

OPTIMIZATION OF WOOD AND BIOMASS SUPPLY CHAIN - from wood harvesting to manufacturing facility

Project goal: elaboration of guidelines for wood and energy biomass supply chain planning – from wood harvesting and wood hauling to raw material delivery to the production facility

The effect of the project will be methods and tools for planning, organizing and optimization of forest harvesting and wood transportation tasks, as well as exploring the impact of undertaken actions on natural and social environment

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Project implementation will cover the following aspects:

- Planning the location of forest operations (forest harvesting and wood hauling) taking into account technological, incremental, ecological, economic and social aspects
- Influence of forest operations on logistics of raw material delivery to production facilities and development of forest road network
- Impact of wood supply chain on forest contractors and their economic efficiency
- Environmental, incremental and silvicultural consequences of the chosen wood supply variant

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Project beneficiary

- Forest owners and managers
 - IT planning tool; planning of forest operations, road and timber yard networks; economic benefits
- Contractors
 - IT planning tool; optimization of machinery use, increased profitability of operations; facilitating implementation of tasks – logistics of harvesting, hauling and transportation of wood and biomass
- Wood recipients
 - Cumulation of cargo in a small area – logistics of wood and biomass transport; Optimization of wood use
- Local societies – development of entrepreneurship
 - Trade, work places, ...

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So-far declared partners in the project

- Poland
 - Warsaw University of Life Sciences – SGGW, Faculty of Forestry & Faculty of Production Engineering
 - Poznań University of Life Sciences, Faculty of Forestry
- Czech Republic
 - Czech University of Life Sciences, Faculty of Forestry and Wood Technology
- Latvia
 - Latvian Agricultural University, Faculty of Forestry