


<u>Open call</u>	CENIT 2009
<u>Funding body</u>	CDTI
<u>Duration</u>	2009-2012
<u>Budget</u>	€27,600,000
<u>Partners</u>	

PROJECT DESCRIPTION

Development of the entire biomass value chain, from the generation of resources generation down to the end products on the market. This means working on the development of biomass production, primary transformations of biomass into intermediate products, and the transformation of these intermediate products into end products on the market. Likewise, in particular specific or concrete studies and tools have been developed to ensure the sustainability of the technologies produced.

SCOPE OF TR'S WORK

Within the BIOSOS project, Técnicas Reunidas has developed new technology through chemical transformations, making it possible to obtain chemical monomer units (building blocks) such as levulinic acid (and other carboxylic acids), furfural and hydroxymethylfurfural. These chemical platforms offer a wide range of applications due to their possible impact on different industrial sectors such as plastics, food, fuel and pharmaceuticals areas, thus competing with the current petrochemical approach.

Moreover, Técnicas Reunidas owns a complete and efficient physicochemical pre-treatment technology for the selective production of C5/C6 sugars that is capable of processing any type of lignocellulosic material.

The aim behind all of these is to successfully develop biorefinery plants that are based on new, economically competitive, and environmentally friendly technology.

Furthermore, collaboration with other divisions of Técnicas Reunidas has made it possible to assess the scalability of the developed process and its potential economic viability with respect to other processes already in place on the market.