













International co-operation in

Food, Agriculture and Fisheries and Biotechnology

Achievements and Prospects of EU-INDIA co-operation





Not legally binding







International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

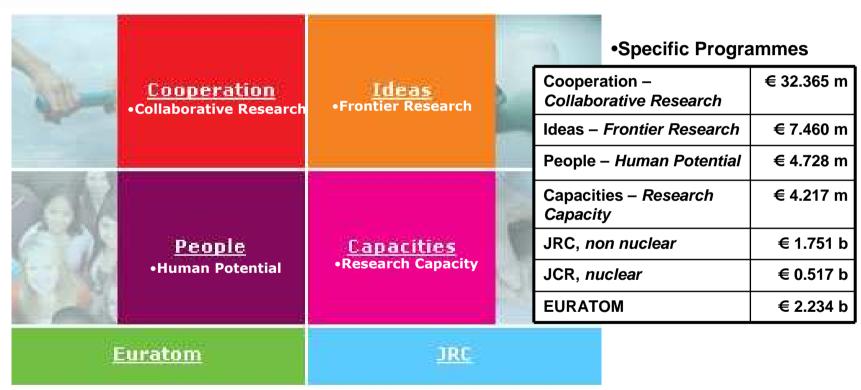
- FP7 Food, Agriculture, Fisheries and Biotechnology
- International co-operation in FAFB:
 Principles, Objectives, Strategy and Modalities
- > Results from 2007-2009: EU-India co-operation
- Prospects for 2010





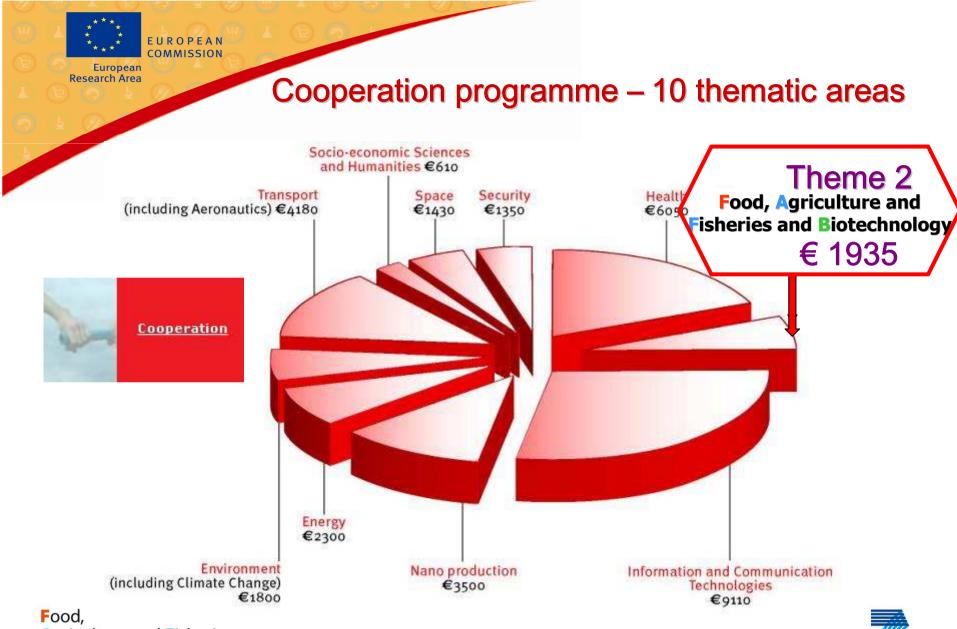


The 7th EU Framework Programme for Research and Development 2007-2013 total funding 53 billion €



Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)





Food,
Agriculture and Fisheries,
and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

Not legally binding

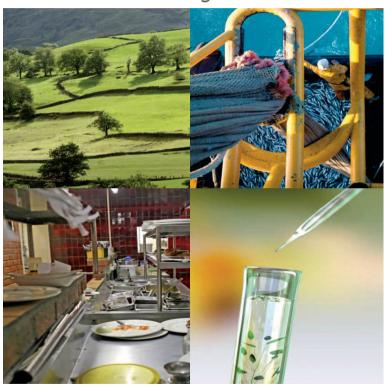
SEVENTH FRAMEWORK PROGRAMME



FP7 – Co-operation *Theme 2*

Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)



Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

RATIONAL

Life-sciences and biotech research can contribute to the Lisbon objectives on economic growth, employment, sustainable development

building a

SEVENTH FRAMEWORK

Knowledge-Based Bio-Economy (KBBE)



FP7 – Co-operation *Theme 2*

Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

OBJECTIVES







Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

OBJECTIVES



- Respond to social, economic and GLOBAL challenges:
 - Food security, quality and safety
 - Sustainable agriculture / fishery and climate change
 - Food-related disorders
 - Infectious animal diseases and zoo-noses
 - Renewable energy and biomaterials
- Support other EU policies such as CAP, CFP, Forest Strategy, Animal Health, Environment, Energy, Development and Trade Policies
- Respond quickly to emerging research needs
- Support the coordination of National Research Programmes - ERA-NETS



Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Not legally binding



Some major trends/challenges affecting the Bio-Economy

- Feeding the increasing world population
- 6.5 bn in 2005 _ 8.3 bn in 2030
- increasing calorie consumption per capita
- rising meat demand up 70% by 2030
- Coping wih high food and commodity prices and with difficulties in maintaining food security
- Competition for land use
 - food, non-food, amenity
- Coping with climate change
 - spread of plant/animal diseases
 - new varieties/crops
 - coping with unpredictability
 - water issues
 - soil degradation
- Addressing increasing environmental considerations
 - minimizing further agricultural land use
 - habitat protection
 - maintenance of biodiversity
- Adjusting to consumer demands
 - food safety and quality issues
- Biosecurity concerns



Recent EU policies and strategies

- Renewed Sustainable Development Strategy
- Green paper on adaptation to climate change
- Strategic Energy Technology Plan
- Integrated Maritime policy
- Revision of EU strategy for sustainable aquaculture
- Animal Health Strategy
- Strategy on nutrition, overweight and obesity related health issues
- Organic Farming Action Plan
- Forestry Action Plan
- Food,
 Agriculture and Fisheries,
 and Biotechnology
 Knowledge-Based Bio-Economy (KBBE)





FP7 – Co-operation *Theme 2*

Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

3 ACTIVITIES of RESEARCH



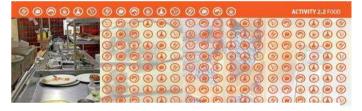


3 KBBE - ACTIVITIES



FP7 KBBE - Activity 2.1

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



FP7 KBBE - Activity 2.2

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



FP7 KBBE - Activity 2.3

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

Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

- Enabling research ('omics' converging technologies, bioinformatics, biodiversity) for micro-organism, plants and animals
- Competitive, sustainable and multifunctional agriculture, forestry, fishery and aquaculture
- Animal health production and welfare; animal diseases
- Marine resources, fishery, aquaculture
- Development of policy strategies for knowledge based bioeconomy, agriculture, fishery as well as rural and coastal areas
- 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
- Novel sources of biomass and bioproducts
- Marine and fresh-water biotechnology (blue biotechnology)
- Industrial biotechnology: novel high added-value bio-products and bioprocesses
- Biorefinery
- Environmental biotechnology
- Emerging trends in biotechnology

International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

FP7 Food, Agriculture, Fisheries and Biotechnology

- International co-operation in FAFB:
 Principles, Objectives, Strategy and Modalities
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THIRD COUNTRY

is a country which is not a European Union Member State:

- 1- Associated countries, associated candidate countries (Croatia, FYR Macedonia, Iceland, Israel, Liechtenstein, Norway, Serbia, Switzerland, Turkey, Albania, Montenegro
- 2- Industrialised countries (Australia, Canada, USA, New Zealand....)
- 3- International Cooperation Partner Countries (ICPC):

ICPC is a third country that the European Commission classifies as a low-income, lower-middle-income or upper-middle-income country

- Countries neighbouring the EU (Mediterranean Partners, Western Balkans, Eastern Europe and Central Asia)
- Emerging economies (e.g. Brazil, China, India, Russia, South Africa)
- Developing countries (from ACP, ASIA, Latin America)
- Least Developed Countries, with focus on MDGs

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)





International Cooperation in FP7 - PRINCIPLES

Efforts should be made to strenghten international co-operation towards:

- Reaping the full benefits of internationalization of R&D
- Contributing to the production of global public goods
- Further integrating the EU into the world-wide research community

FP7 should contribute towards promoting world-wide

GROWTH,
SUSTAINABLE DEVELOPMENT and
ENVIRONMENTAL PROTECTION, also by addressing climate change

Where possible, the FP will contribute to meeting the Millennium Development Goals by 2010

DECISION No 1982/2006/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Seventh Framework Programme



International Cooperation in FP7

Food, Agriculture and Fisheries and Biotechnology Research

The context

Agriculture, food and biotechnology research is a priority for most countries: highly industrialised, emerging and developing economies

The socio-economic challenges addressed by research in this theme

Sustainable agriculture/fishery under climate change
Increasing need for high quality and sustainable food production
Food-related disorders (cardiovascular, obesity ...)
Infectious animal diseases and zoo-noses
Renewable energy sources

are GLOBAL and require international S&T cooperation



International Cooperation in FP7

Food, Agriculture and Fisheries and Biotechnology Research

Objectives:

- ➤ Contribute to global sustainable development and foster Europe's S&T excellence in partnership with the world
- > Enhance EU competitiveness, through strategic research partnerships with third countries
- ➤ Address scientific challenges requiring broad international efforts
- ➤ Address global societal and economic challenges
- ➤ Support research of specific interest for developing countries in recognition of UN Millennium Development Goals

3 KBBE - ACTIVITIES



FP7 KBBE - Activity 2.1

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

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FP7 KBBE - Activity 2.2

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



FP7 KBBE - Activity 2.3

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

Food, Agriculture and Fisheries, and Biotechnology

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Novel sources of biomass and bioproducts

- Marine and fresh-water biotechnology (blue biotechnology)
- Industrial biotechnology: novel high added-value bio-products and bioprocesses
- Biorefinery
- Environmental biotechnology
- Emerging trends in biotechnology

International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

STRATEGY - DRIVERS

EU policies

- EC Communication A Strategic European Framework for International Science and Technology Co-operation
- other main EU policies Development, Agriculture, Fisheries, Environment, Energy, Health, Trade...
- International policies: UN Millennium Development Goals...

Bilateral and Biregional Thematic Dialogues

- S&T Bilateral Co-operation Agreements Road-maps from JSTCC
 (Australia, Argentina, Brazil, Canada, Chile, China, Egypt, India, Korea, Mexico, Morocco,
 New Zealand, Russia, South Africa, Tunisia, Ukraine, United States)
- Bilateral Working Groups and Task Forces (e.g. Canada, Russia, USA...)
- Bi-regional fora (e.g. ASEAN, Latin America, MED, EECA, including INCO-Nets...)

and INTERNATIONAL FORA, PLATFORMS, WORKING GROUPS... relevant to this theme



EU- India S&T co-operation POLICY DRIVE

The EU-India Strategic Partnership

(includes a heading on "Building on synergies in science and technology")

and its Action Plan agreed in Delhi in 2005

The EU-India Science and Technology

bilateral agreement

Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)



Food, Agriculture and Fisheries and Biotechnology

EU - INDIA DIALOGUES and SUPPORT

❖ Dialogues and joint initiatives with DBT Dpt of Biotechnology, Gvt of India

❖ bio-NCP : JNU



- EU-India Workshop on Biotechnologies: Prospects and Strategies for the next 25 Years, DBT, Delhi, April 2007
- Nutraceutical Summit, including EU-IN Day, Mumbai Feb 2008
- Meetings EC RTD-E and DBT (Bxl: April 2008, Oct 2008, March 2009; Delhi: Nov 2006, April 2007, Fe 2008)
- EU-INDIA Co-ordinated Call EC & DBT, 2008
- EU-India Days, Delhi Nov 2009
- Information Day on EU-India co-operation in the 7th Framework Programme, JNU, Delhi, Feb 2007
- FP7 Info Days and bioNCP Meetings, Brussels (Nov 2008, Oct 2009...)

International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

- > FP7 Food, Agriculture, Fisheries and Biotechnology
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MODALITIES of International Cooperation in

Food, Agriculture and Fisheries and Biotechnology

1. Participation of Third countries (= non EU) in FP7

GENERAL OPENING

All activities / topics are open to participation by Third Countries

Third countries (other than AC): as additional partners

TARGETED OPENING:

Some topics <u>encourage</u> international cooperation with some TC Third countries (other than AC): as additional partners (encouraged)

• SICAs - Specific International Co-operation Actions

Topics with <u>mandatory</u> participation of some TC - ICPC International Co-operation Partner Countries : as COMPULSORY partners





any legal entity established in an International Cooperation Partner Country (ICPC) <u>may</u> receive a Community financial contribution



MODALITIES of International Cooperation in

Food, Agriculture and Fisheries and Biotechnology

2. Co-ordination of FP7 & EU with Third countries Programmes

COORDINATED CALLS

Synchronised Calls, by FP7-Theme2 and a Third country, on topics of shared interest and with co-funding (ex Russia 2008, India 2009)

TWINNING of projects

between FP7-Theme 2 and related programmes from Third countries, on on-going projects throughout this Theme, since 2008 (ex Canada, Argentina)

ERA-Nets

Coordination of European National Research Programmes, including some third countries programmes (e.g. agriculture for development, agriculture for Mediterranean countries)

GLOBAL INITIATIVES and PARTNERSHIP INITIATIVES

CSA for co-ordination of programmes activities between EU and Third countries

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)





IMPLEMENTATION

Yearly Call for proposals



See Calls publications on : www.cordis.europa.eu/fp7/kbbe/home_en.htm



Not legally binding

KBBE Work Programmes 2007-2010:

52 SICAs / topics with mandatory TC and 45 topics targeted to TC

⇒ 35% of KBBE topics call for international co-operation

	WP	2007	WP 2008	WP 2009	WP 2010	
	Call 1 +ERANET	Call 2A	Call 2B + ERANET	Call 3 + Biorefineries + ERANET	Call 4 + A frica + Ocean +I nfluenza + ERA NET	
Total topics called	78	23	50	72	56	
SICAs & topics with mandatory TC participation	6	2	10	19	15	
Targeted topics	17	4	10	11	4	
General topics	55	17	30 40		29	
Coordinated call			Russia 2 topics (Act 3)	India 2 topics (Act 2)		
Twinning			Canada (Act 3, 2)	Argentina (Act 1, 2)	open	

International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

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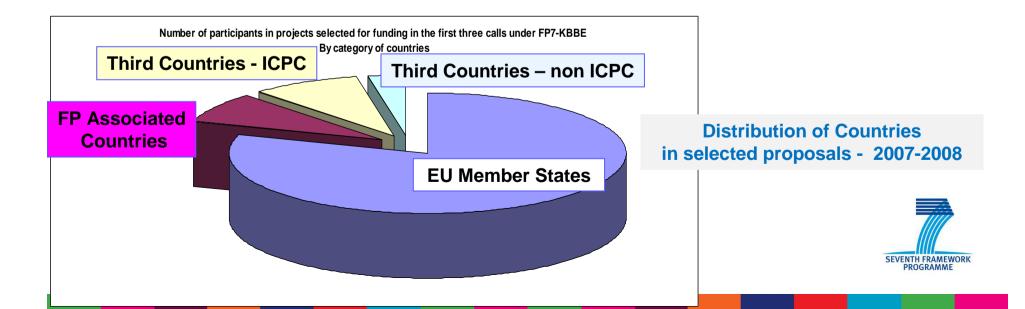






Strong Response and Participation by Third Countries in FP7-KBBE calls (2007-2008)

	Call 1	Call 2A	Call 2B	Total
Response by Third Countries in submitted proposals	9,44 %	9,6%	17,2 %	12 %
Participation of Third Countries in proposals selected for funding	8,70%	10,10%	18,50%	11,90%
Success rate of Third Countries	18,5 %	22,70%	19,20%	19,4 %





In 2007-2009:

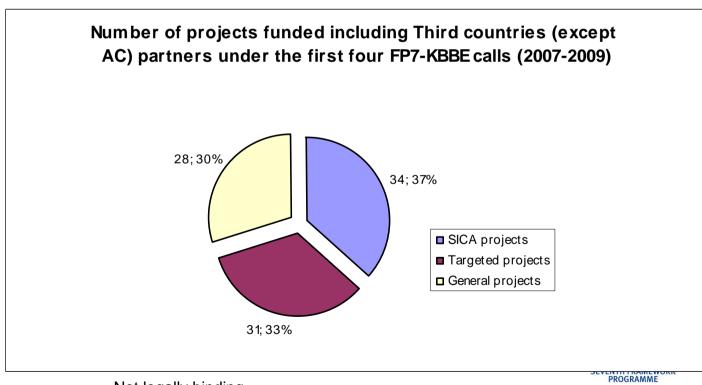
93 PROJECTS with TC partners (others than AC) (out of 189 tot)

(301 partners from 57 different Third Countries – excluding AC)

50 % of all projects selected include Third Countries partners

TC succeeded in all types of topics

Food,
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Knowledge-Based Bio-Economy (KBBE)



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Participation by different REGIONS EUROPEAN COMMISSION Research Area Third countries (except the AC) participation in proposals proposed for funding. 2007-FP7-KBBE-2007-1, FP7-KBBE-2007-2A, FP7-KBBE-2008-2B BY REGION African Caribbean Pacific 2008 **Non-ICPC** ■ Asia Eastern Europe and Central Asia ■ Western Balkan non-ICPC **MED ASIA** 2009 EECA **Non-ICPC** 25; 24% ACP MED ■ Latin America **ASIA** ASIA 21; 19% **MED** ■ Easter n Eur opa and Central Asia 22; 20% ■ Industrialised Third countries TH FRAMEWORK 21; 19%

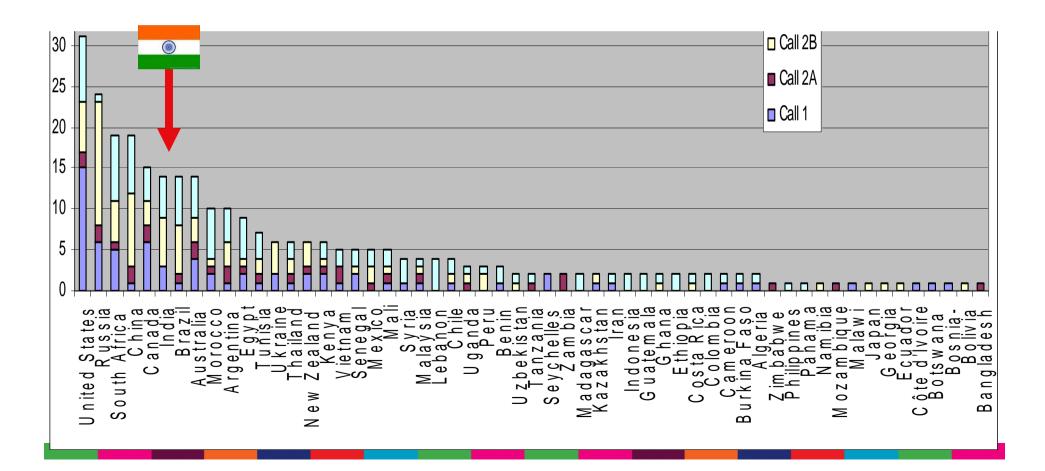


PARTICIPATION of Third Countries

in selected KBBE projects - 2007-2009

301 partners from 57 different Third Countries (others than AC) in successful proposals

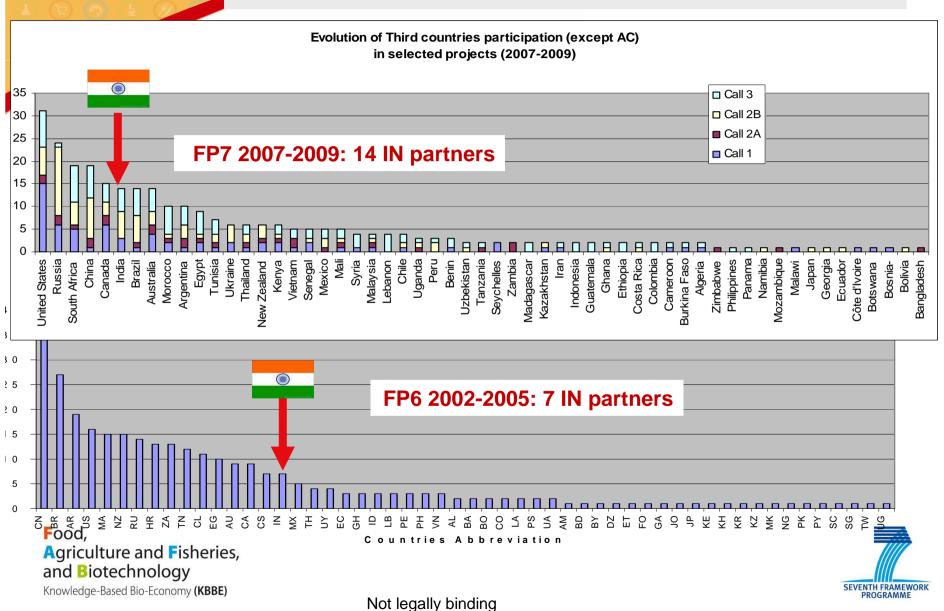
Top 10: US; RU; SA, CN; CA, IN; BR, AU; MA, AR

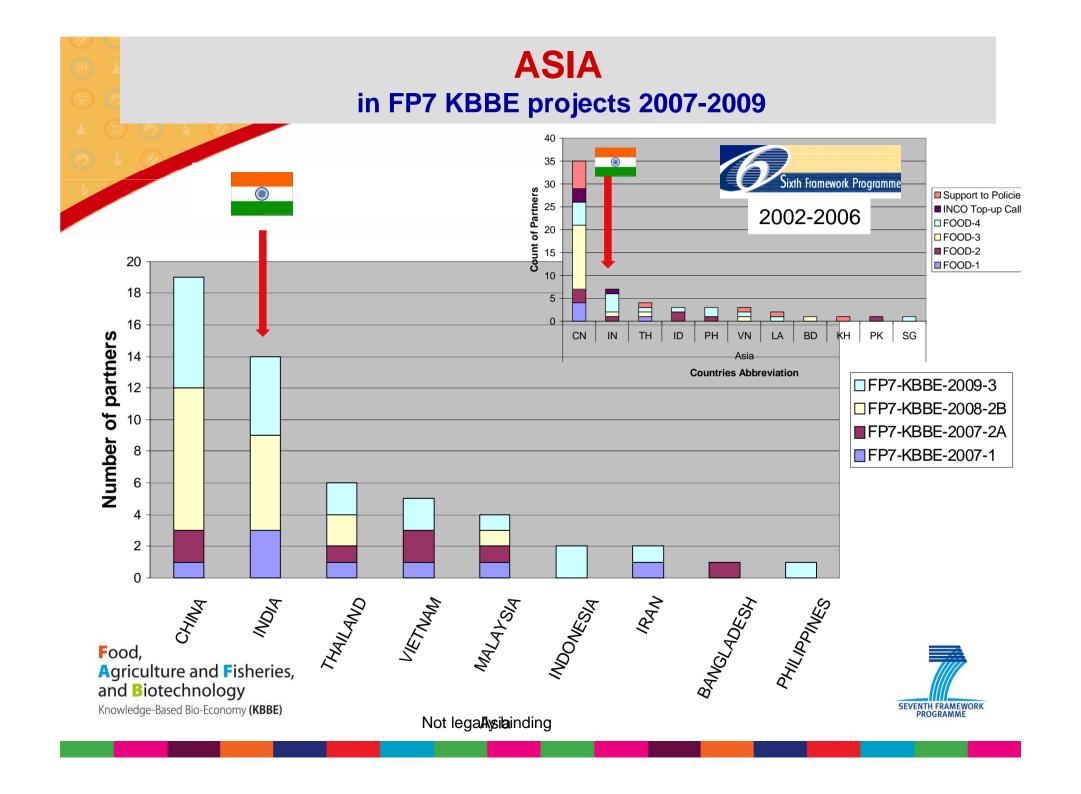




PROGRESS of INDIA PARTICIPATION

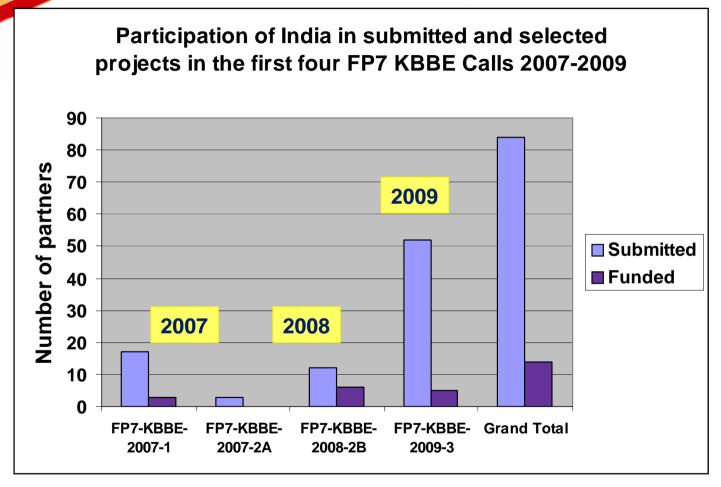
from FP6 to FP7







Participation of India 2007-2009



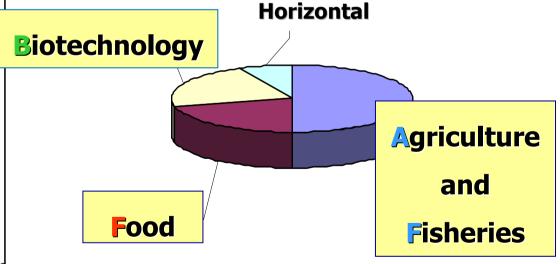
Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Success rate: 16.7%



Participation of India by ACTIVITY in 2007-2009 FP7-KBBE Calls

Participation of India by ACTIVITY in 2007-2009 FP7-KBBE Calls



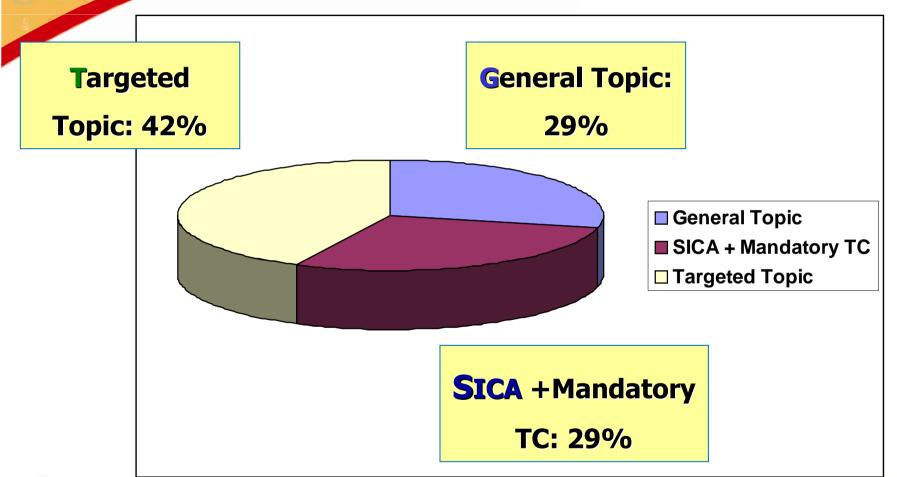
- 2.1 Agriculture and Fisheries
- **2.2 Food**
- 2.3 Biotechnology
- **□ 2.4 Other activities**







Participation of India by INSTRUMENT in 2007-2009 FP7-KBBE Calls



Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)





10 FP7 projects with India

in Food, Agriculture, Fisheries and Biotechnology

FP7 projects with INDIA in the area of Food, Agriculture and Fisheries, and Biotechnology Research

2007-2009

10 projects + 2 co-ordinated projects + new one under negotiation...

CATALOGUE

http://cordis.europa.eu/fp7/kbbe/home_en.html

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)





Sweet Sorghum: an alternative energy crop

Indian partner:

International Crops Research Institute for Semi Arid Tropics (IN)

Project Co-ordinator:

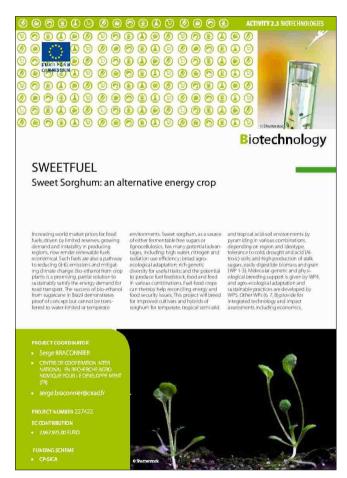
Centre de Coopération Internationale en Recherche Agronomique pour le **Développement (FR)**

Food, Agriculture and Fisheries, Call:FP7-KBBE-2008-2B and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

Not legally binding

Projects with India in FP7-KBBE: SWEETFUEL







Projects with Indian partners in FP7-KBBE Calls: JATROP

Jatropha curcas - Applied and Technological Research on Plant Traits

Indian partner:

- Tamil Nadu Agricultural University (IN)

Project Co-ordinator:

Plant Research International B.V.(NL)

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Call:FP7-KBBE-2009-3







Exploring Marine Resources for Bioactive Compounds: From Discovery to SustainableProduction and Industrial Applications

Indian partner:

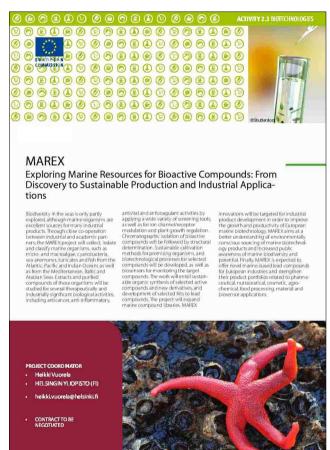
National Institute of Oceanography (IN)

<u>Project Co-ordinator</u>: Helsingin Yliopisto (FI)

Call:FP7-KBBE-2009-3

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Projects with India in FP7-KBBE: MAREX







Novel staple food-based strategies to Improve micronutrient status for better health and development in sub-Saharan Africa

Indian partners:

 International Crops Research Institute for the Semi-arid Tropics (IN)

Project Co-ordinator:

Wageningen Universiteit (NL)

Call:FP7-KBBE-2008-2B

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Projects with India in FP7-KBBE : INSTAPA



Food,

INSTAPA

Novel staple food-based strategies to improve micronutrient status for better health and development in sub-Saharan Africa

Mainutrition, and especially deficiencies of micronutrients like iron, and and vilamin A, undermine the progress towards most of the Millennium Development Goals. In otwer of the serious coverage, compliance and safety concerns of supplementation, this project arises to identify novel staple food-based approaches to improve micronutrient mahuntrition for better health and development of women and children in sub-Sahanan Africa.

It will focus on the improvement of millet sorghum-, maize-, and cassava based (complementary) foods.

The genetic potential of staple foods for increasing the micronutrient and antinutrient content will be evaluated and the

 determinants of success and failure of introducing biofortified staple foods in local farming systems will be assessed.

The efficacy of biofortified staple foods with adequate levels of providamin A will be determined. Concerning fortification, the project will develop and test new approaches to optimise iron and zinc fortification of staple food-based foods.

The project will develop improved traditional) processing methods of the staple foods concerned to enhance microutifient uptale and bioavailability. The developed approaches in the area of biofortification, for tification and processing will be compared on efficacy of

improving iron and zinc intake and status

The safety of the improved staple foods or immunity and infections will be evaluated as well as the impact on cognitive development of young children.

Through capacity building and strength enling the scientric and technological excellence in the field of stagle food-based approaches in Africa and Europe, the project seeks to significantly contribute to the improvement of the dietary quality of young children and their mothers living in resource poor areas in sub-Sahsand Africa.

New scientific knowledge will be exploited to strengthen the competitiveness of local SMEs targeted at evidence-based production of healthler (complementary) foods for African children.

PROJECT COORDINATOR

- inge D. Biouwer
- WAGENINGEN UNIVERSITEIT
- www.wau.nl
- O STREET, STRE

PROJECT NUMBER 21148

5.900.284 EURO

· CRISICA







Projects with India in FP7-KBBE : FMD-DISCONVAC

Development, enhancement and complementation of animal-sparing, Foot and-Mouth Disease vaccine-based control strategies for free and endemic regions

<u>Indian partner</u>:

- Indian Immunologicals Limited (IN)

<u>Project Co-ordinator</u>: Centrum Voor Onderzoek in Diergeneeskunde en Agrochemie-Coda (BE)

Call:FP7-KBBE-2008-2B

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Agriculture and Fisheries, FMD-DISCONVAC Development, enhancement and complementation of animal-sparing, foot-and-mouth disease vaccine-based control strategies for free and endemic regions Foot-and-mouth disease (FMD) is one of the world's most infectious diseases of The project seeks to balance these apparently contracting viewpoints by addressing specific gaps in our knowledge on all aspects of FMD control the use of high-potency monovalent or multivalent vaccines. The role of wildlife (buffalo, gazelles and wild boar) in FMDV livestock and continues to pose a significant threat to endemic and free maintenance and transmission will also be to enable implementation of enhanced animal-sparing vaccine-based control strategies tailored to the needs of free and endemic settings. maintenance and transmission will also be investigated. The project consists of seven different, yet interlinked, work packages (WP) each addressing one of the items listed in the Work Programme topic KBBE-2008-1-3-02, and led by renowned WP regions alike. The impact of FMD on society and international trade is high, thereby demanding stringent prevention, surveillance and control plans taken up Consequently, four main objectives have in crisis preparedness plans. On the other hand, there is a global increased demand been identified including (i) the in the field of EMD. innovement of the quality of existing for animal welfare and ethical considerations necessitating a decrea reliance on eradication of animals to As such, significant progress towards the objectives of the Community's Animal Health Strategy (2007-2013), the European development of new generation FMD control FMD virus (FMDV) spread, and on Technology Platform for Global Animal accines and diagnostics by applying Health, and the Global Roadmap for cutting edge technologies, and (iv) the enhancement of our knowledge on FMDV spread and transmission following improving the Tools to Control EMD in PROJECT COORDINATOR EC CONTRIBUTION





Coordination Actions in Support Of Sustainable And Eco Efficient Short Rotation Forestry In CDM Countries

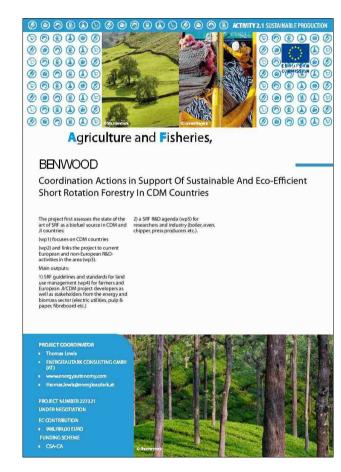
Indian partner:

Punjab Agricultural University

<u>Project Co-ordinator</u>: Energieautark Consulting GMBH (AT)

Call:FP7-KBBE-2008-2B Food,
Agriculture and Fisheries, and Biotechnology
Knowledge-Based Bio-Economy (KBBE)

Projects with India in FP7-KBBE : BENWOOD







Trade, Agricultural Policies and Structural Changes in India's Agrifood System; Implications for National and Global Markets

Indian partners:

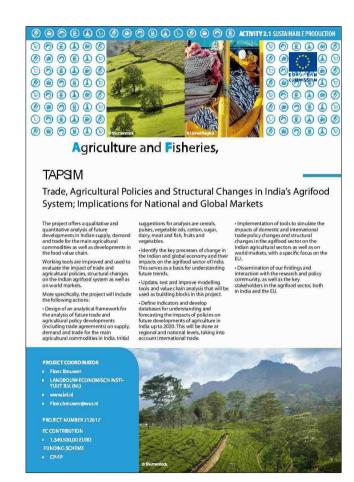
- 1. International Food Policy Research Organisation
- 2. ACCESS Development Services
- 3. Indira Gandhi Institute of Development Research

Project Co-ordinator: Landbouw-Economisch Instituut B.V. (NL)

Call:FP7-KBBE-2007-1

Food,
Agriculture and Fisheries,
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Knowledge-Based Bio-Economy (KBBE)

Projects with India in FP7-KBBE: TAPSIM







Projects with India in FP7-KBBE: NTB-IMPACT

Assessment of the impacts of non tariff barriers - NTB on the competitiveness of the EU and selected trade partners

Indian partner:

 Research and Information System for Developing Countries (IN)

Project Co-ordinator:

Centre de Coopération Internationale en Recherche Agronomique pour le Développement (FR)

Call:FP7-KBBE-2008-2B

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)



SEVENTH FRAMEWORK



Public Perception of Genetically modified Animals — Science, Utility and Society

Indian partners:

- Agri Biotech Foundation (IN)

Project Co-ordinator:

Wageningen Universiteit (NL)

Call:FP7-KBBE-2008-2B

Food,
Agriculture and Fisheries,
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Projects with India in FP7-KBBE : PEGASUS







Creating a Circle by extending the BIO-National Contact Points network to Third Countries

Indian partner:

Jawaharlal Nehru University (IN)

Project Co-ordinator:

Agenzia per la Promozione Della Ricerca Europea (IT)

Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

Projects with India in FP7-KBBE : BIOCIRCLE





EU - INDIA Co-ordinated Call in Food research

by the European Commission and the Department of Biotechnology (DBT),
Ministry of Science and Technology, Government of India

under the Call FP7 KBBE-2009-3

Under each of the following two topics:

- > Development of functional foods and ingredients
- Valorisation of by-products in food processing

Two FP7 projects have been selected for funding by the EC

Two complementary India projects have been selected for funding by DBT

The projects are being negotiated and will start soon



EU – INDIA coordinated projects FP7-KBBE-2009-3

Project Acronym	Project Title	EU Co-ordinator	
FUNCFOOD	Impact of agents with potential use in functional foods on biomarkers for induction of age related diseases	Stockholms Universitet, Sweden + IT, DE, SE, RS	
	New Advances in the integrated Management of food processing waste in India and Europe: use of Sustainable Technologies for the Exploitation of byproducts into new foods and feeds	Alma Mater Studiorum - University of Bologna, Italy + UK, ES, HU, NL, DE	

Each of these FP7 projects is co-ordinated with an equivalent and complementary INDIA project, supported by DBT - India





International co-operation in FP7

Food, Agriculture and Fisheries and Biotechnology

- FP7 Food, Agriculture, Fisheries and Biotechnology
- International co-operation in FAFB:
 Principles, Objectives, Strategy and Modalities
- > Results from 2007-2009: EU-India co-operation
- **▶** Prospects for 2010







KBBE Workprogramme and Calls 2010

KBBE 2010, general call for proposals: FP7-KBBE-2010-4

deadline: 14 Jan 2010 (47 topics 190 m€)

Africa: FP7-AFRICA -2010

ooperation' coordinated call with the Themes Environment and Health

deadline: 14 Jan 2010 (tot 63M€; 4 KBBE topics, 6.5m€)

The Ocean of tomorrow: FPZ-005

joint call with the Themes Environment, Tlansport, Energy, Socio-economic Sciences & **Humanities**

deadline: 4 14

coordinated call with the Theme Health

deadline: 29 Oct 2009 (tot 18 M€; 2 KBBE topics, 6 m€)

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



International Cooperation in KBBE Work Programme / Calls 2010



- Opening of all activities / topics
 to participation by Third Countries
- Specific International Co-operation Actions (SICA) (5)
 and other topics (10) with mandatory ICPC participation
- Targeted topics (4)
 particularly suited for international co-operation
- Dedicated call for AFRICA (4 topics)
- **Twinning** with programmes in Third Countries

Global Initiatives and Partnership initiatives

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



FP7-KBBE-2010:

a wide range of opportunities for International co-operation

Specific International

Co-operation Actions

5 topics

and other topics with mandatory TC

10 topics

OBLIGATORY participation of some ICPC Countries, including IN

Targeted Topics

5 topics

ENCOURAGED
participation of Third
Countries (including IN)

All other Topics

OPEN to participation by Third Countries (including IN)

Co-ordination with programmes from Third countries

Global initiatives (2 topics, all)

Partnership initiatives (2 topics, RU, CN)

TWINNING of projects (e.g. CA, AR...)



GLOBAL INITIATIVES in

Food, Agriculture and Fisheries and Biotechnology

A large number of research issues under this Theme are of global interest

Need to address these global challenges via:

- multilateral international effort
- coordination at programmes level (beyond project level)

The GLOBAL INITIATIVE are actions to co-ordinate similar R&D programmes from the EU and world-wide in order to tackle together global challenges via broad international efforts

Activities:

Establishment of an international forum of R&D programme managers from EU (FP + national programmes from MS/AC), Third countries and International organisation to co-ordinate <u>current</u> and <u>future</u> activities from all respective programmes:

- exchange of information, share objectives and create links between programmes
- organise multilateral networking and partnership initiatives among on-going projects from each programme
- formulate joint research agendas, jointly plan and implement new co-ordinated activities



GLOBAL INITIATIVES in

Food, Agriculture and Fisheries and Biotechnology

FP7-KBBE-2010-4

Full title	Funding Scheme	Third Countries/Region (Mandatory / Encouraged)
Promoting coordination and cooperation at international level of research programmes in the area of animal health, in particular infectious diseases including zoonoses	CSA-CA	Mandatory: Latin America and Asia Encouraged: all countries with bilateral agreements (incl INDIA), international organisations
Promoting global cooperation to facilitate and accelerate knowledge transfer on abiotic stress tolerance of plants	CSA-CA	Mandatory: Latin America and/or Asia and/or Eastern Europe and Central Asia and/or ACP and/or the Mediterranean Partner Countries Encouraged: all countries with bilateral agreements (incl INDIA), international

INDICATIVE BUDGET: 1.000.000 € each from FP7

(mirroring actions by third countries partners could be foreseen)



PARTNERSHIP INITIATIVES in

Food, Agriculture and Fisheries and Biotechnology

Definition:

Bilateral action of systematic co-ordination between R&D programmes from the EU (FP7 and national programmes) + another region / Third country, both operating in a given area of shared interest.

Scope:

Reinforcing synergies between the two counterparts programmes (EU and third country), for mutual benefit and optimised efficacy and advancement of R&D in a given area

Actions: building <u>systematic</u> links between large sets of research projects /consortia from the two counterparts programmes (networking meetings, short term visits, exchange of information, data, materials & methods...) for increased synergy and collaboration.

Rationale and conditions:

- A strong critical mass exist from both sides in a given R&D area of shared interest, but links between the programmes from each side are weak, insufficient or not systematic.
- Reinforcing links would provide synergetic effects, beneficial for both sides.
- The need and will of systematic bilateral co-ordination is recognised from both sides at programme management level and actions are supported from both parties.



PARTNERSHIP INITIATIVES in

Food, Agriculture and Fisheries and Biotechnology

FP7-KBBE-2010-4

Full title	Funding Scheme	Third Countries (Mandatory)
EU-Russia Partnership initiative in Microbes — Plants Biodiversities	CSA-CA	Russia
EU-China Partnership initiative in Plant Breeding	CSA-CA	China

INDICATIVE BUDGET: 500.000 € each from FP7

(mirroring actions by Third countries partners could be foreseen)

Food,
Agriculture and Fisheries,
and Biotechnology
Knowledge-Based Bio-Economy (KBBE)



SEVENTH FRAMEWORK PROGRAMME



Targeted topics -

ENCOURAGING TC participation

Full Title	Funding Scheme	Third Countries (encouraged)		
Strategies for personalised nutrition	CP - IP	Industrialised countries		
Sustainable culture of marine microorganisms, algae and/or invertebrates for high added value products	CP - FP	ICPC		
Microbial diversity and metagenomic mining for biotechnological innovation	CP - IP	US		
Sub-seabed carbon storage and the marine environment Food,	CP- IP Ocean	Australia, Japan, US		

Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)



FP7- KBBE ERANETs

9		W MA I B I				THIRD
	CALL	KBBE-TOPIC TITLE	PROJECT TITLE	ACRONYM	INSTR	COUNTRY
	FP7- ERANET- 2007-RTD	Coordination of Agricultural Research in the Mediterranean	Coordination of Agricultural Research in the Mediterranean	ARIMNET	CSA, Targeted topic for MED	Algeria, Egypt, Morocco, Tunisia
	FP7- ERANET- 2007-RTD	Coordination of European research in the area of animal health, including emerging threats, infectious diseases and surveillance	Coordination of European Research on Emerging and Major Infectious Diseases of Livestock	EMIDA	CSA	
	FP7- ERANET- 2008-RTD	Agriculture and sustainable development in a rural development context	Facing sustainability: new relationships between rural areas and agriculture in Europe	RURAGRI	CSA	
	FP7- ERANET- 2009-RTD	Organic agriculture	Coordination of European Transnational Research in Organic Food and Farming Systems	CORE_Org anic II	CSA	
	FP7- ERANET- 2009-RTD	Agricultural Research for Development	The Agricultural Research for Development Dimension of the Euroepan Research Area	ERA-ARD II	CSA	
	FP7- ERANET- 2010-RTD	Deepened and enlarged European cooperation in the area of Molecular Plant Sciences			CSA	



ERA-NETs in KBBE

Industrial Biotechnology

ARIMNET (MED)

EMIDA (Animal Health)

SAFEFOODERA

MARIFISH

EUPHRESCO (Plant Health)

CORE-Organic

Plant Genomics

Bioenergy

ERASysBio

ERA Trans-Bio (biotech SMEs)

ARD: Agricultural Research for Development

Food, Agriculture and Fisheries, and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

WoodWisdomNet

BiodivERsA

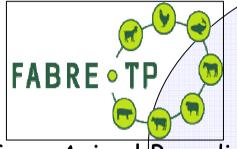


Not legally binding









Farm Animal Breeding www.fabretp.org

European Technology Platforms in KBBE

European Biofuels TP



Global Animal Health

www.ifah.be/Europe/EU
Platform/Platform.htm



Plants for the Future www.epsoweb.org

Not legally binding



www.forestplatform.org

+ EATP; EUFETEC



Thank you for your attention!

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