

Research and Innovation





Money





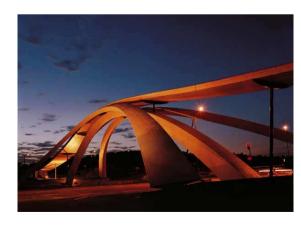


Research





Innovation





Knowledge





Outlook for the European forest-based sector

- ► The interest for renewable materials and green business is bigger than ever
- New competition changes the business
- New opportunities occur and should be taken
- Globalization shows threats and opportunities
- "Innovative" SMEs with origin in universities and institutes or even other sectors will bring new "spirit" into our sector



The European forest-based sector today

- ► < ¼ of the companies introduced significantly improved goods or services in the last years.
- ▶ 1/3 introduced new or significantly improved manufacturing methods or logistics.
- Innovation focuses mainly on cost cutting by incrementally improving production processes.
- Enterprises often seem to lack critical capacity, knowledge and leadership to push innovation – particularly SMEs
- ► All in all: Forest-based sector companies are lagging behind the innovation performance of key competing sectors



How to change?

- Strong CEO leadership is essential for company innovativeness
- Innovation needs to be core part of a company vision and strategy
- Establish a creative climate in the company
- Innovation requests management
- ▶ Develop structures and procedures for innovation (always keep market results in mind)



Innovation Leaders The Real 'Drivers' of Innovation Performance





... and an ardour for sharing their passion with their staff!



Source: J-P. Deschamps, IMD



Identifying innovation leaders They are not necessarily 'innovators' themselves...

...They do not need to come up personally with innovative ideas!





Distinguishing between two main leader types Different types of leaders may be needed at different stages!





Traditional forest industry and new business development

Traditional products



Magazine & Catalogue Papers



Newsprint & Directory Papers



Fine &
Speciality Papers



Label Stock & RFID Tags



Plywood & Timber

New business development



Wood Plastic Composites



Laminates



Smart Labels



Bio-Chemicals



Bio-Fuels

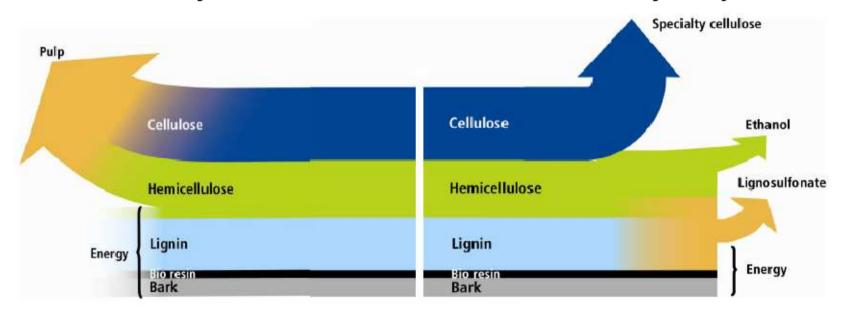
Source: UPM



The same raw material but different end products

The Forest Industry

The Biorefinery Domsjö Fabriker

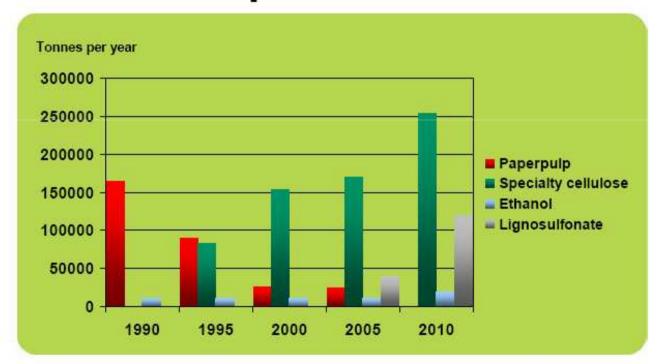


The only thing we have in common with the forest industry is the raw material





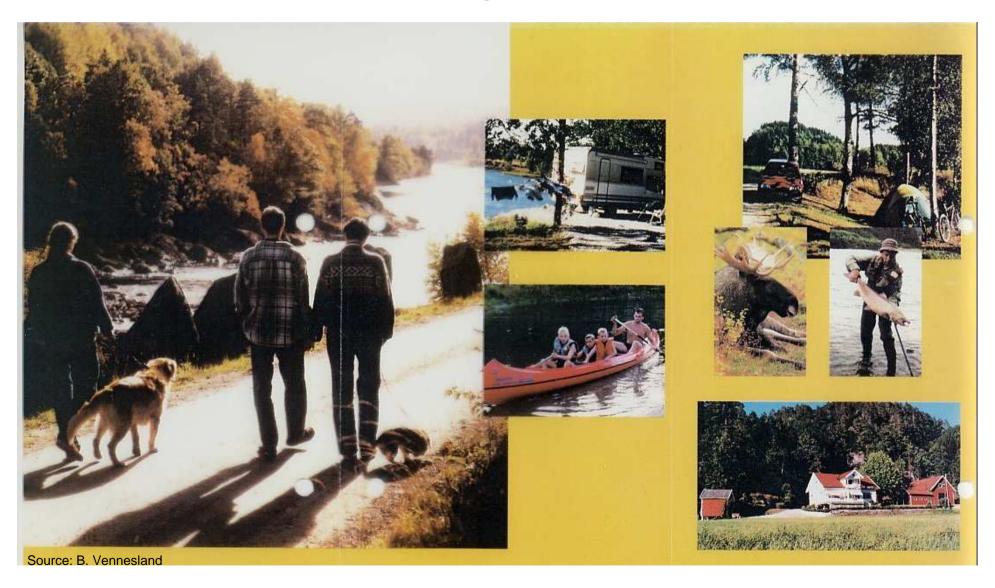
Our product mix







Non-wood forest products and services







SME's in the forest-based sector

- Enterprises are not proactively innovating
- ► Enterprises are more initiating innovation processes:
 - triggered by challenges from the competitors
 - as reactions to demanding users or customers
 - as a reaction to deteriorating competitiveness
- Innovations could be
 - product differentiation
 - successful specialization to niche markets
 - product innovations adapted to organized value chains



How to realise new opportunities?

- Changing the business culture and leadership from supply chain oriented to market oriented
- Put customers and consumers in focus
- ▶ New opportunities exist along the whole value chain
- ► The same for SME as well as for large companies

but

► Innovation is not a "quick fix". Successful innovations are investments, which take time



Improved raw material?

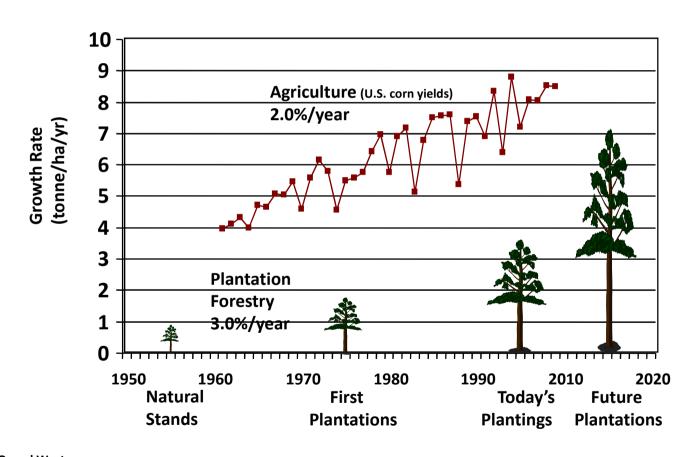


Source: SCA



Technical Innovation will fill the biomass gap?

- Increasing Productivity of Plantations



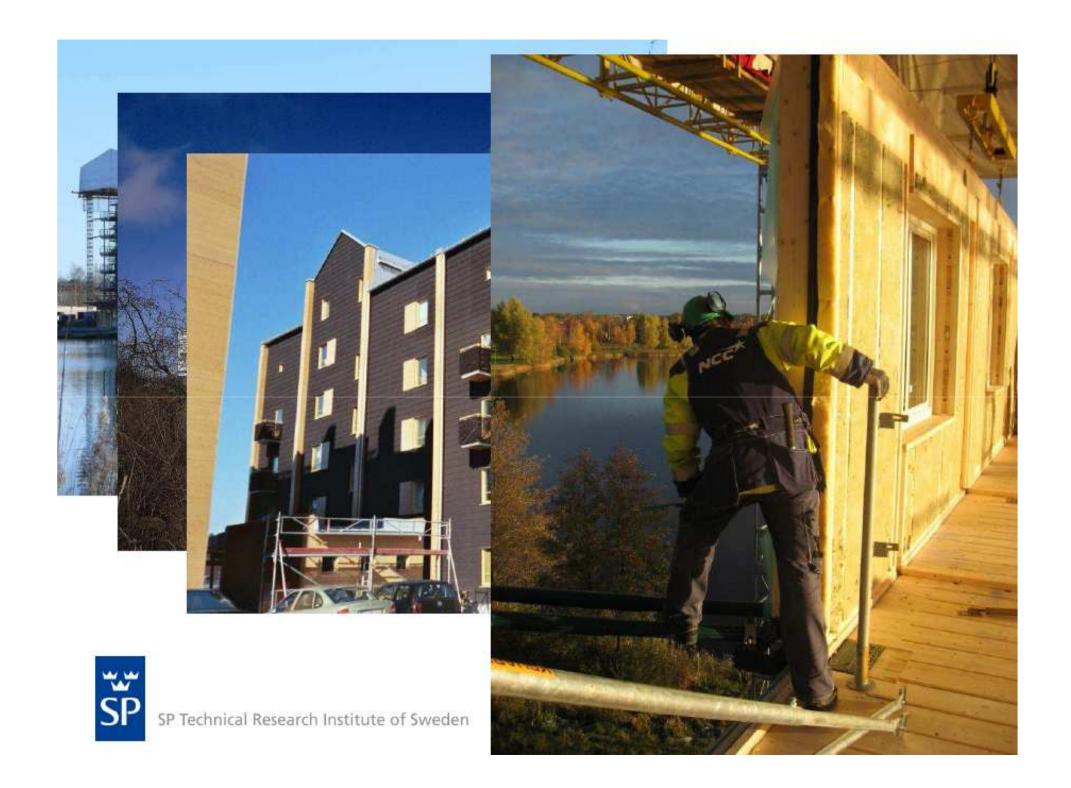
Source: FAO and Westvaco

Increased share of Timber Constructions?





Source: A. Teischinger and R. Stingl



Semi-closed box element made by cross laminated timber and used in construction of 6 floor wooden house in Sundsvall, Sweden.

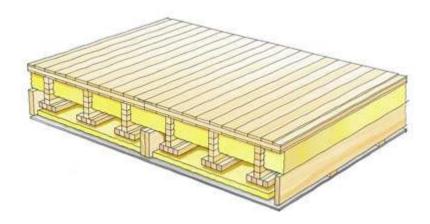
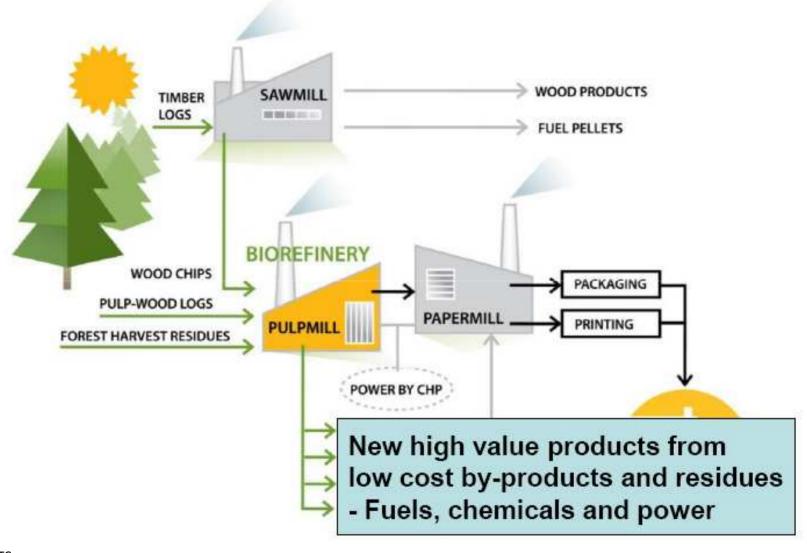


Photo: Martinssons, Sweden





Forest industry 2020 – a biorefinery?



Source: ETC



Transportable Biorefinery Project?

- New forest derived products
 - New business opportunities
- Develop and demonstrate
 - Research integration of the technology within existing forest harvesting operations.



Source: J. Koivisto, Onario, Can.



FTP' ITF conclusions

- Innovation is essential for the competitiveness of the forestbased sector
- Innovation is needed to take advantage of the "green business" trend
- Overall, the sector seems willing to push for new ways and profit from emerging opportunities – but is it also prepared and aware of what is needed to innovate successfully?
- ► There is a need for a mindset that promotes innovation in the forest-based sector.
- ► FTP is encouraged to treat innovation with the same effort and importance as it treats strategic research



FTP next steps

- ► FTP elaborates a road-show for promoting innovation in the forest-based sector; it will address and raise the awareness and attention of the need for change and innovation (both for SMEs and large companies)
- ► FTP's national support groups (NSGs 26 countries) take similar initiatives on national level. These initiatives can include practical guidelines and dialogues with public authorities
- ► FTP together with an engaged NSG will initiate a special tailored pilot project for SME's in the sector
- ► FTP investigate the possibility to connect part of FTP's innovation initiative with the Lead Market initiative





Thank you very much for your attention!

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