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Community Research

EU Funding and R&D Activities in the 7th European framework Programme

Irdning/Admont 2nd May 2006

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FP7 2007 - 2013 Specific Programmes

***Cooperation* – Collaborative research**

***Ideas* – Frontier Research**

***People* – Human Potential**

***Capacities* – Research Capacity**

+

JRC (non-nuclear)

JRC (nuclear)

Euratom





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Cooperation – Collaborative research

9 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. Security and space**



3. Information and Communication Technologies

ICT Technology Pillars

Integration of Technologies

Applications Research

Future and Emerging Technologies



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4. Nanosciences, nanotechnologies, materials and new production technologies (FTP related topics)

Forestry, Pulp and Paper, Wood products

- **Establish as material of first choice in many industrial sectors**
- **New technical applications**
- **Customised and intelligent production**
- **Competitive energy and fuel supply**



5. Energy (FTP related topics)

- **Biomass for electricity heating and cooling**
 - ✓ Increasing overall conversion efficiency
 - ✓ Achieving cost reduction
 - ✓ Further reducing environmental impact
- **Biomass for fuel production**
 - ✓ New types of biofuels (advanced / 2nd generation)
 - ✓ Biorefinery: integrated production of energy and bioproducts
 - ✓ New production and distribution routes for existing biofuels



6. Environment incl. Climate change (FTP related topics)

- **Advanced climatic change models for (1) change assessment, (2) potential impacts, (3) risk and hazard assessment**
- **Forestry related adaptation and mitigation strategies for climate change**
- **Advanced tools and models for (1) sustainable forest, water and soil management, (2) ecosystem modelling, (3) waste management, (4) sustainable consumption pattern and (5) integration of sustainable development dimensions in land use planning**
- **Techno – economic optimisation of forestry/wood chains**



2. Food, Agriculture and Biotechnology

**Sustainable production and management of biological resources
from land, forest, and aquatic environments**

“Fork to farm”: Food, health and well being

**Life sciences and biotechnology for sustainable
non-food products and processes**



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Food, agriculture and biotechnology: Objectives

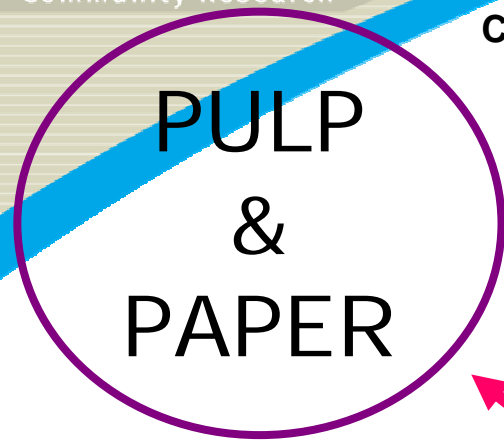
- Build a European Knowledge-Based Bio-Economy (KBBE)
- Respond to social and economic challenges:
 - High quality food and sustainable food production
 - Food-related disorders (cardiovascular, obesity ...)
 - Infectious animal diseases and zoonoses
 - Sustainable agriculture/**forestry** and climate change
 - **Clean biomaterials from renewable bio-resources**
- Involve all stakeholders (incl. industry) in research
- Support Policy
- Respond quickly to emerging research needs



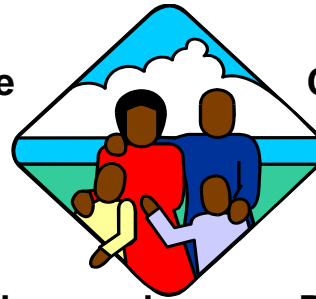
The Forestry-Wood Chain in the Knowledge based Bio-Economy

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Consumer choice

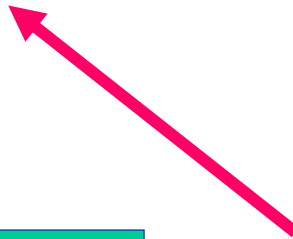
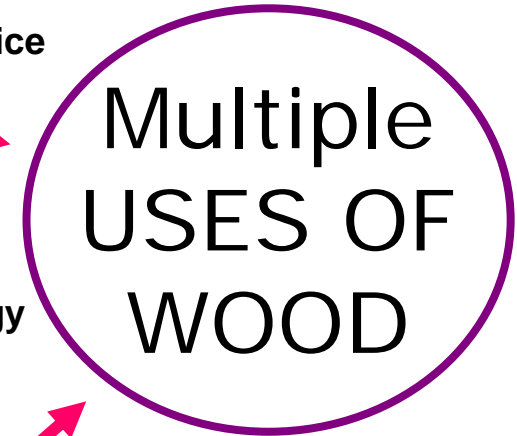


Consumer choice



Environmentally sound processing of wood fibre

Renewable biomaterials/bioenergy



WHITE BIOTECH
CLEAN BIOPROCESSES
OF RAW MATERIALS/WASTE

GREEN BIOTECH
OPTIMISED RAW MATERIALS

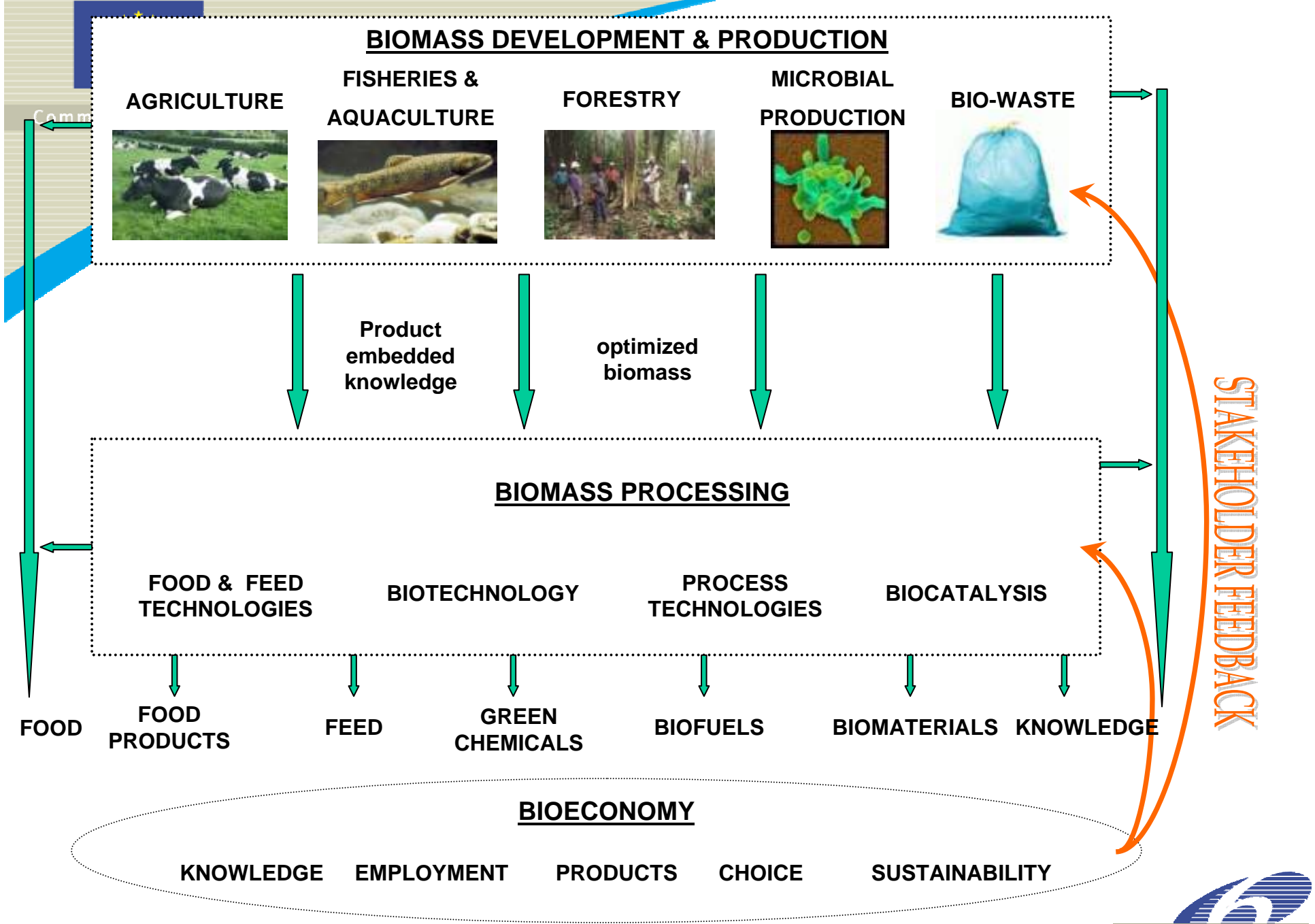
PROCESSING



PRODUCTION



SUSTAINABLE MANAGEMENT OF FOREST RESOURCES
(Multifunctionality, Rural development, Biodiversity, Life cycle approaches)



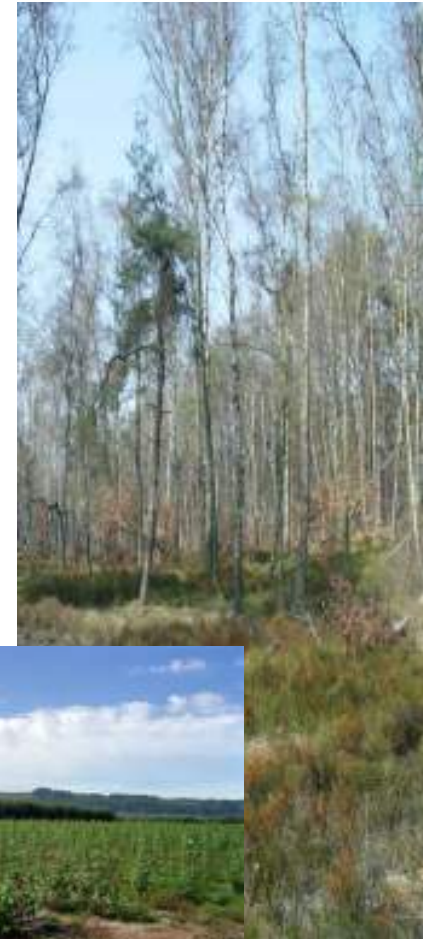


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The Forestry-Wood Chain in Activity 1:

- Sustainable and competitive forestry: will enhance consumers confidence in forest based products and improve the competitiveness of the forest sector
- Improved/novel trees and production systems: will lead to improved/novel forest based raw materials
- Policy tools for forestry and RD: will allow the optimal allocation and market access of forest based products





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The Forestry-Wood Chain in Activity 3:

- Bio-catalysis; new biorefinery concepts: **will broaden the application of forest based materials**
- Improved/novel forest based products and processes: **will enable the sector to meet consumers expectations**
- Environmental sound and cleaner products and processes: **will raise the environmental profile of forest based products**





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KBBE research is meeting future challenges:



- * Securing the availability of **renewable raw materials**, while supporting the varied uses of forests and safeguarding **biodiversity**, through **sustainable forest management**
- * Obtaining an economic and environmental balance in using **forest biomass for products and energy**, as well as substantially improving the industry's energy efficiency
- * Providing products and services that respond to **changes in societal needs**
- * **Developing and designing new** products that can be recycled, reused and finally converted to **bio-energy**



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NEST; policy support; INCO; ERA- Net

New activities within the themes:

- ✓ **Integration of new and emerging science and technologies**
- ✓ **Support to policy development (CAP, CPF, public health, food safety, animal health, ...)**
- ✓ **International co-operation**
... to be defined on the level of the specific programme or workprogramme
- ✓ **ERA Net Activities**



The instruments

To support actions which are implemented on the basis of calls for proposals:

- Collaborative projects
- Networks of Excellence
- Coordination/support actions
- ERA-Nets, ERA-Nets +
- Individual projects
- Fellowships
- Research projects for third parties (i.a. SMEs)



Seventh Framework Programme

Specific Programme „Cooperation“

Theme 2 „Food, agriculture and biotechnology“

Annual workprogrammes for
Activity 1, 2 and 3

Call for proposals



Tentative roadmap for FP7

2005

- | | | |
|--------------|------------|---|
| 6 April | Commission | - Adoption of FP7 proposals |
| 21 September | Commission | - Proposals on SPs |
| 23 December | Commission | - Rules for participation and dissemination |

2006

- | | | |
|--------|----------------|---|
| Spring | Commission | - Proposals under Articles 169 and/or 171 |
| June | EP | - 1 st reading on EC FP. Opinion on Euratom FP |
| Sept. | Council | - Common position on EC FP |
| Oct. | EP | - 2 nd reading |
| Oct. | EP | - Opinion on the Specific Programmes |
| Nov. | Council | - Adoption of FP and Rules (earliest) |
| Nov. | Council and EP | - Adoption of FP and Rules for participation |
| Nov. | Council | - Adoption of the SPs |
| Dec. | Commission | - Adoption of Work programmes and necessary materials |
| Dec. | Commission | - Publication of 1 st calls |



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Information sources

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