

Contract No: ECO/10/277331

Title: Laminated strong eco-material for building construction made of cellulose-strengthened wood (**CELLUWOOD**)

Duration: 09/09/2011 - 08/09/2014

Abstract:

The project aims at developing a new range of structural elements/ reliable strong building construction materials made of wood by:

- The introduction of new production technologies from other sectors for innovative uses in the defect removal and repairing, and lamination of strong building materials
- Facilitating innovation in the use of nano/micro cellulose and bio-resin technologies instead of petroleum-based glue in the lamination of timber.
- The development, testing and demonstration of the novel initiative products.

Wood will be sourced from well managed and sustainable forests. The wood thus procured will have sequestered carbon from atmospheric CO₂.

The project is co-funded by the CIP-Eco-innovation European Programme, and the 7 participating organisations from the UK, Greece, Spain, Slovenia and Belgium.

CHIMAR (Greece) will produce and provide the bio-based resins needed to enhance or effect bonding in CELLUWOOD materials and products.