Partnership

Bio Base Europ

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The **LUCRA** consortium is a collaborative effort comprising ten project partners, each bringing their unique expertise to the table. This diverse group includes prominent industrial players, esteemed research institutions, and key demonstration sites from various European countries. Guided by the leadership of Bio Base Europe Pilot Plant, Belgium, the consortium is dedicated to pioneering innovative solutions that transform organic waste into bio-succinic acid, driving sustainability and circular bioeconomy.



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Bio based Industries Consortium

Co-funded by

The project is supported by the Circular Bio-based Europe Joint Undertaking and its members.

This work was also co-funded by UK Research and Innovation (UKRI) under the UK government's HorizonEurope funding guarantee grant number 10082169.

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CBE JU. Neither the European Union nor the CBE JU can be held responsible for them.



UK Research and Innovation

SustainabLe sUCcinic acid production using an integRAted electrochemical bioreactor and renewable feedstock

ABOUT LUCRA

The EU project **LUCRA** is dedicated to reshaping the production of succinic acid. Funded by the Circular Bio-based Europe Joint Undertaking (CBE JU)

At its core, LUCRA is focused on one fundamental goal: demonstrating the technical and economic feasibility of turning organic waste into biosuccinic acid on a pre-industrial scale. This versatile building block holds the key to biobased innovation across a multitude of industries, including packaging, personal care, food & beverage, textiles, agriculture, and automotive.

Driven by cutting-edge thermal and enzymatic technologies, innovative fermentation processes, and revolutionary electrochemical methods, LUCRA, is forging a path toward a sustainable, resource-efficient, and circular bioeconomy. It's a journey that promises economic feasibility and a brighter, more eco-friendly future.

RGANIC MUNICIPAL SOLID WASTE &



 07/2023 −

 06/2027

CBE JU contribution: **4.682.743,25 €**

OBJECTIVES

LUCRA tackles the challenge of finding sustainable alternatives to fossil-based building blocks. As the demand for bio-based chemicals soars across industries, this project offers a pathway to reduce dependence on conventional chemicals derived from depleting petroleum sources.

O Use of organic municipal solid waste and wood side stream as feedstocks

alternative to fossil-based resources

O Demonstrating the large-scale production of bio-based succinic acid

o Creation of new jobs, business models, training, social acceptance

Production of bio-based succinic acid and impleo mentation of a synergistic treatment of relevant waste and side streams as key alternative. Products/ Applications: polyurethane dispersions and powder coating resins

Reduced waste, valorisation of side streams, lower environmental impact, providing a sustainable

IN SHORT

