

Perspective on developing successful collaboration ventures

4th ICA Reactors and Deans Forum
Ghent, 24 October 2014

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Forest-Based Sector
Technology Platform



The forest-based bio-society



“European Technology Platforms 2020 – Draft STRATEGY”

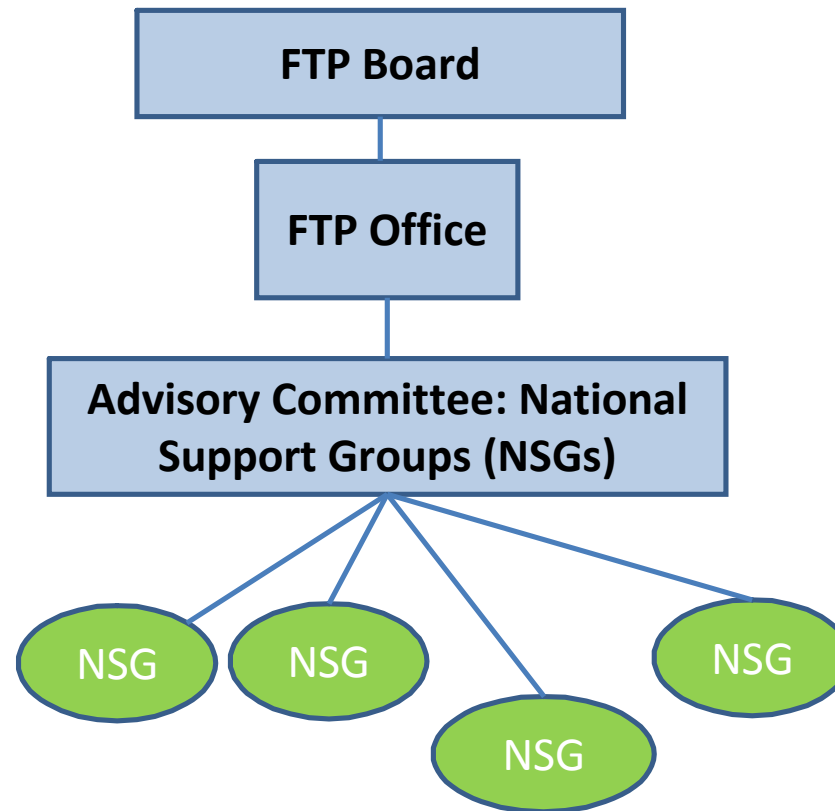
(Extract from EUROPEAN COMMISSION communication, 21 Feb 2013)

- European Technology Platforms are industry*-led stakeholder forums which elaborate strategic research and innovation agendas (SRAs) for action at EU and national level to be supported by both private and public funding.
- European Technology Platforms will be key players in the European innovation ecosystem, helping to turn Europe into an Innovation Union. This will require ETPs to identify the pathway to commercial deployment of research, provide strategic insights into market opportunities, and network with actors across the EU.
- The Commission's proposal for Horizon 2020 specifies the channels of external input for its annual Calls: next to taking into account the input from advisory groups, forward looking activities, public consultations and interactive research and innovation processes, the Commission undertakes to take full account of relevant aspects of the research and innovation agendas established by European Technology Platforms

* (forest owners included)

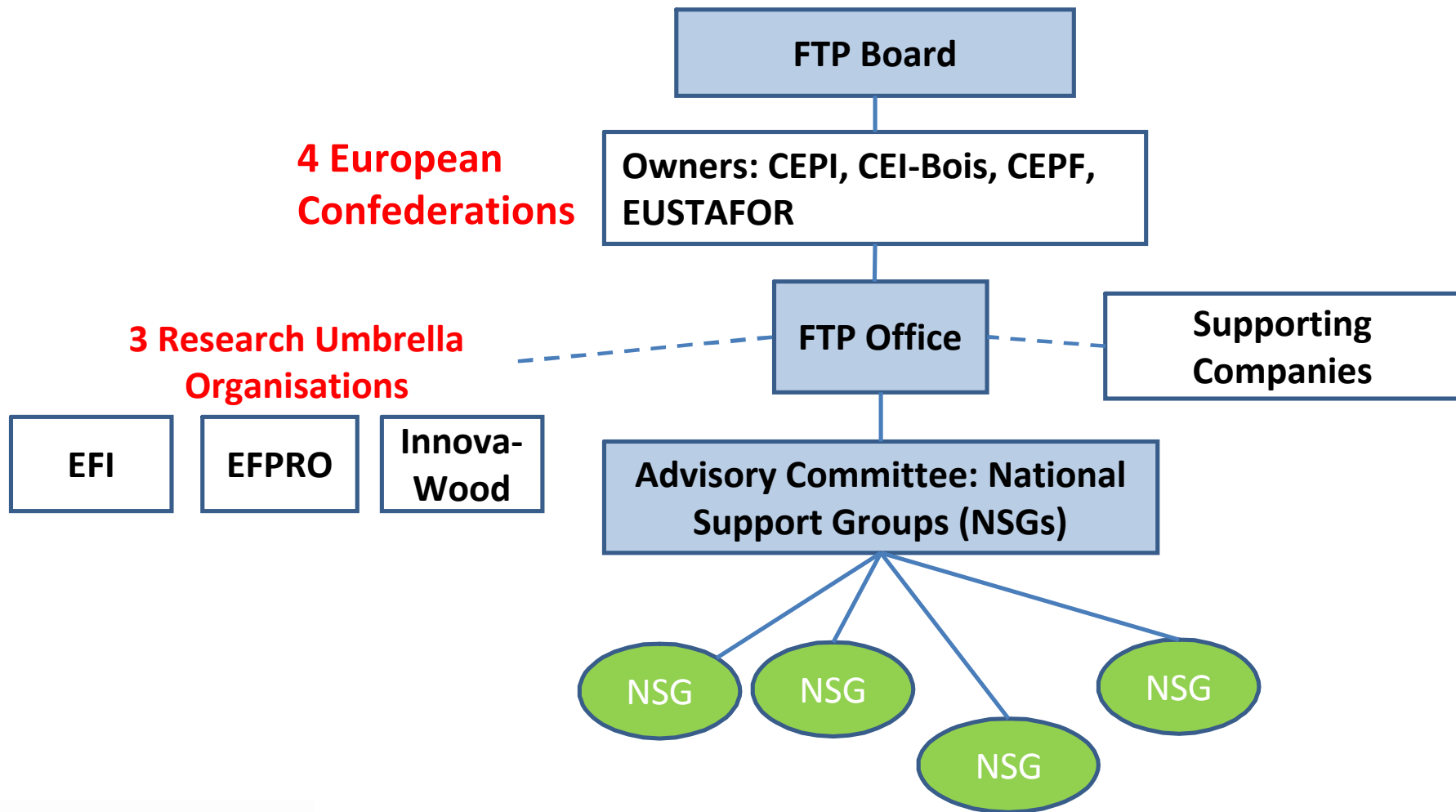


Forest-based Sector ETP Governance



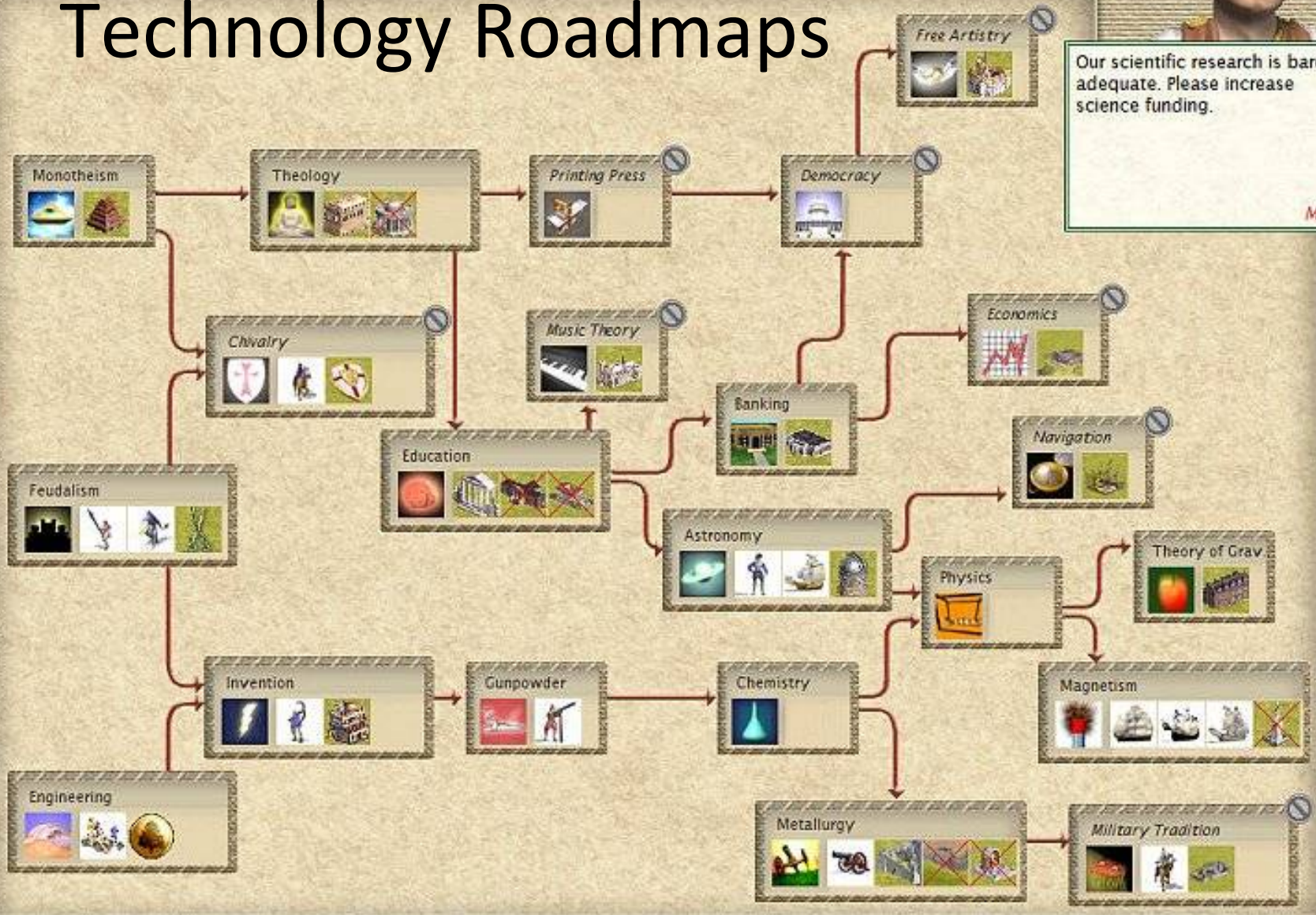
22 National Support Groups

FTP stakeholder network





Technology Roadmaps



Our scientific research is barely adequate. Please increase science funding.

[More](#)



← To Ancient Times

Middle Ages

To Industrial Ages →



How do we control research and innovation processes?

1. What kind of future do I want to happen?
2. What needs to happen to make it happen?
3. I cannot do everything myself, so can I identify those who could help me?
4. Why should they help me?
5. How can we help each other?



Planting the seed to the BioBased Industries JTI

The image shows a screenshot of the Bio-based Industries Consortium website. At the top right, there are two green buttons: "Members Area" and "BIC Partnering". The logo on the left features a stylized green leaf and a blue drop, followed by the text "Bio-based Industries Consortium". Below the logo is a navigation menu with items: "HOME", "ABOUT", "JOIN US", "CALL 2014", "EVENTS", "MEDIA", "CONTACT", and "BBI joint undertaking" (highlighted in orange). The main content area is split into two sections. The left section has a green background with the text "Welcome to the Bio-based Industries Consortium" and "The private partner in the European Public-Private Partnership on Bio-based Industries (BBI)". The right section features a photograph of a golden field with hay bales under a blue sky with clouds. Overlaid on the photo is the text "OUR AIM" and "Develop underutilised potential of agriculture and forestry residues". At the bottom, a green bar contains the word "Highlights" and three small white squares. Below this bar, a white banner reads "Become a member of BIC on 30 October 2014".

Members Area | BIC Partnering

Bio-based Industries Consortium

HOME | ABOUT | JOIN US | CALL 2014 | EVENTS | MEDIA | CONTACT | **BBI joint undertaking**

Welcome to the
Bio-based Industries Consortium
The private partner in the European Public-Private Partnership on Bio-based Industries (BBI).

OUR AIM
Develop underutilised potential of agriculture and forestry residues

Highlights

Become a member of BIC on 30 October 2014



“Strategic Targets for 2020 – Collaboration Initiative on Biorefineries”

Star-COLIBRI Mid-Term Review
meeting 25 November 2010
EFH, Brussels, Belgium



“Star-COLIBRI” short for:

“Strategic Targets for 2020 – Collaboration Initiative on Biorefineries”

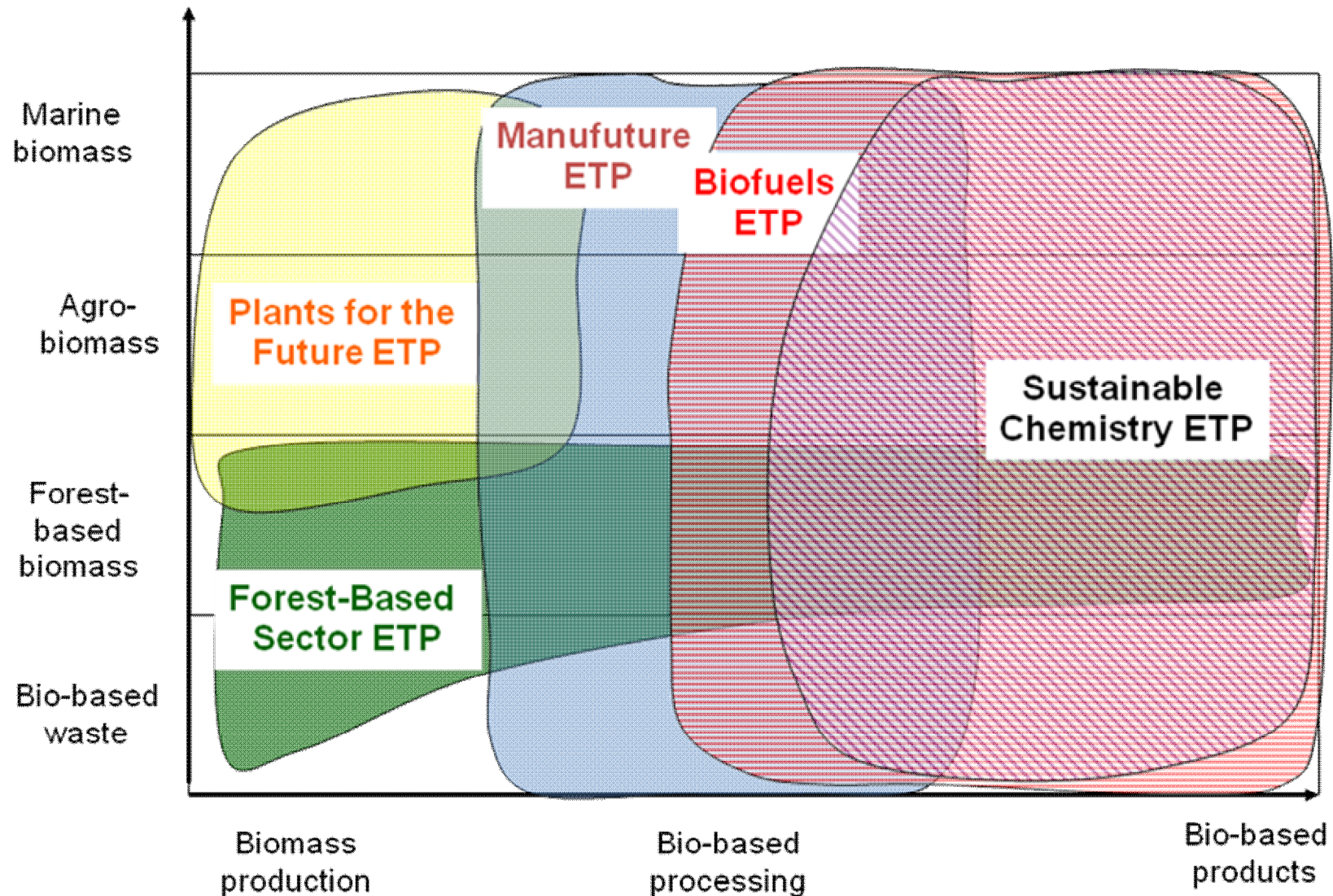
- EU Coordination Action funded under FP7
- Duration: 2 years (November 2009 – October 2011)
- Total Budget: 2.400.000 Euro, EC Contribution: 1.950.000 Euro

11 partners in Star-COLIBRI

1. CEI-Bois (Coordinator)
2. EPSO, Plants for the Future ETP
3. Ebio, Sustainable Chemistry ETP
4. FNR, Biofuels ETP
5. TUD, AET MANUFUTURE sub-ETP
6. UoY, University of York
7. VTT
8. IAR, Association Industries et Agro-Ressources
9. DLO, Wageningen University
10. FTP, Forest-Based Sector ETP
11. DBFZ - German Biomass Research Centre



Star-COLIBRI consortium covering on biomass





Milestones Status Month 12

No	Milestone Name	WPs	Month	Means of verification
1	Background information and biorefinery status, potential and sustainability	WP2	M4	Report D2.1
2	Information sharing methodology and system structure	WP2	M5	Project data system ready to handle information
3	First identification of gaps and overlaps	WP3	M9	Report D3.3
4	Identification of potential Star & Comet projects and Star-Clusters	WP3	M10	Approval of Report D3.4
5	Establishing the first Star-Cluster	WP4	M12	Signing of a StarCluster MoU or similar intent to collaborate
6	A European 2030 vision for biorefineries	WP3	M14	Deliverable D3.5
7	Expert Forum Conference on European BR	WP5	M18	Deliverable D5.2
8	A European BR Strategic Research Road Map for 2020	WP3	M22	Deliverable D3.8
9	Recommendations for a trans-national research programme in the area of Biorefineries	WP4	M22	Deliverable D4.4 Proposed to NFOs of ERA-Nets
10	High-Level Policy Maker Conference on European biorefineries	WP5	M24	Deliverable D5.3 Conference event
11	Final-Term Review	WP1	M25	Final-term reports

Related to StarClusters

Forest-based Sector Technology Platform mission

A European Vision and a Strategic
Research and Innovation Agenda
(SRA)



- 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



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



Example: Vision Target 8

“Wood-based construction in Europe has tripled its market share, from the 2010 level, reaching a turnover of € 200 billion, whilst the overall added value of the woodworking industries has doubled.

Increased value will come from new products and services, as well as more widespread use of energy-saving modular housing structures and functional furniture.”

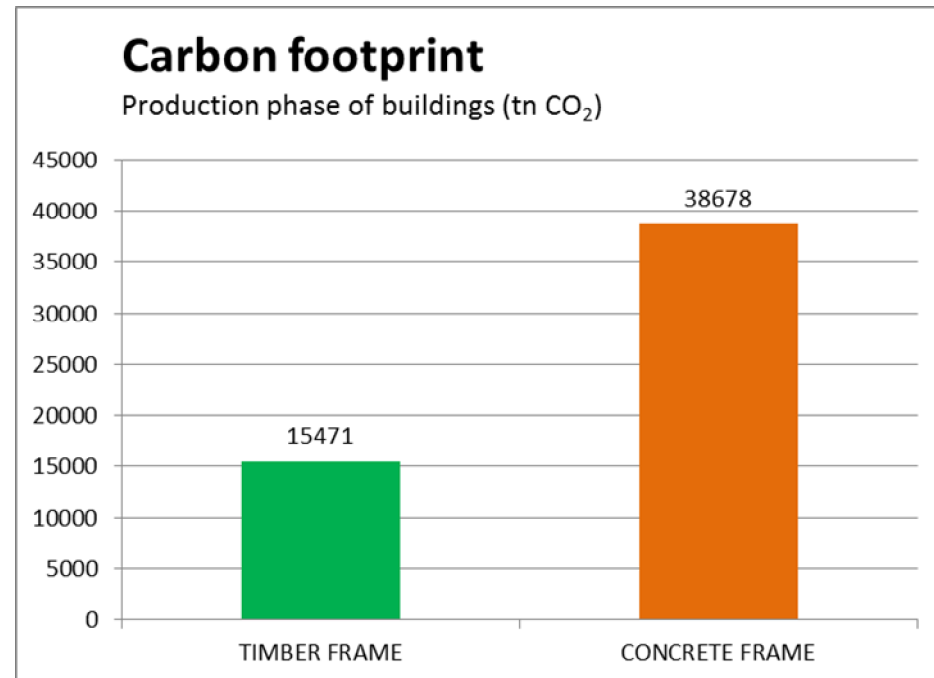
Benefits for society?

60% reduction of CO₂ emissions if the European Parliament in Brussels had been built out of wood

Estimation courtesy of: Matti Kuitinen, Architect and Research Manager, Aalto University



Total floor area of the project	411 000 m²
Number of buildings	5
Number of floors above ground	18
Number of floors below ground	5
Above ground floor area	370 000 m²
Below ground floor area	41 000 m²



10/30/2014



FTP Vision Target 2:

- “.... 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. “

* 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.



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. Precision is not guaranteed



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

Final perspective: the global challenge

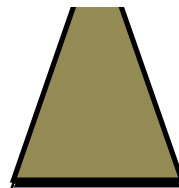
Human civilisation



Photosynthesis



25 TW



Energy capture
130 TW



Thank you for your attention!

www.forestplatform.org

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Final announcement: FTP Joint Partnering Event

- Why? Team up and start the preparation of project proposals to Horizon2020 Calls in 2015
- When? 13 November
- Where? Munich Airport, Munion conference centre
- How? Go to FTP website www.forestplatform.org or send an email to j.escabasse@ptspaper.de