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CLOSECYCLE

Interreg
North Sea



Co-funded by
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news

The Interreg North Sea project CLOSECYCLE is entering the second project year. Last year the 16 showcases started. And the Territorial Biorefinery Networks, the local networks around the showcases, were started. Local residual waste streams are upgraded to useful end products. Attention is also paid to substantial products such as compost, fertilizers, polyphenols and energy products like bio methane and heat. Within the CLOSECYCLE consortium a number of partners are strong in carrying out a broad spectrum of analyses. The University of Hamburg, the Technical University of Hamburg, ILVO (The Institute for Agriculture, fishery and food research), Aarhus University and INRAE (the French National Research Institute for Agriculture, Food and Environment) have extensive experience in analyzing waste streams and products. The information is key for the practical trials and cooperation within the networks, to know exactly what kind of inputs are used and how to characterize the outputs. This newsletter offers an insight in the different kind of analyses. We also show you two showcases. For more showcases, please take a look at:

<https://www.interregnorthsea.eu/closecycle/pilots>.



From foodwaste to biogas

The Technical University of Hamburg and Zinnwerke e.V. are working together in the demonstration micro biogas plant in Wilhelmsburg. Input for the proces is the food waste from school kantines. At the annual event in November, a nice meal was prepared. Using the biogas from the plant. Students were enjoying their meal. And the proces was explained. An excellent combination of raising awareness and enjoying a meal! [Read more here.](#)



Straw from nature reserves

The Belgium partner Natuurpunt is a volunteer organisation. They combine education and landscape management. In the CLOSECYCLE project, Natuurpunt and ILVO, are active in four showcases. In the four nature areas, the organic waste streams (such as meadow cuttings) are characterized. The local networks focus on the transport, infrastructure and processing of the different bioresource streams. Important aspect of the showcases is to bring the involved people together. And to upgrade and use the bioresources within the frames of legislation. [Read more here.](#)





Advantages of products

CLOSECYCLE is about the development of local Territorial Biorefinery Networks, in which the use and upgrading of local organic waste streams to useful biorefinery products is the main objective. In the showcases and Work package 4, also the effects and advantages of using these biorefinery products are being investigated. The CLOSECYCLE project will line up the following aspects:

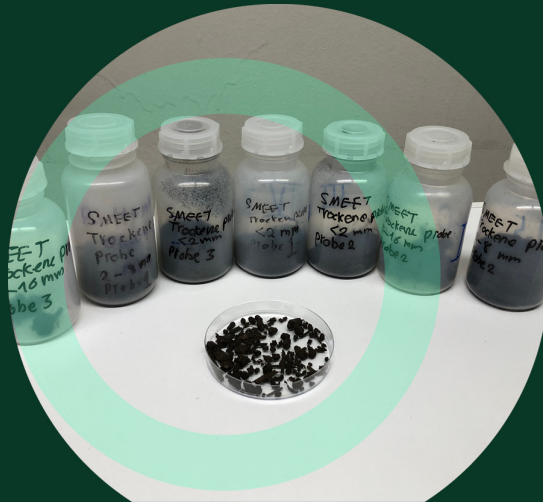
- Use in plant-soil systems and in other sectors of consumer products;
- Socio-economic benefits, concerning for example climate change, biodiversity, nitrogen issues, as well as legal, socio-economic barriers to their use.
- Environmental advantages.
- Experiences with and setting up of Territorial Biorefinery Networks. Good working local Biorefinery Networks are key for the infrastructure and processing of the organic waste streams. As well as for the use and application of the biorefinery end products.

On the website we will update you about the progress! [Read more here.](#)

Broad spectrum of analyses

Within CLOSECYCLE, potential organic waste streams are defined. In the 16 showcases, spread over the participating countries, different interesting waste streams will be used: biobin waste streams, organic green material, leaves, material from nature reserves, mud from channels and ditches, apple pomace. Characterization of the input and output is key, from a processing and application point of view. Together, the partners of the consortium, are able to carry out an extensive range of analyses to characterize the organic waste streams and output streams.

[Read more here.](#)



Save the date PopUp talk

January 22th 2025, 2.00-4.00 pm, online **Challenges of wood fibre application in plant substrates as a peat substitute**

Fokko Schütt and Jörn Appelt from the Thünen Institute of wood research will report about the project "HoFaTo" which aims to increase the possible amount of wood fibers in plant substrates. And at broadening the possible raw material base for the wood fiber production.

[More about the PopUp talk](#)

Save the date PopUp talk

February 6th 2025, 2.30-4.30 pm, online **Boosting Soil Health by enhancement of Aggregate Stability through Compost Extract**

Organic waste streams and especially compost have positive effects on soils. In this PopUp Talk, the enhancement of soil aggregates by using compost is explained. In the project of the Hamburg Open Online University, 'Back to the Roots', different measures from regenerative agriculture are explained to farmers to improve the fertility of

their soils. In this PopUp Talk Jana Rose takes us into the project.

[More about the PopUp talk](#)

efficient

use of
regional
residue

digital

package to improve local
bioresource management

building

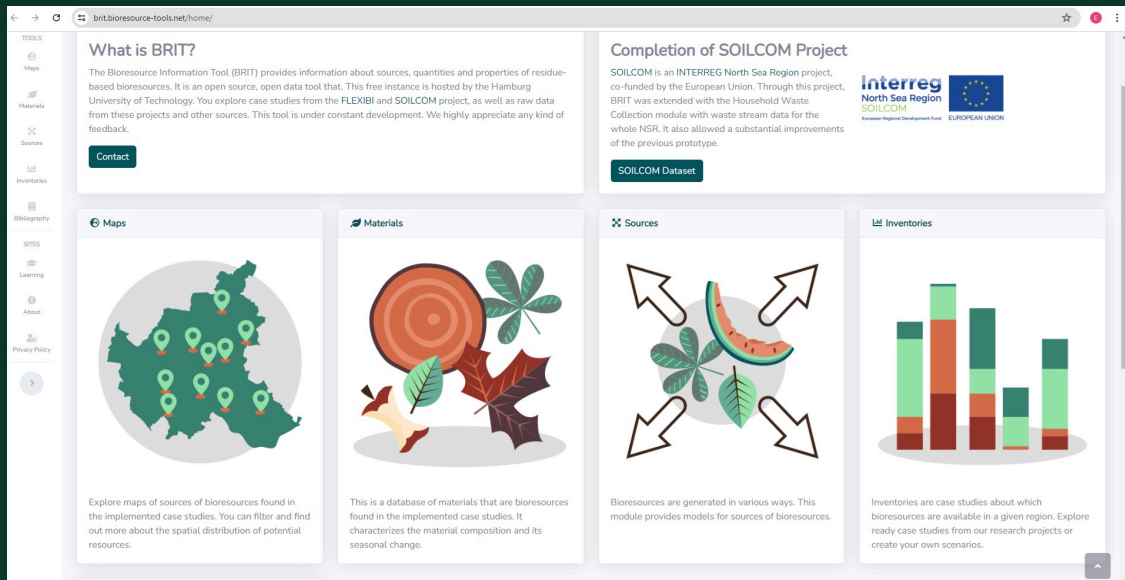
networks and
demonstrate use cycles
with local value creation



a more efficient
use of residual
rural and urban
bioresources

Digital tools
data driven

CLOSECYCLE improves digitalisation by providing a digital package for use in bioresource management. It promotes digital access to information across multiple process and supply chains, resulting in more efficient use of knowledge by regional stakeholders. In the project user-friendly digital tools are developed for managing bioresource flows and simplifying assessments, as well as for planning, establishing and managing Territorial Biorefinery Networks (TBNs). It contains for example open data from science for use by practitioners. Integrating and combining different types of data (e.g. cadastral, statistical, modelling data, specific bioresource information) in a database tailored to specific users. And improving data flows between different digital tools and making them compatible to enable widespread use. For the specific BRIT tool, please click on the picture.



Next years you will hear more about CLOSECYCLE! Interested in the project and its results? Than please subscribe for the newsletter. Don't want to receive the newsletter? Then please let us know.

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