



PARTNERS



Processing **U**nderutilised **L**ow value sugar beet **P**ulp into **V**ALUE added products
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PROJECT COORDINATION
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BACKGROUND

Sugar beet pulp is a major residual stream from the sugar beet industry, which is currently valorised as low value feed and/or green gas. In Europe sugar beet pulp accounts for a production volume of approx. 13 million tonnes per year.

VALORISATION of SUGAR BEET PULP

Microcellulose fibres, arabinose and galacturonic acid found in sugar beet pulp can be used for a great variety of applications such as composites, food & flavour applications as well as personal care. Throughout the years, the project leader Cosun has tested different processes on pilot scale to extract these components.

OBJECTIVES and GOAL

PULP2VALUE builds upon developments already achieved by the project partner Cosun.

The project's two main objectives are:

1. To optimize, scale up and integrate processes for the production of microcellulose fibres, arabinose and galacturonic acid.
2. To build long lasting value chains for microcellulose fibres, arabinose and galacturonic acid.

The ultimate goal is to set up a **demonstration plant** which refines sugar beet pulp in an **integrated and cost-effective cascading biorefinery**.

IMPACTS of PULP2VALUE

The following impacts are anticipated:

- Rural development in sugar beet growing areas by connecting the sugar beet processing industry with various industries, including the chemical and food industry.
- Increased resource efficiency through the diversified use of a side stream of the sugar beet industry.
- An expanded European portfolio of value-added products.
- Innovative products with a low environmental impact.

