

The WaysTUP! project Transforming urban waste into valuable products

PERSEO solution for OFMSW and Celulosic waste valorisation from WaysTUP!

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Development and Engineering of Biotechnological Processes for Waste Valorization.

Development of Biotechnological Waste Valorization Processes, producing added value products, **from laboratory scale to industrial implementation.**

- Laboratories.
- Semi-industrial Demo Plant of 25 t/d capacity.
- Process engineering and development of industrial projects with own patents.
- W Highly qualified multidisciplinary team.
- More than 15 years of experience in development and scaling of biotechnological processes from waste.



BIOREFINERY FROM WASTE since 2007

TRANSFORM ORGANIC WASTE into Advanced Fuels, Bioproducts and Bioenergy

























Laboratory optimization







Process design and industrial plant







WaysTUP!

The overall objective of WaysTUP! is to demonstrate the establishment of new value chains for urban biowaste utilisation for the production of higher value purpose products (i.e. biobased products, including food and feed ingredients), through a multi-stakeholder approach in line with circular economy.



Pilots' overview



Pilot 6

Pilot 6: PERSEO BIOETHANOL®

Biothanol from cellulosic rejections streams of MWTP and WWTP

 Adapt the PERSEO Tecnology to produce second-generation bioethanol from the organic fraction of MSW (PERSEO Bioethanol®).

Objectives

- Succeed in circular bioethanol production from wastes.
- Ethanol will be further processed to produce ethyl lactate via a reactive distillation.











Pilot 6: PERSEO BIOETHANOL®

WWTP wipes



Paper & cardboard

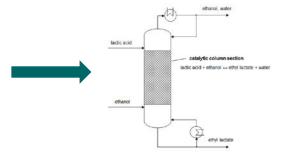


Sanitary textiles



Bioethanol





Ethyl lactate

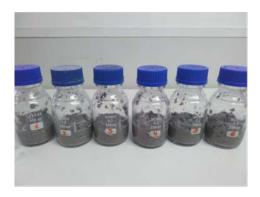






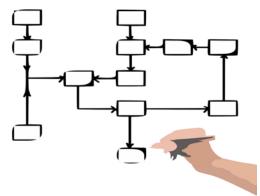
Pilot 6: PERSEO BIOETHANOL®

✓ Process optimization Laboratory Scale





✓ Process definition and improvements





✓ Pilot plant start the DEMO activitiy.









Thank you for your attention!



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