

## Development and improvement of technologies for the valorization of by-products from cork industry

### Summary

The project consists in evaluate the state of the art and make proposals to develop and / or improve technologies for the manufacture of new cork products. The raw material base has been products of the cork industry with the aim of maximizing the use of waste products and promoting the bioeconomy in cork oaks regions.

### Objectives

- Design a system of collection of cork products.
- Improving knowledge transfer between research centers and businesses.
- Improve some cork products applied to the construction sector to accomplish with current regulations and make them more competitive.
- Develop a cork material suitable for application in additive technology (3D printing).
- Promote the entry of innovative products cork into de market.

### Conclusions

The group created has allowed to connect a technological center specialized in cork, historically dedicated to the study of cork stoppers with companies involved in 3D printing and construction sector and manufacturing innovative additives with notable concerns with an important role into forest owners and associations that represent them to dispose of forest products that have a reduced profit. Also allowed close interaction between the business association of cork (industrial) and cork forest owners in Catalonia while responding deal concerns the quality and quantity of catalan cork forests encouraging all to work together to ensure the sustainability of sector.

It has been concluded that there is much work feasible in the use of cork products in building and using new technologies to be developed for implementing its interaction with resins. It has also concluded that the cork has the same properties burnt cork and burned it would be suitable for new applications also has been concluded to take into account the material in improving the 3D printing and to consider the way compensation of CO2 emissions through the promotion of cork oak forest management.

### Operational Group Leader

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Tipologia d'entitat:

**Agrup. o assoc. d'empreses/indústries forestals**

### Keyword-category

Farming / forestry competitiveness and  
Forestry  
Supply chain, marketing and consumpt

### Territorial scope

#### **Província**

Girona  
Barcelona

#### **County**

Vallès Oriental  
Selva  
Maresme

Gironès  
Baix Empordà  
Alt Empordà

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**Project dissemination** (*publications, seminars, multimedia...*)

Taller d'ecodisseny i ecoinnovació en el sector surer

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**Project website**

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**Other project information**

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**Project period**

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**Approved budget**

Starting date (month-year): Novembre 2015

**Total budget: 28.571,43 €**

End date (month-year): Setembre 2016

*Funding source DARP:* 11.400,00 €

Project status: *Finalised*

*Funding source EU:* 8.600,00 €

*Own funds:* 8.571,43 €

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*Ordre ARP/258/2015, de 17 d'agost, per la qual s'aproven les bases reguladores dels ajuts a la cooperació per a la innovació a través del foment de la creació de grups operatius de l'Associació Europea per a la Innovació en matèria de productivitat i sostenibilitat agrícoles i la realització de projectes pilot innovadors per part d'aquests grups, i es convoquen els corresponents a 2015.*

*Id. projecte: 91 2015*