

Contract No: **H2020-SPIRE-637020-MOBILE FLIP**

Title: **Mobile and Flexible Industrial Processing of Biomass**

Duration: **01/01/2015 – 31/12/2018**

**Abstract:**

The overall objective of the project was to develop mobile and flexible units for the conversion of underutilized solid lignocellulosic biomass residues into higher value intermediates and products. The aim was that the units would be flexible and utilize various lignocellulosic side streams and wastes from forestry, agriculture and solid residues from food industry. These streams are typically seasonal and generated in remote locations, thus mobility of the unit is important. Transportation costs would thus be reduced by treating biomass near its source. Four potential technologies were successfully demonstrated: hydrothermal treatment e.g. to speed up biogas formation, torrefaction, slow pyrolysis for the production of biochar and liquid fraction, and pelletising. Suitable raw materials and potential business scenarios were identified for each technology.

The project has received funding from the European Union's Horizon 2020 research and innovation programme.

In order to evaluate the value of the products obtained by the mobile processes in this project, CHIMAR produced particleboard type panels from raw biomasses, products and by-products from these processes aiming at replacing the presently used wood or improving the properties of the panels.

