

Erasmus+/Action 2 «Wood+ – Interdisciplinary, collaborative learning and teaching for resilient wood resources and innovations in a digital world»

Zusammenfassung (en)

The Wood+ project aims at raising graduates' profiles, strengthening excellence in key competencies such as multilingualism, critical thinking, and creativity, and strengthening international collaboration in the field of Wood Science and Technology. The project is strongly focusing on skill development for green jobs, by designing and up-growing university curricula. The Wood+ is strongly emphasising on digital competences, relevant to learners as well as educators. The digitalisation is radically transforming societies with an additional urgency due to the COVID-19 pandemic phase.

This project is adhering at very critical problems of today's society. Global climate change is causing regional drought situations with the consequence of high mortalities and losses in the forests. During the past two years, the volume of forest damages amounted at around 118 million m³ in Central Europe, with Germany, the Czech Republic and Austria being hit the most. The situation is further expanded with over-exploitations of wood species in selected regions since the industry is focusing on a small number of wood species only. Wood consumption is rising, primarily in the engineering sector for buildings, but also for interior, and many utilitarian items. A broader base of wood supply is needed in the future, even to adapt to the future changed-climatic pattern, and meet policy changes for a future bioeconomy. A primary strategy is to take advantage of wood species that have been used not much so far, due to insufficient knowledge in their relevant properties, their specific strengths, and the many manufacturing technologies. These "lesser-used wood species" (LUWS) are in the centre of this project, facilitating aspects of their use through educational measures. Some LUWS are better climate-adaptable, and their specific property profiles create new opportunities for innovative products, for new applications, and therefore also economic opportunities across Europe.

The Wood+ consortium integrates educational key-players in wood science and technology, coming from the Czech Republic (MENDELU), Germany (UHAM), Austria (BOKU) and Slovenia (UL). Further, the European organisation InnovaWood, located in Brussels, with 57 wood-related members from 28 countries, is also associated.

Three technical work packages are designed, representing a carefully selected portfolio of educational activities, with four e-learning activities, an eBook compilation, a virtual laboratory teaching, then experimental design and data analysis, to training on European dimensions in the subject matter. Further, a two-day conference, several technical programs for learners, short-term joint staff training events, including digital-age learning and didactics, then many forest-related and lab-focused events to European dimension events, the latter in connection with Brussels-based InnovaWood. The outcomes created during the activities mentioned above are licensed as Open Access Educational Materials.

Primary objectives are to develop, promote and integrate innovative interdisciplinary, collaborative content-based approaches to Wood Science and Technology curriculum with particular focus on lesser-used wood species. This is achieved by redesigning the learning

environment through enhancing in-class HE instruction with innovative online modules. Online modules will combine skill and content-based approaches with foreign language learning and teaching and will enable students to individualise and internationalise learning pathways through the promotion of collaborative practices. Additionally, the project allows for the assessment frameworks across partner curricula in the EU Higher Education institutions through the internationalisation of HE shared content.

With Wood+ Objectives are targeted, Opportunities are taken and make a Difference under the ERASMUS+ umbrella.

Koordinator

Mendel Universität Brunn, Tschechien

Beteiligte Partner

- Universität Hamburg
(Hamburg, Deutschland)
- Universität für Bodenkultur Wien
(Wien, Österreich)
- Universität Ljubljana
(Ljubljana, Slovenien)

Thünen-Ansprechpartner

- Ehmcke, Gabriele Institut für Holzforschung

Geldgeber

Zeitraum

09.2020 - 08.2023

Weitere Projektdaten

Projekttyp:

Projektfördernummer: 2020-1-CZ01-KA203-078483

Förderprogramm:

Projektstatus: laufend

<https://ec.europa.eu/programmes/erasmus-plus/projects/eplus-project-details/#project/2020-1-CZ01-KA203-078483>