



The 7th Research Framework Programme in the area "Food, Agriculture, Fisheries and Biotechnology"

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Cooperation – Collaborative research

10 Thematic Priorities

	€ M *
1. Health	6.050
2. Food, Agriculture, Fisheries and Biotechnology	1.935
3. Information and Communication Technologies	9.110
4. Nanosciences, Nanotechnologies, Materials and new Production Technologies	3.500
5. Energy	2.300
6. Environment (including Climate Change)	1.900
7. Transport (including Aeronautics)	4.180
8. Socio-Economic Sciences and the Humanities	610
9. Space	1.430
10. Security	1.350

* Council's agreement of July 2006

Launching FP7 – Conference for Information Multipliers – Brussels, 7-8 February 2007





The term 'bio-economy' covers all industries and economical sectors that produce, utilize or manage biological resources.

The European bio-economy has an annual turnover of more than 1500 billion € and employs 22 million people.

Sector	Annual turnover (billions of €)	Employment (millions)	Source
Food & Beverages	850	4.1	CIAA
Agriculture	210	15	COPA-COGECA
Fisheries	8	0.5	FAO
Paper, Leather, Pulp, etc.	400	0.3 direct (4.0 indirect)	CEPI
Forestry, Wood	150	2.7	CEI-BOIS
Industrial Biotech	50		McKinsey
total	1618	22.1	

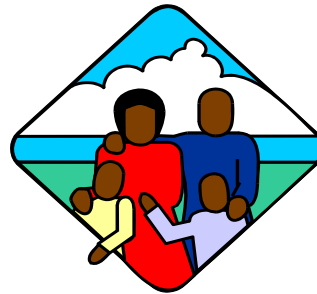


THE EUROPEAN KNOWLEDGE- BASED BIOECONOMY

QUALITY ASSURANCE STRATEGIES TRACEABILITY, CONSUMER SCIENCE

STABILITY - BIODEGRADABILITY FUNCTIONALITY (Chirality)

SOCIETAL NEEDS



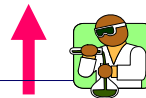
**“Fork to Farm”
Food, health and well-being**

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

ADVANCED FOOD TECHNOLOGIES, FOOD QUALITY DETERMINANTS, NUTRITION

LOW INPUT FARMING - BIODIVERSITY ANIMAL HEALTH - RURAL DEVT.

PROCESSING



PRODUCTION

**WHITE BIOTECH
CLEAN BIOPROCESSES
RAW MATERIALS/WASTE**

**GREEN/BLUE BIOTECH
OPTIMISED RAW MATERIALS**

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





Food, Agriculture, Fisheries and Biotechnology: Rationale

- Build a European **Knowledge-Based Bio-Economy (KBBE)**
- Respond to **social and economic challenges**:
 - High quality food and sustainable food production
 - Food-related disorders (cardiovascular, obesity ...)
 - Infectious animal diseases and zoonoses
 - Sustainable agriculture/fishery and climate change
 - Clean biomaterials from renewable bio-resources
- Involve all stakeholders (incl. industry) in research
- Support CAP and CFP
- Respond quickly to emerging research needs

→ 4 Fs: Food, Fiber, Fuel and Feed





2. Food, Agriculture, Fisheries and Biotechnology

2.1.

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

2.2.

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

2.3.

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



Food, agriculture, fisheries and biotechnology research:

What's new ?

- Pillar 1 “Sustainable production and management of biological resources” and Pillar 3 “Life sciences and biotechnology for sustainable non-food products and processes”
- Some topics under pillar 1 & 3 partly financed in FP4 and FP5 (BIOTECH, FAIR, QoL, etc.), but FP6 efforts scattered and not of sufficient critical mass (some activities under materials, energy and environment) providing no synergies
- Technology platforms and their input in the area of plant biotechnology, forestry, industrial biotechnology, animal breeding, global animal health, and food
- Pillar 2 “Food, health and well-being” ensures continuity of FP6 “Food quality and safety” research



Food, agriculture, fisheries and biotechnology research:

New in FP 7: Some FP 6 activities outside the Thematic Priorities will be integrated in the FP 7 Themes !

such as

- Integration of new and emerging science and technologies (NEST)
- Support to policy development (CAP, CFP, public health, food safety, animal health, ...)
- International co-operation (SICA)
- ERA-Nets, ERA-Nets +

... to be defined on the level of the specific programme or workprogramme

Food, agriculture, fisheries and biotechnology research: Clear need to prioritise !

“More with less”

- Theme 2 FP7 “Food, Agriculture, Biotechnology” has much broader scope than priority 5 “Food Quality&Safety” of FP6 (added activity 3 on biotech products and processes for non-food applications)
- Research to support policies, international cooperation and coordination of national research is integrated into the themes
- Budget for first calls of theme 2 - FP7 comparable (or lower) than for priority 5 - FP6

Need to prioritise along the following criteria:

- New areas/topics not (little) covered in previous FPs.
- Continue/follow-up on successful EU research activities in order to achieve maximum impact.
- Preparatory actions for identifying priority topics/activity areas for future calls, i.e. analysis of certain research/technology options for addressing specific goals; in cooperation with TPs and ERA-NETs



Food, agriculture, fisheries and biotechnology research: Borderline with other FP7 themes

- Enabling/systems biology research on plants, animals and microbes complementary to systems biology for human health applications in theme 1.
- Complementary research relating to the management/conservation of natural resources and biodiversity is addressed under the “Environment including Climate Change” theme 6.
- Demonstration of bioprocesses for biomass conversion to energy/materials under this priority – up-scaling and complete process design under materials and energy themes (themes 4 and 5).



Approach in Theme 2 in respect to:

- **Overlaps with other Themes**
- **Joint Calls**
- **Cooperation with 3rd Countries / Matching Calls**



Work programme 2007

- **CALL KBBE-2007-1**
 - Publication: 22 Dec 2006
 - CSA, SCP, LCP & NoE covering all activities and areas
 - covering full 2007 budget (190.09 M €)
 - 1 step evaluation procedure (exceptionally also for LCP & NoE !!)
 - Deadline for proposal submission: 2 May 2007

- **CALL KBBE-2007-2A**
 - Publication: May 2007
 - but already part of Work Programme 2007 !!!**
 - LCP & NoE covering all activities and areas
 - 2 step evaluation procedure
 - Deadline for proposal submission: 11 Sep 2007, 31 Jan 2008
 - Final evaluation (Feb 2008)

- **CALL ERANET-2007-RTD**
 - 2.0 M € for Theme 2

Theme 2-specific requirements and some general aspects of high importance



EUROPEAN
COMMISSION

community research

- Specific participation rules for Coordination and Support Actions (coordinating type) applied for Specific International Co-operation Actions (SICA):
3 entities established in a Member States or Associated Countries plus 3 partners in International Co-operation Partner Countries (ICPC)
(instead of 2 + 2)
- Funding thresholds (to be regarded as an eligibility criterion !):
 - small Collaborative Projects: up to 3 M€
 - large Collaborative Projects, Networks of Excellence: between 3 and 6 M€
 - Coordination and Support Actions: up to 1 M€
- 2 ERA-NETs (mediterranean agriculture, animal health) and 4 NoE (zoonoses, consumer sciences, high-tech food processing, 'pharming') in KBBE-1 and -2A
- One project per topic will be funded
- List of SICAs in the Work Programme (WP) with indications on type/region and minimum number of third countries being requested
- Footnotes on complementary topics open in other 'Themes'
- Indicative topics of the 2008 work programme outlined in 2007 work programme

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SEVENTH FRAMEWORK
PROGRAMME

This presentation shall neither be binding nor construed as constituting a commitment by the European Commission



Deadlines for Theme 2

KBBE-2007-1: 2 May 2007 (all funding schemes, one stage approach)

KBBE-2007-2A: Large Collaborative Projects and Networks of Excellence

two stage submission and evaluation approach

call publication: 8 May 2007

1st stage deadline: 11 September 2007

2nd stage (full proposal) deadline: 31 January 2008



Further information

- **EU research:** <http://europa.eu.int/comm/research>
- **Sixth Framework Programme:**
<http://www.cordis.lu/fp6/home.html>
<http://www.cordis.lu/fp6/food.html>
- **Seventh Framework Programme:**
<http://www.cordis.europa.eu/fp7/home.html>
- **Research DG Site:**
http://europa.eu.int/comm/research/index_en.html
- **RTD info magazine:**
<http://europa.eu.int/comm/research/rtdinfo/>
- **Information requests, Europe Direct:**
<http://ec.europa.eu/research/index.cfm?pg=enquiries>

