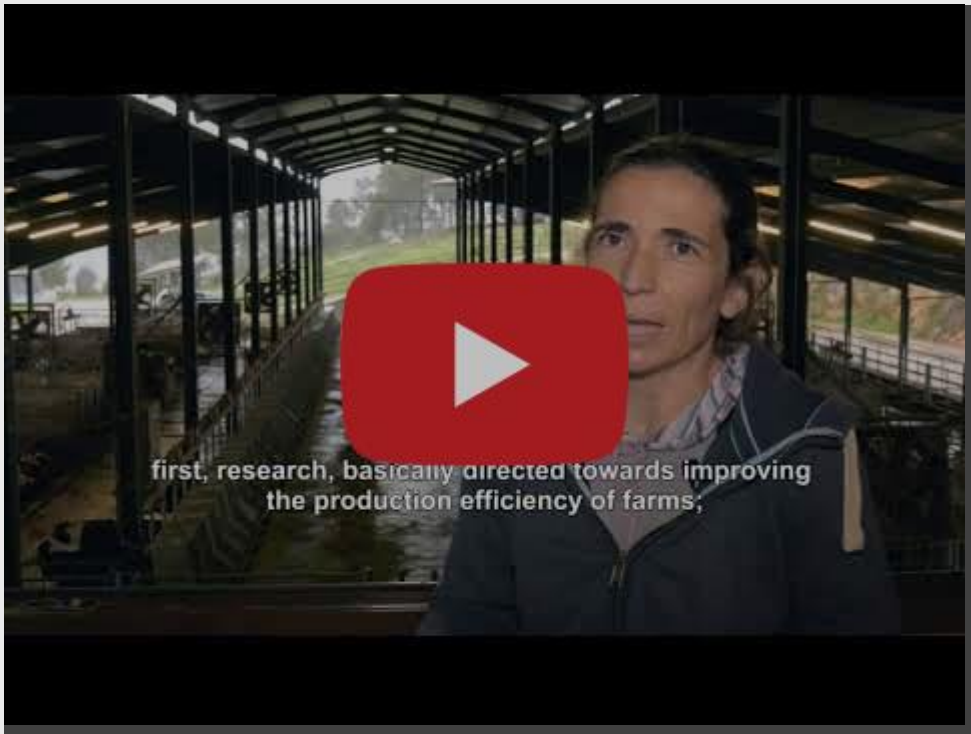
Project news

Phos4You final conference. Registration is now open!

The European project "Phos4You" has investigated different technologies and pathways to recover and recycle phosphorus from wastewater, sewage sludge and sewage sludge ashes. Twelve partners from seven countries in the EU and Switzerland have joined forces for the Interreg VB North-West Europe project under the lead of the German water board Lippeverband.

Now the Phos4You partnership proudly presents and discusses the main project's results at its final conference on 22 and 23 September 2021 in Essen, Germany and online.

Read more on the event here



Circular Agronomics - Embark on a virtual tour of EVAM, IRTA's cattle station in Monells (Catalonia) and learn about experiments conducted there for Case Study 1!

Food for thought..

AgriWasteValue project - Synthesis of Biobased Phloretin Analogues: An Access to Antioxidant and Anti-Tyrosinase Compounds for Cosmetic Applications

Nutri2Cycle project - Protocol for the mapping, analysis and benchmarking of CNP flows and their stoichiometry in farming systems

Upcoming events

Save the date!

RAMIRAN 2021

20-23 September 2021, Cambridge, United Kingdom

RAMIRAN "Recycling of Agricultural, Municipal and Industrial Residues in Agriculture Network" is a research and expertise network set up over 25 years ago to improve nutrient utilisation and minimise the environmental impact from livestock manure and other organic material use in agricultural systems.

Continue reading

Nature Conference - Waste Management and Valorisation for a Sustainable Future

26-28 October 2021, Korea University, Seoul, South Korea

The development of sustainable waste management strategies has become a major concern throughout the world. This conference focuses on “recycling” and “recovery” of waste material while paving the way towards circular economy, land reclamation, and water and wastewater treatments.
Local and overseas experts from different sectors including academic researchers,

industrial
practitioners, green groups, and government departments will be gathered in this program.

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ManuResource 2021

24-25 November 2021, 's Hertogenbosch (NL)

Circular agriculture with low emissions and nutrient recovery from manure is high on the European Union agenda. ManuREsource is an international triple-helix conference for scientists, policy makers, consultants, farmers and professionals on the theme of manure management. The conference aims to accelerate the transition towards a circular economy by exchanging experiences and knowledge with concerned international stakeholders and policy makers

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

EBA European Biogas Association