



# Mobile and Flexible Industrial Processing of Biomass, MOBILE FLIP





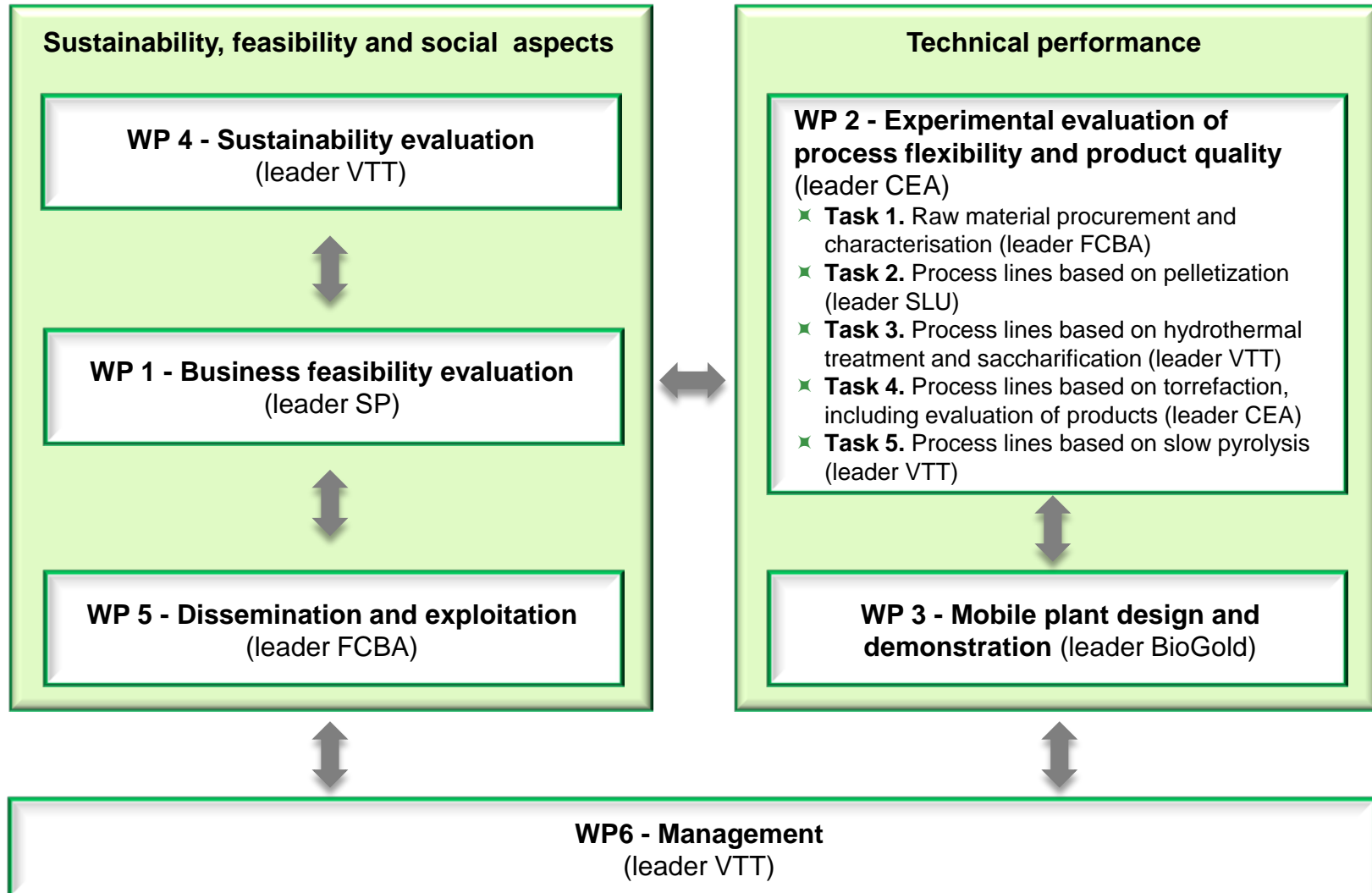
## Background

- ✦ Novel solutions need to be developed for sustainable process industries utilizing renewable resources in a sustainable manner.
- ✦ Forestry, agricultural and industrial wastes are potential future resources, but they are typically fragmented and only seasonally available.
- ✦ Mobile Flip brings together the industry, SMEs and RTOs, to generate new and emerging solutions for the environmental, social, and economic challenges, more specifically the growing demand for sustainable and innovative use of biomass raw materials.

## Main objectives

- ✦ Develop technologies for simple and robust processes that are applicable to small scale. The specific aims of the project are to demonstrate at least three of the following technologies as a mobile unit
  - ✦ biomass pre-treatment steps (comminution, drying, fractioning)
  - ✦ hydrothermal treatment and saccharification
  - ✦ hydrothermal carbonization
  - ✦ torrefaction
  - ✦ slow pyrolysis
  - ✦ feasible compaction technologies for solid products (pelletizing and briquetting)

# Approach



## Mobile Flip in figures

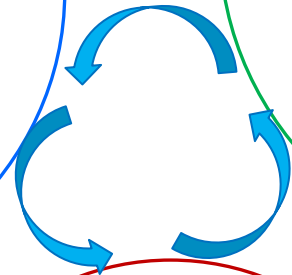
- ✦ Budget: 9.77 million euros
- ✦ Resources: 762 Personmonths
- ✦ Duration: 4 years (2015 – 2018)
- ✦ Partners: 2 large companies, 4 SMEs and 6 research institutes & universities
- ✦ From 5 EU member countries
- ✦ Programme SPIRE-02-2014 Adaptable industrial processes allowing the use of renewables as flexible feedstock for chemical and energy applications
- ✦ Contacts Coordinator: [tarja.tamminen@vtt.fi](mailto:tarja.tamminen@vtt.fi)

# Consortium

SMEs



RTOs



Large companies





**Thank you for your attention!**