



# "Towards a European Research Area"

where the best possible use is made of the scientific capabilities and material resources within the EU  
where national and European policies are implemented in a coherent fashion  
where knowledge and personnel are allowed to circulate without restriction



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH



## ERA – The international dimension

Making the ERA more attractive to the best scientists and making it a world class reference centre

Opening EU programmes to participation by third country researchers and organisations

Develop specific international S&T activities (**INCO-DEV**, **INCO-MED**) useful to the implementation of EU foreign policy and development aid

Enlist S&T resources of EU and third countries in initiatives that provide a response to world problems (e.g. food safety, environmental sustainability, major diseases connected with poverty)



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH



# Agreement on budget for International S&T co-operation

300 mio€ for INCO mainstreaming in the  
thematic priorities (solely for third country  
entities)

315 mio€ for a specific INCO programme  
(bi-regional S&T co-operation) of which  
100-150 mio€ reserved for INCO-DEV



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH



## Instruments

Two new instruments for the thematic  
priorities, networks of excellence and  
integrated projects

The old instruments (joint research, CA, TN)  
for the specific INCO programme



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH



# Priority thematic areas of research in FP6

- Genomics and biotechnology for health
- Information Society technologies
- Nanotechnologies and nanosciences, knowledge-based multifunctional materials and new production processes and devices
- Aeronautics and space
- Food Quality and Safety
- Sustainable development, global change and ecosystems
- Citizens and Governance in a Knowledge-based society
- Specific activities covering a wider range of research



## 6. Sustainable development, global change and ecosystems

### 6.1. Sustainable energy systems

#### *Research activities having an impact in the short and medium term*

- Clean energy, in particular renewable energy sources and their integration in the energy system, incl. Storage, distribution and use: supporting stakeholders committed to establishing “sustainable communities”, socio-economic approaches to “green electricity”, biofuels, heat.
- Energy savings and energy efficiency: in relation to the objective of reducing the energy demand by 18% by 2010. Research will focus on Eco-Buildings, combined production of electricity, heating and cooling systems.
- Alternative motor fuels: related to the EU target of 20% substitution of diesel and gasoline fuels by alternative fuels in the road transport sector by 2020.





### ***Research activities having an impact in the medium and longer term***

- Fuel cells and their applications in buildings, industry and road transport.
- New technologies in particular hydrogen.
- New and advanced concepts in renewable energy technologies: photovoltaics, biomass. For biomass, barriers in the biomass supply-use chain will be addressed in the areas of production, combustion technologies, gasification technologies for electricity and hydrogen production and biofuels for transport.
- Capture and sequestration of CO<sub>2</sub> associated with cleaner fossil fuel plants



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH



### **6.3. Global change and ecosystems**

- Impact and mechanisms of greenhouse gas emissions and atmospheric pollutants on climate, ozone depletion and carbon sinks (oceans, forests and soil). Research on all sources like energy supplies, transport and agriculture to understand and predict global climatic change and associated phenomena.
- Bio-diversity functioning and ecosystems.



CONFIRMING THE INTERNATIONAL  
ROLE OF COMMUNITY RESEARCH