Forest based Sector Technology Platform
Liquid Biofuel related Actions

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Europe's forest-based sector – a global leader

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- Forests as resource base
  - 1/3 of Europe's surface
  - Only 5% of global forest area, but 25-30% of world's forest-based products
- 8% of manufacturing added value in the EU
- Between three and four million industrial jobs
- About 16 million private forest owners
- Global technological leadership
- Leading research and business position at international level

Europe's forest-based sector – strengths and challenges

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- Unique strengths:
  - **Sustainability** - providing multiple socio-cultural, economic and environmental benefits
  - Role in mitigating climate change – potential for being **carbon neutral**
- Challenges:
  - Securing availability of raw materials for products and bioenergy while respecting varied forest uses
  - Pursuing development and design of products and services that meet present and future consumer needs
  - Securing innovative lead - continuously expanding knowledge and competence base

Forest-Based Sector Technology Platform

- One of *35* European TP
- Set up in 2004 by European confederations
  - CEI-Bois, CEPI, CEPF (in 2007 EUSTAFOR joined)
- Promotes research and innovation in the sector
- Assembles the entire sector: industry (including SMEs), forest owners, research community – but **industry driven!**
- Partnership approach, both within and across borders
- Role of EU: facilitating and guiding but not leading or owning

Vision 2030

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The European forest-based sector plays a key role in a sustainable society.

It comprises a competitive, knowledge-based industry that fosters the extended use of renewable resources.

It strives to ensure its societal contribution in the context of a bio-based, customer-driven and globally competitive European economy.

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The European Strategic Research Agenda

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Strategic Objectives	Forest-Based Value Chains				
	Forestry	Wood Products	Pulp & Paper Products	Bio-energy	Specialities
1. Development of innovative products for changing markets and customer needs	1-6: Commercialising soft forest values	1-1: *A new generation of functional packaging* 1-4: Living with wood 1-5: Building with wood 1-10: *New generation of composites*	1-1: *A new generation of functional packaging* 1-2: Paper as a partner in communication, education and learning 1-3: Advancing hygiene and health care 1-8: *Pulp, energy and chemicals from wood bio-refinery* 1-10: *New generation of composites*	1-7: Moving Europe with the help of bio-fuels 1-8: *Pulp, energy and chemicals from wood bio-refinery*	1-8: *Pulp, energy and chemicals from wood bio-refinery* 1-9: *"Green" specialty chemicals* 1-10: *New generation of composites*
2. Development of intelligent and efficient manufacturing processes, including reduced energy consumption		2-4: Advanced technologies for primary wood processing 2-5: New manufacturing technologies for wood products	2-1: Reengineering the fibre-based value-chain 2-2: More performance from less inputs in paper products 2-3: *Reducing energy consumption in pulp and paper mills*	2-3: *Reducing energy consumption in pulp and paper mills* 2-6: Technologies to boost heat and power output	
3. Enhancing availability and use of forest biomass for products and energy	3-1: Trees for the future 3-2: *"Tailor-made" wood supply*	3-2: *"Tailor-made" wood supply* 3-4: Recycling wood products - a new material resource	3-2: *"Tailor-made" wood supply* 3-3: Streamlined paper recycling	3-2: *"Tailor-made" wood supply*	3-2: *"Tailor-made" wood supply*
4. Meeting the multifunctional demands on forest resources and their sustainable management	4-1: Forests for multiple needs 4-2: Advancing knowledge on forest ecosystems 4-3: Adapting forestry to climate change				
5. The sector in a societal perspective	5-1: Assessing the overall performance of the sector 5-2: Instruments for good forest-sector governance 5-3: Citizens' perceptions				

Italic = addressing more than one Value Chain

FTP organisation

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FTP news and current activities

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- HLG Chairman
  - Magnus Hall (CEO Holmen)
- Project Director
  - Wilhelm Vorher (Thosca Holz)
- Secretariat
  - Andreas Kleinschmit
    European Forestry House
- Management Team
  - W. Förster (PTS); M. Lehtonen (FFIF); R. Päivinen (EFI); L. Gädda (Chairman AG); C. Konijnendijk (Communication officer); M.Greimel (FHP/NSG Austria)

FTP communication activities

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FTP conferences and events

- 2005: Research Forum, Stockholm, Sweden
  - Innovative & sustainable use of forest resources
- 2006: Conference, Admont, Austria
  - Implementing the SRA
- 2006: Conference, Lahti, Finland
  - Speed-up innovations in sector
- 2007: Conference, Hannover, Germany
  - Lead markets for forest-based sector
- ***20-21 May 2008: Conference in Slovenia***
  - Focus forest-based business, new member states – Potocnik: JTI encouraged

Education and Training Group

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- Set up in 2007
- Representatives of all value chains:
  - Pulp and Paper (working group since autumn 2006)
  - Wood products
  - Forestry
  - Bioenergy and specialities
- Identify education and training needs in forest-based sector
- Promote education and training that looks at the sector as a whole

FTP Project Database

www.ftpdatabase.org

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- Tool for monitoring SRA implementation
- Projects under development and ongoing projects
- Keep track of European FTP projects
- Keep track of national FTP projects as an option
- Facilitates exchange of ideas and information

The database is to become a European 'Information Pool' on research and development, with your help!

Taskforce on FP7 Work Programmes

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- Set up in September 2007
- 7th Framework Programme in focus
- Cooperate and improve contacts with national Programme Committee members
- Improve quality of FP7 proposals from National Support Groups
- Terms of reference:
  - analyse early information on FTP related Work Programmes (WPs)
  - contribute in WP development
  - one representative per NSG

Cooperation with other ETPs

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- Suschem
- Biofuel
- Plant for the future
- European construction
- Manufuture
- Water u.a.m.

- Joint Activities:
- Proposal 2 Call KBBE: CSA for better Coordination of SRAs of relevant ETPs (under negotiation)
- Lead Market Initiative: Sustainable Construction and Biobased Products
- JTI: Biorefinery under construction

Biorefinery Taskforce

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- Focus on biorefinery processes and issues of relevance to the sector
- Prepared report “A Bio-solution to Climate Change”
- Contribution to the set up of a JTI in Biorefinery

National Support Groups

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Established

Under establishment

National Support Groups (NSGs)

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- Implement the FTP's ambitions and activities at country level
- Bring together the forest-based sector in a specific country
  - industry, SMEs, forest owners
  - research community
  - policy-makers and funding agencies
- Develop and use National Research Agendas (NRAs) as main instrument

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National Research Agenda for the forest based Sector in AUSTRIA

The added value of an NRA

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- Chance for national ‘profiling’ within FTP/Europe
- European coordination helps avoid overlaps and generates new knowledge and skills
- National sector benefits and becomes more competitive when the NRA is considered in national and international policies
- National stakeholder coordination leads to joint research of a higher quality
- NRA helps attract talent and technology investment by promoting innovative, knowledge-based R&D

Liquid Biofuel relevant parts of SRA

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- SRA/ FTP

  1-7: Moving Europe with the help of bio-fuels

  1-8: Pulp, energy and chemicals from wood bio- refinery

  2-6: Technologies to boost heat and power output

  3-2: “Tailor made” wood supply

  3-4: Recycling wood products – a new material resource

  4-1: Forests for multiple needs

  5-3: Citizens’ perceptions

Liquid Biofuel relevant parts of NRA

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F 2: Securing the sustainable wood and biomass supply

S 1: Development of a wood based bio-refinery concept

B 1: Optimisation of the raw material distribution for material and energy utilisation

B 3: Advancement of process technologies in the forest based bio-energy sector

B 4: Development of innovative, forest-based bio-energy products

B 5: Development of holistic scenarios, models and solution approaches for the opimised use of forest based raw material

Raising consciousness for the special socio-political significance of the sector

COST Domain Forests, their Products and Services (FPS)

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- FP0602 Biotechnology for lignocellulose biorefineries (L. Viikar; http://viiki.helsinki.fi/CostFP0602)

Thank you!
Thank you!
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