

The Forest-based Sector Technology Platform

Cooperation of regions on innovation in forest management,
use of wood and forest-related services
Bavaria Representation, Brussels

20 May 2014

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The forest-based sector



Forest-based Sector Technology Platform mission

Implementation of the European Strategic Research and Innovation Agenda (SRIA) for the benefit of the forest based sector's actors



- Create opportunities for cooperative research and innovation on a European level
- Set ambitious targets for research & innovation
- Mobilise a critical mass of research & innovation

Renewed Vision 2030

Vision Statement

10 Vision Targets for 2030



Forest-based Sector Vision 2030

- The forest-based sector is a key actor and enabler of the bio-based society
- It has doubled the real added value of its products and services since 2005
- Consumer needs, and the smart and sustainable use of forest resources, are the cornerstones of development
- The sector is bustling with new entrepreneurial activities that create employment and enriches the rural economy

Using innovation as a basis to develop the 'new forest-based sector' includes playing a key role in providing society with renewable energy (heat, power and transport fuels), more sustainable housing and furnishings, replacing petroleum-based plastics in packaging and other applications, clean water technologies, future-oriented communication media, novel medicines and healthy food ingredients as well as alternative European raw materials for production of clothing, to compete with current synthetic fibres and cotton.



The forest-based sector will also continue to provide society with a sustainably managed forest, resilient to climate change. Only legally sourced wood will be used, whether imported or grown in the EU. The sector will significantly reduce CO₂ emissions by providing low carbon alternatives to energy-intensive materials.

Achieving this vision would help the EU in tackling several of the grand societal challenges, and greatly improve the competitiveness of the European forest-based sector. This will require excellence in forest and biomass management, significant investment in research and development, and a strong, innovation-driven industry leadership. The forest-based sector is ready to take the lead!



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Forest-based Sector
Technology Platform

<http://www.forestplatform.org/en/strategic-research-agenda/renewed-ftp-vision-2030>



FTP Vision Target 2:

- In many regions specific forest growth is increasing and management is optimised for additional harvesting possibilities. In other regions, especially in the Mediterranean area, where the impact of climate change is predicted to be severe, creating resilient, stress-tolerant forest is particularly important. In some landscapes the main aim is nature conservation and providing ecosystem services.
- **Bearing in mind the full range of demand and production constraints, harvesting possibilities in Europe have increased by 30% (until 2030), enabling forest owners to manage their forests more efficiently and sustainably.**



Benefits for society?

+120 Million m³ timber harvested each year

+ 5 bn Euro value for forest owners*

Or alternatively*:

+ 24 Mtoe = 20 days of EU:s total petroleum products consumption

+ ca 20 bn Euro value

But if the timber is utilised by the forest-based industries*:

+75 bn Euro in value

* These figures are calculated using theoretical values and trade statistics.



The global challenge

Human civilisation



Energy consumption
25 TW

Photosynthesis



Energy capture
130 TW



Who?

National Funding Agencies

EU research funding

Other sectors and scientific domains



Forest researchers

Forest owners

Customers and technology providers

Forest industry





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

1. The forest-based sector in a biobased society

- 1.1 The performance of the sector in a perspective of global change
- 1.2 Citizens' perception of the sector
- 1.3 Policies and good governance

2. Responsible management of forest resources

- 2.1 Multi-purpose management of forests
- 2.2 Forest ecology and ecosystem services
- 2.3 Enhanced biomass production
- 2.4 Secured wood supply, forest operations and logistics
- 2.5 Cascade use, reuse and recycling systems

3. Creating industrial leadership

- 3.1 Resource efficiency in manufacturing
- 3.2 Renewable energy solutions
- 3.3 Sustainable water stewardship
- 3.4 Biorefinery concepts
- 3.5 New business models and service concepts

4. Fulfilling consumer needs

- 4.1 Building with wood
- 4.2 Indoor environment and functional furniture
- 4.3 New biobased products
- 4.4 Intelligent packaging solutions
- 4.5 Hygienic, diagnostic and healthcare products
- 4.6 Integration of new solutions in printed products

Strategic Theme 2. Responsible management of forest resources

2.1 Multi-purpose management of forests



2.2 Forest ecology and ecosystem services



2.3 Enhanced biomass production



2.4 Secured wood supply, forest operations and logistics



2.5 Cascade use, reuse and recycling systems



- Europe by night!



- Europe by research funding!



Regional Funds and Rural Funds will become important tools

- “Stairway to excellence” Regional Funds and Rural Funds will become important tools for financing research and innovation activities for strengthening the Bioeconomy on National and Regional Level
- FTPs National Support Groups will play shoulder new, important role in the future

...The forest-bioeconomy is moving!




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**Please look up your national FTP
support group on our website:
www.forestplatform.org**

Do not hesitate to contact me on
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Horizon2020 (2014-2020)

I Excellent Science, 22 274 M€

1. The European Research Council; 11 934 M€
2. Future and Emerging Technologies (FET); 2 457 M€
3. Marie Curie actions on skills, training and career development; 5 616 M€
4. European research infrastructures (including e-Infrastructures); 2 267 M€

II Industrial Leadership, 15 507 M€

1. Leadership in enabling and industrial technologies; 12 355 M€
2. Access to risk finance; 2 590 M€ (400% budget increase)
3. Innovation in SMEs; 562 M€

III Societal Challenges, 27 048 M€

1. Health, demographic change and wellbeing; 6 809 M€
2. Food security, sustainable agriculture, maritime research, bio-economy; 3 510 M€
3. Secure, clean and efficient energy; 5 405 M€
4. Smart, green and integrated transport; 5 777 M€
5. Climate action, resource efficiency and raw materials; 2 808 M€
6. Inclusive societies; 1 193 M€
7. Secure societies; 1 544 M€

European Institute of Innovation and Technology (EIT); 2 471