

WOODEN CONSTRUCTION: IMIP PROJECT SOLUTIONS AND RESULTS

The aim of this course is to introduce participants to wooden construction and the use of prefabricated solutions. The contents range from the analysis of sustainable forest management and the materials available in the SUDOE region (South-West Europe), to the specific characteristics of the innovative prefabricated wood and cork based panels, developed in the framework of the IMIP project, together with other tools that support technicians in the design of their projects.

The estimated duration of the course is **5 h**.

CONTENTS

UD1. Introduction to the IMIP project (Interreg-Sudoe) and other key issues related to timber construction.

- Enhanced use of wood in construction based on sustainable forest management. José Vicente Oliver, Universidad Politècnica de València.
- Integral design of the construction system value chain. Jorge Gominho, Instituto Superior de Agronomia.
- Construction Revolution. Julen Pérez Santisteban, Waugh Thistleton Architects.
- Connecting the designer with the carpenter. Pablo Martinez Coto, Escuadría.
- Designing with CLT, from concept to execution. Manuel Lobo Parra, Finsa.

UD2. Characteristics of IMIP panels. Benefits and application examples. Energy, environmental, socio-economic, and circularity aspects.

- Features of IMIP Panels Salvador Gilabert Sanz, Universitat Politècnica de Catalunya.
- Compatibility of existing construction systems. Salvador Gilabert Sanz, Universitat Politècnica de Catalunya
- Examples of application and pilot actions. Salvador Gilabert Sanz, Universitat Politècnica de Catalunya

UD3. Tools for the valuation and estimation of the benefits of IMIP panels.

- Environmental assessment: ICT integration and climate change mitigation evaluation. PLUG-IN App for BIM methodology. Melchor Monleón Domenech.
- Life Cycle Analysis of interlocking panels Joan Romero Clausell, Valencia Institute of Building.
- Digital twin. Salvador Gilabert Sanz (UPC)
- Implementation in National Recognised Official Tools. Isaac Villanova Civera, Valencia Institute of Building.