

## I-PAN info

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### Project funding

**IPAN** project is co-funded by the European Commission within the Seventh Framework Programme under the Environment Theme.

The duration of the project is from the 1st of October 2012 to the 30th September 2015.



## I-PAN consortium



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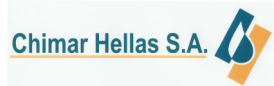
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IMAL is a manufacture company leader in the supply of equipment and system for the production and processing of particleboard, MDF, OSB, Plywood, pellets, pallet blocks.

IBL is part of Bolzano group, leader in the supply of primary component parts for the furnishing industry.

Part of the PNO consultants group, CIAOTECH is one of the leading companies in Europe specialized in development of International research networks.

STELA Laxhuber GmbH is an international company focusing on the field of drying technology.

IDP's engineering and architecture service is focused primarily on civil and environmental engineering and architecture.

ECSC is a research and development centre focused on basic and applied research in the field of soft computing.

The UNIVERSITY OF MILAN is a public teaching and research university with 8 faculties and 2 schools and a teaching staff of 2.178 professors.

CHIMAR is a pioneer innovative industrial technology for the resin and wood based panel industries in all continents.



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<http://www.ipanproject.eu/>

Project co-funded under the Seventh Framework Programme of the European Commission





## The project

**I-PAN** project is a 36 months project co-financed by the *European 7th Framework Programme of Research and Development* which aims at providing novel and highly environmental friendly solutions in the field of the engineered wood (EW) based boards.

**I-PAN** main objective is the design of a breakthrough wood-made lightweight panel, adopting 50% of its volume recycled wood and for the remaining 50% poplar wood by using the upper part of the tree that is commonly underused.



## R&D Activities Areas

**R&D I-PAN** target areas are:

- \* The production of **strands** (thin wood slices representing the main stratified components of wood made panels) through an innovative **drying, handling and metering system**
- \* The employment of a **novel resin** to be innovated by a lower room-temperature polymerization
- \* The innovation on the **Mat (raw board) Forming** the process of blending and pressing wood strands together in order to produce a thick and solid layer for final panel composition



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## Expected results

**I-PAN** means to:

- \* **Save energy** in key production steps and thus highly reduce CO<sub>2</sub> emissions
- \* **Reduce** the use of toxic or harmful solvents and contaminants to be inhaled or to contaminate the air.
- \* **Recycling** 50% of the wood and without wasting the upper parts of the poplars, thus highly reducing the pressure on primary raw materials.

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