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Research Prospects in the Area of Food Quality and Safety in FP7

Food, **A**griculture and **F**isheries, and **B**iotec hnology

K n o w l e d g e - B a s e d B i o - E c o n o m y (K B B E)

Dirk POTTIER

Unit E3 – Food, Health and Well-being

Directorate E – Biotechnologies, Agriculture, Food

Directorate-General for Research

European Commission

Agriculture and **F**isheries,
and **B**iotec hnology

Knowledge-Based Bio-Economy (KBBE)





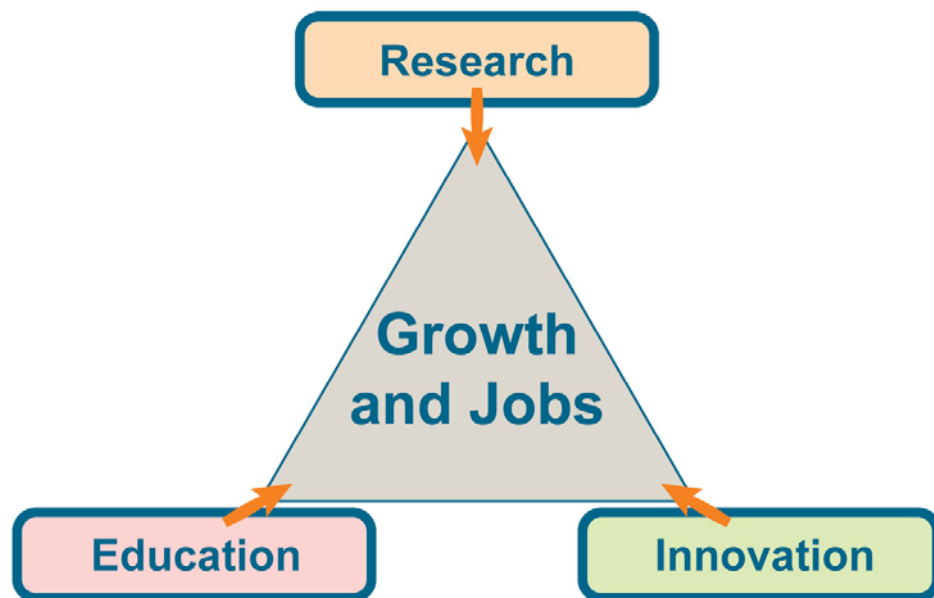
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Lisbon strategy: promoting the knowledge-based economy

S&T contribute to the
Lisbon objectives:

- economic **growth, jobs**,
- **quality of life** (GSM, remote working, safe roads, etc.)
- **social** challenges: fight **poverty**, improve human **health**
- **environmental** protection





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Food, Agriculture and Fisheries, and Biotechnology



How can life-sciences and biotech research could contribute to the **Lisbon objectives** on economic growth, employment, sustainable development?

By building a Knowledge-Based Bio-Economy (KBBE)

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What is the Knowledge-Based Bio-Economy?

The knowledge base: Advances in Life Sciences and Biotechnologies in convergence with other technologies such as nanotechnologies, chemistry, information technologies...

The Bio-Economy: Includes all industries and economic sectors that produce, manage or otherwise make use of biological resources including bio-waste.

The European bio-economy has an approximate market size of over € 1.5 trillion, employing more than 22 million people.

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* estimated to be 10 % of sales within the chemical industry accounting for €125 million by 2010



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Why the Knowledge-Based Bio-Economy?

- Respond to social, environmental and economic challenges:
 - climate change: mitigation and adaptation
 - High quality, safe food produced in a sustainable way
 - Food-related disorders (cardiovascular, obesity ...)
 - Sustainable and competitive bio-based economy (low carbon)
 - Inclusive and healthy Europe
- Involve all stakeholders (incl. industry) in research
- Support CAP, CFP, white paper on nutrition, overweight and obesity
- Respond quickly to emerging research needs

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Theme 2 KBBE: Activities

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KBBE - Activity 2.1
Sustainable production
and management of
biological resources
from land,
forest and aquatic
environments



KBBE - Activity 2.2
“Fork to farm”: Food
(including sea-food),
health and well being



KBBE - Activity 2.3
Life sciences,
biotechnology
and biochemistry for
sustainable non-food
products and
processes



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FP7 KBBE - Activity 2.2

“Fork to farm”: Food (including sea-food), health and well being



Food, Agriculture and Fisheries, and Biotechnology

EU food facts and figures

- Leading manufacturing sector
- Employs 4.1 million
- EUR 800 billion annual turnover
- 283 000 food companies (99% SMEs)

The food and drink industry is one of Europe's most important and dynamic economic sectors. The European Commission aims to maintain its competitiveness while taking account of the requirements of the Community's policies and the European Union's international obligations.



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Knowledge-Based Bio-Economy (KBBE)

- 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

www.cordis.europa.eu/fp7/kbbe/home_en.htm





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European Added Value

“The value resulting from EU support for RTD activities which is additional to the value that would have resulted from RTD funded at regional and national levels by both public authorities and the private sector”

Attainment of EAV enshrined in EU legislation as one of the prime justifications for EU RTD actions. Need to evaluate EAV embedded in the EC Treaty. EAV considered a selection criteria.

EU can run world-class facilities

Bringing together partners from different backgrounds

Working in international consortia is more than doing research

European Added Value

The added value of co-working for users, academia and industry

Avoid unnecessary duplication of facilities and themes

Supports national, EU and international policy developments



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Call FP7-KBBE-2010-4 Food Programme

Publication date: 30 July 2009

Budget: € 56.95 million

13 Topics + 1 (Africa call)

Deadline: 14 January 2010

Evaluation: March/April 2010 (one stage)

Up to one proposal retained per topic

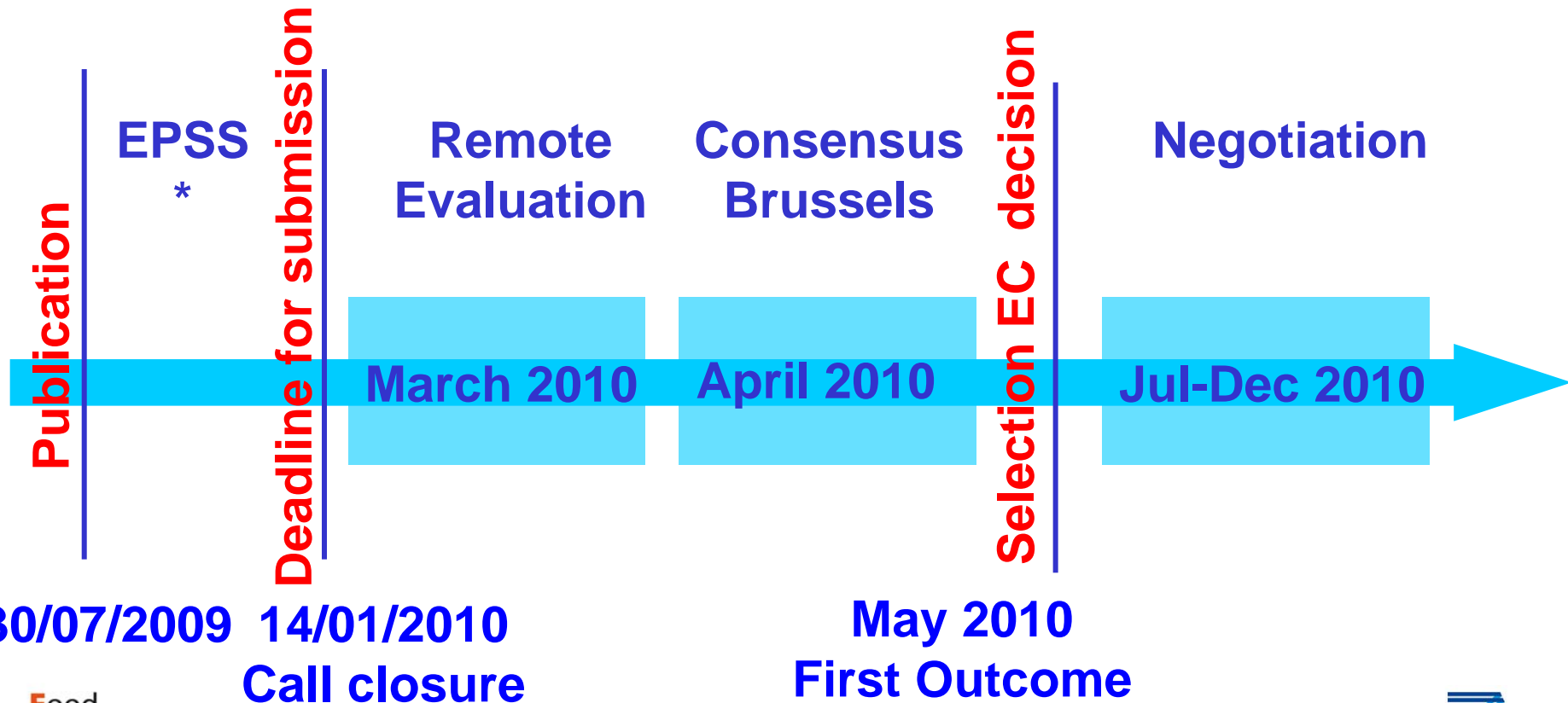


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FP7-KBBE-2010-4

Evaluation and selection process *indicative* planning



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* Electronic Proposal Submission Service (EPSS)
now available for this call for proposals





Activity 2.2.4 – Food Quality & Safety

KBBE.2010-2-4-01: Improving integration in food safety research

Transitional gaps have occurred ... requiring efforts to strengthen capacity in areas of trans-national scientific collaboration, standardisation and scientific policy support... joint research in the area of food safety, reinforcing cooperation and better exploiting research synergies across the enlarged EU and the Candidate countries. Activities will also include researcher exchanges, joint workshops, joint publications, etc.

(CP-FP EC Max contribution €3 Mio)

KBBE.2010.2.4-02: Identification of the effect of processing on food contaminants

... improved understanding of the effects of food processing and storage on chemical hazards and improved processing monitoring techniques

(CP-FP EC Max contribution € 3 Mio) participation of relevant industrial partners, in particular SMEs, and/or other end-users is essential



Activity 2.2.4 – Food Quality & Safety

... more

KBBE.2010.2.4-03: Quality and safety aspects of feed

...traceable, appropriate and safe feed, including unconventional/emerging feed,...promoting safe feed for safe food production. Investigating the relationship between quality of feed and quality of food of animal origin (CP-FP EC Max contribution €3 Mio)

WORK PROGRAMME 2010

New Features

Topics of special interest for Enlarged European Union

- 4 topics

- KBBE.2010.2.3-03: Health-value-added food products for population groups at risk of poverty
- KBBE.2010-2.4-01: Improving integration in food safety research
- KBBE.2010.2.5-01: Transparency of food pricing
- KBBE.2010.2.6-01: Strengthening cooperation in food safety research in the enlarged European Union



Activity 2.2.3 – Food Processing

...more

KBBE.2010.2.3-03: Health-value-added food products for population groups at risk of poverty

...To develop affordable health-value-added food for targeted social groups in different European countries, especially low-income populations.

Understanding existing barriers to healthy nutrition and ways to overcome this (CP-FP EC Max contribution € 3 Mio)



Activity 2.2.5 – Total Food Chain & Environmental impacts

KBBE.2010.2.5-01: Transparency of food pricing

...support improvement of the food supply chain performance against the background of the recent food crisis, ...examine pricing mechanisms as a means to identify deficiencies or malfunctioning of the food supply chain. Models for efficiency improvements, also covering logistics, will be developed. Wide EU participation, solution oriented, focus on staple foods.

(CP-FP EC Max contribution € 1 Mio) participation of the retail sector and of relevant industrial partners, in particular SMEs to be considered

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Activity 2.2.6 – European Research Area

KBBE.2010.2.6-01: Strengthening cooperation in food safety research in the enlarged European Union

A coordination action... connect research and policy actors in the enlarged European Union and the Candidate countries, in order to fill transitional gaps and achieve a broader network and deeper collaboration between them

(CSA Coordinating EC Max contribution € 1 Mio)

participation from the enlarged EU and the Candidate countries to be considered

Activity 2.4 – Other Activities

KBBE.2010.4-01: Strengthening the implementation of durable integration in FP6 Networks of Excellence

... strengthening the implementation of durable integration in Networks of Excellence (NoEs) from Thematic Priority 5 – Food quality and safety of FP6. Funding to NoEs that give proof of high-level institutional commitment with realistic plans towards integration in the near future. A realistic strategy to attract funding from other than FP funding resources.

(CSA Coordinating EC Max contribution € 1 Mio)

Only NoEs from Calls 1 and 2 of FP6 Thematic Priority 5 that are relevant under FP7 Theme 2 Activity 2.1 and 2.2 are eligible

More than one project may be funded under the maximum budget of the topic of € 3 Mio



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SMEs in WP2010: Why?

- Medium/long term vision: 7-year programme
- Significant commitment: € million 285 to be spent on SME research
- Strong support: up to 75% of total costs for research and up to 100% for management and training
- Optimal protection: IPR rules particularly attentive to the needs of SMEs
- Facilitated bureaucracy: reduced need for financial checks and bank guarantees





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Dissemination in WP2010

- A number of topics specifically address knowledge transfer
- All consortia should propose **appropriate measures to increase the use of results** by industry, policy makers and society.
- Innovation-related aspects need to be clearly addressed and **action plans** should be presented. These should show the optimal use of project results and **would be considered an integral task of each project.**



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Conclusions

- Scientific research is recognised as a major generator of knowledge for sustainable development, economic growth and competitiveness
- The critical importance of S&T knowledge has given it the status of capital asset, and therefore an object of investment
- Knowledge cannot be reduced to the status of a commodity. Think of the user groups and their role in the consortium



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Web Sites

www.cordis.europa.eu/fp7/kbbe/home_en.htm

EU research: www.europa.eu.int/comm/research

Sixth Framework Programme:

www.cordis.lu/fp6/home.html

www.cordis.lu/fp6/food.html

Seventh Framework Programme:

www.cordis.europa.eu/fp7/home.html

Information requests, Europe Direct

www.ec.europa.eu/research/index.pg=enquiries

DG Research Site:

www.europa.eu.int/comm/research/index_en.html

RTD info magazine:

www.europa.eu.int/comm/research/rtdinfo/

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Thank you

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