



WoodWisdom-Net

WOODVALUE: Value creation in wood supply chains

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SIXTH FRAMEWORK
PROGRAMME



Background



- In wood supply chain one raw material source produces a number of separate successive products
- One wood supply chain "compete" with another
- It is expected that there will be more competition on wood raw material (energy wood, bio refinery)
- Tools and methods are needed to calculate and compare costs and value creation in the wood supply chains

Project Objectives and Main Tasks

- A standardized methodology at European level to define, measure and value the efficiency and profitability of key wood supply chains (e.g. sawmilling, pulping, energy wood)
- Methods to optimize these wood allocation problems

Project Objectives and Main Tasks

- WP1) Definition and quantification of the most important wood characteristics and methods to convert wood information on wood properties to log grades or value indices
- WP2) Methodology to calculate process costs and revenues of the most important wood industry branches
- WP3) Identification of costs and cost modeling of logistic processes in key wood supply chains
- WP4) Development of allocation models and value creation analyses through demonstrating case studies in participating countries



- The Finnish Forest Research Institute (Metla)
- Forstliche Versuchs- und Forschungsanstalt Baden-Wuerttemberg (FVA), Freiburg, Germany
- Fraunhofer-Institut für Fabrikbetrieb und -automatisierung (IFF), Magdeburg, Germany
- Skogforsk, The Forestry Research Institute of Sweden
- Forest Research, Northern Research Station, Scotland, UK
- Forest and Landscape Denmark

- Wood quality modelling
- Work study methods and cost calculation of forest work and transportation
- Logistics
- Business economics
- Optimization of supply chains

Weakness

- Industrial processes (role of industrial partners is crucial)

- UPM-Kymmene Oy, University of Helsinki (FIN)
- Cambium Forstbetriebe, Matthäus Sturm GmbH, Eickelmann GmbH Co. KG, Deutscher Forstunternehmer-Verband, Landesforstbetrieb Sachsen-Anhalt, Microtec (D)
- Södra, SDC (S)
- James Jones & Sons Ltd. (UK)
- Copenhagen Business School (Dk)

- More understanding about wood quality - specific end product - product income - interaction
- Ready-to-use calculation sheets and instructions to apply these calculations in any mill within the partner countries
- Will equip researchers to compare "rivalling" processes and effectiveness of each process in the logistic chain
- Optimization of several wood supply chain

Added Value from Transnational Approach

- Large variety of expertise from several disciplines
- Tools and methods that can be applied in any mill within the partner country