



EUROPEAN
COMMISSION

Community research

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European Commission - DG Research – Directorate Environment**

**24th sessions of the
Subsidiary Body for Scientific and Technological Advice (SBSTA) and the
Subsidiary Body for Implementation (SBI) of the
United Nations Framework Convention on Climate Change**

Mitigation Workshop: Agriculture, forestry and rural development

Bonn, 23 May 2006





The Lisbon, Göteborg and Laeken European Councils introduced three important political considerations:

- First, to become the most competitive knowledge based society in 2010,
- Second, to consider the effects of policy proposals in their economic, social and environmental dimensions ;
- Third, to simplify and improve the regulatory environment.





MATISSE-IP

ADAM-IP

SENSOR-IP

LUPIS

Agriculture

Forestry

Urban

Coastal Zones Management

SEAMLESS-IP

INSEA

EFORWOOD-IP

PLUREL

SPI COSA

CARBOEUROPE-IP

Carbon and Nitrogen Cy

NITROEUROPE-IP

CARBO-AFRICA

EU contribution to these projects: €107M
Other Climate Change related projects: €200M





CARBOEUROPE Integrated Project **Assessment of European Terrestrial Carbon Balance**

Objective: Understand, quantify and predict the terrestrial carbon balance of Europe and uncertainty on local, regional and continental scale

Coordinator: E-D. Schulze, Max Planck Gesellschaft zur Förderung der Wissenschaften, Germany

Example of results:

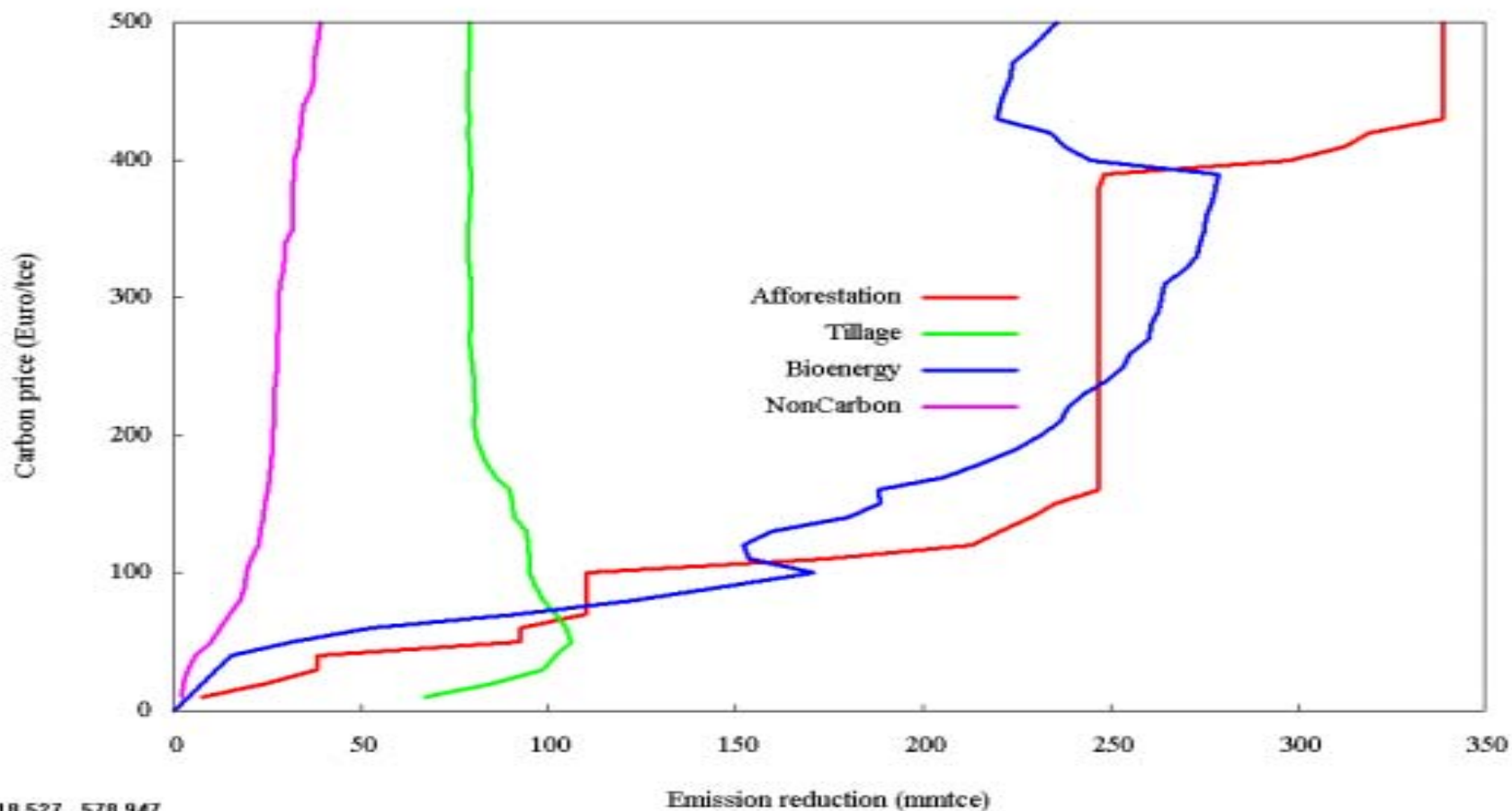
- **Heat wave 2003 in W-Europe caused 30% reduction in gross primary productivity of plants & crops**
- **These plants and crops became net source of Carbon Dioxide of 500 MtC per year**
- **Reversing the effect of 4 years of ecosystem sequestration**
- **Future droughts could reverse sinks to sources**





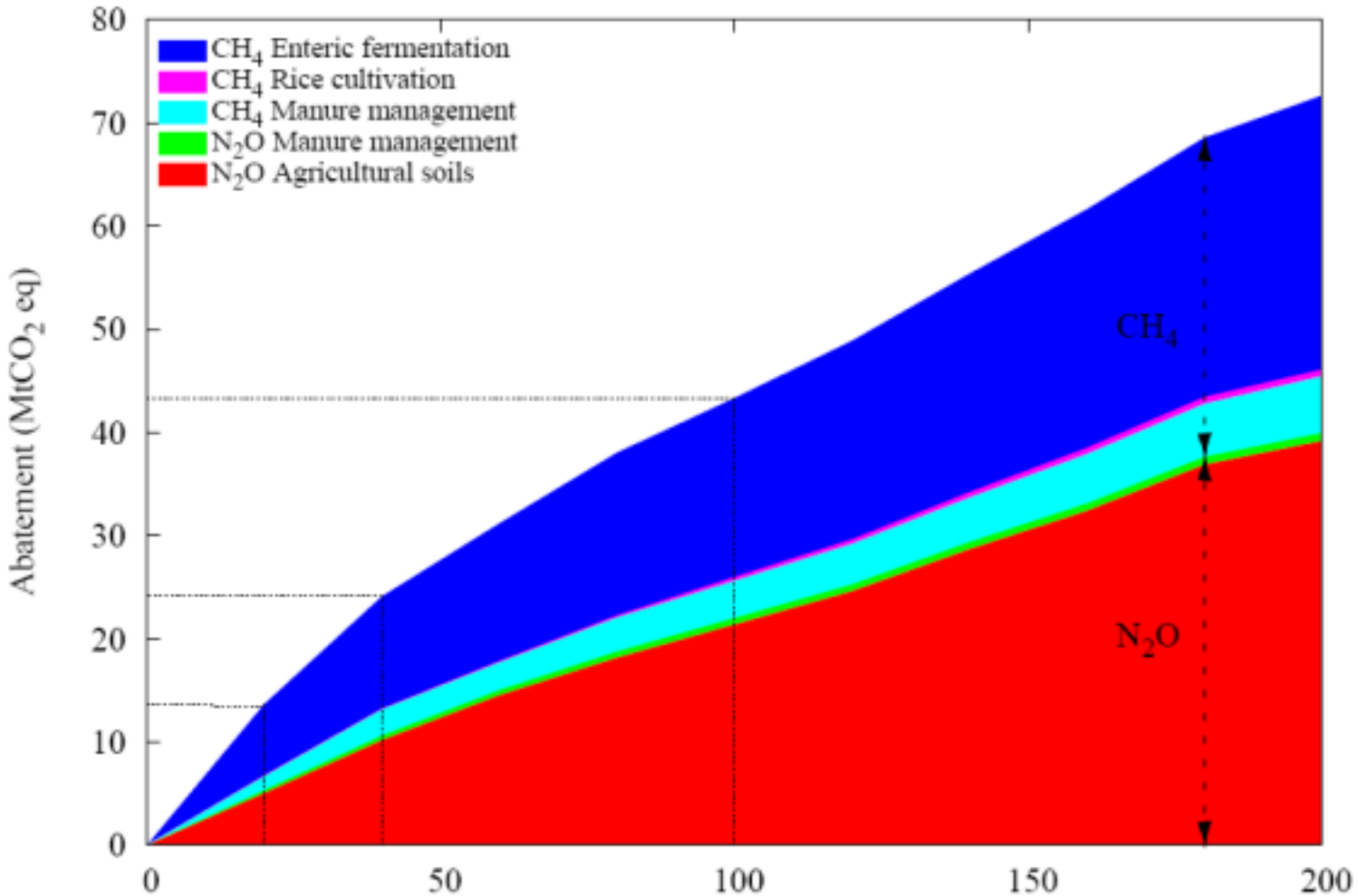
Mitigation potential INSEA (EU25)

Competitive Agricultural Mitigation Potentials (EU25)





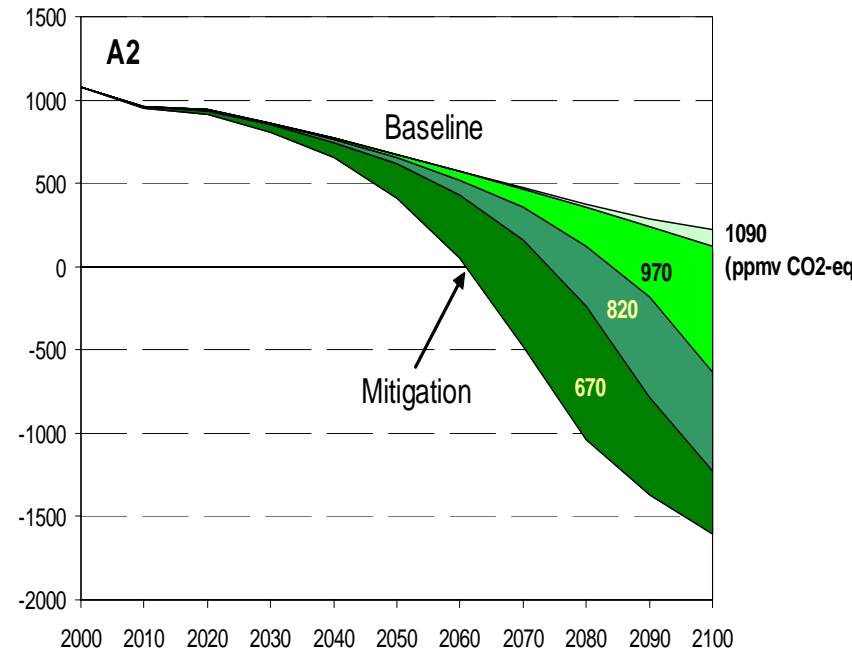
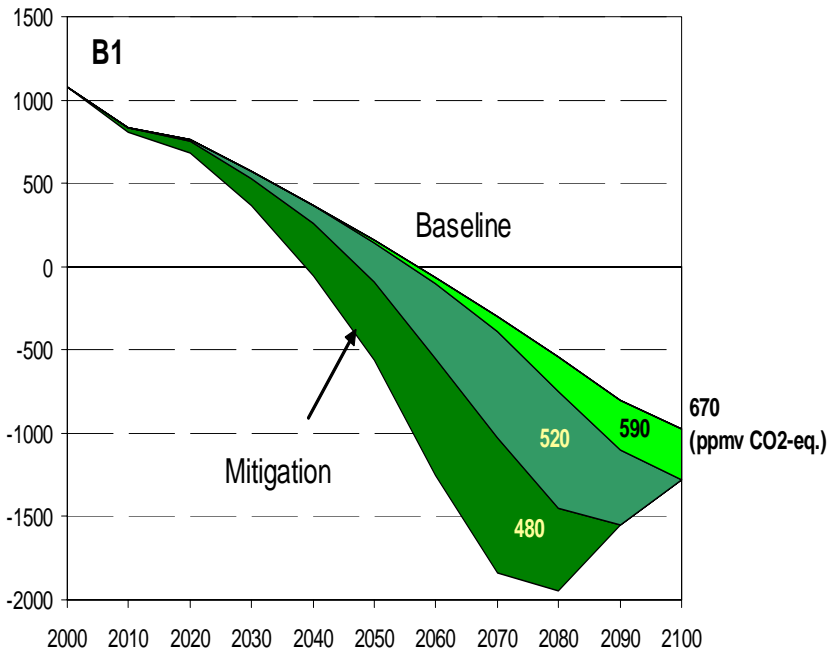
Mitigation potential CH₄-N₂O gases - INSEA (EU15)





The Role of Sinks in Mitigation

(Net emission in MtC/year)





More Information on INSEA project and results

- Today 18:00-20:00 Room Wind
- Side Event:
 - **Economics of the mitigation potentials in the European agriculture, forestry and land use sector**
Research results on European estimates of physical and economic responses from the agriculture and forestry sector to GHG related policies will be presented to illustrate potential ancillary benefits and trade-offs. Global scenarios will focus on the economics of avoided deforestation



Framework Programme 7

- **These activities will be continued in the Environment (including Climate Change) Theme i.e.:**
 - Activities on Climate Change
 - ◆ Carbon cycle integration & interaction
 - ◆ Climate Change Impacts
 - ◆ Response strategies: adaptation and mitigation
 - Assessment tools
 - ◆ Land Use



Information

- **More information on EU environment research:**
<http://www.cordis.lu/sustdev/environment/>
- **Information on FP6:**
<http://europa.eu.int/comm/research/nfp.html>
- **Information on FP6 calls relevant for environmental research:** <http://www.cordis.lu/sustdev/environment/calls.htm>
- **Future research:**
http://europa.eu.int/comm/research/future/index_en.html
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