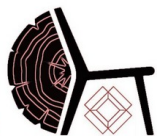


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HOPE

Sustainable Design
of Modular Housing
for People in Need

2021-1-EL01-KA220-VET-000025502



AIMS OF THE PROJECT

The **HOPE project** is innovative in that it proposes a methodology and design principles to embed a Sustainable Economy (SE) approach at a formalised, institutional level, considering the minimum use of resources and materials as well as the option to further exploit those through an upcycling process after the end of each use.

The **core idea of this project** is to add new skills to a number of professionals (engineers, technicians, etc) related to the building sector providing them with knowledge about the most recent available technologies and methods and shifting their competencies towards a novel and sustainable approach regarding the building construction (from design to implementation).

AIMS OF THE PROJECT

Research – Knowledge Hub (RKH)

This output is a “research–knowledge hub” (RKH) in the form of an electronic library containing detailed items of applied research in the field of timber construction design principles, circular economy, sustainable development and material availability in different regions of Europe.

“Job Profile” for the new VET specialists in the field of designing modular houses (JP)

In this output two different job profiles (JP) were created, one for Engineers and one for Technicians/Foremen. The JP consists of two distinct activities. a) Analysis study. b) Training needs analysis.

Sustainable Design and Materials Guide for constructing a Modular Micro-Unit (SUDMAG)

This output (SUDMAG) is about presenting a practical guide but mainly about creating a new philosophy and approach on how to choose the right materials, design, prefabrication, transport, building–assembly, and reprocess after the end of its use for constructing a modular building unit.

Innovative Massive Open Online Courses (MOOC) in the field of designing modular houses

Two different MOOC are developed using Open-Source software and e-learning tools. One for engineers who will be specialised in sustainable approach and smart use of materials for designing a modular house, and one for technicians/workers who will be specialised in techniques and methods for assembly and disassembly of sustainable modular constructions.

