



EUROPEAN
COMMISSION

Community Research

Research for Sustainable Food and Farming Systems

EU Joint Organic Congress
Odense, 30-31 May 2006

Dr Christian Patermann
Directorate Biotechnology, Agriculture and Food
Research
DG Research European Commission

FOOD QUALITY AND SAFETY



- Organic farming research has and is still playing an important role in agricultural research through the EU Framework Programmes
- This congress, under the umbrella of the ERA-NET CORE-Organic, gathers scientists in the field of OF from most of the EU funded research projects in FP5 and FP6
- Concrete results are available
- EU policy is supporting continuously research in OF (EU action plan, FP6, FP7...)

Key Action 5 Projects

Key Action 5: Sustainable Agriculture, Fisheries, Forestry, Rural Development

FIVE MAIN RESEARCH AREAS

5.1 Sustainable agriculture and fisheries



5.2 Non-Food Uses



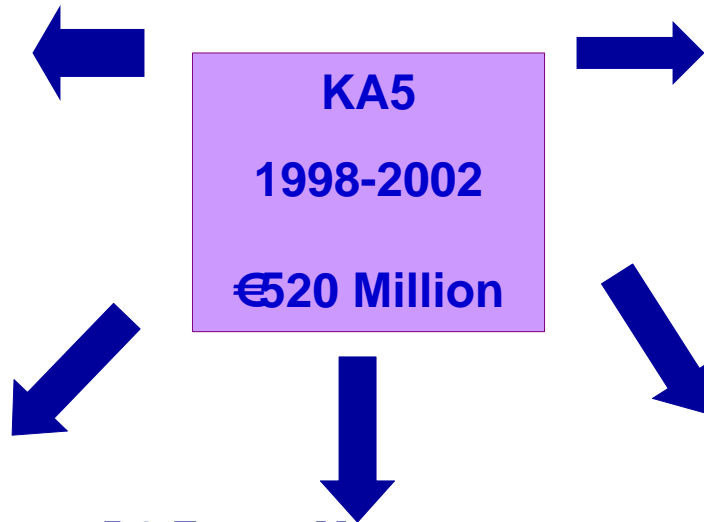
5.3 Forest Management Forestry Wood Chain



5.5 Rural Development



5.4 Support for Policies





5.1.1 Sustainable Agriculture

ANIMAL SYSTEMS

- Genomics for Meat Quality, Antibiotic detection resistance and alternatives, Animal Feed, Improved Milk and Egg production, Animal transport, Pathogens, Scrapie/BSE : for ex. **Susporkqual**

PLANT SYSTEMS

- Quality improvements for Strawberry Rice Cereals Asparagus Oilseeds, **Organic Farming**, Plant viral fungal bacterial and insect diseases, **Natural Control Mechanisms**, **Grassland quality**, Soil improvements, Compost production, Organic Waste treatments, Nitrogen usage: for ex. **Organic Inputs Evaluation**



5.4. SUPPORT TO POLICIES

5.4.2. CAP measures and related activities

- Bond Scheme for Farmers, Econometric Modelling, Livestock Rearing Policy, Soil Erosion Policy, **Organic Farming Marketing.**
For instance: EU-CEE-OFP; EISfOM



5.5. RURAL DEVELOPMENT

5.5.2. Integrated development

- Cultural Landscapes, Agri-environmental programmes, Tourism, Organic marketing, Social capital: for ex. OMIaRD

The 6th Framework Programme

P8 - Scientific Support to Policies (OF&F projects funded in 2003/04/05)

Area 1.2 - Tools and assessment methods for sustainable agriculture

STREP

EEC 2092/91
REVISION

Revision of the EU regulation 2092/91 on organic agriculture (868.000 €from EU)

SSA

ORGAP

European Action Plan for Organic Food and Farming (878.000€from EU)

STREP

REPCO

Replacement of copper fungicides (1.930.480€from EU)

ORWINE

Organic viticulture and wine making (1.400.000 €from EU)

The 6th Framework Programme

TP5 - Food Quality & Safety (OF&F-related projects funded in 2003/2004)

Total food chain

Safer production methods

IP

STREP

Quality Low Input

CLEANFRUIT

Food

Sterile Insect Technique against Medfly in

Improving quality and safety in the Organic and Low-input food chain in Europe

European citrus & fruits

(12.444.696 €from EU)

(2.367.000 €from EU)

(from SSA specific call)

ENVIRFOOD

Environmental friendly food production systems

(80.000 €from EU)

The 6th Framework Programme

TP5 - Food Quality & Safety (OF&F-related areas for 2004/2005)

Total food chain	Safer production methods	
<p>Topic 1.1 Increasing fruit consumption ... from environmentally friendly production methods (IP) <u>ISAFRUIT</u> (15.303.470 €)</p>	<p>Topic 6.2 Sustainable apiculture and honey production (STREP) <u>BEE SHOP</u> (1.865.000€)</p>	<p>(from SSA specific call) <u>CHANNEL</u> (392.850€ from EU) Project specifically directed to the 10 new Member States</p>
<p>Topic 1.2 Traditional food production systems (IP) <u>TRUEFOOD</u> (15.500.000)</p>	<p>Topic 6.9 Rational use of water for quality and safe food products (STREP) SAFIR-Irriquial</p>	

The 6th Framework Programme

TP5 – OF&F-related topics for 2006

Total food chain

Safer production methods

Improving the quality of pork
and pork products (IP)

Q-Porkchains

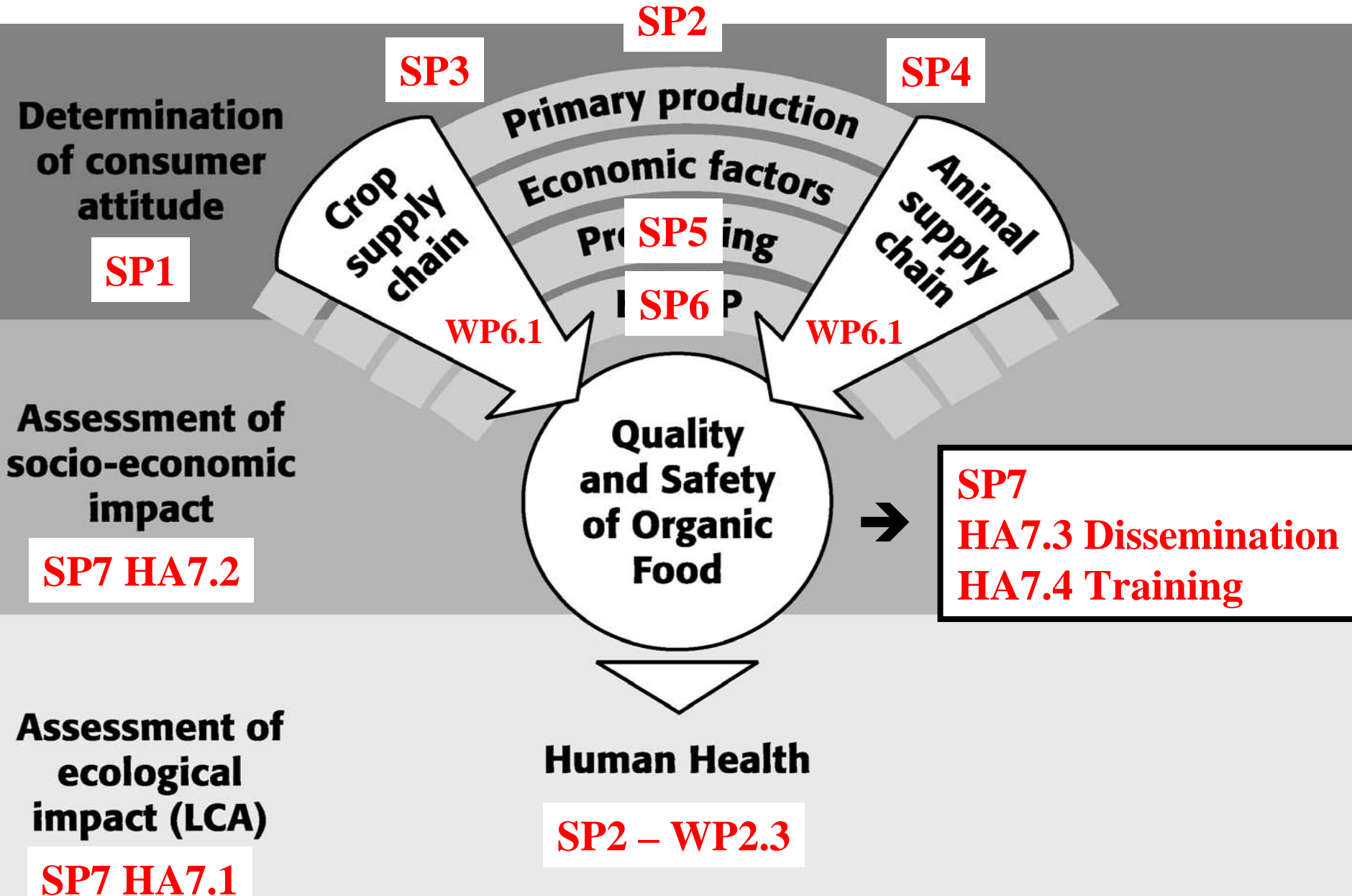
(14.500.000 €)

Reduction of pesticides in crop
production (NoE)

ENDURE

(11.200.000 €)

Quality Low Input Food



CORE-Organic

- CORE Organic is a trans-national partnership initiated as a part of the European Commission **ERA-NET** Scheme, which intends to step up cooperation between national research activities.
- The aim is to enhance the quality, relevance and utilisation of resources in European research in organic food and farming through coordination and collaboration.
- Initially, the initiative comprises 11 countries, but it is open to include all European countries with a national research programme for research in organic food and farming.
- Financial data on the programme level of the 11 partner countries showed that in 2005 more than 40 Million Euro were spent for research in organic food and farming.



EUROPEAN
COMMISSION

Community Research

Seventh Framework Programme

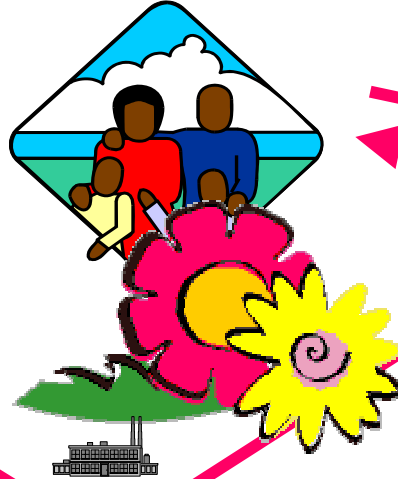
General philosophy in the specific
programme

THE EUROPEAN KNOWLEDGE-BASED BIOECONOMY

QUALITY ASSURANCE STRATEGIES
TRACEABILITY, CONSUMER SCIENCE

STABILITY - BIODEGRADABILITY
FUNCTIONALITY (Chirality)

SOCIETAL NEEDS



“Fork to Farm”
Food, health
and well-being

Life
sciences &
biotechnology for
sustainable non-
food products +
processes

ADVANCED FOOD
TECHNOLOGIES, FOOD QUALITY
DETERMINANTS, NUTRITION

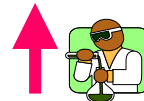
PROCESSING

WHITE BIOTECH
CLEAN BIOPROCESSES
RAW MATERIALS/WASTE

LOW INPUT FARMING - BIODIVERSITY
ANIMAL HEALTH - RURAL DEVT.

PRODUCTION

GREEN/BLUE BIOTECH
OPTIMISED RAW MATERIALS



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



Sustainable biological resources from land, forest, and aquatic environments

- Enabling research ('omics', converging technologies, **biodiversity**) for micro-organism, plants and animals
- **Improved crops and production systems incl. organic farming**
- Sustainable, competitive and **multifunctional agriculture**, forestry and rural development
- **Animal welfare**, breeding and production
- **Aquaculture**
- Infectious diseases in animals, including zoonoses
- Policy tools for agriculture and rural development



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

- **Consumer, societal**, industrial and health aspects of **food and feed**
- Nutrition, diet related diseases and disorders
- Innovative food and feed processing
- **Improved quality** and safety of **food, beverage and feed**
- Total food chain concept
- **Traceability**





Activity 3:

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

- Improved crops, feed-stocks, marine products and biomass for energy, environment, and high added value industrial products; novel farming systems
- Bio-catalysis; new bio-refinery concepts
- Forestry and forest based products and processes
- **Environmental remediation** and cleaner processing



FP7: Expected Time-table

- Work programme for the first two years is under preparation
- Budget still under discussion (EP-Council)
- First call will be in December 2006
- **Organic farming** included but need also to relate to other topics that can be mutually beneficial to OF/conventional farming: not to create a marginal research 'niche' in this area

Conclusions

- **Very interesting and positive outcomes of the Congress;**
- **Very good dissemination of research results to a broad audience of scientists and stakeholders in the sector;**
- **Encouraging exchange of views and identification of future research needs : significant for FP7 development;**
- **Regular biennial event on organic farming to share experience and ideas;**
- **Strong need for integration of the new Member States and,**
- **Prepare for the new comers (Bulgaria, Romania, Turkey and Croatia).**



EU funded research Programmes

More general information on EU-funded research activities:

www.cordis.lu

For Food Quality and Safety research:

<http://www.cordis.lu/food/home.html>

For EU-funded Agricultural research:

http://europa.eu.int/comm/research/agriculture/index_en.html

DG RTD, Directorate E - Biotechnology, Agriculture and Food research