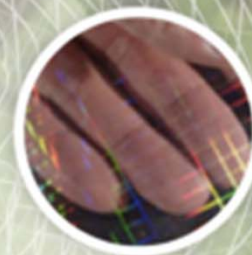


# FTP at XXVI EURAGRI Conference 2012



# FTP and European research cooperation along the forest value-chain

Aligning interests in the bioeconomy and promotion of  
development

XXVI EURAGRI Conference 2012

2<sup>nd</sup> October 2012, Vienna

Johan Elvnert,  
Manager of the Forest-based Sector ETP

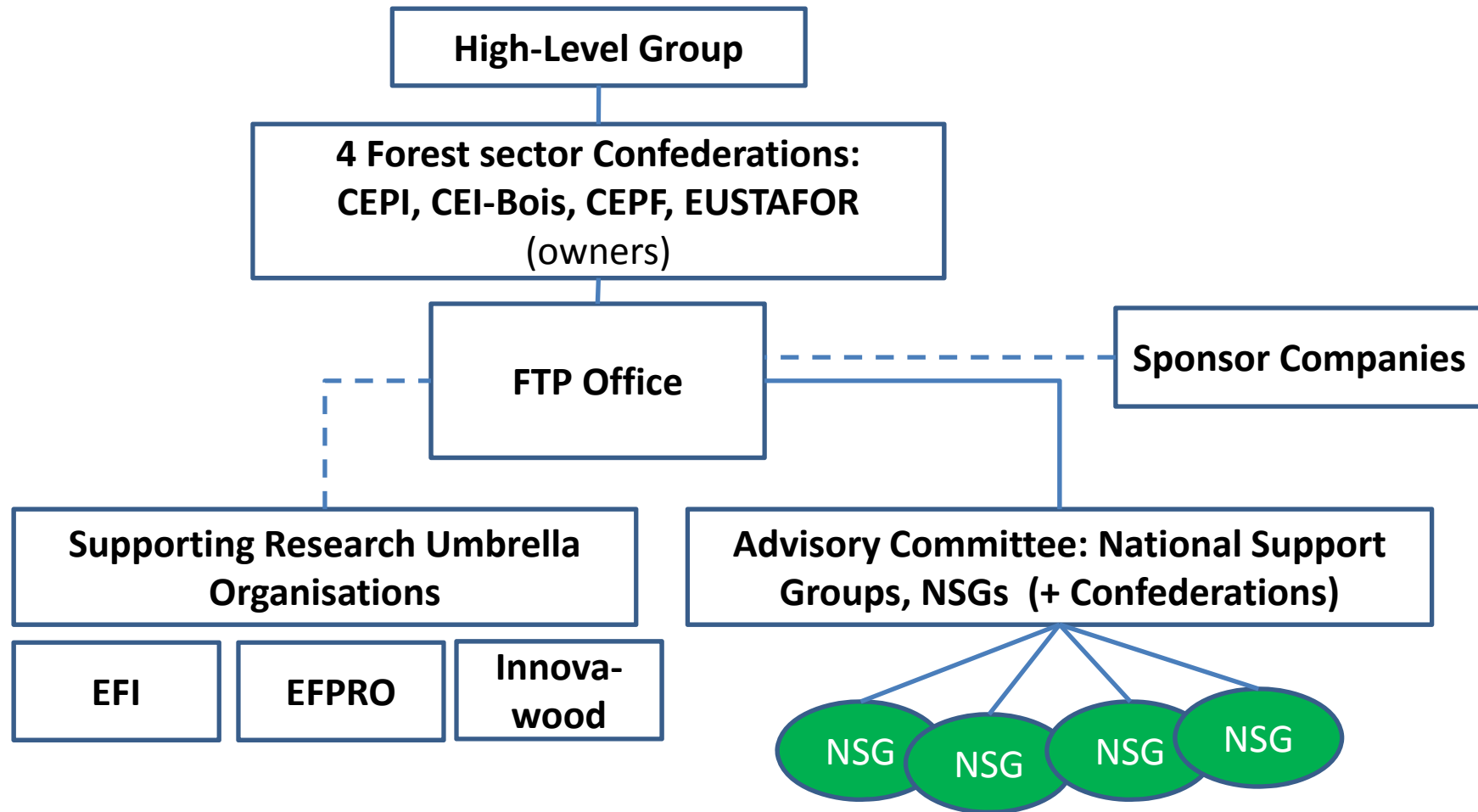
[www.forestplatform.org](http://www.forestplatform.org)

# Forest-based Platform (FTP) main mission:

## Realise the vision of the sector through a Strategic Research Agenda (SRA)

- Being an interface between industry, researchers and policy-makers in setting research funding priorities
- Mobilise a ***Critical Mass of RTD and Innovation Capacity***
- Supporting exploitation and dissemination of results
- Set more ambitious targets for research & innovation
- Reduce research fragmentation through European cooperation

# FTP organisation



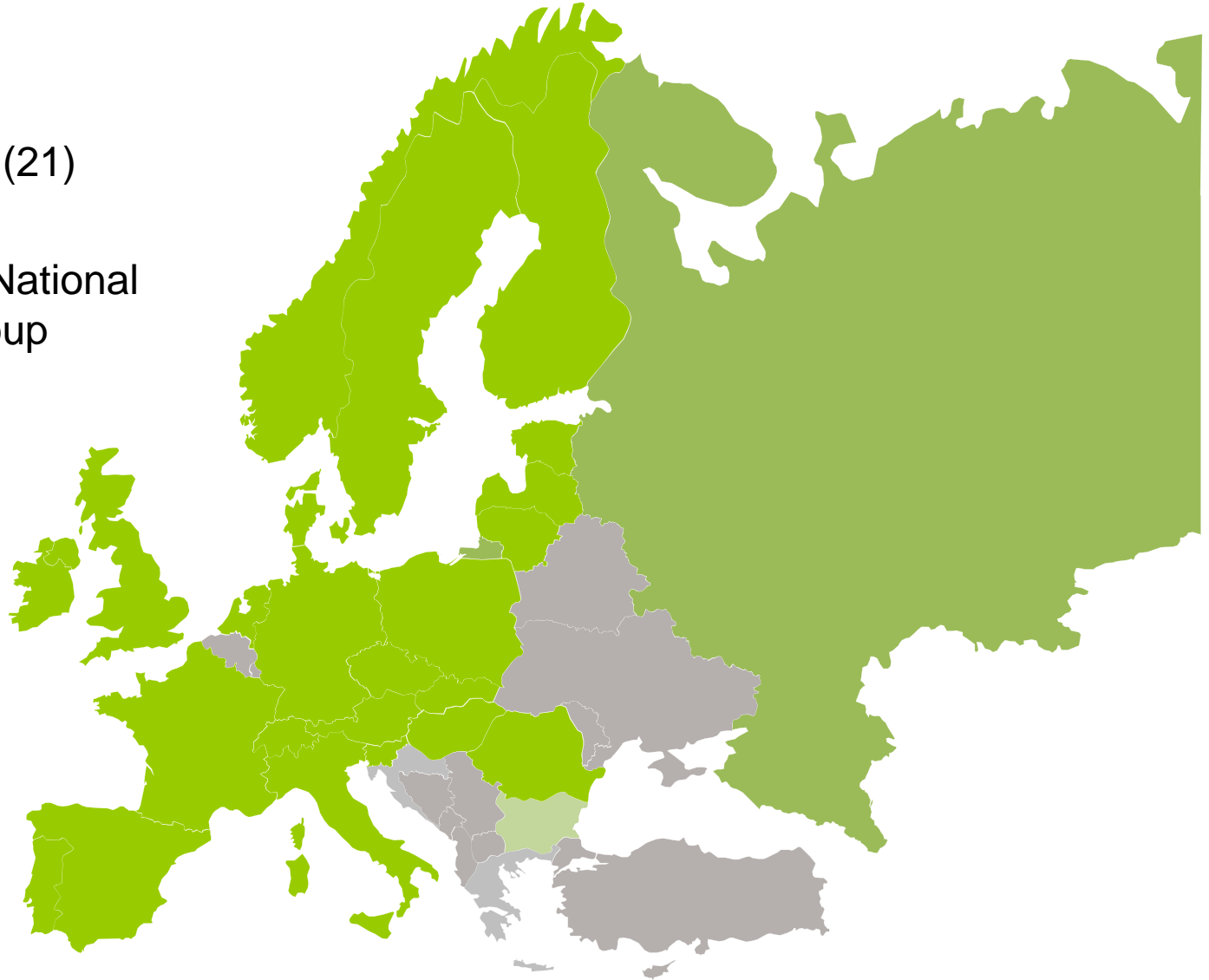
# FTP National Support Groups



Established (21)



Sister ETP/National  
Support Group





# Forest-based sector image?





# Forest-based sector vision?

Kate wears a dress of cotton and wood-fibres



Total world cotton  
demand could be satisfied  
by European forests

# Forest-based sector vision?

## Wood-based carbon-fibre batteries on car surface (SvD 24 Sept 2012)

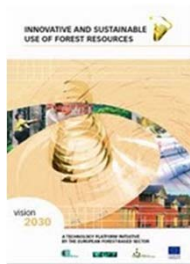




# Renewal of key documents

- Existing documents prepared 2004-2006

Vision



Strategic Research Agenda (SRA)



Main document



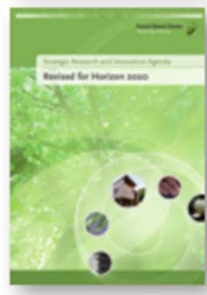
Annex with Research Areas

- Revision of documents started 2011

Vision 2030



Strategic Research & Innovation Agenda (SIRA)



Main document

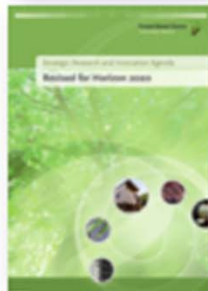


Annex with Research & Innovation Areas

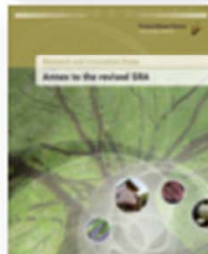
# Hierarchy of key documents



**Vision 2030**  
10 Vision Targets for 2030



**Strategic Research Agenda 2020**  
Main Document - Addressing Horizon 2020



**Strategic Research Agenda 2020 - Annex**  
Strategic Themes and Research & Innovation Areas

1. The Forest-based Sector in a biobased society

2. Responsible management  
of forest resources

3. Creating industrial  
leadership

4. Fulfilling consumer  
needs

# SIRA Structure



## Strategic Research Agenda 2020 - Annex Strategic Themes and Research & Innovation Areas

### 1. The Forest-based Sector in a biobased society

1.1 Monitoring and mitigating climate change

1.2 Citizen's perception of the sector

1.3 Policies and good governance

### 2. Responsible management of forest resources

2.1 Multi-purpose management of forest

2.2 Forest ecology and eco-system services

2.3 Enhanced biomass production

2.4 Secure wood supply, forest operations and logistics

2.5 Cascade use and recycling of materials

### 3. Creating industrial leadership

3.1 Resource efficiency in manufacturing

3.2 Sustainable water management

3.3 Renewable energy solutions

3.4 Biorefinery concepts

3.5 New business models and service concepts

### 4. Fulfilling consumer needs

4.1 Building with wood  
Housing structures

4.2 Indoor wood products and functional furniture

4.3 New bio-based products

4.4 Intelligent packaging solutions

4.5 Hygienic, diagnostic and healthcare products

4.6 Integration of new solutions in printed products





# Strategic Research Agenda 2020

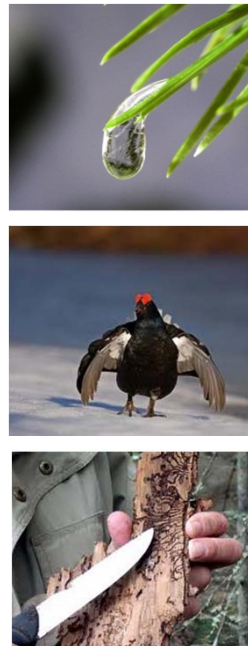
## Annex – Research & Innovation Areas

### Responsible use of forest resources

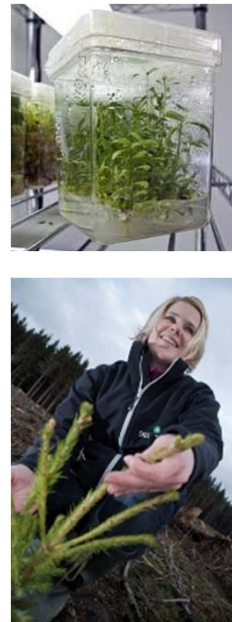
2.1 Multi-purpose use of forests



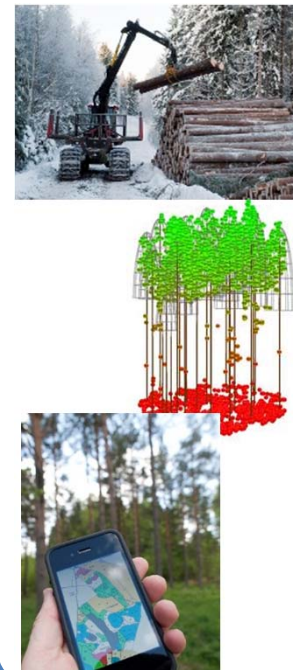
2.2 Forest ecology and eco-system services



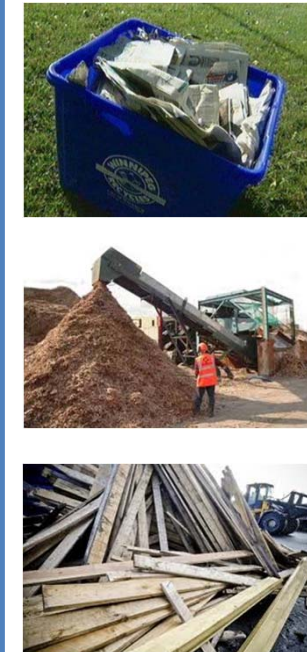
2.3 Enhanced biomass production and climate action



2.4 Forest operations and logistics



2.5 Cascade use and recycling of materials



# Example of public funding schemes more or less aligned with FTP SRA

- **COST Domain FPS**
- **ERA-Net Woodwisdom**
- **Input to Framework Programme 7 and Horizon2020**
- **National research programmes**
- **also activities with JPIs, EIPs, PPPs**

FP7 Coordination Action



# Joint Action of five European Technology Platforms on Biorefineries finished end of 2011.



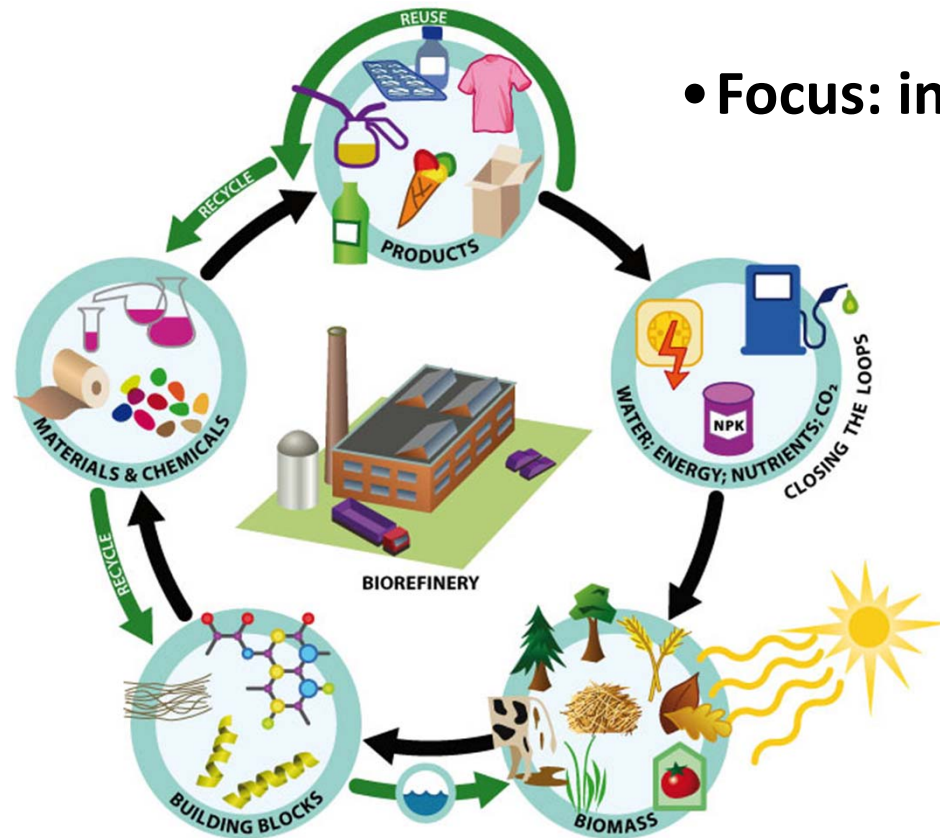
- **Joint European Biorefinery Vision 2030**
- **Joint Strategic Research Roadmap 2020**
- **Policy Recommendations**
- **Mapping Biorefinery Research Projects**

<http://www.star-colibri.eu/>





# PPP Biobased for Growth, or Biobased Industries Initiative



- Focus: integration of value-chains
- Scale: 1+1 Billion Euro
- Period 2014-2020



ABENGOA BIOENERGIA



HOLMEN

DONG  
energy



Cargill



SÖDRA

sappi



BILLERUD

the  
dutch  
biorefinery  
cluster



CLIB  
2021  
CLUSTER  
INDUSTRIELLE  
BIOTECHNOLOGIE



kemira



Coming FTP conference...

## **8th FTP Conference scheduled for 11-14 March 2013 in Barcelona**

### *Inspiring Horizons*

*– A renewed Strategic Research and Innovation  
Agenda for the forest-based Sector*



### **Tentative scheduling**

- **1 day COST-FTP Early Stage Researchers Forum**  
Audience selects two young researchers that will present in FTP conference plenary
- **1,5 days FTP Conference**  
Interesting sessions related to the Strategic Themes of the renewed SIRA and how to realise the Vision Targets
- **½ day Woodwisdom.Net launch ERA-Net Plus Call**



Thank you for your attention!

[www.forestplatform.org](http://www.forestplatform.org)

[Johan.elvnert@forestplatform.org](mailto:Johan.elvnert@forestplatform.org)



Forest-Based Sector  
Technology Platform





# The structure of the Main SIRA reflects EU:s budget Horizon2020

## **The forest-based sector and Scientific Excellence**

### **Improving industrial competitiveness by achieving leadership in Key Enabling Technologies**

1. ICT
2. Nanotechnology
3. Advanced materials
4. Biotechnology
5. Advanced manufacturing and processing technologies
6. Space technology
7. Supporting innovation in SMEs

### **The forest-based sector addressing Societal Challenges**

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture, maritime research, bio-economy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, resource efficiency and raw materials
6. Inclusive, innovative and secure societies







# The Main SIRA link Horizon2020 to the Research and Innovation Areas in SIRA Annex



## Advanced manufacturing and processing technologies

Improving resource efficiency and reducing CO<sub>2</sub> emissions are vital to increase the competitiveness of forest-based industries and expand the market for their products.

Manufacturing and processing technologies that offer significantly reduced energy use and optimised energy management and recovery systems have to be developed for timber and wood harvesting, pulping, stock preparation and drying processes in paper manufacture or wood processing and treatment. Enhanced breakdown, separation and fractionation technologies will allow the selection of suitable material components and optimise resource efficiency. Manufacturing technologies for composite structures, like multi-layered paper and board or wood-based panels, allow the production of functional products using the least raw materials. Closed process cycles, for example water in manufacturing, contribute to resource efficiency and reduced environmental impact. New approaches to the increased recovery of used wood and fibre-based products, together with new information and decision-support systems, enable optimal re-use of recovered material.

New advanced manufacturing technologies in the production of wood-based building solutions have great potential for the development of more energy efficient buildings. These solutions can offer excellent insulation performance, functionalised surfaces and retrofitting potential.

New business models have to be developed to enable the full potential of forest-based materials and products to be realised, in areas such as the co-production of fibres, chemicals and fuels or integration with other industries or economies for networked utilisation of raw materials, residues, heat, water and logistics.

### Highly relevant Research and Innovation Areas:

(Resource efficiency in manufacturing); 3.2 (Sustainable water management); 3.4 (Biorefinery concepts); 4.1 (Building with wood); 4.2 (Indoor wood products and functional furniture)



europaean  
bioplastics

EUROPA BIO™

The European Association for Bioindustries



SusChem  
European Technology Platform For  
SUSTAINABLE CHEMISTRY



Forest-Based Sector  
Technology Platform



copa \* cogeca

european farmers

european agri-cooperatives



Forest-Based Sector  
Technology Platform

