

Innovate
wood



General introduction to Innovood **Objectives, partners, layout and results**

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Innovate
wood

General project objectives

Full project name

Multi-sectorial database, model system and case studies,
supporting innovative use of wood and fibres

General objectives

Improved **knowledge-base** and new **tools**,
supporting the development and production
of new innovative, eco-efficient products with a high content
of further converted wood or wood fibres





Expected project results

- **Database**
 - with related information about softwood properties of importance for different wood-based industries:
 - + structural and mechanical wood properties
 - + chemical composition
 - + fibre properties
 - + fibre matrix compatibility in composites
- **Integrated model system**
 - + for selection of good wood and fibres for different products
 - + for optimized production
- **Tested tools in case studies** in different industries:
 - Wood components, specialty pulps composite flooring
- **Strengthened innovation system** through networking



Funding

Research program

A project within the Swedish-Finnish Programme "Wood Material Science and Engineering"

Funding

+ VINNOVA

+ TEKES

and a consortium of companies:

+ Heinolan Sahakoneet Oy + Raunion Saha Oy

+ Koskisen Oy + Södra Cell

+ Pergo

+ Vapo Timber Oy

+ Ponsse Oy

Budget

About 1 M€ during 3 years



Innovate Wood **Research partners**



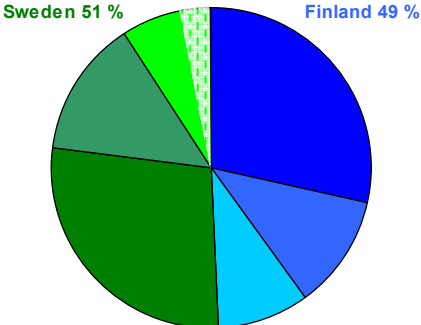
Contact persons

Sven-Olof Lundqvist (coordinator)	STFI-Packforsk
Arto Usenius (vice coordinator)	VTT
Annikki Mäkelä	Univ. Helsinki
Dag Molteberg	Södra Cell
Pekka Saranpää	Metla
-	Pergo

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Innovate Wood **R&D effort within the project according to budgets**

R&D efforts within the Innovood project

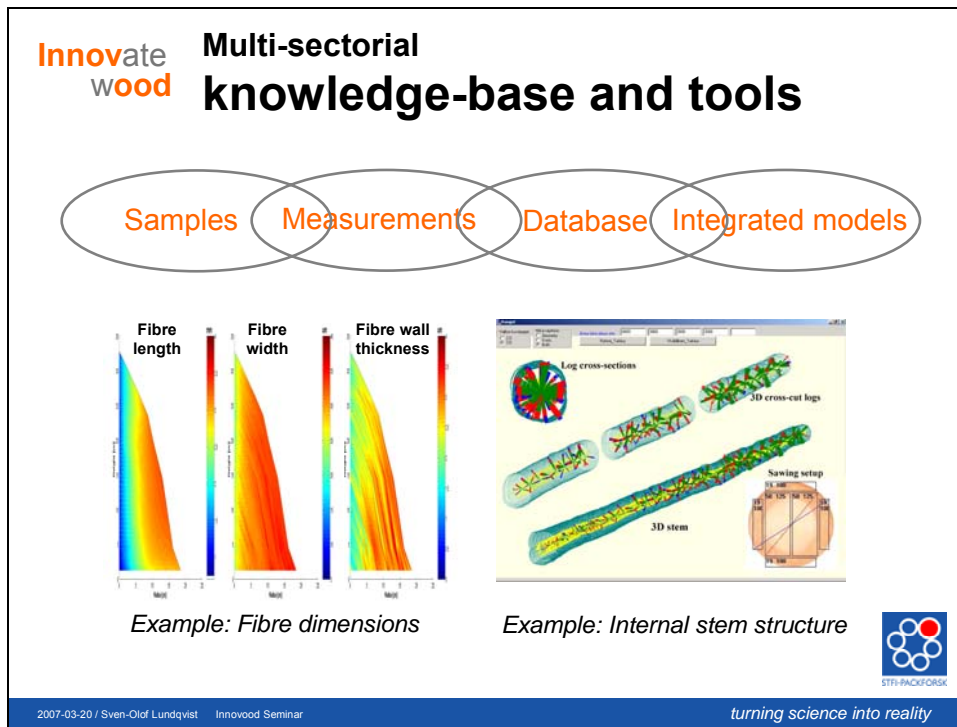
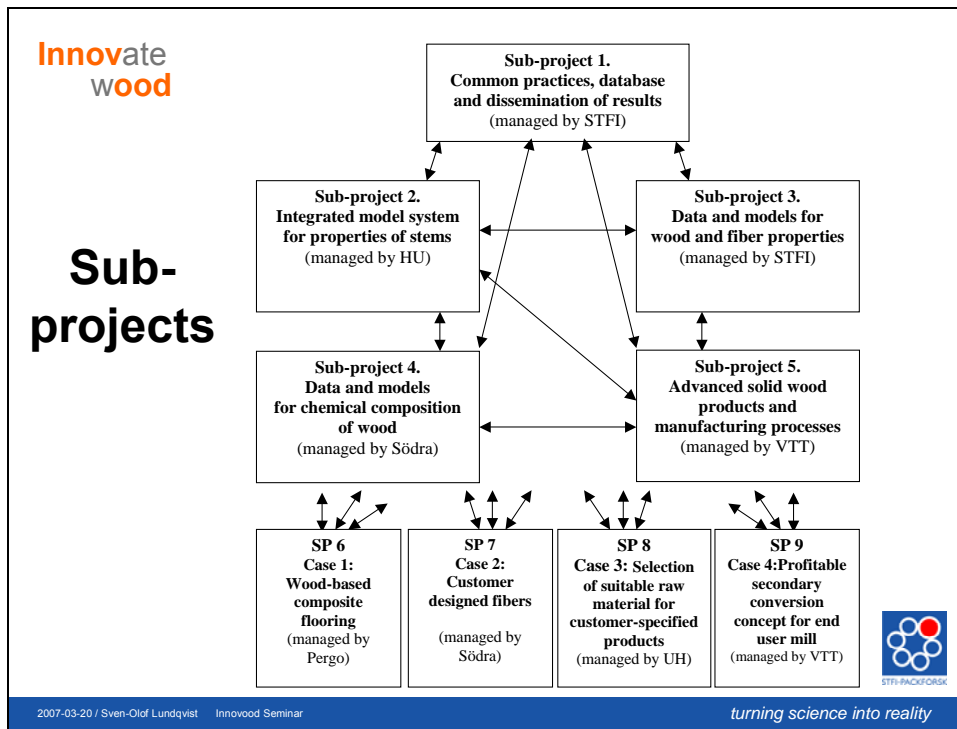


Sweden 51 % Finland 49 %

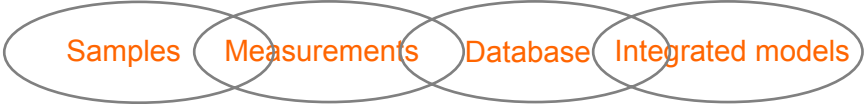
- VTT
- UH
- Metla
- STFI
- Södra
- Pergo

(preliminary figures)

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Innovate wood **Multi-sectorial knowledge-base and tools**




Material properties

- stem shape and structure
- wood properties
- fibre properties
- composite properties
- chemical composition




Products and processes

- optimal allocation
- secondary conversion
- components
- specialty pulps
- fibre composites



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Innovate wood **Case studies**




(Case 1)
Wood-based composite flooring

Case 2
Customer designed fibres

Case 3
Wood selection for specific products

Case 4
Profitable secondary conversion



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Strengthened innovation system

- Strengthened network between Swedish and Finnish research groups in forestry, wood products and pulp and paper
- New contacts with industries in the two countries
- A unique database, which will engage the Innovood partners in continued research, individually and in cooperation
- Common models and simulation tools, which will be further developed
- Several joint publications under preparation
- A number of joint applications submitted for new research projects

