



Main Features

The **Seventh Framework Programme for research, technology development and demonstration** (abbreviated **FP7**) is the current (2007-2013) Framework Programme for Research and Technological Development set up by the European Union (EU) in order to fund and promote European research and technological development. It is a collection of the actions at EU level. As was the case for the Sixth Framework Programme (FP6), its main objective is to further the construction of the European Research Area. Its specific goals are fourfold:

- To gain leadership in key scientific and technology areas
- To stimulate the creativity and excellence of European research
- To develop and strengthen the human potential of European research
- To enhance research and innovation capacity throughout Europe

The 22 Of December 2006, the European Commission published a Call for Proposals, **requesting interested entities to submit proposals** with the aim to be founded.

Projects must respond to a specific call for proposals.

Call data. Theme 2: Food, Agriculture and Fisheries, and Biotechnology

- Call identifier: *FP7-KBBE-2007-1*
- Date of publication: 22 December 2006
- Deadline: **2 May 2007** at 17.00 hrs (Brussels local time)
- Indicative budget: **€ 192 090 000 FROM 2007 BUDGET**

The "Food, Agriculture and Fisheries, and Biotechnology" theme is built around three major "activities":

- Sustainable production and management of biological resources from land, forest and aquatic environments;
- Fork to farm: Food (including seafood), health and well-being;
- Life sciences, biotechnology and biochemistry for sustainable non-food products and processes.

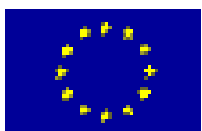
OBJECTIVE OF THEME 2: FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGY

Objective:

Building a European *Knowledge Based Bio-Economy*¹ by bringing together science, industry and other stakeholders, to exploit new and emerging research opportunities that address social, environmental and economic challenges: the growing demand for safer, healthier, higher quality food and for sustainable use and production of renewable bio-resources; the increasing risk of epizootic and zoonotic diseases and food related disorders; threats to the sustainability and security of agricultural, aquaculture and fisheries production; and the increasing demand for high quality food, taking into account animal welfare and rural and coastal contexts and response to specific dietary needs of consumers

Source: *Workprogramme Theme2*

¹The term "bio-economy" includes all industries and economic sectors that produce, manage and otherwise exploit biological resources (and related services, supply or consumer industries), such as agriculture, food, fisheries and other marine resources, forestry, etc.





FUNDING SCHEMES

Across all these themes, support to trans-national cooperation will be implemented through:

1. Collaborative projects

Support to research projects carried out by consortia with participants from different countries, aiming at developing new knowledge, new technology, products, demonstration activities or common resources for research. The size, scope and internal organisation of projects can vary from field to field and from topic to topic. Projects can range from small or medium-scale focused research actions to large scale integrating projects which mobilise a significant volume of resources for achieving a defined objective. Projects may also be targeted to special groups such as SMEs.

Small collaborative projects (“small or medium-scale focused research actions”) are projects with a requested Commission contribution up to € 3 million⁴, large collaborative projects (“large-scale integrating projects”)

2. Networks of Excellence

Support to a Joint Programme of Activities joint research programmes implemented by a number of research organisations integrating their activities in a given field, carried out by research teams in the framework of longer term cooperation. The implementation of this Joint Programme of Activities these joint programmes will require a formal commitment from the organisations integrating part of their resources and their activities.

Networks of Excellence have a budget between € 3 million and € 6 million

3. Coordination and support actions

Support to activities aimed at coordinating or supporting research activities and policies (networking, exchanges, trans-national access to research infrastructures, studies, conferences, etc). These actions may also be implemented by means other than calls for proposals.

Coordination and Support Actions (CSA) have a budget up to € 1 million.

For more information. Please visit www.spas-project.eu



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

Activity 2.1. focus on

The -omics technologies:

- genomics, proteomics & metabolomics, systems biology, bioinformatics and converging technologies
- micro-organisms, plants and animals

Land-based biological resources:

- improving crops and their production systems, including organic production
- quality production schemes, and the impact of GMOs
- research on plant health, sustainable, competitive, multifunctional agriculture and rural development, including forestry
- animal welfare, breeding, production and health, including the control of infectious diseases and zoonoses
- threats to the sustainability and security of food production systems

Aquatic-based biological resources:

- sustainability and competitiveness of fisheries providing the scientific and technical basis for fisheries management support to the sustainable development of aquaculture, including breeding and welfare
- the development of tools needed by policy makers and others, in the fields of agriculture, fisheries, aquaculture and rural and coastal development
- works on the socioeconomic and ethical context of production

TOPIC ADDRESSES FOR THE FIRST CALL FOR PROPOSALS

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
Activity 2.1: Sustainable production and management of biological resources from land, forest and aquatic environments.		
2.1.1	<i>KBBE-2007-1-1-01: Development of new tools and processes to support R&D in crop plants: molecular breeding</i>	Small collaborative project
2.1.1	<i>KBBE-2007-1-1-02: Mining genomics information of farm animals to generate new information on the genetic basis of phenotypes important to sustainable animal production</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-01: Annual Food crops with improved tolerance to multiple abiotic stresses</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-02: Genomics for cereal improvement for food, feed and non-food uses</i>	Large collaborative project
2.1.2	<i>KBBE-2007-1-2-03: Development of more efficient risk analysis techniques for pests and pathogens of phytosanitary concern</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-04: Reducing the need for external inputs in high-value protected horticultural and ornamental crops</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-05: Novel forest tree breeding</i>	Large collaborative project
2.1.2	<i>KBBE-2007-1-2-06: Developing new methods for valuing and marketing of currently non-marketable forest goods and services</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-08: Reduction of N excretion in ruminants</i>	Large collaborative project
2.1.2	<i>KBBE-2007-1-2-09: From capture based to self-sustained aquaculture</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-10: Improving cost-efficiency in the fisheries</i>	Small collaborative project
2.1.2	<i>KBBE-2007-1-2-11: Improving research in support to scientific advice to fisheries management outside EU waters</i>	Coordination and support action (Coordinating)



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ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.1.2	KBBE-2007-1-2-12: Consolidate alliances with third countries in the field of aquaculture	Coordination and support action (Coordinating)
2.1.2	KBBE-2007-1-2-13: Mitigating adverse impacts of fisheries	Small collaborative project
2.1.2	KBBE-2007-1-2-14: The structure of fish populations and traceability of fish and fish products	Small collaborative project
2.1.3	KBBE-2007-1-3-01: Breeding tools for improved livestock products	Small collaborative project
2.1.3	KBBE-2007-1-3-03: Optimising research efforts for the development of the most effective tools for controlling infectious animal diseases	Coordination and support action (Coordinating)
2.1.3	KBBE-2007-1-3-04: Development of rational strategies for the eradication of bovine tuberculosis	Small collaborative project
2.1.3	KBBE-2007-1-3-05: Evaluating and controlling the risk of African Swine Fever in the EU	Small collaborative project
2.1.3	KBBE-2007-1-3-06: Emerging vector-borne diseases, in particular: West Nile fever, Rift Valley Fever and Crimean-Congo haemorrhagic fever	Coordination and support action (Coordinating)
2.1.4	KBBE-2007-1-4-01: Developing the KBBE	Coordination and support action (Supporting)
2.1.4	KBBE-2007-1-4-02: Enabling efficient transfer of technology in the knowledge-based bio-economy	Coordination and support action (Supporting)
2.1.4	KBBE-2007-1-4-03: The farm of tomorrow	Small collaborative project
2.1.4	KBBE-2007-1-4-04: GMO cost-effective and crop-specific co-existence measures	Small collaborative project
2.1.4	KBBE-2007-1-4-05: Enlargement network - Agro-economic policy analysis of the accession and the candidate states and the countries of Western Balkan	Coordination and support action (Supporting)
2.1.4	KBBE-2007-1-4-06: Comparative analysis of factor markets for agriculture across the Member States	Small collaborative project
2.1.4	KBBE-2007-1-4-07: Costs of different standard setting and certification systems for organic food and farming	Small collaborative project
2.1.4	KBBE-2007-1-4-08: Drivers and limits of enhanced trade in agricultural and food products	Small collaborative project



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TOPIC ADDRESSES FOR THE FIRST CALL FOR PROPOSALS (Activity 2.1)

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.1.4	<i>KBBE-2007-1-4-09: Trade and agricultural policies - India</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-10: Containment of Sharka virus in view of EU-expansion</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-11: Assessing the impact of Rural Development policies (including Leader)</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-12: Policy and institutional aspects of sustainable agriculture, forestry and rural development in the Mediterranean partner countries</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-13: New sources of employment in rural areas</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-14: Cost of production using FADN data</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-15: Assessing the socio-economic consequences and costs benefits of measures promoting good animal welfare</i>	<i>Coordination and support action (Supporting)</i>
2.1.4	<i>KBBE-2007-1-4-16: Establishment of an information platform on the protection and welfare of animals</i>	<i>Coordination and support action (Supporting)</i>
2.1.4	<i>KBBE-2007-1-4-17: Models for the extrapolation of MRLs from one species to another</i>	<i>Coordination and support action (Coordinating)</i>
2.1.4	<i>KBBE-2007-1-4-18: External costs of pesticides</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-19: Governance for an operational regional</i>	<i>Small collaborative</i>
ecosystem approach to fisheries management		
2.1.4	<i>KBBE-2007-1-4-20: Addressing uncertainty and complexity – governance for fisheries management</i>	<i>Small collaborative project</i>
2.1.4	<i>KBBE-2007-1-4-21: Interactions of fisheries and aquaculture of bluefin tuna (BFT)</i>	<i>Coordination and support action (Supporting)</i>



TOPIC ADDRESSES FOR THE FIRST CALL FOR PROPOSALS (Activity 2.2)

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.2.1	<i>KBBE-2007-2-1-01: Networking of food consumer science in Europe and development and application of social and behavioural sciences to food research</i>	<i>Network of Excellence</i>
2.2.1	<i>KBBE-2007-2-1-02: Developing research tools for food consumer science in the Western Balkan Countries</i>	<i>Small collaborative project</i>
2.2.1	<i>KBBE-2007-2-1-03: Food labelling and consumer behaviour</i>	<i>Small collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-01: Effect of diet on the mental performance of children</i>	<i>Large collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-02: Impact of diet on ageing</i>	<i>Large collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-03: Malnutrition in developing countries</i>	<i>Large collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-04: Optical technologies for monitoring the human nutrition status and the onset of nutrition-related health problems</i>	<i>Small collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-05: Diet for patients in hospitals and at home: disease-related malnutrition</i>	<i>Small collaborative project</i>
2.2.2	<i>KBBE-2007-2-2-06: Impact of exogenous factors in the development of allergy</i>	<i>Small collaborative project</i>
2.2.3	<i>KBBE-2007-2-3-01: Smart control for improved food and feed technologies</i>	<i>Large collaborative project</i>
2.2.3	<i>KBBE-2007-2-3-02: Assessment and improvement of existing food and feed technologies</i>	<i>Small collaborative project</i>
2.2.3	<i>KBBE-2007-2-3-03: (Bio-)Technologies for the production of food additives, colorants, and flavours</i>	<i>Small collaborative project</i>
2.2.3	<i>KBBE-2007-2-3-04: Nano-devices for quality assurance, food safety and product properties</i>	<i>Small collaborative project</i>

Activity 2.2: Fork to farm: Food (including seafood), health and well being.

Activity 2.2. focus on

- consumer, societal, cultural, industrial and health as well as traditional aspects of food and feed, including behavioural and cognitive sciences
- nutrition research works on diet-related diseases and disorders and the prevention of diseases
- innovative food and feed processing technologies enhancing safety assurance methodologies and the integrity of the food Chain
- improving food quality and safety in food, beverages and feeds and development of new ingredients and products
- environmental impacts on and of food and feed chains and their interactions with global change; total food chain concept, traceability and authenticity of food



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ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.2.4	<i>KBBE-2007-2-4-01: Exposure to food additives, flavourings, and migrants coming from food contact materials – Dietary intake models</i>	<i>Large collaborative project</i>
2.2.4	<i>KBBE-2007-2-4-02: Detecting contaminants in the food and feed chain</i>	<i>Large collaborative project</i>
2.2.4	<i>KBBE-2007-2-4-03: New methods for the monitoring and control of food-borne viruses</i>	<i>Small collaborative project</i>
2.2.4	<i>KBBE-2007-2-4-04: Innovative and safe packaging</i>	<i>Small collaborative project</i>
2.2.5	<i>KBBE-2007-2-5-01: Assessment of short and long term effects of</i>	<i>Small collaborative project</i>
<i>GMOs on human and animal health project</i>		
2.2.5	<i>KBBE-2007-2-5-02: Converging technologies and their potential for the food area</i>	<i>Small collaborative project</i>
2.2.5	<i>KBBE-2007-2-5-03: Development and application of computational biology as a complementary tool to in vivo and/or in vitro trials</i>	<i>Coordination and support action (Coordinating)</i>

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

Activity 2.3 focus on:

Improvement of raw materials and biomass:

- research for improved crops, forest products, feed-stocks, marine products and biomass for energy, the environment and high value-added products

Bioprocesses and products based on renewables:

- novel farming systems, bio-process and biorefinery concepts, and bio-catalysis new and improved micro-organisms and enzymes
- forestry and forest-based products and processes

Environmental biotechnology:

- utilisation of agro-industrial wastes and byproducts
- environmental bio-remediation
- cleaner bioprocessing

TOPIC ADDRESSES FOR THE FIRST CALL FOR PROPOSALS (Activity 2.3)

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.3.1	<i>KBBE-2007-3-1-01: PLANT CELL WALLS - Understanding Plant Cell Walls for optimising Biomass potential</i>	Large collaborative project
2.3.1	<i>KBBE-2007-3-1-02: ENERGY PLANTS - Novel plants for energy production</i>	Small collaborative project
2.3.1	<i>KBBE-2007-3-1-03: GREEN OIL - Plants providing oils of the future</i>	Large collaborative project
2.3.1	<i>KBBE-2007-3-1-04: FOREST PRODUCTS - New forest based products and processes</i>	Large collaborative project
2.3.1	<i>KBBE-2007-3-1-05: BIO-VET-PHARMING -Plant made recombinant pharmaceuticals for animals</i>	Network of Excellence
2.3.1	<i>KBBE-2007-3-1-06: BIOPOLYMERS - Biological Polymers from plants</i>	Large collaborative project
2.3.1	<i>KBBE-2007-3-1-07: FUTURE CROPS - Technical, socio-economic, environmental and regulatory aspects of future non-food crop systems</i>	Coordination and support action (Coordinating)
2.3.1	<i>KBBE-2007-3-1-08: BIOMASS SUPPLY AND IMPACT - Identification of optimal terrestrial and aquatic biomass and waste for Bioproducts</i>	Coordination and support action (Coordinating)
2.3.2	<i>KBBE-2007-3-2-01: LIGNOCELLULOSIC ENZYMES - Development of cellulases for lignocellulosic biomass pre-treatment</i>	Small collaborative project
2.3.2	<i>KBBE-2007-3-2-02: LIPID ENZYMES - Development of enzymes for lipid modification and activation</i>	Small collaborative project
2.3.2	<i>KBBE-2007-3-2-03: DESIGNER ENZYMES - Improved biocatalysts for bioprocesses</i>	Large collaborative project



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TOPIC ADDRESSES FOR THE FIRST CALL FOR PROPOSALS (Activity 2.3-4)

ACTIVITY/ AREA	TOPICS CALLED	FUNDING SCHEMES*
2.3.2	<i>KBBE-2007-3-2-04: MICROBIAL STRESS IN CONTAINMENT - Study of microbial stress for more robust industrial micro-organisms</i>	<i>Coordination and support action (Coordinating)</i>
2.3.2	<i>KBBE-2007-3-2-05: IMPROVED MICROBES - Metabolic engineering and modelling</i>	<i>Coordination and support action (Coordinating)</i>
2.3.3	<i>KBBE-2007-3-3-01: SYNTHETIC BIOLOGY FOR THE ENVIRONMENT - The use of Synthetic Biology for the solution of environmental problems</i>	<i>Coordination and support action (Coordinating)</i>
2.3.3	<i>KBBE-2007-3-3-02: IMPROVED MICROBES FOR THE ENVIRONMENT - Microbial gene expression under condition of stress</i>	<i>Large collaborative project</i>
2.3.3	<i>KBBE-2007-3-3-03: ANIMAL BY-PRODUCTS - Novel methods of treatment of animal by-products for the production of</i>	<i>Small collaborative project</i>
<i>substances with biologically valuable functional properties</i>		
Activity 4: Other activities.		
2.4.1	<i>KBBE-2007-4-01: National Contact Point Network</i>	<i>Coordination and support action (Supporting)</i>