




Wood Material Science
Research Programme

Presentation of the added-value and main findings from Innovood

Dag Molteberg, Södra Cell

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wood



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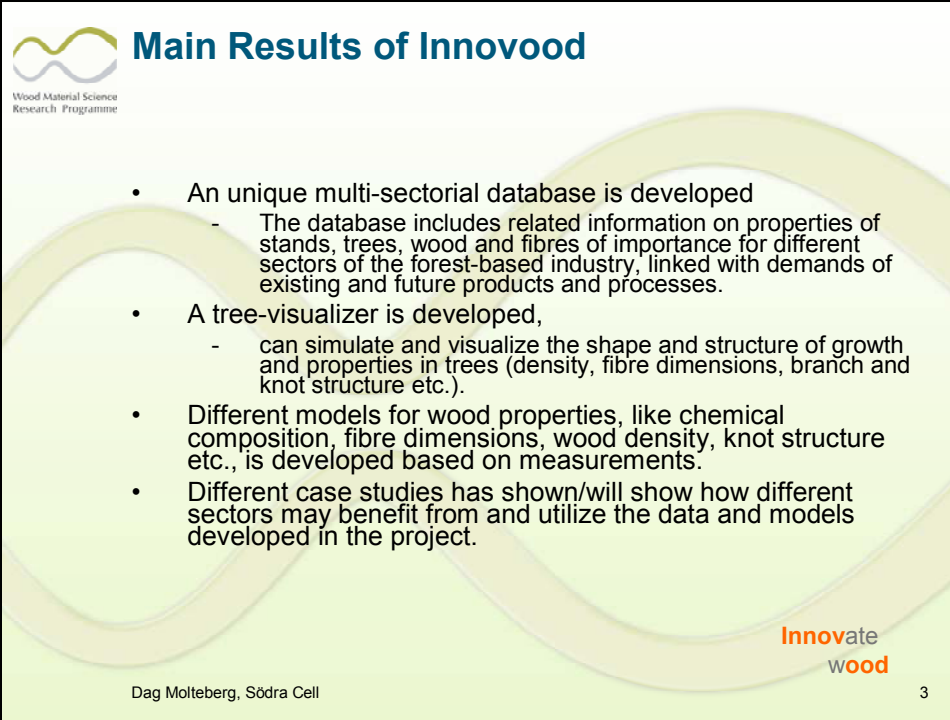
Examples of Added-value of the Finnish-Swedish cooperation between industry and research


- Better understanding of the role of raw material properties in different sectors, which may improve the utilization and increase the value of the common raw material base, shared by several sectors and producers
- Saw mill chips from wood industry is an important raw material for pulp and paper producers. A value for saw mill chips is requested for improved optimization of the raw material use. It is not possible to give a general value, but a layout for simplistic evaluation is worked upon
- Through the project, the partners have had access to methods and equipment of the other partners and have learnt about their potential. The cooperation during the project has brought new ideas and possibilities and has resulted in further developed routines for sampling, modelling, simulation and visualizing of results
- All partners have gained greater insight in other forestry sectors.
- The multi-sectorial database will be a powerful base for continued research and development of the partners in different constellations
- Unfortunately, the contribution of Pergo will not be fulfilled, due to new owners with less belief in R&D. Possible cooperation and added-value between Pergo and the other project partners could therefore not be established.

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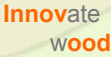
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 **Main Results of Innovood**

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- An unique multi-sectorial database is developed
 - The database includes related information on properties of stands, trees, wood and fibres of importance for different sectors of the forest-based industry, linked with demands of existing and future products and processes.
- A tree-visualizer is developed,
 - can simulate and visualize the shape and structure of growth and properties in trees (density, fibre dimensions, branch and knot structure etc.).
- Different models for wood properties, like chemical composition, fibre dimensions, wood density, knot structure etc., is developed based on measurements.
- Different case studies has shown/will show how different sectors may benefit from and utilize the data and models developed in the project.

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