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# CAFIPLA

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## Newsletter

### Welcome to the 3rd CAFIPLA Newsletter!

Dear Reader,

As the year is about to end, we want to update you with the latest news from the CAFIPLA project: We just completed the 18 months mark!

With this newsletter issue, we want to introduce to you our brand new **CAFIPLA Stakeholder platform** and talk about the benefits of joining this expert network, inform you about the successful launch of the **CAFIPLA Webinar series** "From organic waste to biochemicals" and give you insights into the ongoing work and latest results about the **Fibre Recovery Platform** from our partners Fibres Recherche Développement.

We wish you all happy holidays and a great start into the new year!

Christina Andreeßen and Karoline Wowra  
DECHEMA e.V.  
CAFIPLA Dissemination leaders



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1. Launch of the CAFIPLA Stakeholder platform
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### 1. Launch of the CAFIPLA Stakeholder platform

#### Our CAFIPLA Stakeholder platform is online!

What is more, each stakeholder can build a profile and get in contact with other



The CAFIPLA Stakeholder platform aims to promote **exchange between experts** and provide information on new technologies for obtaining bio-based chemicals and products from bio-waste. Experts have the opportunity to share relevant news, events, publications, draw attention to topics relevant for CAFIPLA on the blog, give ideas and suggestions, or ask questions.

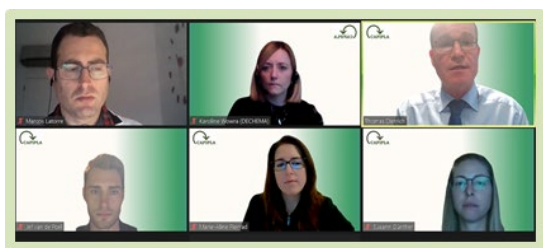
experts. So, whether you are a biowaste processor or biogas operator and looking for **alternative value chains**, a researcher and would like to **share your expertise** on biogenic waste treatment, or you are curious about **biobased products or chemicals produced from biowaste...**

... join our CAFIPLA network and register to our Stakeholder platform! Get informed, share your expertise and get in contact with other stakeholders:

**Stakeholder  
platform**

## 2. CAFIPLA Webinar series: From organic waste to biochemicals

### Launch of Part 1: How to pre-treat biomass



#### CAFIPLA WEBINAR From organic waste to biochemicals Part 1: How to pre-treat biomass

AGENDA DECEMBER 10TH, 2021  
03:00 - 04:15 PM CET

Welcome and short introduction of CAFIPLA

How municipal organic waste is currently treated at IDELUX

Advantages of the implementation of  
• Carboxylic Acid Platform (CAP)  
• Fibre Recovery Platform (FRP)

Spatial feedstock screening for the CAFIPLA pilot plant

URBIOFIN project.  
Demonstration of an integrated biorefinery for the transformation of municipal biowaste into biobased products.

Common Discussion



TECNALIA

IDELUX  
ENVIRONNEMENT

OWS RF  
TECNALIA

DBFZ

PERSEO  
BIOTECHNOLOGY

On Friday, 10th December, the CAFIPLA Webinar series "**From organic waste to biochemicals**" started with Part 1: How to pre-treat biowaste. The CAFIPLA partners TECNALIA, IDELUX Environnement, OWS Research Foundation and DBFZ introduced the overall **CAFIPLA concept and technologies** to the audience and presented how the CAFIPLA project will help create new biobased value chains based on biomass, specifically organic waste.

To start, **Marie-Aline Pierrard** literally took us to their plant to show how municipal biowaste is currently treated at **IDELUX** and what are the benefits of setting up the CAFIPLA pre-treatment platforms to create value-added products.

**Jef van de Poel** from **OWS RF** and **Thomas Dietrich** from **Tecnalia** went into the detail of these technologies: the Carboxylic Acid Platform (CAP) and the Fibre Recovery Platform (FRP).

**Susann Guenther** from DBFZ presented results from the feedstock screening to evaluate the availability of applicable biomass around the pilot plant and finally, we were excited to hear from our **special guest Marcos Latorre** who gave us an introduction and insights about the **URBIOFIN** project that aims on demonstrating the viability of an integrated biorefinery to transform organic municipal solid waste into value added bioproducts.

In case you missed the webinar and are now curious about the CAFIPLA technologies - you can find the **recordings of the webinar on the CAFIPLA Website:**

## Webinar Part 1: How to pre-treat biowaste

### Upcoming Part 2: How to valorise biowaste

The second part of the webinar series will take place on **March 17th, 2022** and there our partners Tecnalia, DECHEMA, Biotrend, Avecom, FRD, UGent and ATB will talk about the **CAFIPLA products**, such as polyhydroxyalkanoates, microbial protein, medium chain carboxylic acids and natural fibres.

To examine the economic side of the CAFIPLA concept, we will also learn about the results of the **CAFIPLA market analysis**, which evaluated the four products based on application areas, potential markets, production volumes and annual sales, as well as regarding the respective framework conditions.



#### Save the date!

March 17th, 2022  
3:00-4:30 pm

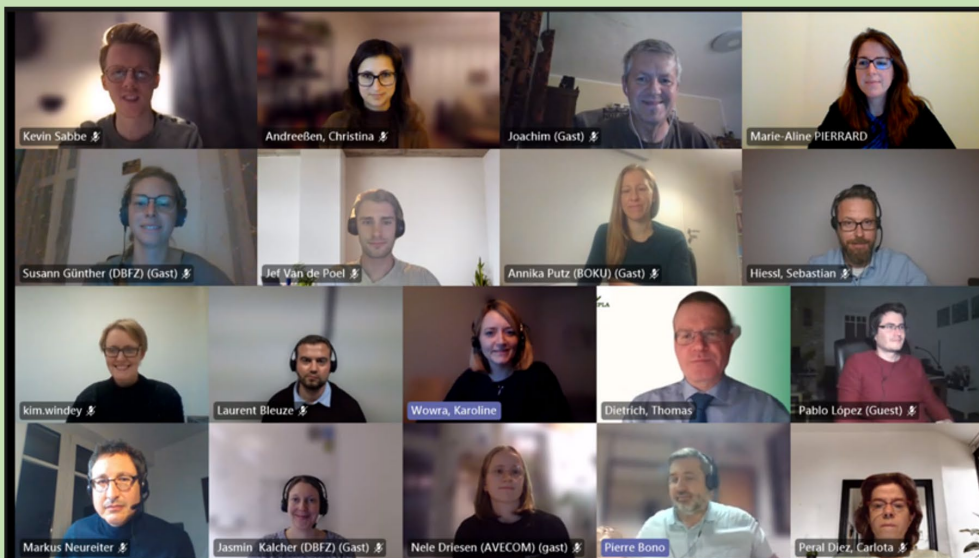
#### or follow us on

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## 3. 18th Month Meeting of the CAFIPLA partners

This Monday, December 13th, the **CAFIPLA consortium** came together for their 18th Month General Assembly. We were happy to welcome also our project officer Ana Cuadrado Galván who joined the meeting and informed us about news on the **Circular Bio-based Europe Joint Undertaking** (CBE JU). During the one-day online meeting, all partners then reported about their progress and updates of the ongoing work and achieved results within CAFIPLA's work packages (WPs) 1-8:

To begin, our coordinator Thomas Dietrich from TECNALIA gave us an overview on the overall great progress within the project with all tasks being perfectly on time. In WP1, the partners from DBFZ reported about their **current progress of the feedstock analysis**. The partners responsible for the pretreatment technology development reported their newest results on the **Carboxylic Acid** (WP2) **and the Fibre Recovery Platforms** (WP3). Partner IDELUX followed with an update of the **process integration** (WP4) and invited the partners to visit the waste treatment plant. Partners Biotrend and UGent presented their latest **fermentation experiments** to obtain the products PHA, lactic acid and caproic acid, respectively (WP5). Following the technology and product WPs, partner TECNALIA introduced the first definition and settings for the **life cycle assessment** (WP6) and partner DECHEMA reported their **dissemination activities** (WP7) to spread news from CAFIPLA into the community. Concluding, Thomas thanked all partners for the great collaboration, timely submission of deliverables and finished with some remarks on the **upcoming periodic reporting** that is due by the end of January 2022.



What a great and fruitful first part of the CAFIPLA project – thank you to the team. We are looking forward to further exciting project months to come!

## 4. Current progress in CAFIPLA

The CAFIPLA concept is to optimize, integrate and demonstrate two platform pre-treatment technologies (CAP and FRP) to utilize mixtures of regionally available, mixed organic waste streams. resulting in a more cost-effective and efficient valorisation depending on the specificities of each type of biomass. After the initial mechanical separation, the soft biomass is pre-treated via the Carboxylic Acid Platform (CAP), while the fibrous biomass is further processed via the **Fibre Recovery Platform (FRP)**. The FRP technology enables the environmentally friendly recovery of natural fibres from pre-treated biowaste mixtures by applying dry and wet extraction processes.

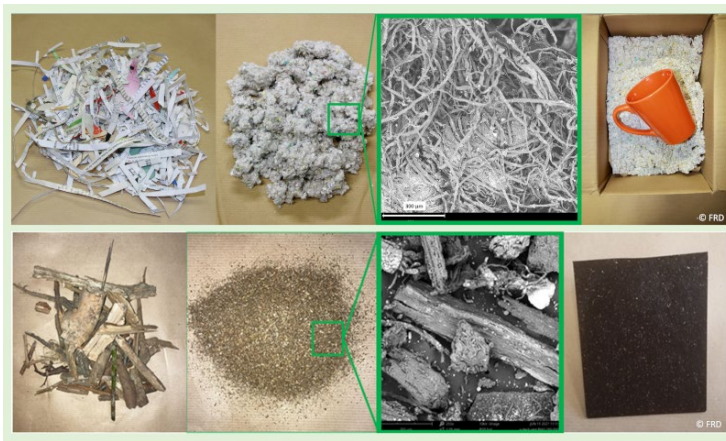
### What FRD is currently working on regarding the FRP pre-treatment

CAFIPLA partner Fibres Recherche Développement (FRD) is a private innovation company that promotes the emergence and development of innovative applications for **biomass-derived plant fibres**. FRD has expertise in the full range of plant-fibre extraction, characterization and quality management to applicative implementation activities, from the plant all the way to end applications.

Within the CAFIPLA project, FRD already carried out an initial study to select different biowastes, provided by IDELUX, to investigate their **application potential** on different markets e.g., **construction materials, composites and packaging**. Different fibre fractions with different characteristics were extracted with dry route processes and characterized (see pictures below). Some **fibre fractions** were then validated by industrialists for potential use in different applications, such as **insulation or biocomposites**. If your company is interested in knowing more about or testing the fibrous fraction extracted from biowaste, don't hesitate to contact FRD.

### Contact FRD

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Fibres Recherche  
Développement  
[www.f-r-d.fr](http://www.f-r-d.fr)

## 5. Join our network!

Get in contact with us and visit our homepage!  
Follow us on social media!



## 6. Consortium



The consortium consists of 6 SMEs and 6 research institutes:

### Enterprises

- Idelux Environnement
- Biopract GmbH
- Fibres Recherche Developpement (FRD)
- Organic Waste Systems Research Foundation (OWS RF)
- Biotrend – Inovação e Engenharia em Biotecnologia, S.A.
- Avecom

### Research institutes

- Fundación Tecna|a Research & Innovation
- Deutsches Biomasseforschungszentrum Gemeinnützige GmbH (DBFZ)
- Universität für Bodenkultur Wien (BOKU) - Department of Agrobiotechnology IFA-Tulln
- Leibniz Institute for Agricultural Engineering and Bioeconomy e.V. (ATB)
- UNIVERSITEIT GENT - Center for Microbial Ecology and Technology (CMET)
- DECHEMA e.V. - Society for Chemical Engineering and Biotechnology

Pictures: AdobeStock, Pixabay, CAFIPLA consortium



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