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TECHNODIVERSITY: HARMONISING EUROPEAN EDUCATION IN FOREST ENGINEERING BY IMPLEMENTING AN E-LEARNING PLATFORM **TO SUPPORT ADAPTATION AND EVALUATION OF FOREST OPERATIONS**

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Faculty of Forestry and Wood Technology University of Zagreb is included in an Erasmus+ programme Action Type KA220-HED – Cooperation partnerships in higher education together with seven other European institutions:

- Dresden University of Technology, Germany (leader), prof. Jöern Erler, PhD, Christina Spirrow, M.A. and Clara Bade, BSc
- Poznań University of Life Sciences, Poland, prof. Piotr S. Mederski, PhD
- National Research Council, Italy, Raffaele Spinelli, PhD and Marco Simonetti, MSc
- Transilvania University of Braşov, Romania, prof. Stelian A. Borz, PhD
- University of Natural Resources and Life Sciences, Austria, prof. Karl Stampfer, PhD
- Swedish University of Agricultural Sciences, Sweden, prof. Ola Lindroos, PhD and Mikael Lundbäck, PhD
- Faculty of Forestry and Wood Technology University of Zagreb, Croatia, assist. prof. Andreja Đuka, PhD
- Technological Institute FCBA, France, Nathalie Mionetto, PhD and Philippe Ruch, forest research engineer

The Technodiversity project addresses technological diversity by summarising technological knowledge and increasing the sensitivity for diversity in forest engineering. The goal of the project is to connect and show the existing knowledge in forest operations of various European countries. It will function as a span between different regions of Europe as well as between different generations of students, practitioners, scientists and academics. An e-learning course will be installed to support mobility for students on master's level of education, suitable for implementation into forestry-based curricula. The course will be recognized by forest faculties in Europe and integrated with 10 ECTS in the forest master curriculum. In addition, it could also be used as a further training unit for forestry practitioners.

Lectures and a glossary with facts and methods will be the knowledge base, where the most typical technological subprocesses for wood harvesting will be presented and assessed. Tutorials will explain how to structure and express different technological processes under ecological, economic, and societal criteria under each specific condition. For each sub process a scientific audio-visual will show the tool or machine/vehicle, its use and the effects on the environment and the workers, its expected productivity and the resulting costs. A platform will ensure organisation and

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Fig. 1 Harvesting operations in Italy



Fig. 2 Harvesting operations in Croatia and Sweden

coordination of complex information. In an intuitive, modular way, users will be able to identify those sub-processes that fit their local conditions, and combine them into a complete work process. User will get suitable information to assess the selected process and to find the optimal solutions for their individual needs and objectives.