



With the support of the
Erasmus+ Programme
of the European Union

Up-skilling construction workers in wood construction methods for energy efficient buildings

UPWOOD PROJECT

2nd Dissemination Campaign



UPWOOD

Project aim

UPWOOD forms a Strategic Partnership improve work-based learning VET, by developing and making available educational resources to address current and emerging occupational skills needs for energy efficient and innovative woodworking construction practices.

- ❖ Project duration: October 2019 - March 2022
- ❖ Duration: 30 months



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OBJECTIVES

1

Develop new training content on energy efficient wood construction methods and applications.

2

Develop teaching materials, VET integration guidelines, and trainer's guide to support VET providers to integrate new woodworking technologies and processes into their WBL and apprenticeships offerings.

3

Improve cooperation between VET providers and businesses to provide opportunities that will enable learners to apply the acquired knowledge and skills in real-life workplace situations.



MAIN TARGET GROUPS



MAIN OUTPUTS (1/2)



01 UPWOOD work-based learning outcomes

Analysis of current and future skills and knowledge needs leading to the development of learning outcomes.



02 UPWOOD learning units and Open Educational Resources

Development of the structure of a curriculum on innovative, energy efficient woodworking technologies, methods, and practical applications.

Creation of corresponding pedagogical materials to be offered as Open Education Resources.

MAIN OUTPUTS (2/2)



03 Online training scenarios

Development, testing, and delivery of Online Training Scenarios on woodworking in construction, promoting the uptake of innovative and flexible practices in VET.

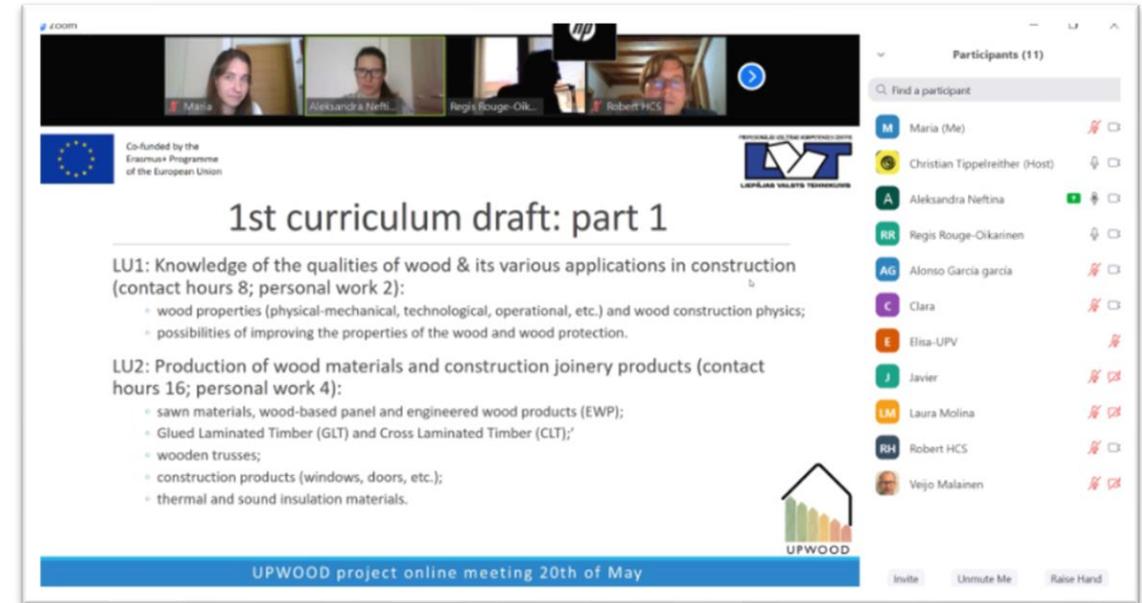


04 Framework for the integration of environmental components into construction sector WBL curricula and certification schemes

Involvement of key policy makers & stakeholders for the recognition of UPWOOD learning outcomes as well for supporting the integration of construction woodworking skills into occupational standards.

2nd PROJECT MEETING

- ❖ The second meeting of the project was foreseen to be held by the UPV, in Valencia, but due to the situation caused by the COVID-19 it had to be held online on 20th of May 2020.
- ❖ The partners addressed the intellectual outputs O1 and O2 and focused mainly on the task O2-T1 “Clustering of learning outcomes into learning units”, which has been further improved with the opinions of all partners.
- ❖ All the tasks to be carried out were reviewed and the next meeting was planned. Despite the enthusiasm of the members to meet in Liepaja (Latvia), it should be held online.



The screenshot shows a Zoom meeting interface. At the top, there are four video thumbnails of participants. Below them is a slide titled "1st curriculum draft: part 1". The slide content is as follows:

1st curriculum draft: part 1

LU1: Knowledge of the qualities of wood & its various applications in construction (contact hours 8; personal work 2):

- wood properties (physical-mechanical, technological, operational, etc.) and wood construction physics;
- possibilities of improving the properties of the wood and wood protection.

LU2: Production of wood materials and construction joinery products (contact hours 16; personal work 4):

- sawn materials, wood-based panel and engineered wood products (EWP);
- Glued Laminated Timber (GLT) and Cross Laminated Timber (CLT);
- wooden trusses;
- construction products (windows, doors, etc.);
- thermal and sound insulation materials.

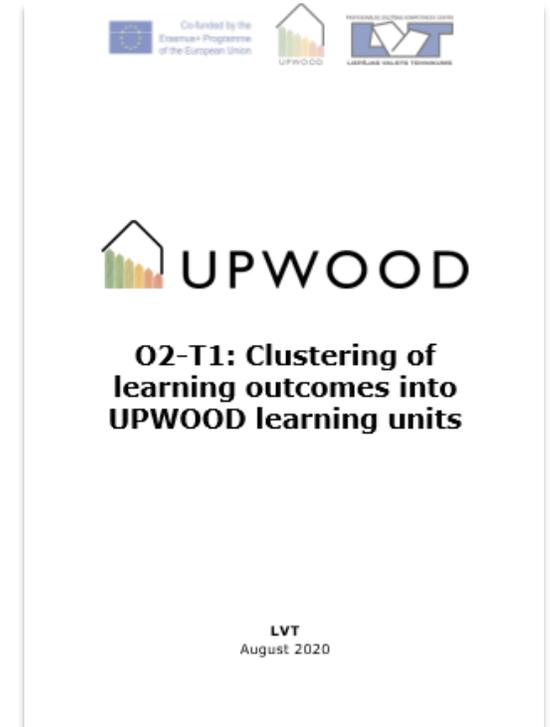
At the bottom of the slide, there is a blue bar with the text "UPWOOD project online meeting 20th of May" and the UPWOOD logo. On the right side of the meeting window, there is a "Participants (11)" list with names and icons for each participant.

UPWOOD 2nd project meeting (Virtual)
20 May 2020

ACTIVITY PROGRESS

02-T1 Fine-tuning of learning units

- ❖ During these last months of the project, the partners have been identifying the learning units for UPWOOD Open Education Resources. The learning outcomes based on the findings of the research and survey carried in frame of the Intellectual output 1 during the first semester, have been group into learning units that collect the set of skills, knowledge and competencies required and identified by construction sector.
- ❖ Learning units have been created following the criteria set up by the European ECVET network and it has been specified each one: the title, the list of topics of the learning unit content, learning objectives, prerequisites, amount of learning materials (lecture notes, presentations, case studies, FAQs), planned duration of the learning unit and references.



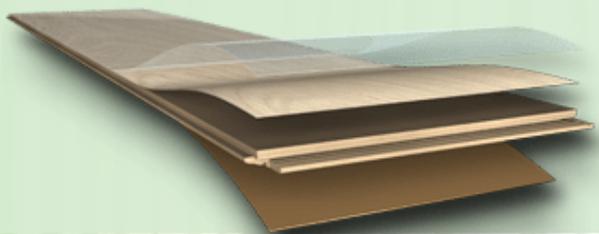


ACTIVITY PROGRESS

02-T1 Fine-tuning of learning units

LU1: Qualities of wood and its various applications in construction

- Wood properties (physical-mechanical, technological, operational, etc.), its limitations and wood construction physics.
- Possibilities of improving the properties of the wood and wood protection, durability.
- Availability and environmental friendliness of wood as a building material.



LU2: Timber construction, renovation and deconstruction

- Performance and durability of wooden structures.
- Guidelines on work with sawn materials, wood-based panel and engineered wood products (EWP).
- Guidelines on work with Glued Laminated Timber (GLT) and Cross Laminated Timber (CLT).
- Guidelines on work with different construction products (windows, doors, etc.).
- Use of connectors and adhesives.
- Restoration, reconstruction and dismantling of wooden elements.
- Wooden trusses.





ACTIVITY PROGRESS

02-T1 Fine-tuning of learning units

LU3: On-site wood construction assembling management

- Work planning and team management.
- Workspace organization – ergonomic and labour safety.
- Transporting and storing structures on building site.
- Architectural design – drawings and schemes.
- Building physics, installing of vapour barrier and risks of the resulting condensation.
- Fire safety and protection solutions.
- Wood based thermal and sound insulation in assembling process.
- Compatibility of wood building products (GLT, CLT, EWP etc.) with other construction materials.

LU4: Functionality and efficiency of wooden buildings

- Energy-efficiency value of wood as a building material and wooden constructions.
- Climate influence on wooden buildings.
- Trainings for plumbing, drywall construction, sealing.
- Insight to heating, ventilation, air conditioning, lighting, information and communications technologies systems and its applications in modern buildings.



PARTNERS



Holzcluster Steiermark

Leading cluster in Graz, developing and implementing projects along the Wood value chains, with special focus on timber construction.



EXELIA

Creative learning solutions company based in Athens, Greece specializing in vocational training with innovative methodologies.



LVT

Prestigious technical education school in Latvia, provides professional education programs, including construction and woodworking.



Universitat Politècnica de València

Public academic institution dedicated to researching and teaching in the field of construction technologies.



Woodpolis

Expert organization providing training and product development services for Wood construction, located in Finland.

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