





VET4BioECONOMY

FINAL CONFERENCE 14.-15. JUNE 2021















Erasmus+ project - VET4BioECONOMY - Professional training in forest bioeconomy in Austria, Slovenia and Croatia

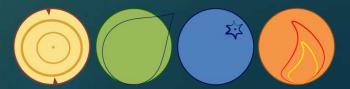
Croatian Forest Research Institute

dr.sc. Dijana Vuletić, project leader

Marta Curman, mag.ing.silv. – project leader during first two years

dr.sc. Silvija Krajter Ostoić – team member and supervisor

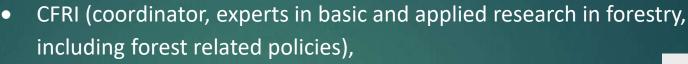
Anton Brenko, mag ing. silv. – team member



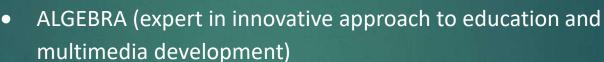


Partners













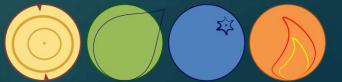
- SFI (experts in bioenergy and biomass, in basic and applied research),
- SFS (experts in forestry and extension providing),



- BOKU (experts in forest bioeconomy),
- BFW (experts in forest bioeconomy, VET implementation)

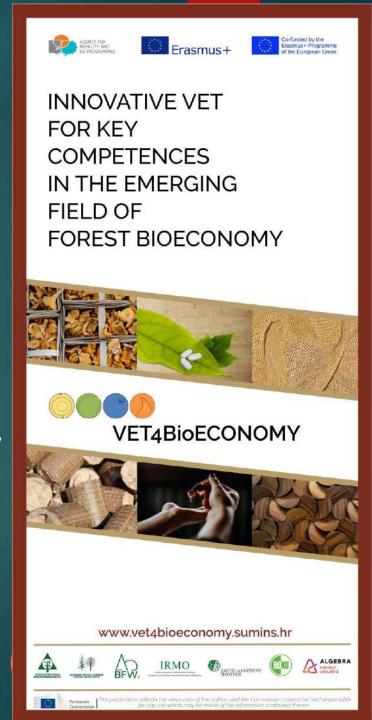






Overall goal of the Project

- Is to contribute to the enhancement of the employability of (young) forestry professionals by developing a new training program on forest-based bioeconomy, that has been missing so far in project countries.
- ► That training program should be innovative and modern for which the new curriculum need to be developed and according to the curriculum the e-learning course content with all needed learning and multimedia materials about forest-based bioeconomy, was developed.
- ▶ We aimed to different groups of users meaning not only forestry and wood processing professionals, but also pupils and students who are interested in new ways of using the traditional materials and to use of innovation in starting the new business related to bioeconomy.
- ► The regional and local governments' (economy departments), chambers of commerce, chambers of entrepreneurs, chambers of forestry and wood processing engineers whose mission is providing education and professional training to their members were targeted as well.



Outputs and tasks

Project outputs are **C** – **training activities**

- C1 – transnational training activities

Intellectual outputs – IO1 – curriculum

- IO2 – e-course content, e-course materials

E-course materials on Moodle platform

- workshop on multimedia materials development

Piloting of the e-course – in partner countries (30 participants)

- Evaluation of the course

Dissemination activities and materials – project web page

https://vet4bioeconomy.sumins.hr, face book, linked in, twitter, youtube

- 1st brochure on project objectives
- 2nd brochure on e-course content

Project management TNPM – Transnational project meetings

- 4 meetings 3 physical and one virtual due to Covid-19
- 23 virtual Skype and Zoom meetings











TNP Meetings

On kick-off or **1st TNPM** partners get an overview of project activities, financial and contractual obligations and future plan. Zagreb 5/10/2018.





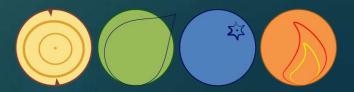


SFI hosted our **2nd TNPM** on 5/6/2019 in Ljubljana with the main goal to discuss the draft curriculum on forest based bioeconomy and the work plan for the next intellectual output – e-course on forest based bioeconomy.



3rd TNPM was organized in Zagreb 21-22/11/2019 where partners discussed and elarn on multimedia material development.

4th TNPM virtual meeting on 31st of August 2020. The meeting hosted by Wolfgang Engl (BFW) gathered partners to discuss e-course status.



The transnational training event (C1) on forest bioeconomy held in Vienna from 4-8.3.2019.



During the event, participants gained a comprehensive knowledge in forest bioeconomy –its potential, political framework, forest sustainability indicators in the new light of forest bioeconomy and the importance of innovation in forest bioeconomy.

On the excursion in Tulln, participants had an opportunity to get an insight into the new products derived from wood, such as isolation material, food packaging material, construction material and toys made of wood-plastic composition and much more.

After this event partners will be able to use gained knowledge in preparation of curriculum and future elearning course on forest bioeconomy, tailor-made for forestry professionals, forest owners and other forestry-related stakeholders.

Future filmmakers in the production of the VET4BioECONOMY – workshop held in Zagreb 21-22.11.2019.

During the first day of the workshop participants were learning how to use and produce in the e-learning platform-Moodle, while the second day was oriented towards multimedia production, video recording and editing in Screencast-o-matic and other tools such as H5P.







Outputs and tasks

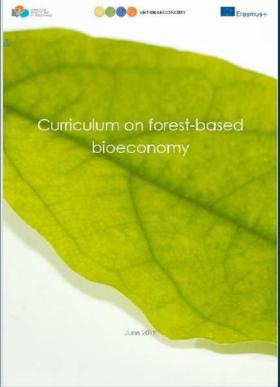
1st intellectual output -IO1: New curriculum for forest bioeconomy specialist/expert in four languages

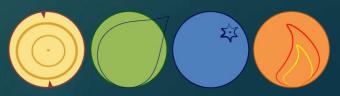
Curriculum for forest bioeconomy specialist training in English with translation of the curriculum into local languages



2nd intellectual output –IO2: content of the e-course in forest bioeconomy in 4 languages for future forest bioeconomy specialists

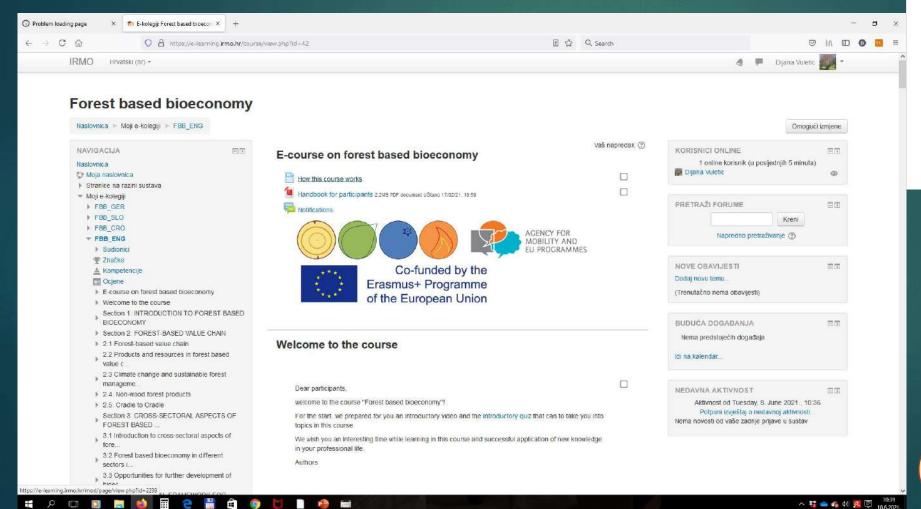
Learning and teaching materials in form of texts, pictures, diagrams, etc. in four languages with development of multimedia materials and building the whole ecourse on Moodle platform





E-course

All materials harmonized on 4 languages and placed on Moodle platform In addition each country places some country specific material newly developed for this project and mainly realted to best practices.









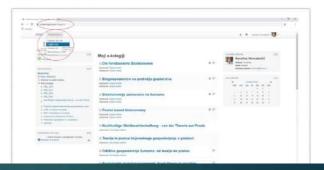
Introduction

The purpose of the Handbook is to provide guidance how to use Learning Management System LMS, how to access e-courses published in LMS, how to use forum, solve quizzes and how to monitor personal progress at a user profile.

Erasmus+ project partners created an online course "Forest based bioeconomy" and published online to be publicly available. Any interested person can participate. The only request is to have an account, which can be self-created on a e-learning platform.

Main pa

The address of a LMS is <u>e-learning.irmo.hr</u>. User face can be in different languages, we will choose English from a dropdown menu.



Handbook explaining how to use the Moodle and follow the course aslo developed on all four languages as part of the ecourse.



Piloting, participants and future use

- The e-course was piloted in all partnering countries by 10 to 15 students.
- ► We receive only positive reflections
- Contacted teachers in some professional high schools found it very usefull as a addition to the regular program.
- Contacted professors on Faculty of forestry and wood technology University of Zagreb also found it useful and interesting to widen the knowledge for interested students, not as regular part but in form of seminar.
- Croatian Chamber of Forestry and Wood Technology Engineeres will consider to include the e-course as part of the professional training for the members.
- Croatian Association of Private Forest Owners also find the e-course interesting for the members.
- Austrian BFW partner will use the course in they future work in training centre.
- BOKU will use it in teaching as aditional material for interested students.
- ▶ BOKU is searching for the options to integrate it in the European master program (Erasmus Mundus European Forestry)
- Slovenia Forest Service will use e learning as a part of a standard training program for employees, especially apprentices

Experiences

- ► The project represents innovative ways of cooperating among different partners from different countries.
- ► Has a good and harmonized combination of research, adult education, forest management and multimedia development.
- ► It is highly multidisciplinary, and it is international but still bearing strong regional characteristics concerning that partner countries are neighbours.
- Still the bio-economy and forest based bio-economy is not on the same level of development which was used as aset for knowledge transfer and exchange.
- Exchange of knowledge and training was done for the project staff in new fields like professional training, adult education, e-learning and multimedia material develoment and its' use.

Experiences

- We used multimedia materials to enable fast learning with more interesting and interactive materials.
- ▶ Special role in that kind of learning have best practices examples as they show what is possible and what already exists on working examples showed by real acters.
- ► E-course can be taken as a whole but also in part in relation to previous knowledge and interest of the student, still ofering revards in form of badges for each finished part.
- Our project is selected as best practice in VET and professional training by H2020 project ROSEWOOD 4.0 and presented on their workshop to larger audience.
- ▶ It was continuation of previous successful cooperation, and we hope that it will not stop here.

Thank you

Onbehalf of whole project team

