Area: B. Innovative industrial production and processing technologies, products, concepts and services.

Objective: Development of an innovative constructive system for the construction or refurbishment of mid-rise social housing.

Methodology: The design of the project includes the use of a multi-criteria design methodology based on the life cycle of the building: from the early design stages and the choice of materials (E.g: wood species, composite...) to the deconstruction of the building (E.g.: lean management methods, multi-objective optimization methods, etc.)

In order to ensure the competitiveness of the solution, buildings made of different timber constructive systems as well as buildings with concrete and steel constructive systems will be compared on technical, environmental and economic criteria.

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EXISTING PARTNERS
OUR EXPERIENCE AND SKILLS

• Missions for industrialists: analysis and development of timber constructive systems for new or renovated buildings

• Strong skills and expertise in building life cycle analysis and deconstruction

• Previous experiences in research projects focused on the design of wood and mixed constructive systems integrating several criterias: thermal, acoustic, structural, comfort, environmental...

• PARTNERS: to define

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PARTNERS NEEDED
REQUIRED PROFILES AND SKILLS

• Lean management
• Economist
• Industrialist, manufacturer
• Technological center, RTO...

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