

SP TECHNICAL RESEARCH INSTITUTE OF SWEDEN

2014



**RI
SE**
INSTITUTES



TECHNICAL AREAS



THE BUILT ENVIRONMENT

One of the major challenges within the field of social structure is to use material and building technology that produces minimal CO₂ during production, usage and recycling.

- Million Programme fields must undergo energy streamlining.
- Extensive renovation projects burden society.
- Find cost-effective solutions for low future environmental impact.
- SP creates new knowledge through participating in a range of research projects.



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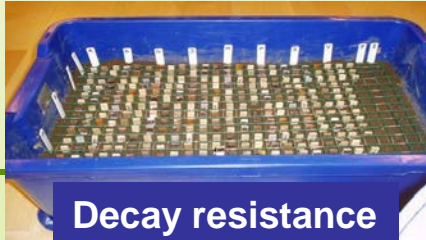
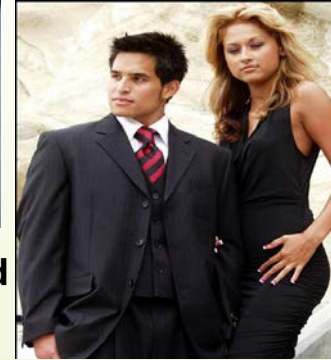
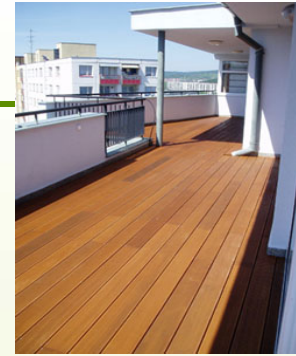
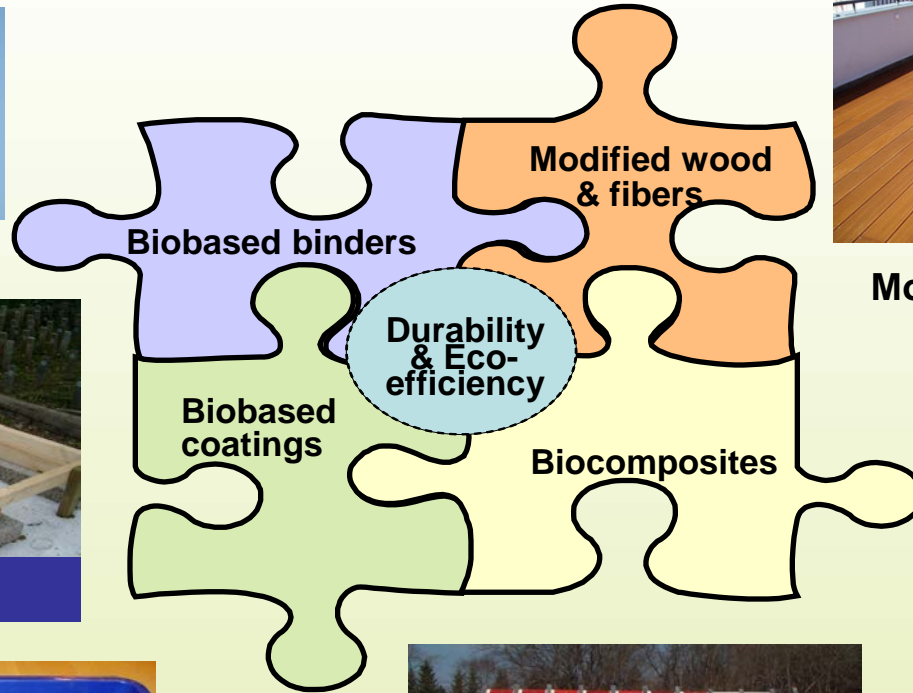




Demosite Borås and Varberg



EcoBuild focus areas





FUTURE FASHION – RESEARCH PROGRAMME FOR SUSTAINABLE FASHION

– Euro 4 million for the sustainable fashion of the future

MISTRA
STIFTELSEN FÖR MILJÖSTRATEGISK FORSKNING

H&M

University of the
Arts London
Chelsea

INNVENTIA

Konstfack
University College of
Arts, Crafts and Design

MONKL



**SOEX
GROUP**



**Copenhagen
Business School**
HANDELSHØJSKOLEN

swerea | IVF



CHALMERS



**MALMÖ
UNIVERSITY**

Stockholms läns landsting



MYRORNA

SÖDRA

KIRAM



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CT SCANNER IMPROVES PROFITABILITY AT SAWMILL

The issue

How can the internal properties of logs be investigated and the sawing alternatives optimised to give the end product the highest possible market value?

SP's involvement

SP has coordinated a project with the aim of developing a fast CT scanner for sawmills, using x-ray technology to produce a three-dimensional image of the internal properties of logs. The scanner also simulates different possible sawing alternatives and shows the sizes and prices for the finished planks.

Results

The new scanner makes it possible to obtain high quality boards, even from logs with serious deficiencies, and to increase the value added by almost 10 percent. The innovation, which is being marketed under the name CT.Log by the project's industrial partner Microtec, has now been implemented at sawmills in the US, Chile and France.

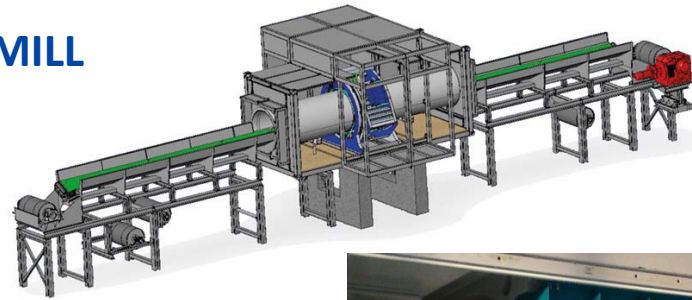


Foto: Microtec



WE CREATE VALUE IN COLLABORATION



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