

2010

2015

2020

2025

2030

**Forest-Based Sector
Technology Platform**



Introduction of EU research and FTP

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Effectively, more than 1,000 forest-based sector representatives in some 20 European countries have been actively engaged in the process, which has already

Extensive work has gone into formulating this Strategic Research Agenda (SRA). Stakeholders from all areas including industry, forest owners, researchers and public bodies, have taken an active part in this process with representatives from the European Commission observing.

Effectively, more than 1,000 forest-based sector representatives in some 20 European countries have been actively engaged in the process, which has already

However, we need to ensure that forest-based products are competitive at a global level. Otherwise, the infrastructure and investment will simply not be available to ensure that Europe can enjoy the many other benefits that come from the sector such as economic growth, rural jobs and the sustainable forest

The background of the platform and services that are attractive to customers and consumers. This means improving the performance in existing business segments and creating new ones that take advantage of our unique forest resources. Energy plays an important role here. Indeed, the forest-based sector is already one of the most advanced in terms of generating and using energy from renewable sources.

The Forest-Based Sector Technology Platform (FTP) represents a bold step forward. For the first time, all major European stakeholders have joined forces to establish a vision for the future. With clear strategic objectives, the stakeholders have taken on the task of defining a Strategic Research Agenda (SRA) and making it happen.

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Contents of the presentation

- ▶ What is a Technology Platform
- ▶ What is Forest-Based Sector Technology Platform (FTP)
- ▶ EU support of European research
- ▶ Vision Document and Strategic Research Agenda (SRA)
- ▶ How is FTP organised
- ▶ How is FTP working
- ▶ Conclusions

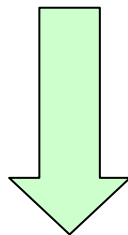
Technology Platform – A new tool

For the 7th R&D Framework Programme, EU Commission has created a new tool, European Technology Platform (ETP), characterised by:

- ▶ Private/public partnership
- ▶ Shared vision
- ▶ Long-term perspective (2030)
- ▶ Major challenges

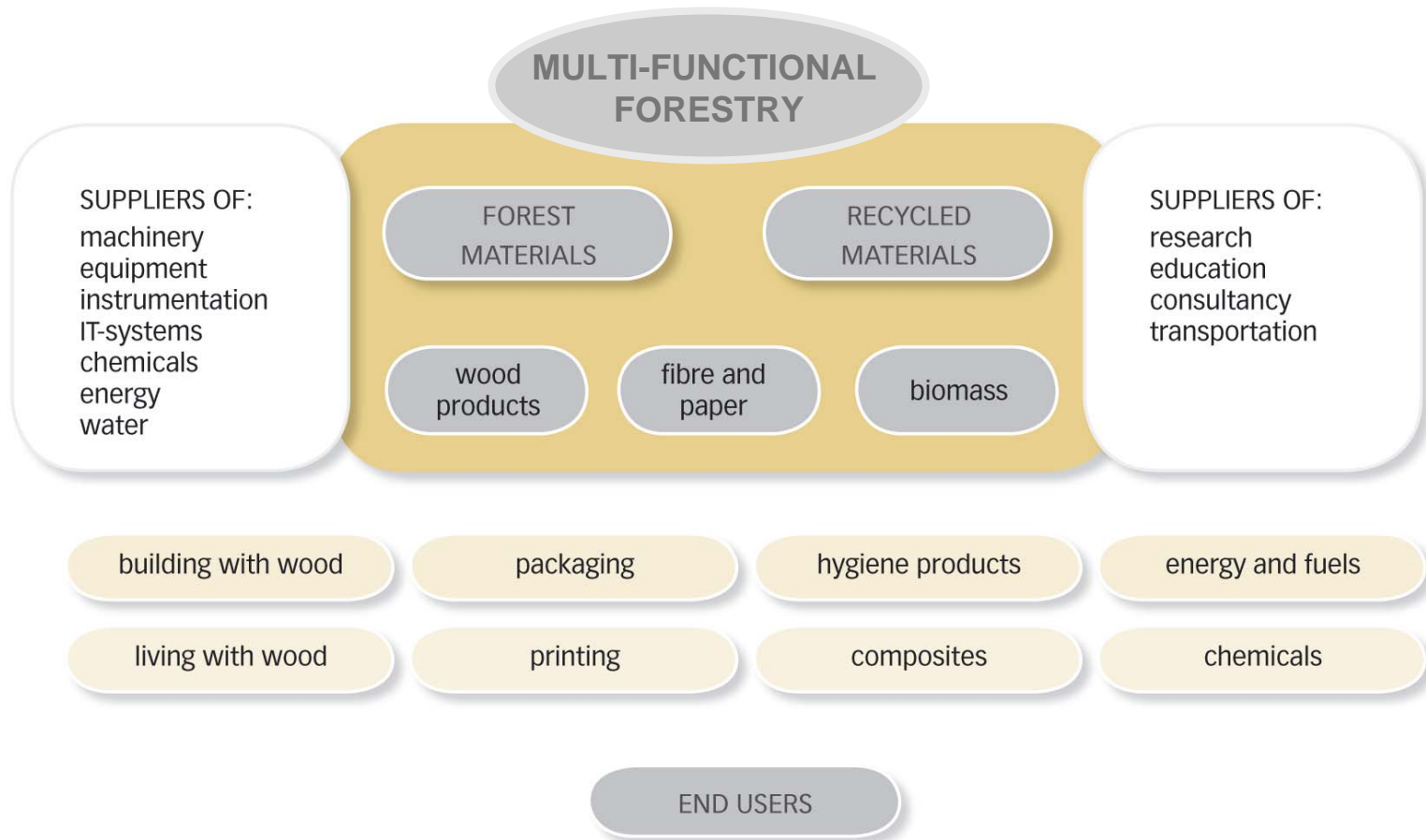
Forest-Based Sector Technology Platform (FTP)

European forest Industries and forest owners mainly through CEI-Bois, CEPI and CEPF started FTP 2004.



- ▶ Mobilisation of key stakeholders
- ▶ Vision Document
- ▶ Strategic Research Agenda
- ▶ Implementation

Areas of Forest-Based Sector



Benefits for Industry and Forest Owners

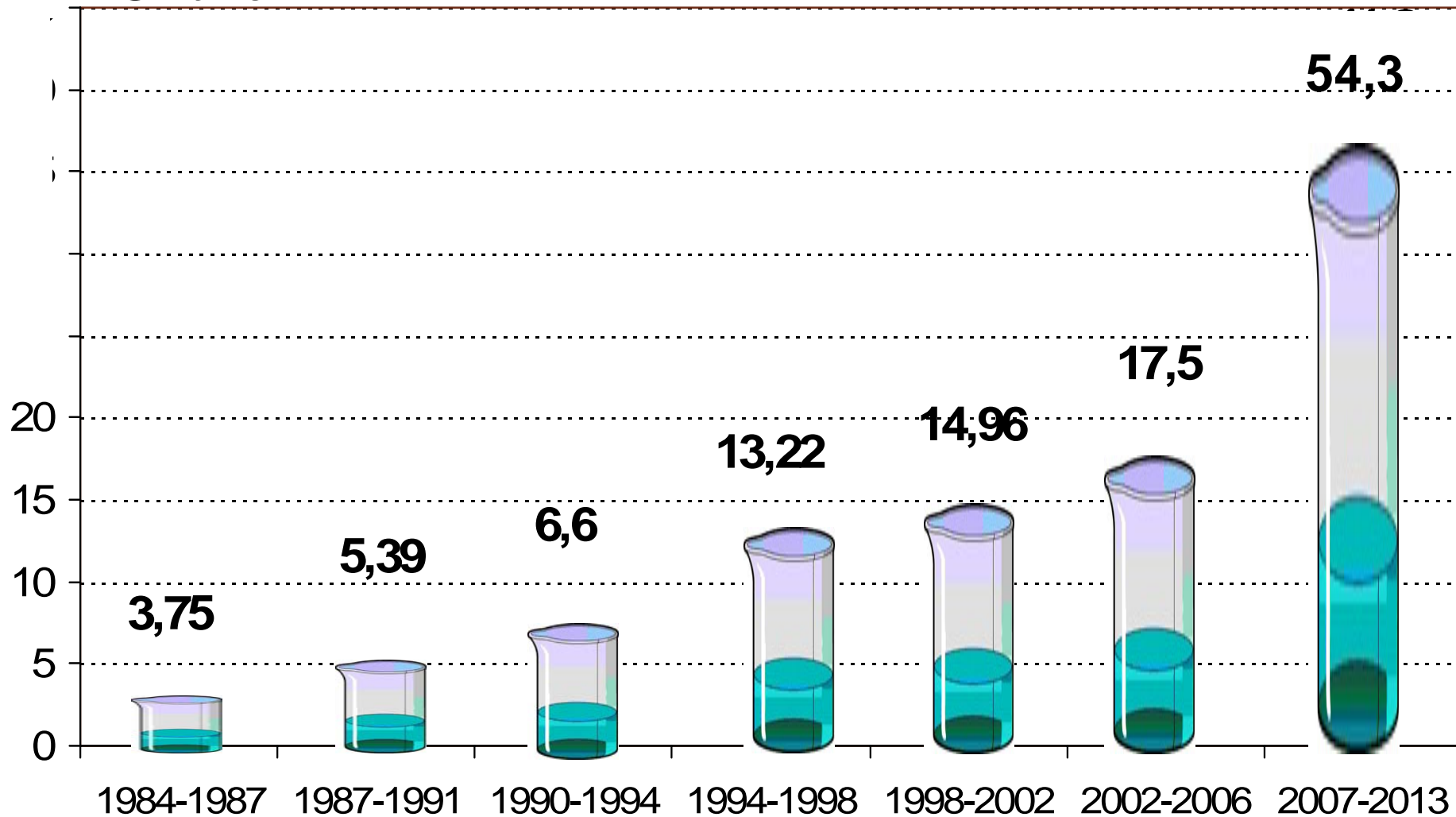
- ▶ Strengthened positions in existing market segments through innovative, value added products and manufacturing.
- ▶ Increased revenues from new business areas.
- ▶ Adequate and balanced supplies of forest raw materials for industrial products and energy.
- ▶ Recognition of the sector as a responsible partner including leadership in sustainability and technology.
- ▶ Improved policy frameworks and regulations resulting from a more effective dialogue with the political sphere.
- ▶ A structured and coordinated European Research Community improves effectiveness and efficiency.

Benefits for the Research Community

- ▶ Recognition of the sector as a responsible partner including leadership in sustainability, technology and research.
- ▶ Stimulated cooperation within, between and along the value chains in the sector.
- ▶ Participation from motivated stakeholders.
- ▶ Research cooperation and funding are facilitated.
- ▶ Support and information services.
- ▶ New customers and talents are attracted.

Growth of Community Research Budget

EUR billion



FP6 Major Forest-Based Sector Projects

	Total budget (M€)	EU-funding (M€)
IP Ecotarget	17,9	10,0
IP Sustainpack	29,7	16,8
IP Eforwood	19,0	12,9

Specific Programmes

Cooperation – Collaborative research

Ideas – Frontier Research

People – Human Potential

Capacities – Research Capacity

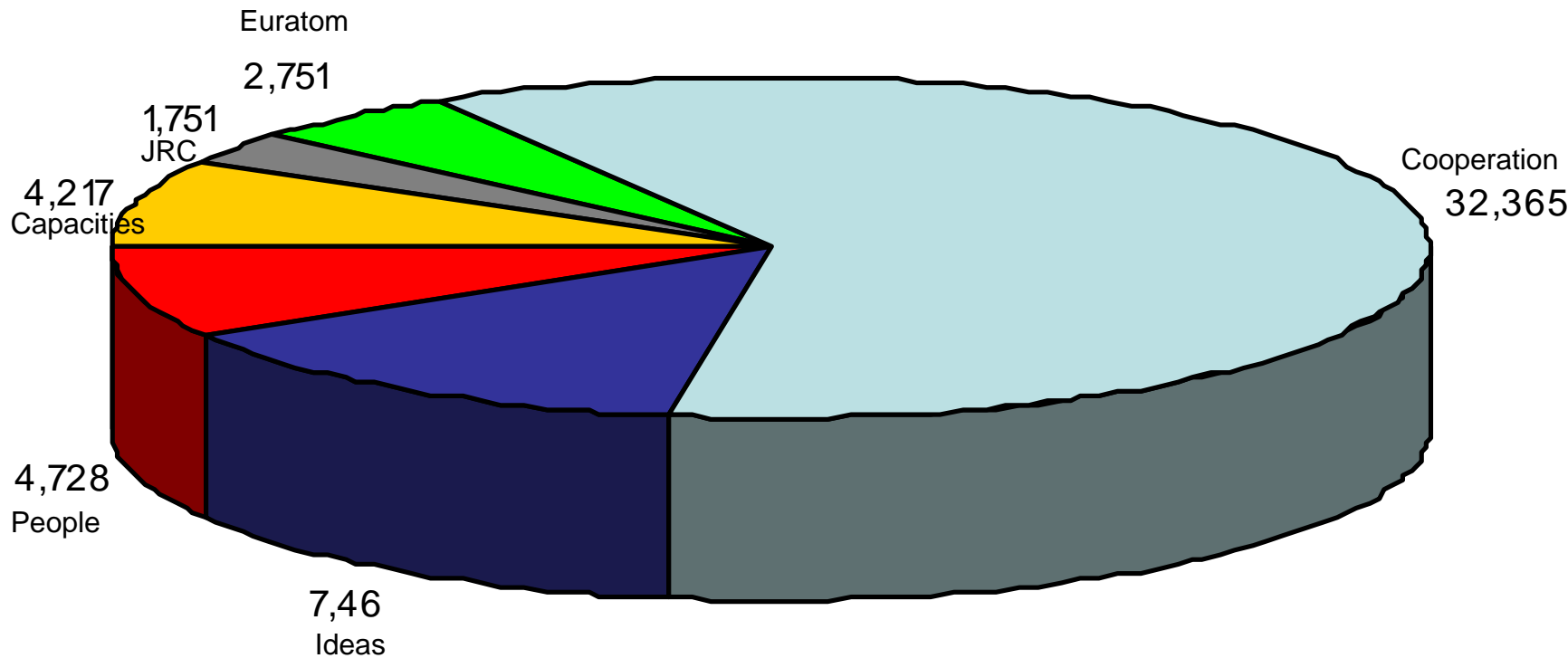


JRC (non-nuclear)

JRC (nuclear)

Euratom

EU's FP7 Budget



Cooperation – Collaborative research

10 Thematic Priorities

1. Health
2. Food, agriculture and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. Energy
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Space
10. Security

FP7: Structure

Seventh Framework Programme

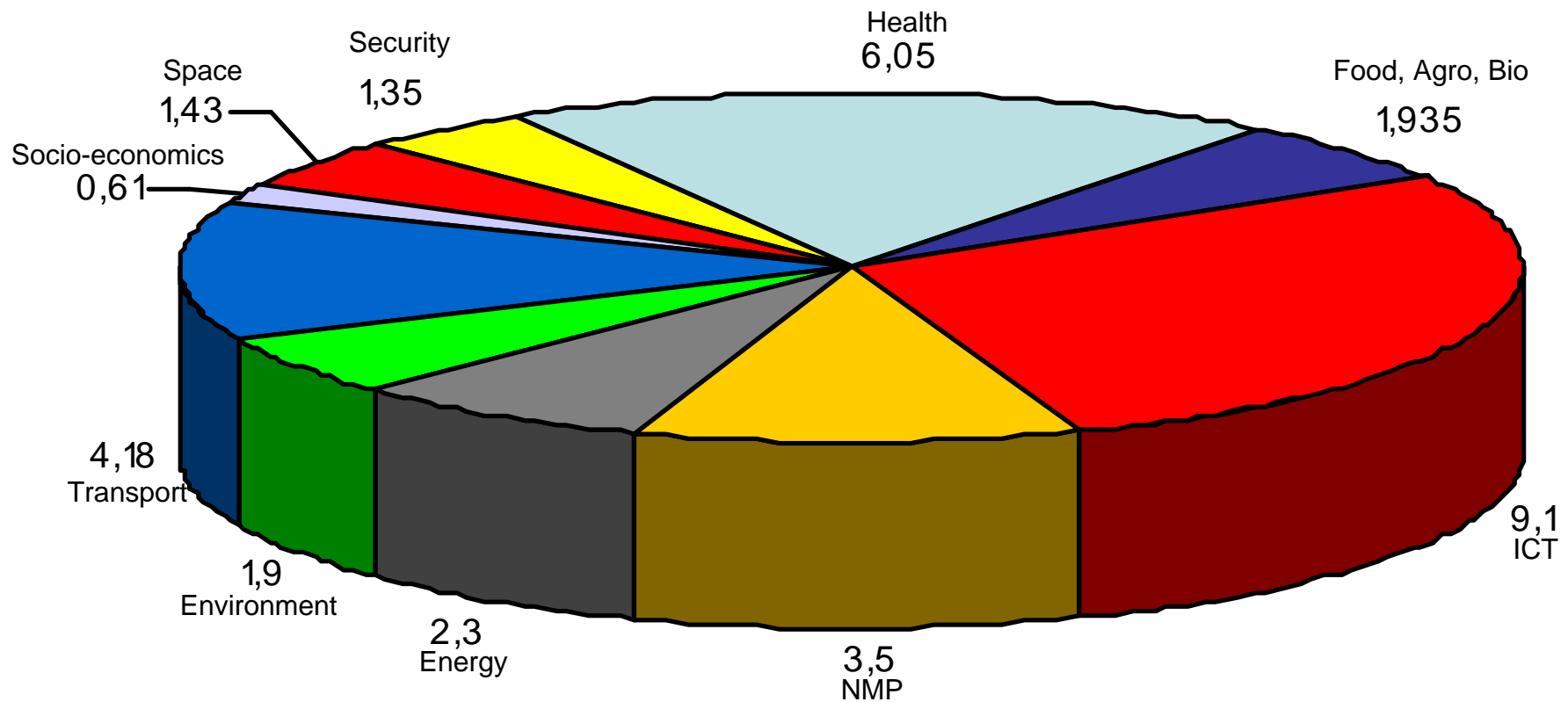
Specific Programme „Cooperation“

Theme 2 „Food, agriculture and biotechnology“

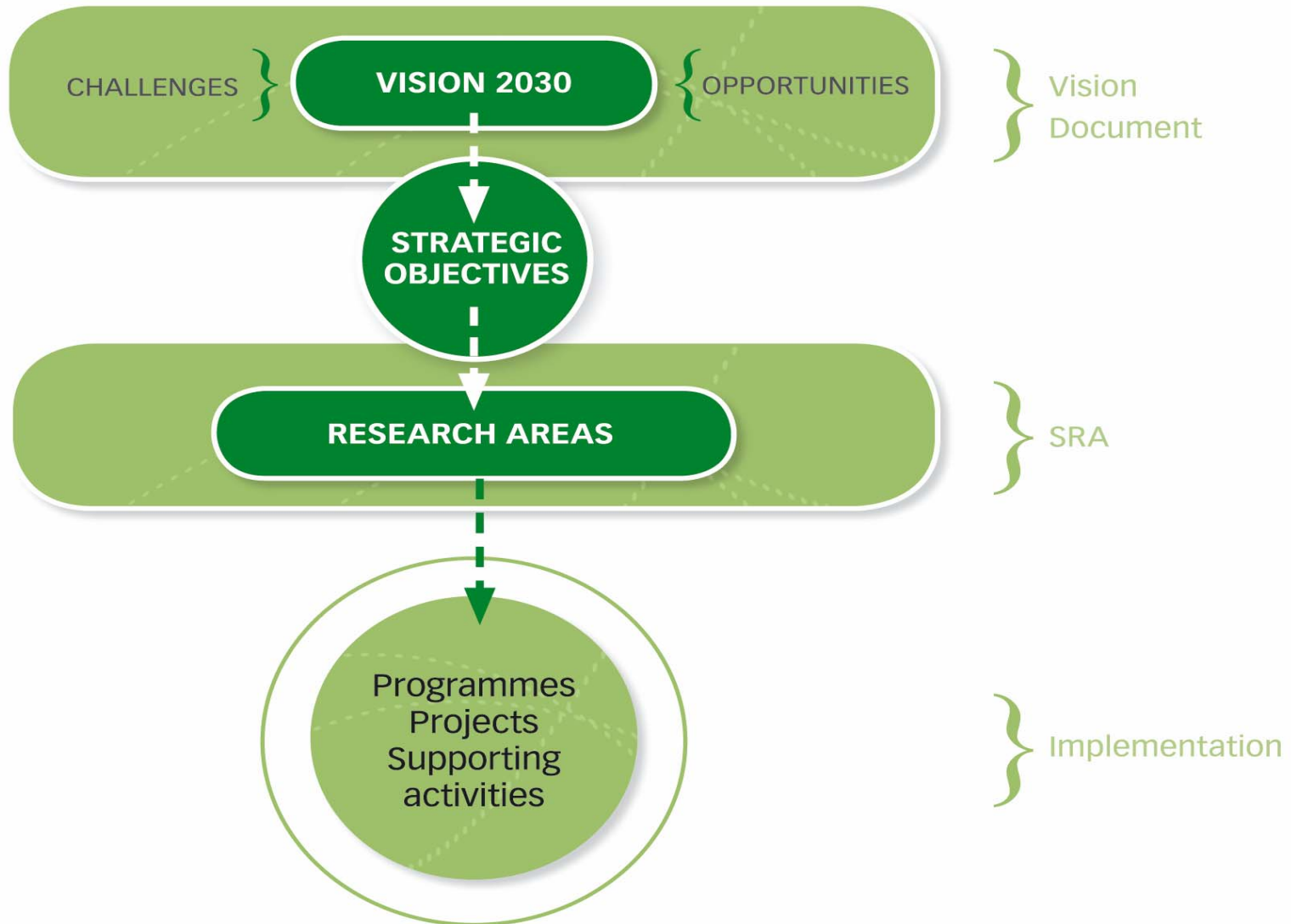
Annual workprogrammes

Call for proposals

Budget - Cooperation



FTP STEPS

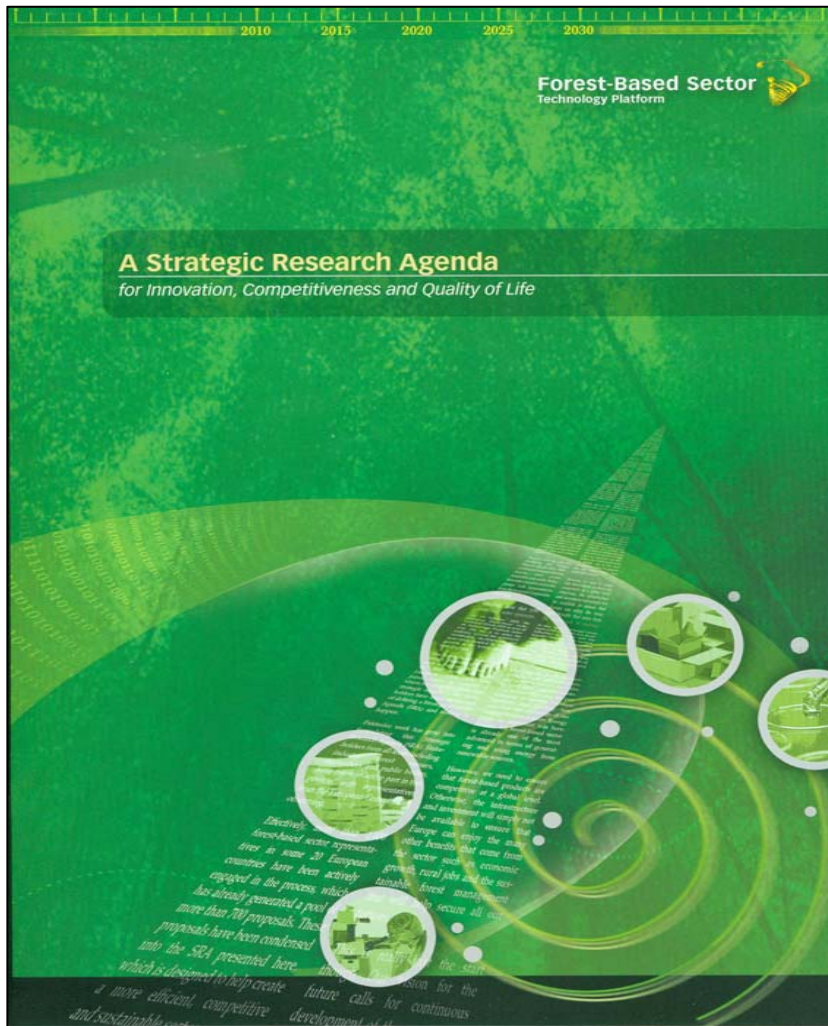


Vision for 2030

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

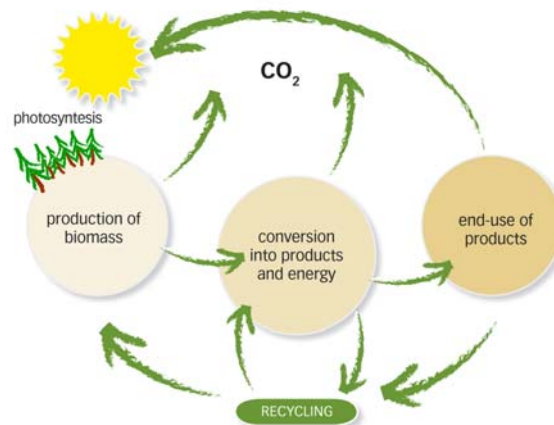


Key deliverables: Strategic Research Agenda (SRA)



Vision and SRA identify five Strategic Objectives:

1. Innovative products for changing markets and consumer needs
2. Intelligent and efficient manufacturing processes, including energy efficiency
3. Availability and use of forest biomass for products and energy
4. Multifunctional demand on forest resources and their sustainable management
5. The sector in a societal perspective

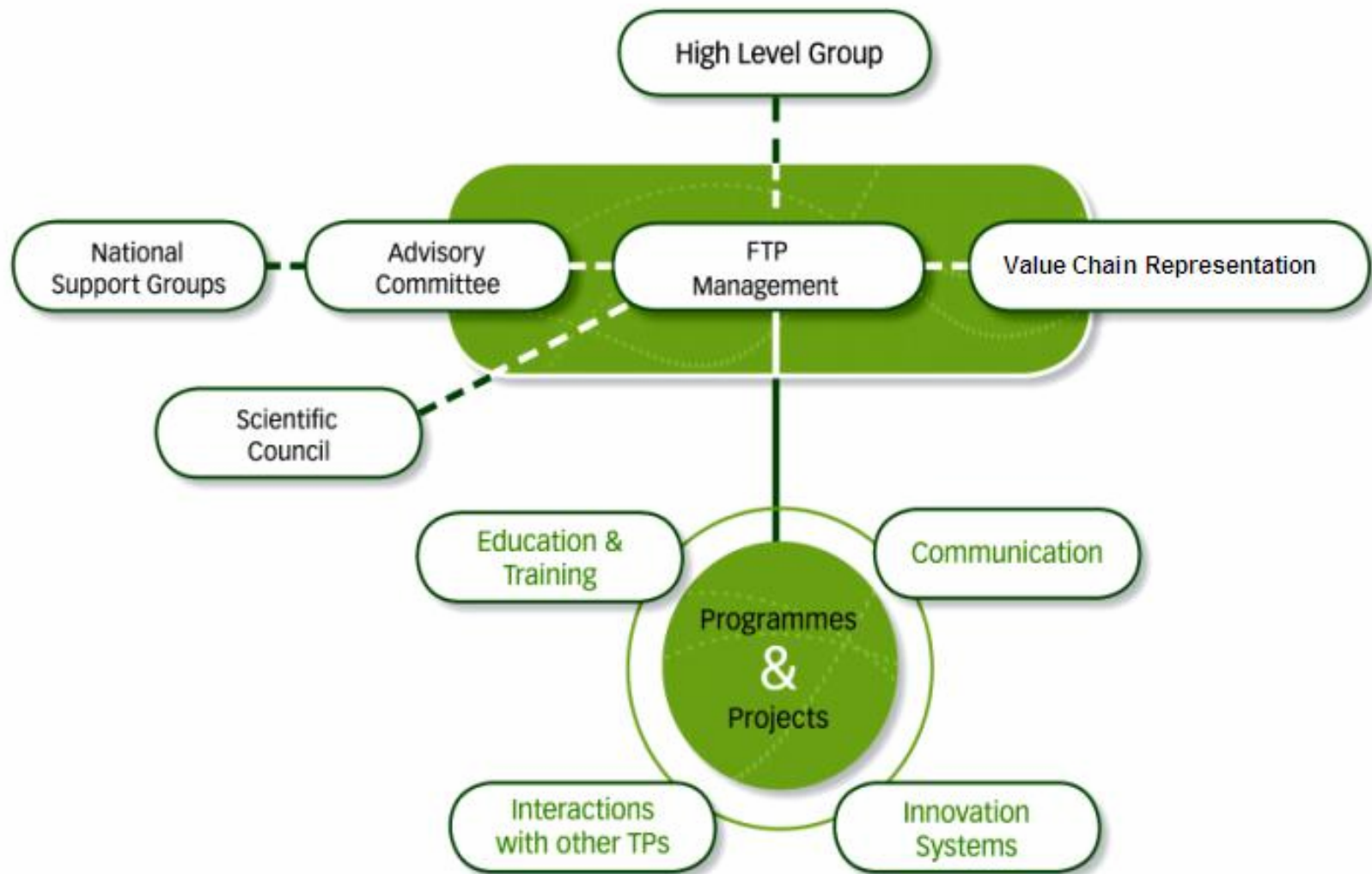


Strategic Objective 1 “Development of innovative products for changing markets and customer needs”

1-1	A new generation of functional packaging
1-2	Paper as a partner in com., education and learning
1-3	Advancing hygiene and health care
1-4	Living with wood
1-5	Building with wood
1-6	Commercialising soft forest values
1-7	Moving Europe with the help of bio-fuels
1-8	Pulp, energy and chemicals from wood bio-refinery
1-9	“Green” speciality chemicals
1-10	New generation of composites



Implementation Structure



National Support Groups - FTP

Established

Austria	the Netherlands
Denmark	Norway
Finland	Poland
France	Portugal
Germany	Slovenia
Ireland	Spain
Italy	Sweden
Latvia	Switzerland
Lithuania	United Kingdom



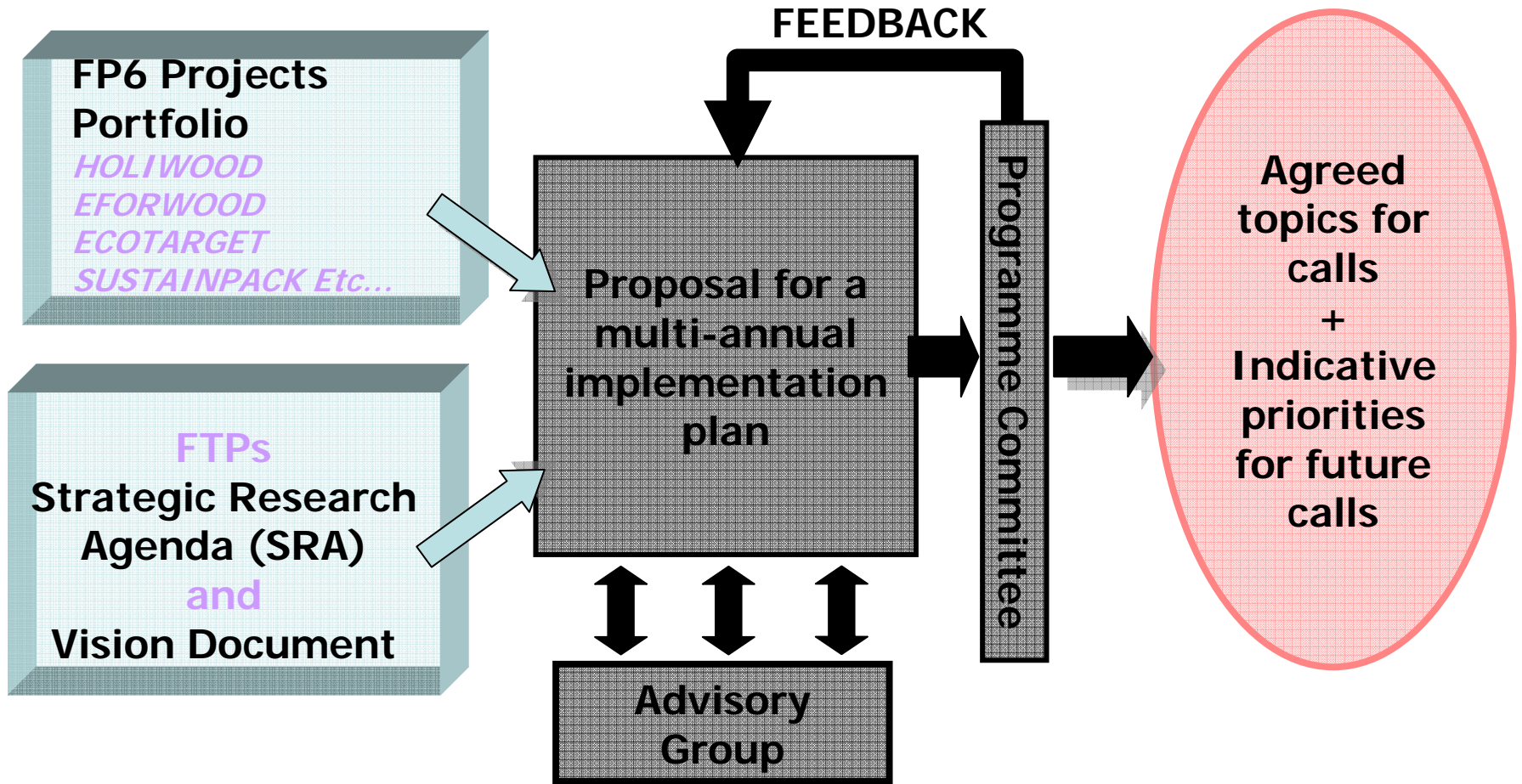
Under establishment

Belgium, Czech Republic, Hungary, Romania, Slovakia

FTP activities 2007

- ▶ Promote FTP and its SRA within FP7.
- ▶ Support in connection to first and second FP7 Calls.
- ▶ Activate funding opportunities outside FP7 Cooperation.
- ▶ Establish FTP database.
- ▶ Mobilize and encourage NSGs and their stakeholders.
- ▶ Coordinate with other Technology Platforms.
- ▶ Communication.
- ▶ Education & training and innovation.

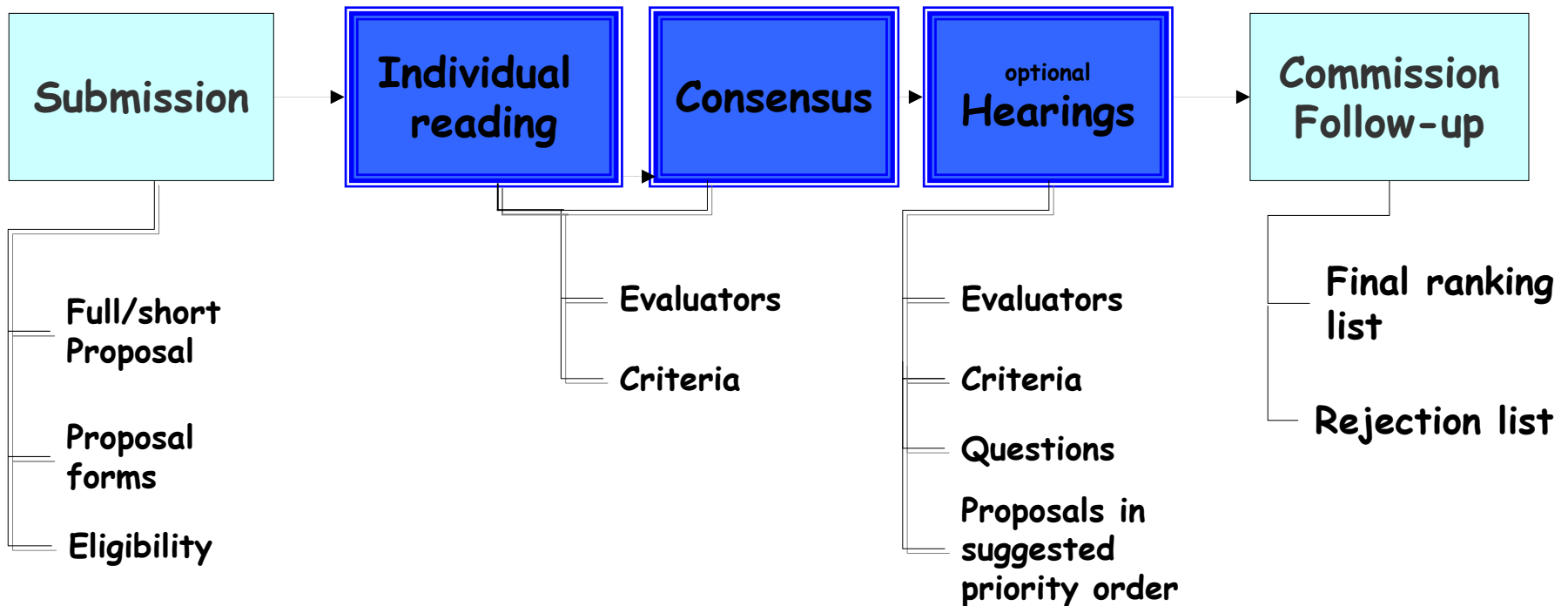
Development of the Thematic Work Programmes



How to promote FTP within FP7

- ▶ How to work for Programs and Calls.
 - Prepare FTP's priorities based on its SRA
 - In Brussels
 - » Commission
 - » Advisory Group members
 - » EU Parliament
 - Through countries (NSGs)
 - » Program Committee members
 - » Advisory Group members
 - » Permanent representation in Brussels
 - » Members of the EU Parliament
- ▶ Encourage more to become evaluators.

The Evaluation Process



FP7: Structure

Seventh Framework Programme (2007-2013)

Specific Programme „Cooperation“

Theme 2 „Food, agriculture and biotechnology“

Work Programme 2007

Activity 2.3: Life Sciences, biotechnology and biochemistry for sustainable non-food products

Area 2.3.1: Improved biomass and plant based renewables

Topic: KBBE-2007-3-1-04: FOREST PRODUCTS
New forest based products and processes

Calls for proposals

How do topics address FTP value chains?

First 2007 call for proposals

- Call identifier: FP7-KBBE-2007-1
 - Publication: 22. December 2006
 - Deadline: 2. May 2007; 17:00 h Brussels local time
 - Single stage submission process
- Funding Schemes:
- Small or medium-scale collaborative projects (< 3 million € EC funding)
 - Large-scale collaborative projects (3 - 6 million € EC funding)
 - Coordination and Support Actions (< 1 million € EC funding)

KBBE-2007-3-1-04: Forest products – new forest based products and processes

- ▶ **Activity 3:** Life Sciences and Biotechnology for sustainable non-food products and processes
- ▶ **Area 3.1** Improved biomass and plant renewables
- ▶ **Key-words:** [...] high added value products made of wood based fibres with high durability and usability [...] replacement of “unsustainable products” [...] and hazardous components [...] environmentally friendly biobased products
- ▶ **Funding scheme:** Large collaborative project
- ▶ **Expected impact:** diversification of the forest industries and opportunity to apply post-genomic knowledge in the production of derived forest products

2007 calls for proposals

- Publication: 22. December 2006
- Two stage submission process
- Deadline first stage: 4. May 2007, 17:00 h Brussels local time

► Call identifier:

- FP7-NMP-2007-LARGE-1
- FP7-NMP-2007-SMALL-1
- FP7-NMP-2007-SME-1

► Funding scheme:

- Large scale integrating collaborative projects
(> 4 million € EC funding)
- Small or medium-scale focussed research projects
(< 4 million € EC funding)
- Collaborative projects targeted to SMEs
(> 35% funding to SMEs)

NMP-2007- 4.0-1 : Advanced wood-based composites and their production

- ▶ **Activity 4.4:** Integration of technologies for industrial applications
- ▶ **Key-words:** [...] improving production efficiency is not alone sufficient for maintaining the competitiveness of the European forest-based industry. [...] **develop new high added value products produced by new resource efficient production concepts.** [...] intelligent recombination of specific physical properties [...] for example **replacing lignin with silicon or ceramics in the wood nanostructure** can yield radically new product properties.
- ▶ **Funding scheme:** Large-scale integrating projects
- ▶ **Specific features:** [...] a significant SME participation is expected
- ▶ **Expected impact:** placing sustainability at the forefront of cost control and competitive advantage as well as emphasising its role in industry's social responsibility [...] develop several **new product families based on new production concepts** that exploit the potential of wood-based composites across a variety of applications in the health, electronics and food sectors, as well as in the fields of **construction, furniture, packaging, speciality papers, vehicles and textiles.**

2007 calls for proposals

- Publication: 22. December 2006
 - Single stage submission process
 - Deadline: 3. May 2007, 17:00 h Brussels local time
- ▶ Call identifier: FP7-ENERGY-2007-1-RTD
- ▶ Funding Schemes:
- Small or medium-scale focused projects (< 4 million € EC funding)
 - Large-scale integrating projects (>4 million € EC funding)
 - Coordination and Support Actions
- ▶ Call identifier: FP7-ENERGY-2007-2-TREN
- ▶ Funding Schemes:
- Collaborative projects

ENERGY.2007.3.3.1 : Forest-based biorefinery

- ▶ **ACTIVITY ENERGY 3:** Renewable Fuel Production
- ▶ **AREA ENERGY 3.3:** Biorefinery
- ▶ The biorefinery concept aims at maximising the value derived from biomass feedstock by using all of its components.
- ▶ **Key-words:** Development of advanced fractionation and conversion technologies to be **integrated in a pulp mill** for the combined production of new bioproducts and biofuels
- ▶ **Funding scheme:** Large collaborative project with predominant R&D component
- ▶ **Expected impact:** **Maximise renewable energy output from pulp mills**, optimising economics of total process

Biorefinery Task Force

- ▶ Peter Axegard, STFI
- ▶ Markku Karlsson, UPM-Kymmene
- ▶ Paterson McKeough, VTT
- ▶ Annita Westenbroek, KCPK
- ▶ Michel Petit-Conil, Afocel/CTP
- ▶ Ludger Eltrop, IER University Stuttgart
- ▶ Klaus Niemelä, KCL
- ▶ Marco Mensink, CEPI (chairman)



FTP's role in creation of projects

- ▶ **Clarifying basic rules for FTP**
 - No funding organisation
 - No seat in EU evaluation teams
- ▶ **Initiate and facilitate, workshops and special actions**
- ▶ **Keep track of FTP projects, establish a database**
- ▶ **Support services**
 - Open workshops
 - Alert for calls
 - Provide contacts to experts on proposal making
- ▶ **No ranking or quality judgements**
- ▶ **Not favouring specific consortia**

FTP's project database

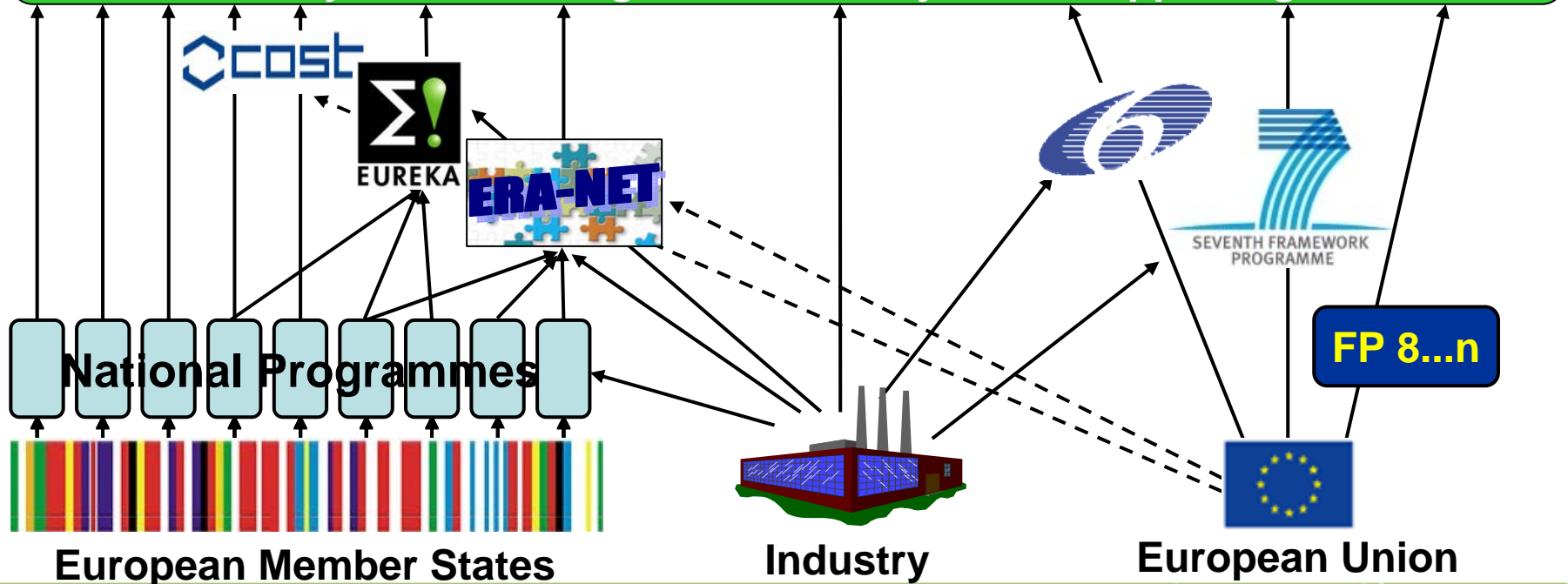
- ▶ Keep track of FTP projects.
- ▶ Keep track of national projects as an option.
- ▶ Web-based open tool both for input of projects and queries.
- ▶ Possible to introduce a project in max. 15 minutes.
- ▶ Every project, which follows the FTP criteria, gets an unique identification number.
- ▶ Possible to search for projects and information in different ways.
- ▶ The software will have a minor one time cost.

The implementation financing scheme

Strategic Research Agenda
Research Areas

Implementation

Innovation Systems - Programmes & Projects - Supporting Measures



FTP Conference 2007 Hannover

Follow Up of

Stockholm Sept 2005



Admont May 2006



Lahti Nov 2006



Lead Markets of the Forest-Based Sector: The Challenge

- Innovation Based on Research -



Next FTP Conference in Hannover, Germany, 15./16. May 2007

FTP Conference 2007 Hannover, Germany

Official Event under the
German Presidency of the Council
of the European Union



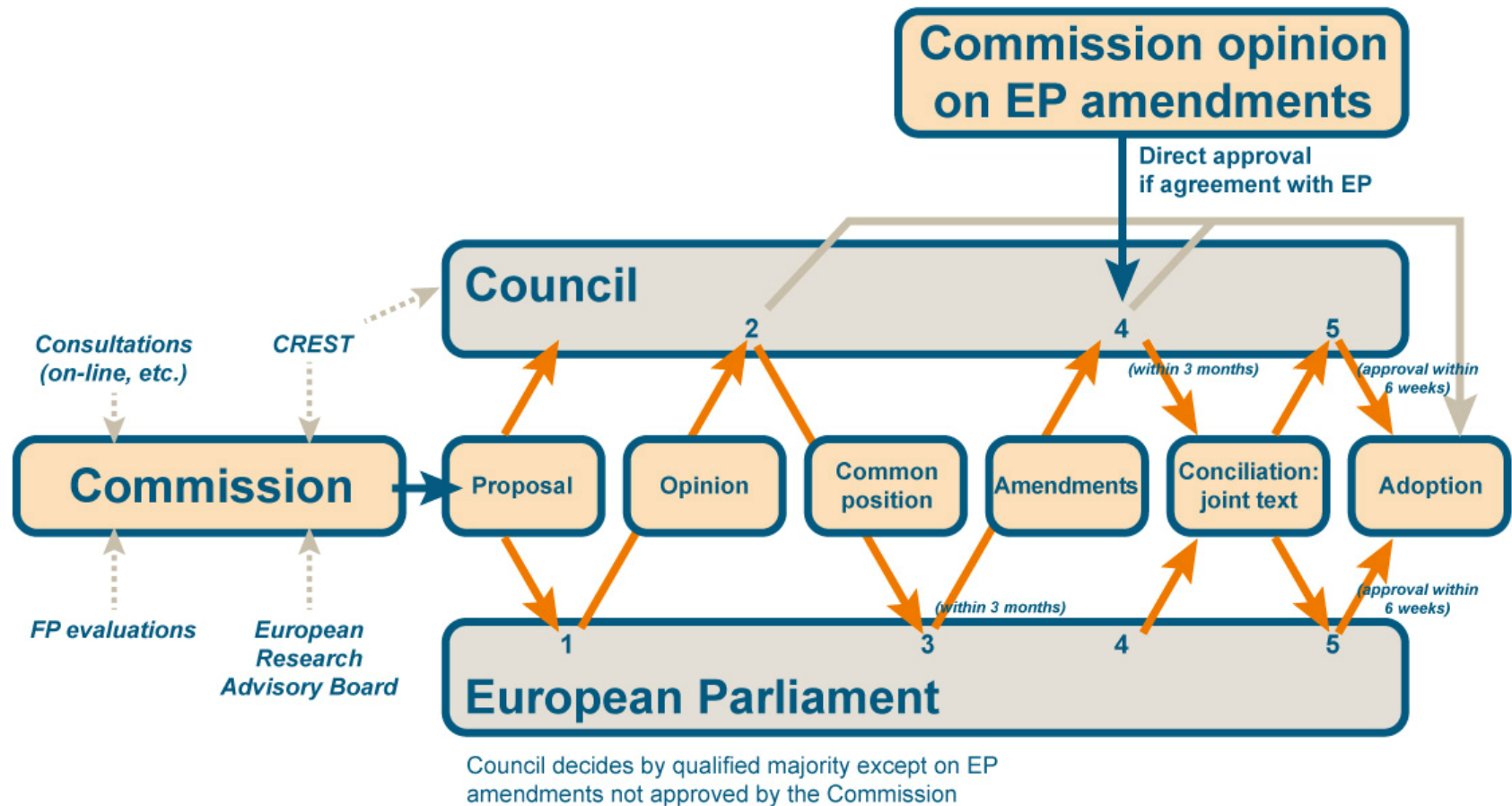


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Thank you for listening!

Follow FTP at www.forestplatform.org

EU Research - Framework Program 2007-2013 ('co-decision')



More information

- ▶ General information
 - <http://europa.eu.int>
- ▶ General information on research
 - <http://europa.eu.int/comm/research>
- ▶ Information on research programmes
 - <http://www.cordis.lu>
- ▶ Information requests
 - research@cec.eu.int
- ▶ Information about FTP
 - www.forestplatform.org