

## Combining carboxylic acid production and fibre recovery as an innovative, cost effective and sustainable pre-treatment

GOAL

**CAFIPLA** develops an integrated pre-treatment process to convert **heterogeneous organic waste** to building blocks for the biobased economy. This will be achieved by linking a **Carboxylic Acid Platform** (CAP) with a **Fibre Recovery Platform** (FRP).

## **OBJECTIVES**

- 5 Biorefinery concepts are demonstrated
  - 1 Demonstration plant at TRL5

The Carboxylic Acid Platform (CAP)

will be optimized...

1. ... to steer the hydrolysis process to

create a specific carboxylic acid

spectrum depending on the target

2. ... to obtain a constant output quality/

spectrum from fluctuating input.

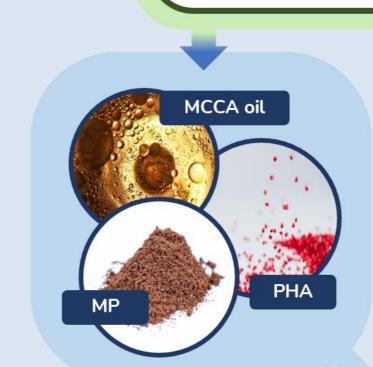
application in the bio-based economy

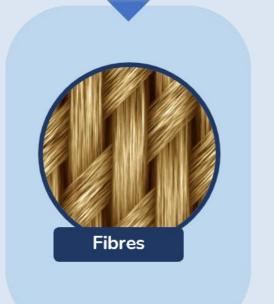
1 Public non-profit waste treatment facility

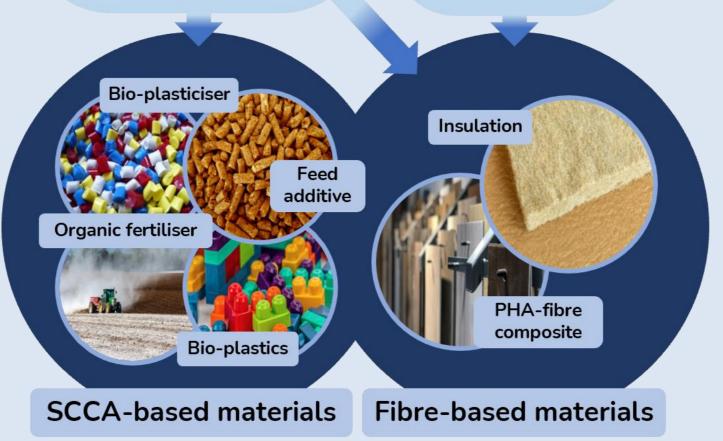












## PROJECT

- 5 Mio. € Volume
  - 6 Industry Partners
- 6 Research Institutes



36 Months

GA Meeting May 2022 in Vitoria-Gasteiz, Spain

The Fibre Recovery Platform (FRP) development focusses on...

- 1. ... the implementation of an environmentally friendly process for insoluble fibre extraction using deep eutectic solvents and
- 2. ...the provision of fibres for different applications considering differences in feedstock / biomass supply

The "LOOP"

and/or

Arrival of the "Loop" pilot reactor at IDELUX in Tenneville, Belgium. Implementation is currently ongoing, including insulation of the Loop, attaching of the conveyor belt to feed the chimney, electricity supply and the first test runs of the pilot reactor with water and then biowaste.





























**Project Coordination** 

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