

NOBATEK/INEF4 – Project outline

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.

Contact : Stéphanie ARMAND DECKER

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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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