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Community Research

Preparations for the creation of a European Technology Platform on Biofuels

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- SYNBIOS -

AUTOMOTIVE BIOFUELS CONFERENCE
Stockholm 18–20 May 2005



Outline

- ✓ **Policy context**
- ✓ **The concept of Technology Platforms**
- ✓ **European Technology Platform on Biofuels**
- ✓ **The 7th Framework Programme**



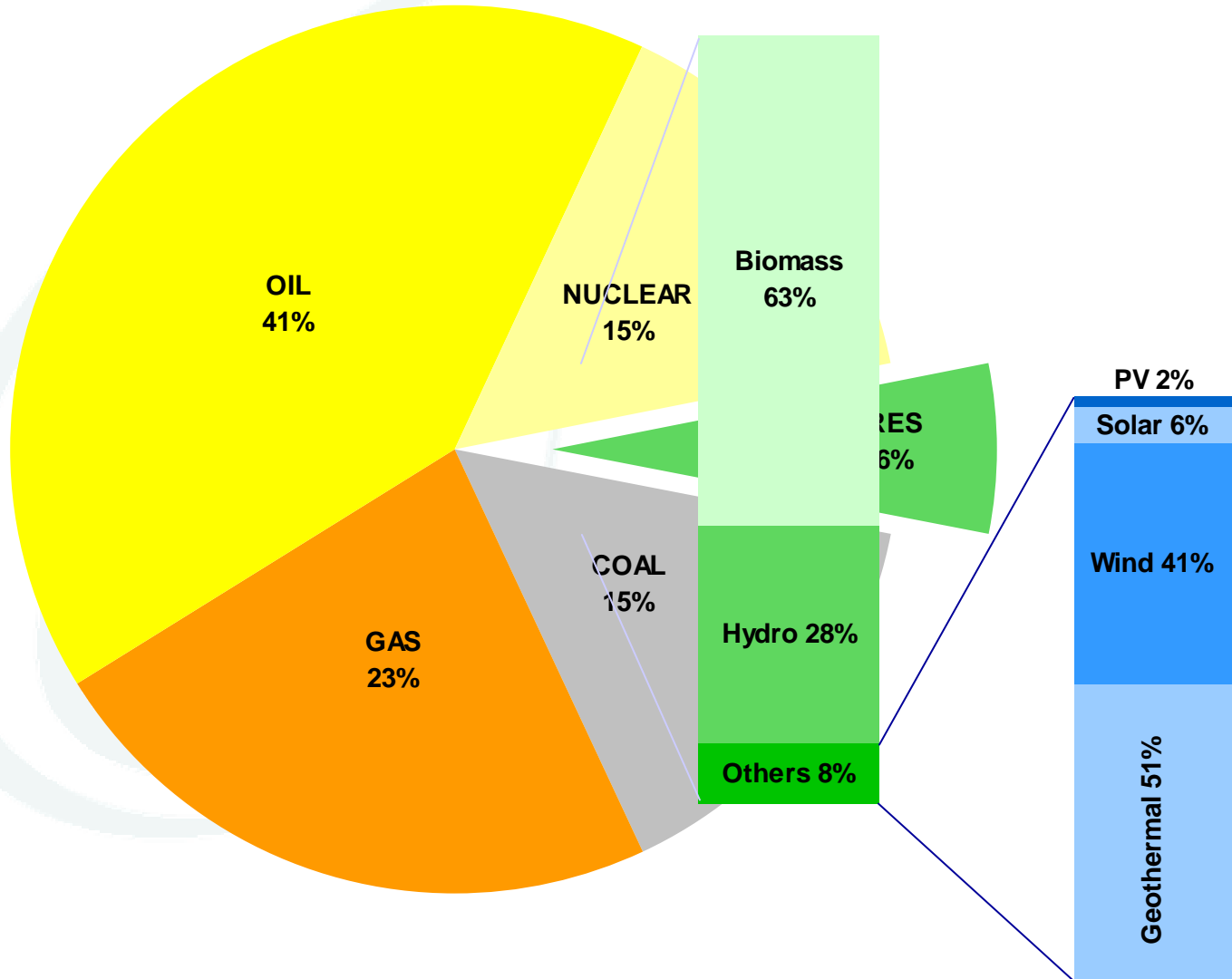
EU Energy Policy

- ✓ **Aims at sustainable, secure and affordable energy supply**

- ✓ **In particular, the energy targets are:**
 - ✓ **Reduce Green House Gases emission by 8%**
 - ✓ **Increase the proportion of biofuels to 5.75% by 2010**
 - ✓ **Reach Renewable Share of 21% in electricity production 2010**
 - ✓ **Reach Renewable Share of 12% in gross energy consumption 2010**

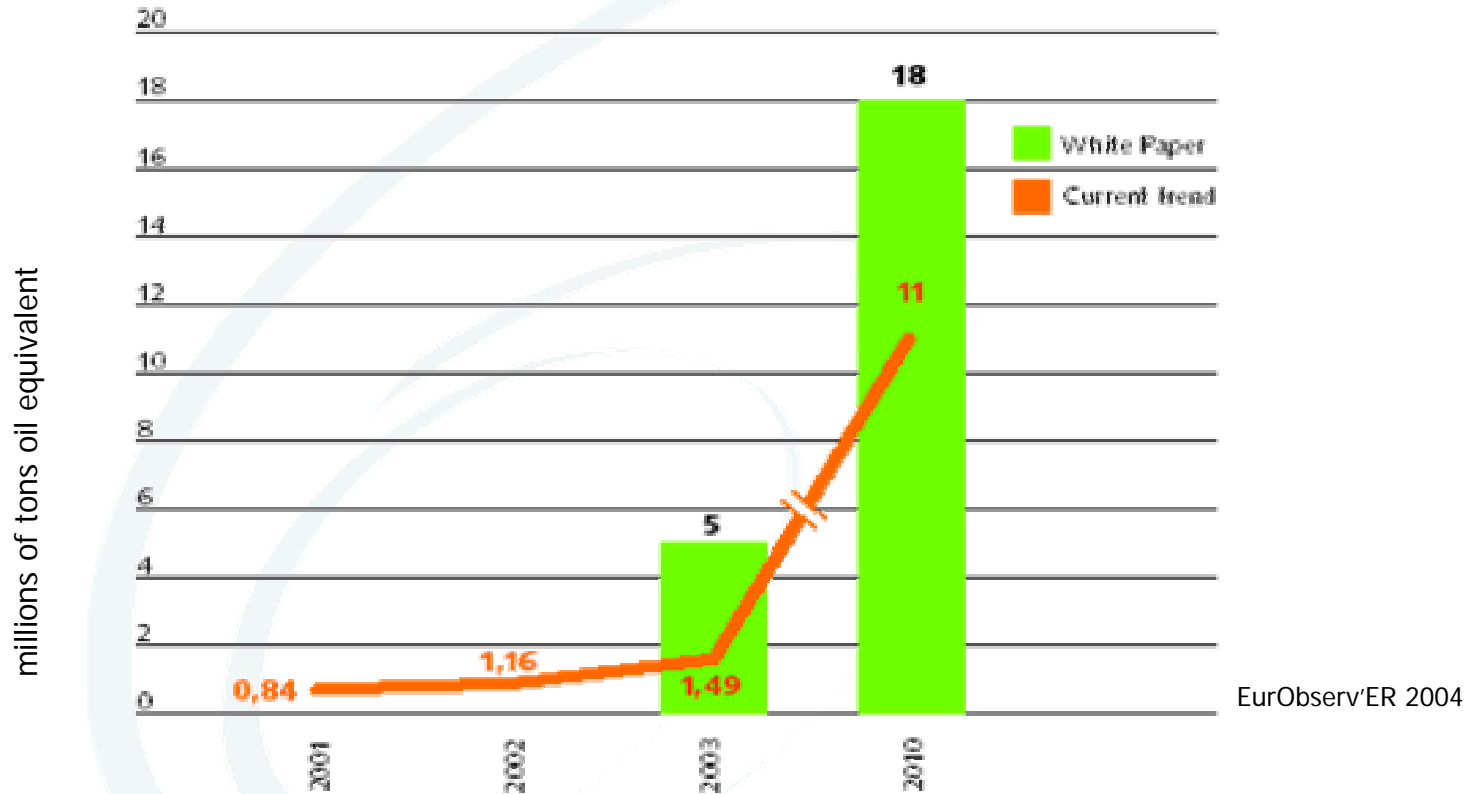


Renewables: current status





Biofuels: current trend



European Directive 2003/30/EC allows Member States to apply differentiated tax rates in favour of biofuels



EU Research policy

- ✓ **Raising the spending on RTD to 3% of the EU GDP, of which 2% should come from the private sector (part of the Lisbon strategy)**
- ✓ **The Commission proposal for 7th Framework Programme (2007-2013) includes a doubling of the annual RTD budget**
- ✓ **Technology Platforms will provide a means to foster effective public-private partnerships**



The concept of Technology Platforms

- ✓ **Stakeholders define a common vision which includes a strategic research agenda and deployment strategy**
- ✓ **The action plan is drawn up and implemented by the platform**
- ✓ **The strategic research agenda is implemented using Framework Programme instruments**



Key success factors

- ✓ **Industry-driven, competitiveness-focussed process**
- ✓ **Wide stakeholder involvement**
- ✓ **Private / public collaboration**
- ✓ **Operational focus from early stage**
- ✓ **Education and training programme**
- ✓ **Communication / dissemination actions**



Biofuels Technology Platform

- ✓ **98% of the transport sector is dependent on oil products**
- ✓ **Strategic choices for fuels and fuel technologies need to take into account a broad variety of issues such as:**
 - land use, feedstock competition, resource potential and biodiversity
 - but also:**
 - car engine design, distribution infrastructure, standards*
- ✓ **All options will be put on the table**



Vision

(to be discussed)

“By 2030, a well-established and economically viable European industry will cover a substantial part of the EU needs by supplying clean and CO₂-neutral transport fuels. This will significantly decrease the EU fuel import dependence, and create new economic opportunities for biomass providers, biofuel producers and the automotive industry.”

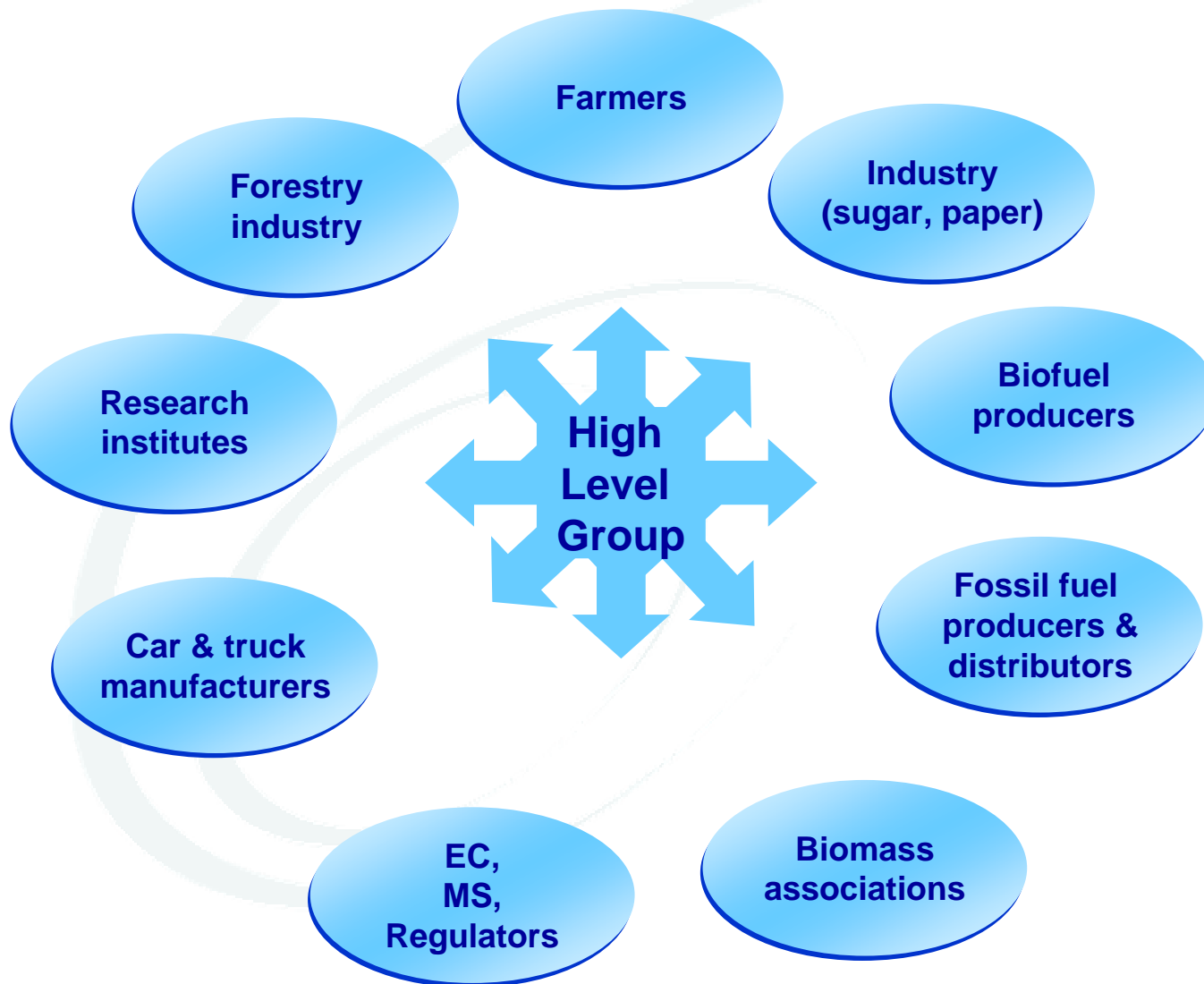


Objectives

- ✓ **To develop cost-competitive, world class biofuel technology**
- ✓ **To contribute to the creation of a European biofuels industry**
- ✓ **To accelerate the deployment of biofuels for transport applications, compatible with the present day infrastructure.**

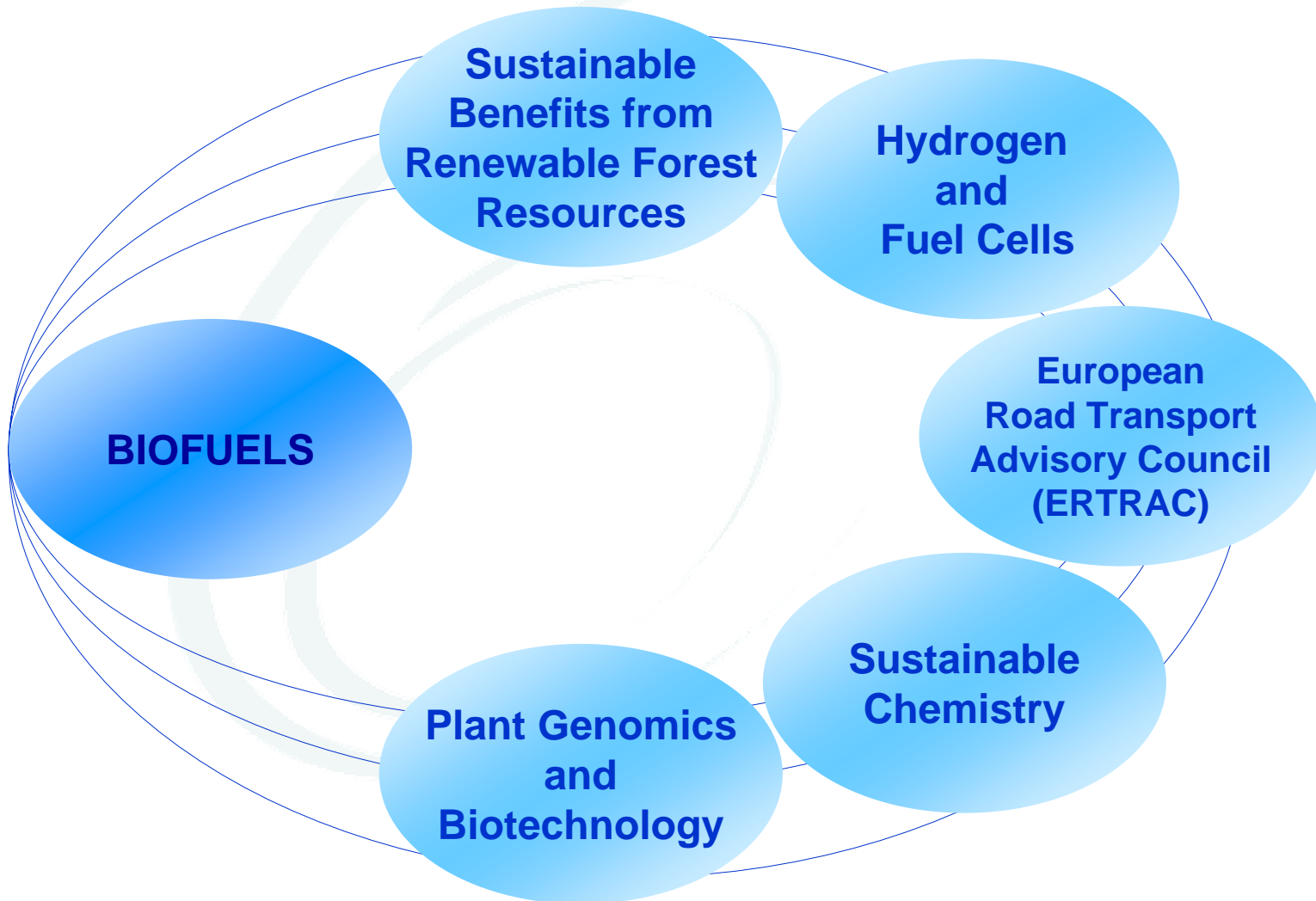


Stakeholders





Interaction with other Technology Platforms



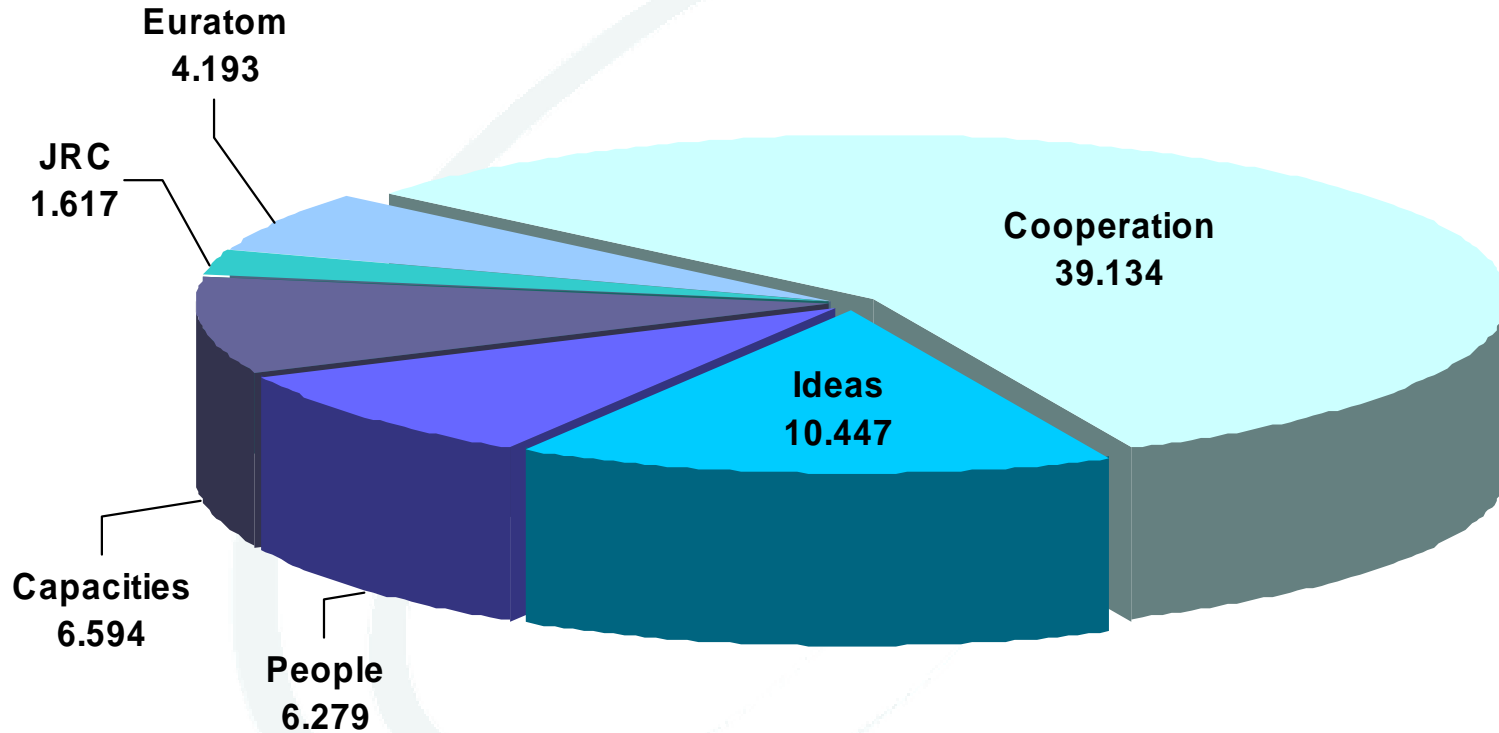


Time schedule

December 2004	First stakeholders meeting
June 2005	First meeting of the High Level Group
December 2005	Draft Vision Report developed by the HLG
February 2006	Conference for presentation of the Vision Report and launching of the European Biofuel Technology Platform
March 2006	Creation of the Steering Committee and Working Groups
2007 -	Implementation of the Strategic Research Agenda in the 7th Framework Programme



Seventh Framework Programme Commission proposal (Billion €)





Cooperation Collaborative research

Nine 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**



Seventh Framework Programme

5. Energy

- ✓ Hydrogen and fuel cells
- ✓ Renewable electricity generation
- ✓ **Renewable fuels production**
- ✓ Renewable heating and cooling
- ✓ CO₂ capture and storage technologies for zero emission power generation
- ✓ Clean coal technologies
- ✓ Smart energy networks
- ✓ Energy efficiency and savings
- ✓ Knowledge for energy policy making



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Pathways to biofuels

**In summary,
the biofuels technology platform has
the potential to make a considerable
impact at a European scale**