



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



Project introduction

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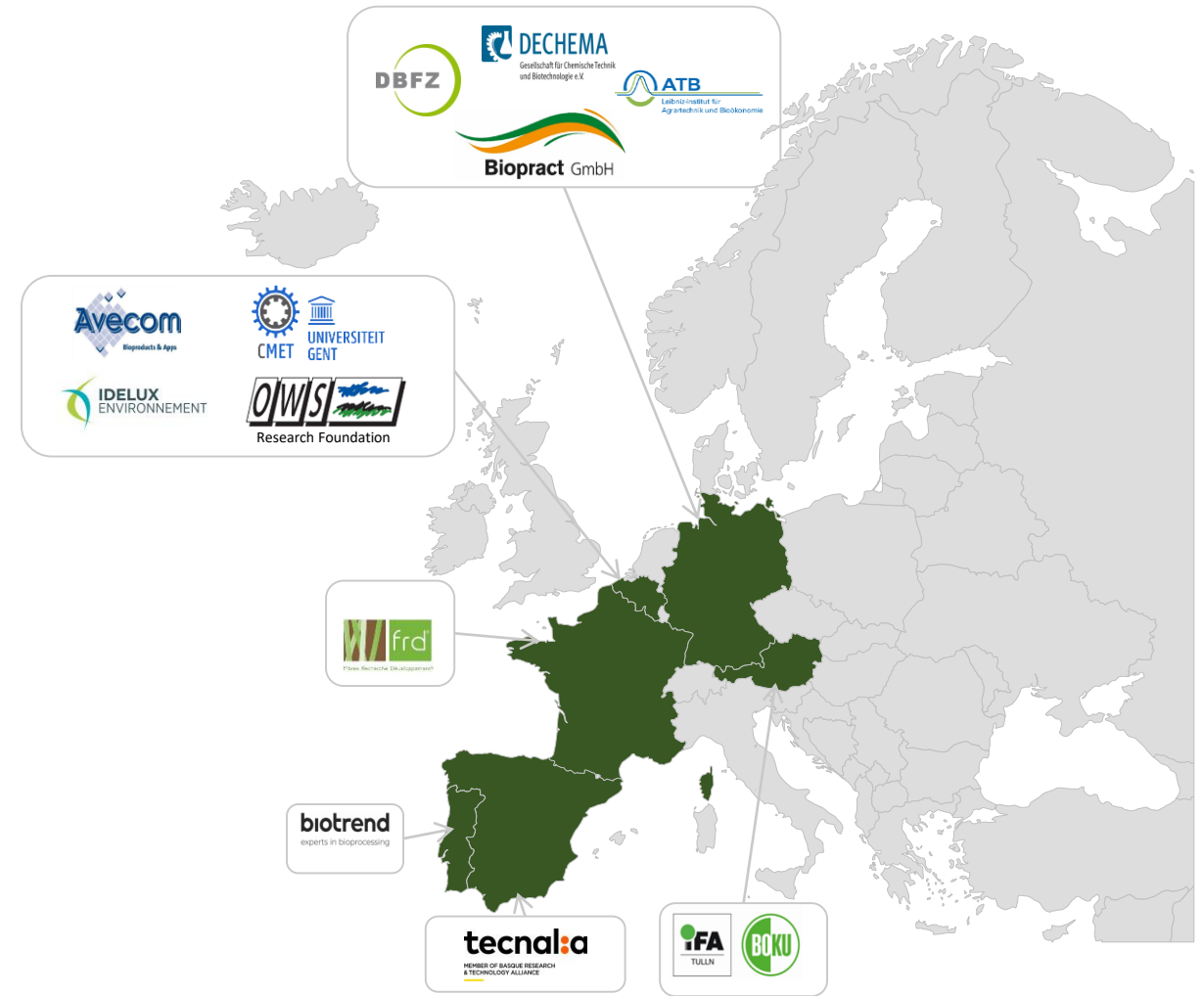
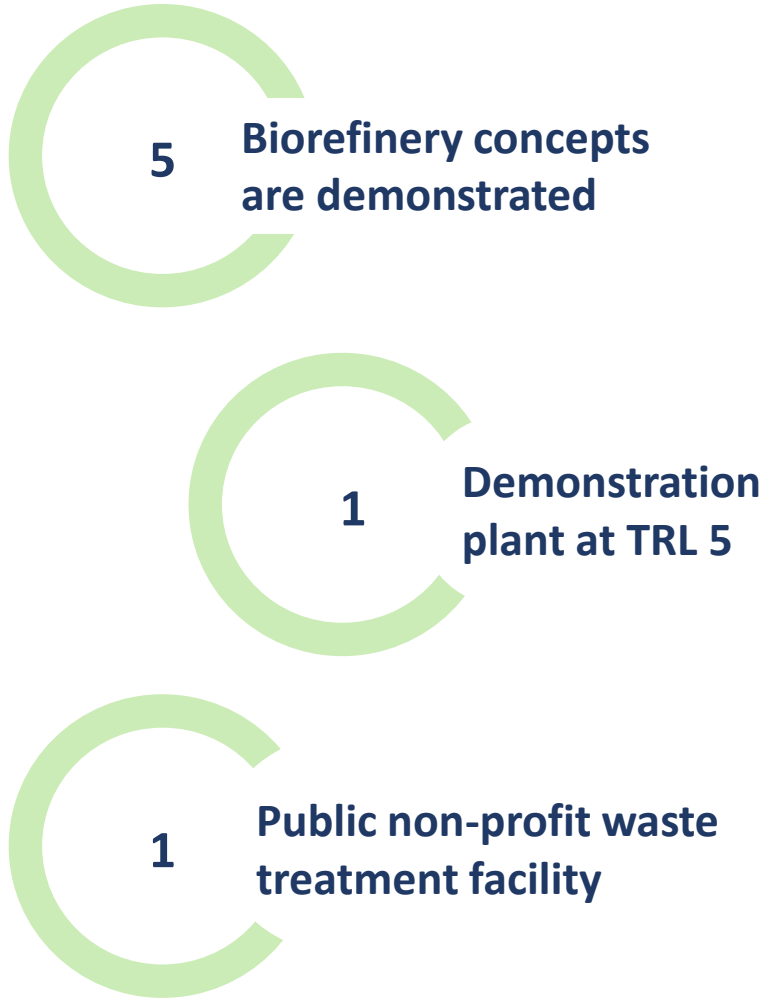
This project has received funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 887115. The JU receives support from the European Union's Horizon 2020 research and



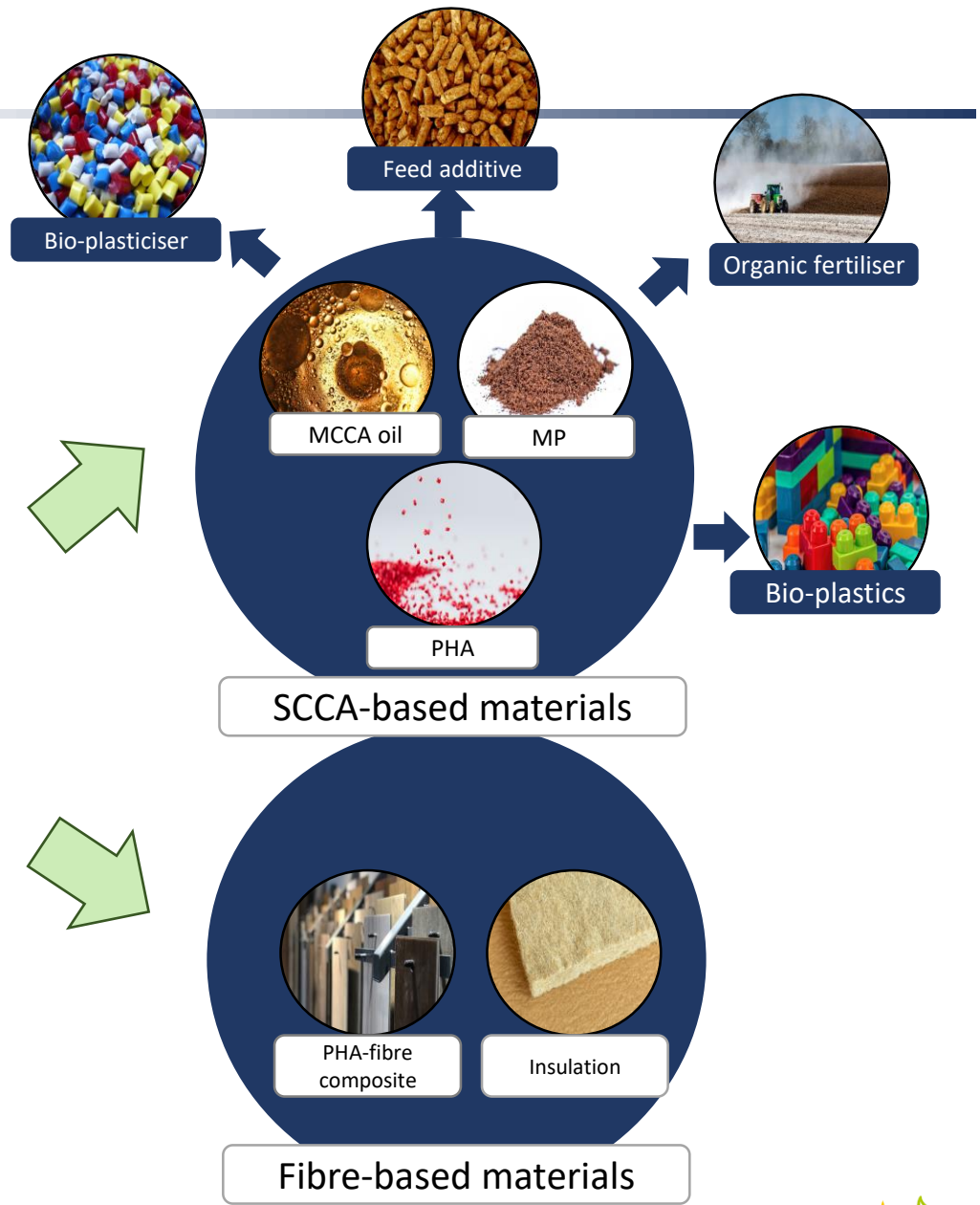
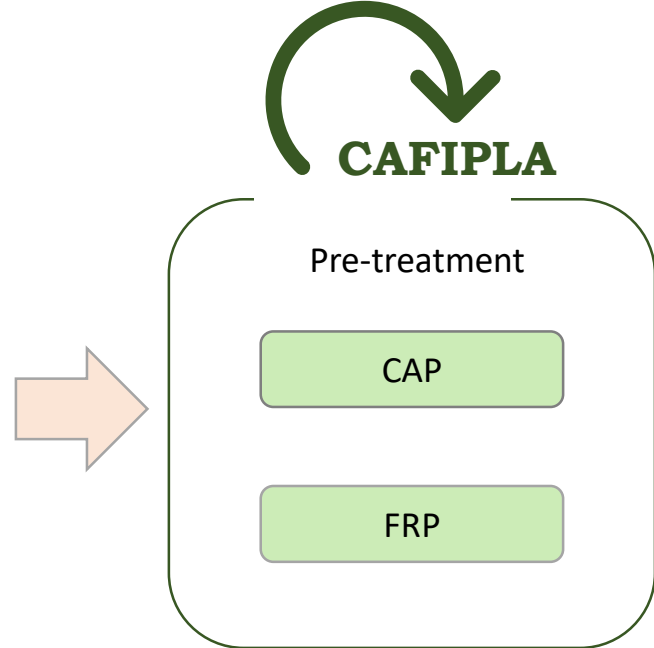
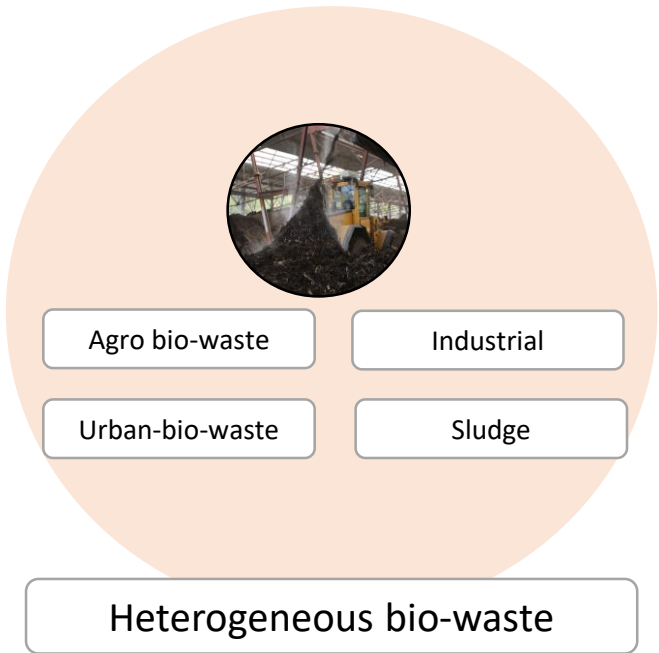
innovation programme and the Bio-based Industries Consortium.



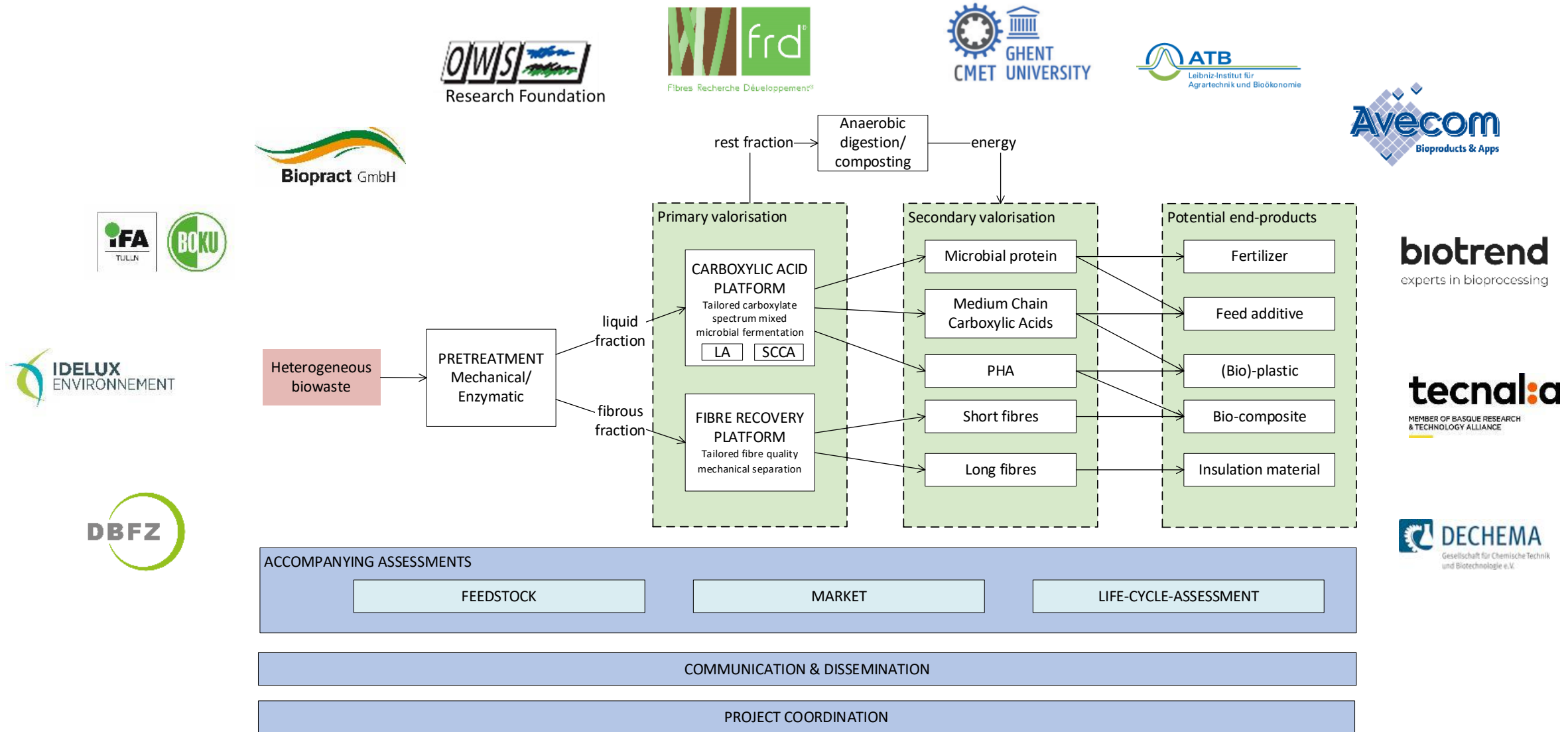
CAFIPLA CONSORTIUM & OBJECTIVES



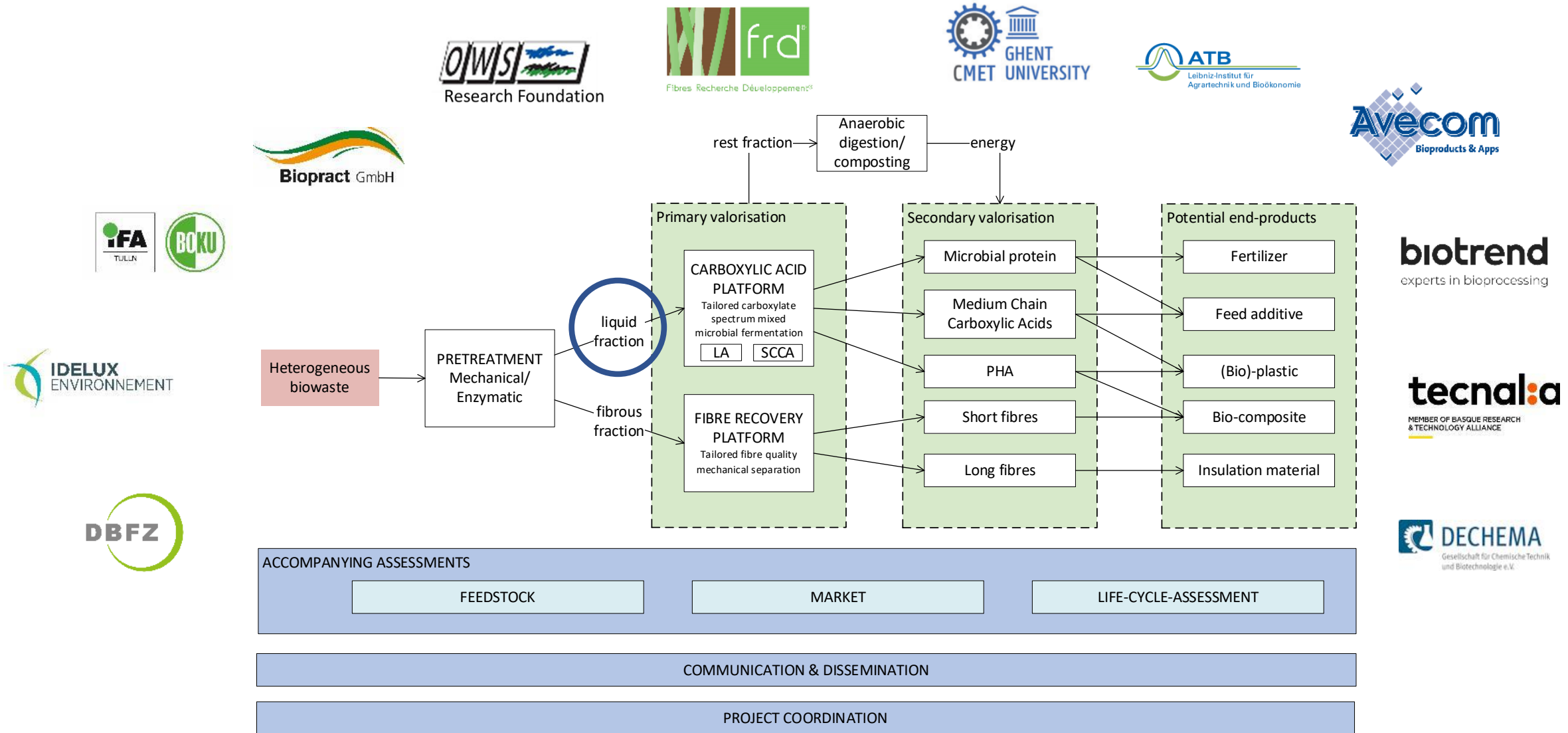
CAFIPLA CONCEPT



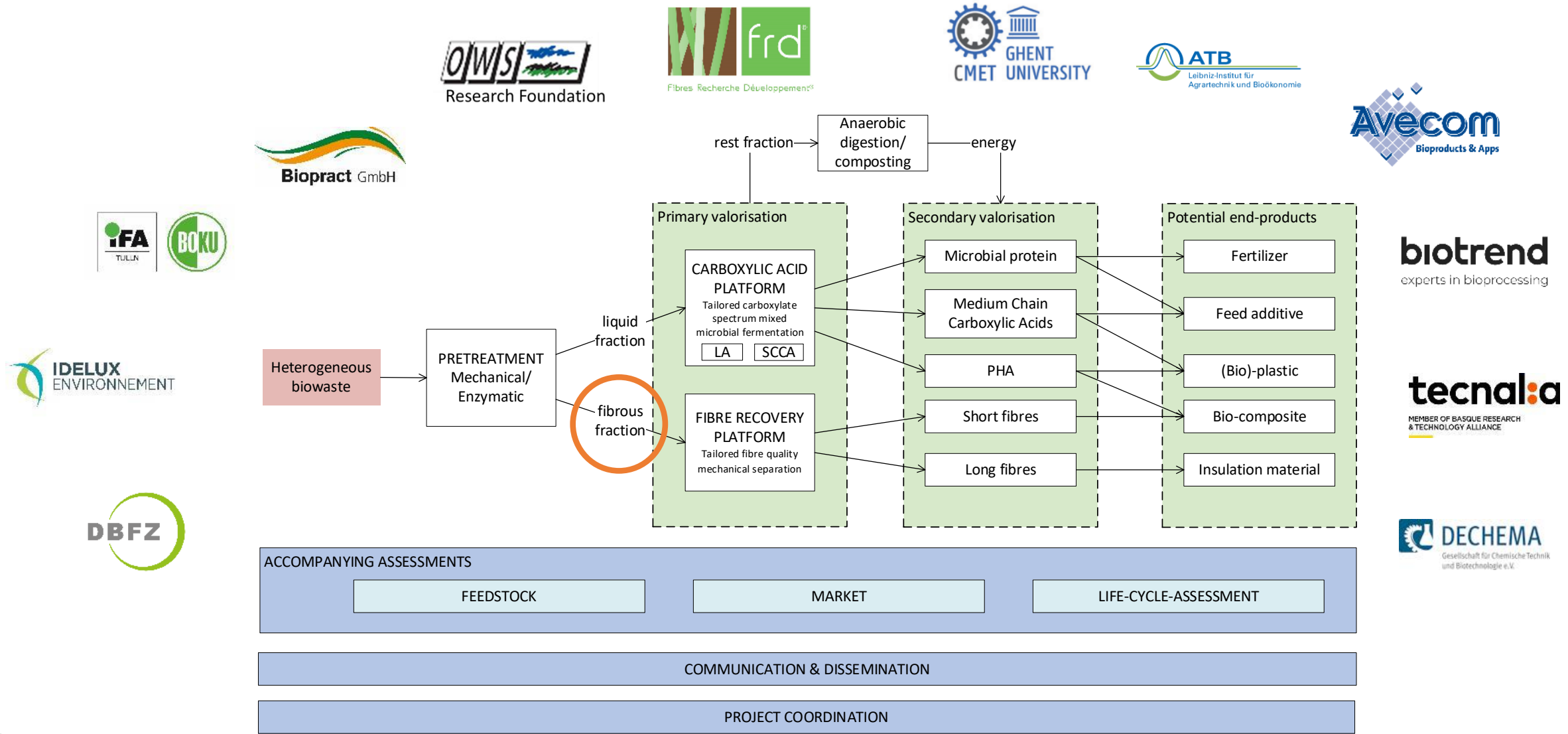
PROCESS SCHEME



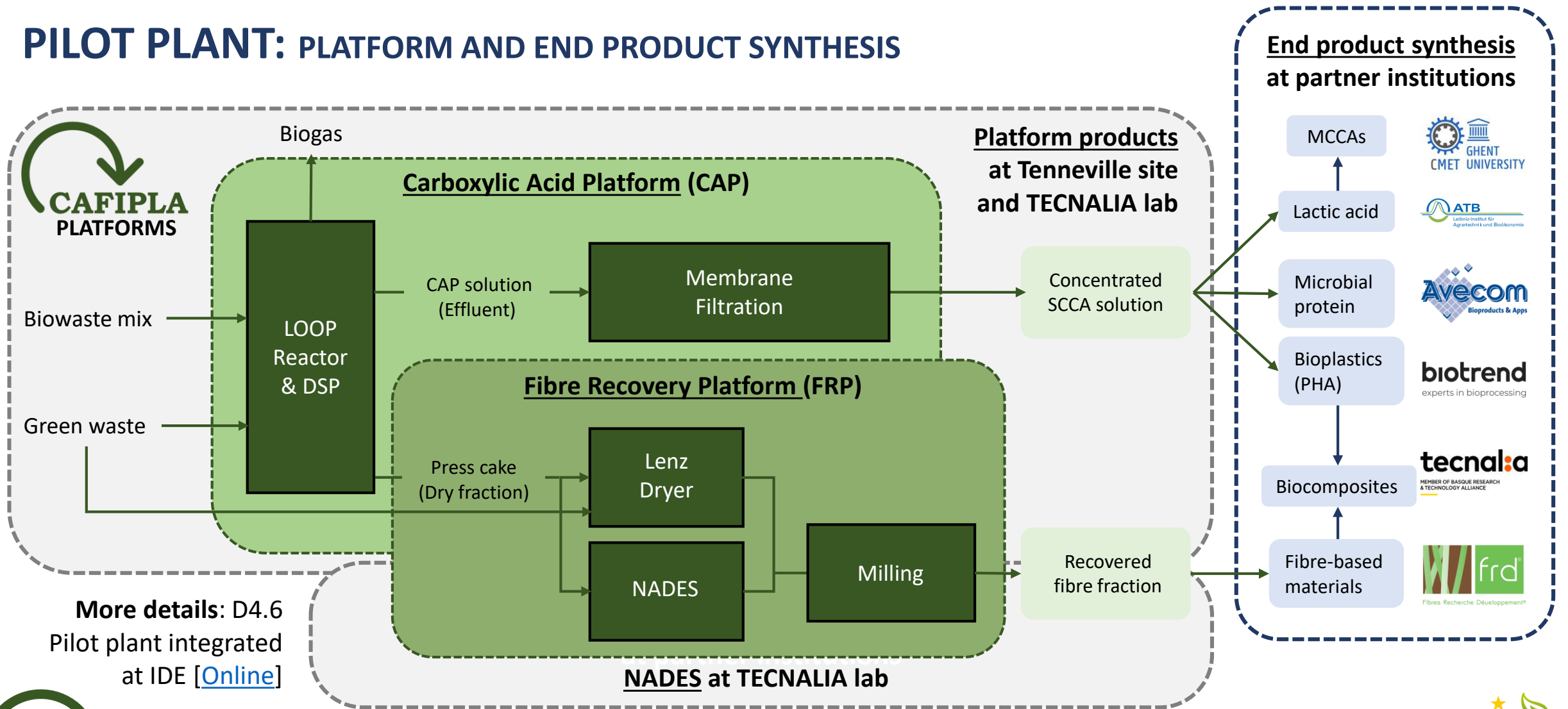
PROCESS SCHEME



PROCESS SCHEME



PILOT PLANT: PLATFORM AND END PRODUCT SYNTHESIS



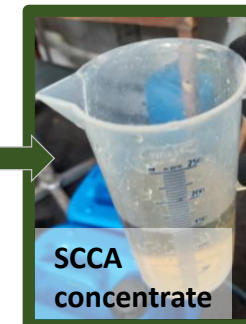
“THE LOOP” – AT IDELUX SITE IN TENNEVILLE (BELGIUM)

<https://www.youtube.com/watch?v=xOhSoEcwKb0>

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- 1 Loading with biowaste
- 2 Transport to LOOP
- 3 Feeding LOOP chimney
- 4 Entering LOOP reactor
- 5 LOOP process
- 6 Transfer to screw press
- 7 Pressing
- 8 Decanting
- 9 Filtration



- Biowaste as a resource
- Novel value chains within CAFIPLA
- Valuable end products
- Biorefinery concept



More details: D1.5 Final report on market assessment of CAP/FRP based bioproducts and CAFIPLA as technology in the bioeconomy expansion, January 2023 [[Online](#)]

PRODUCTS (SELECTION)

Insulation material



PHA films



Biocomposites



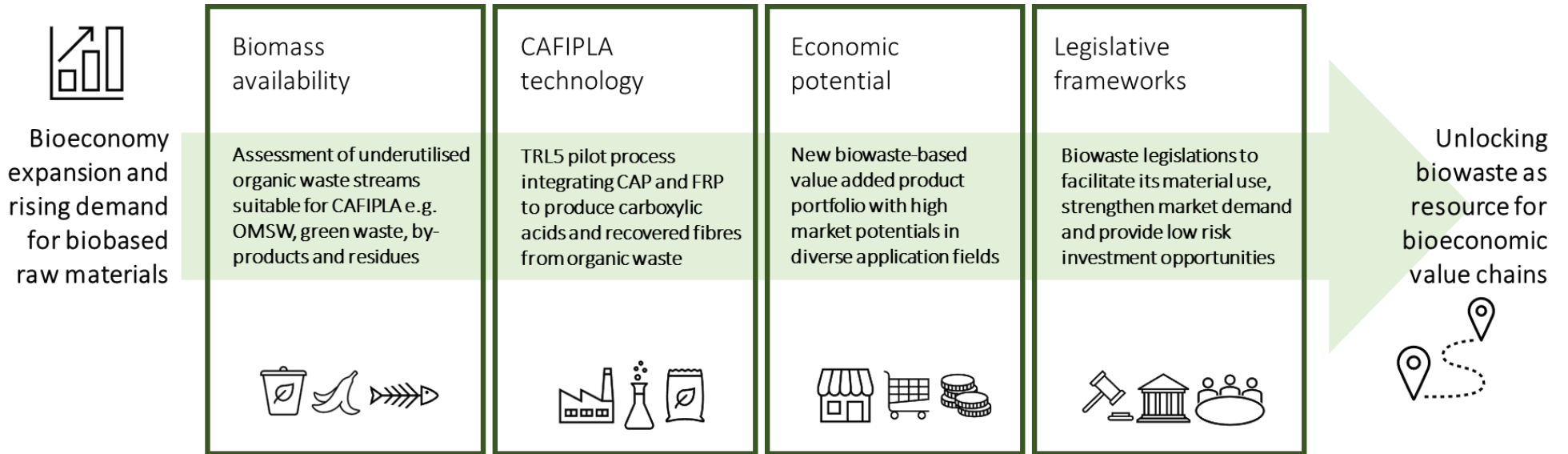
Stakeholder platform

⇒ Register and build a profile:
<https://cafipla.dechema.de/>

Further products: D1.5 Final report on market assessment of CAP/FRP based bioproducts and CAFIPLA as technology in the bioeconomy expansion, January 2023 [[Online](#)]

CAFIPLA IMPLEMENTATION GUIDELINE

- CAFIPLA technology requirements considering supply chain and technical feasibility
- Guideline for successful implementation of the CAFIPLA concept
- Chances and challenges towards implementation
- Recommendations to accelerate biowaste utilisation and the circular transition



OMSW = Organic municipal solid waste; CAP = Carboxylic acid platform; FRP = Fibre recovery platform

More details: D7.12 Guideline for successful integration of the technology platform, March 2023 [[Online](#)]



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Stakeholderdialog Kreislaufwirtschaft 2023

des Bundesministeriums für Klimaschutz, Umwelt, Energie,

Mobilität, Innovation und Technologie (BMK)

13. April 2023 - Wien

Thank you for your attention

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