

# PREBIO

## High performance pretreatment of lignocellulosic biomasses for sustainable biorefinery value chains

**Duration** 1.2.2015 - 30.6.2017

**Budget** 537 000 €

### Project realizers and person in charge

Research groups at the University of Oulu:

Applied Chemistry: Prof. Ulla Lassi, The person in charge of the project

Chemical Process Engineering: Prof. Juha Tanskanen

Fibre and Particle Engineering: Dr Ari Ämmälä and Dr Henrikki Liimatainen

### Funding

In addition to the Council of Oulu Region granted EAKR-found and realizers internal financing, there is private sector founding in the project. Companies included in the project: Chempolis Oy, Corenso Oy, Haarla Oy, Savon Sellu Oy and Sievi Biofuels Oy .



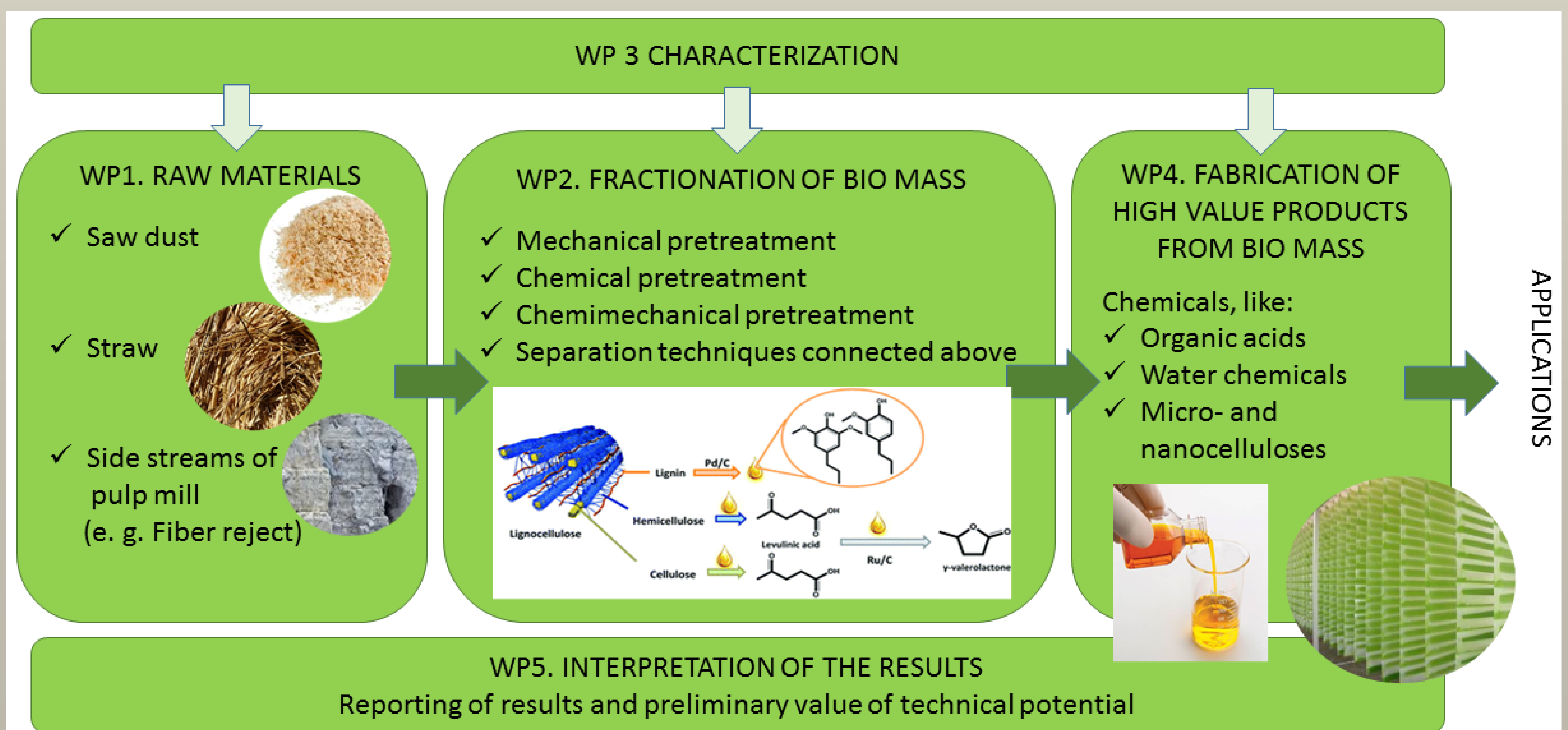
In PREBIO-project three pretreatment and separation methods are developed and demonstrated. These methods can be integrated into existing large-scale industrial processes or they can be used for distributed biorefinery concepts in the smaller scale.



### Objectives of the project:

- A new, competitive concept for biomass selective pretreatment, which enables increased material efficiency to utilize local biomass and waste biomass from industry
- Increased opportunities to local companies to improve material and energy efficiency (low carbon)
- High value-added products and new production technology for the SME sector, which is also competitive in the international market and enables new business
- New competence and new infrastructure for the University of Oulu in the field of bioeconomy research

### The procedure of the PreBio-project



### Additional information of the project:

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Project manager: Postdoctoral research fellow Terhi Suopajarvi, terhi.suopajarvi@oulu.fi, p. 0294 482415

