



Biocircle

**Theme 2 Food, Agriculture and
Fisheries, and Biotechnology (KBBE)
Background and the current Call**

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Participation of Third Country scientists in FP7

Obstacles

- Don't see **opportunities** of participating in FP 7
- Don't know about the **eligibility of ICPC**
- Only see the “**complexity**” of FP applications
- Don't know how to overcome the **resistance** of European researchers
- Don't have early **access to WP**

Chances

- **Get in touch with researchers** related to your field of research
- Useful social and cultural **experiences**
- Establish **personal links**
- Increase in reputation due to **publications** coming out of the projects



Possibilities for Third Country partners to participate

(1) All topics are open to Third Countries

- Beyond minimum of 3 different EU Member State / Associated Countries, all Third Countries can participate
- ICPC will generally be funded, industrialised countries funded only if indispensable for the project (special regulations for USA)

(2) TARGETED opening

Some topics encourage international cooperation with some Third Countries (other than AC) as additional partners

(3) SICA - Specific International Cooperation Actions

- Participation of ICPC specifically encouraged! Enables and encourages the participation of low and middle income countries to participate in FP7
- Minimum 2 ICPC + 2 MS or AC

(4) COORDINATED calls

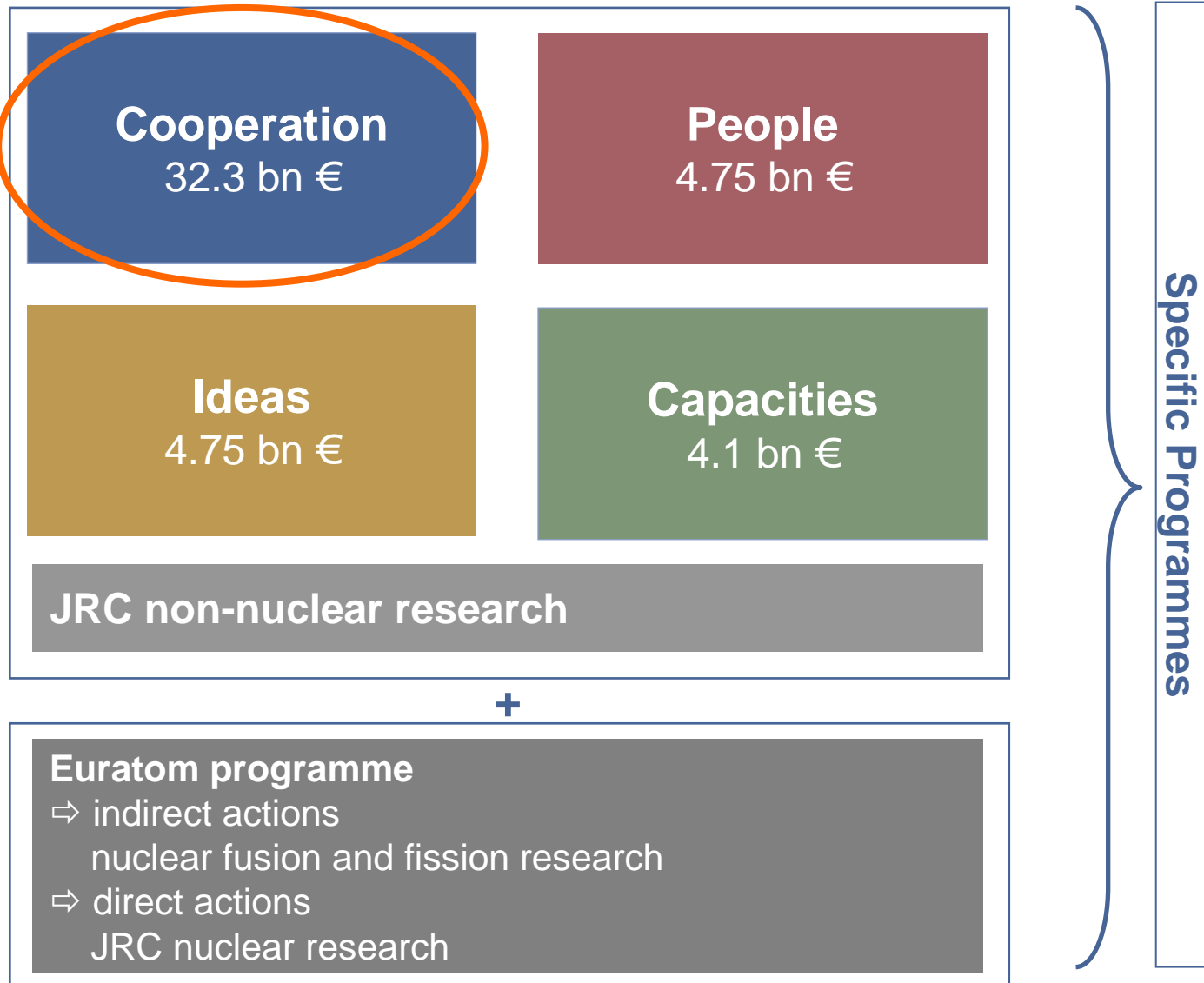
Synchronised Calls, between FP7-Themes and Third Countries on topics of shared interest and with co-funding (e.g. Theme 2: Russia 2008, India 2009)

(5) TWINNING of projects

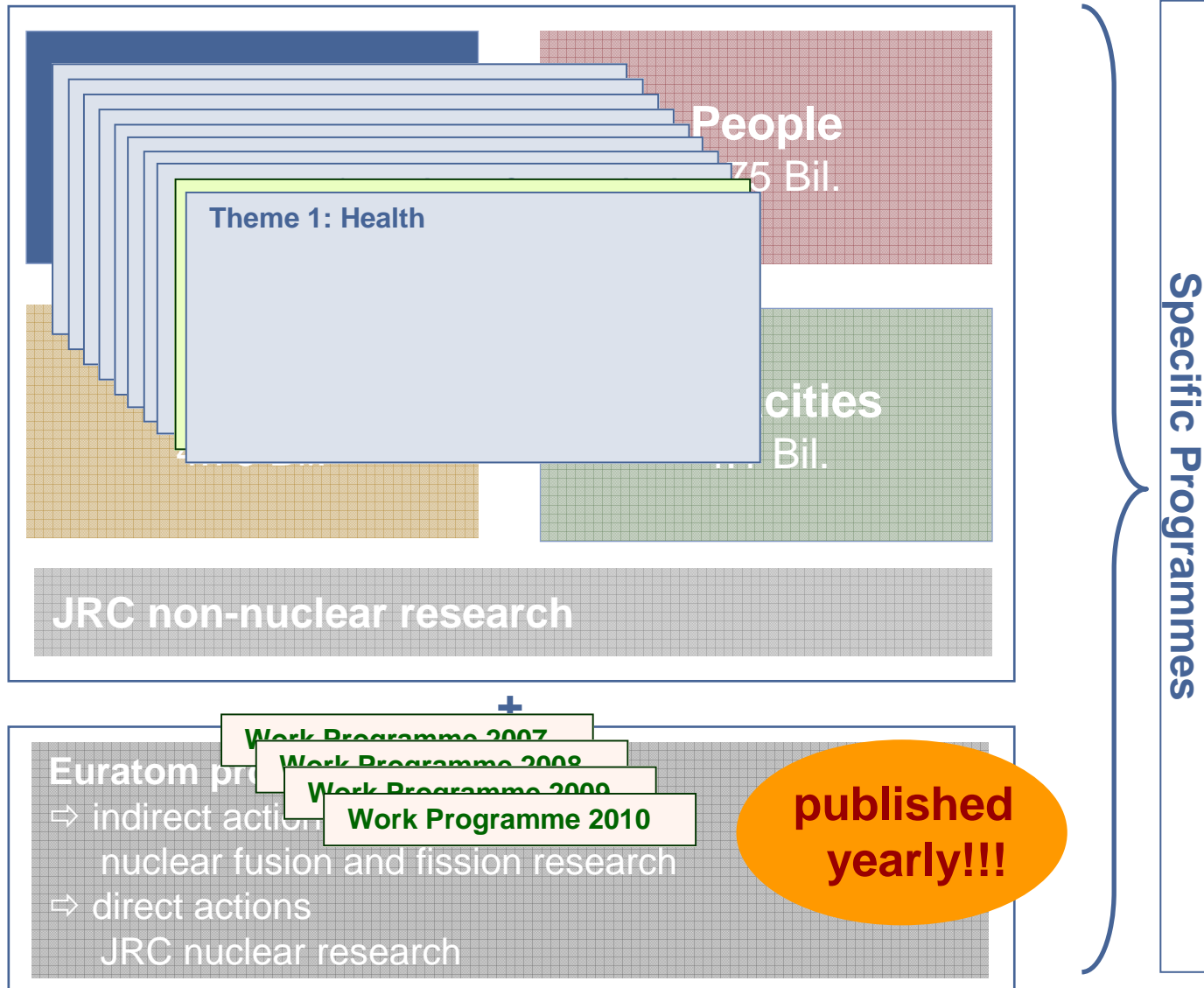
Betw. FP7-Theme 2 and related programmes from Third Countries (CA, AR)

FP 7 Structure

≈ 53 bn €



Hierarchy of Documents



Top-down process! Topics are defined in the Work Programme!



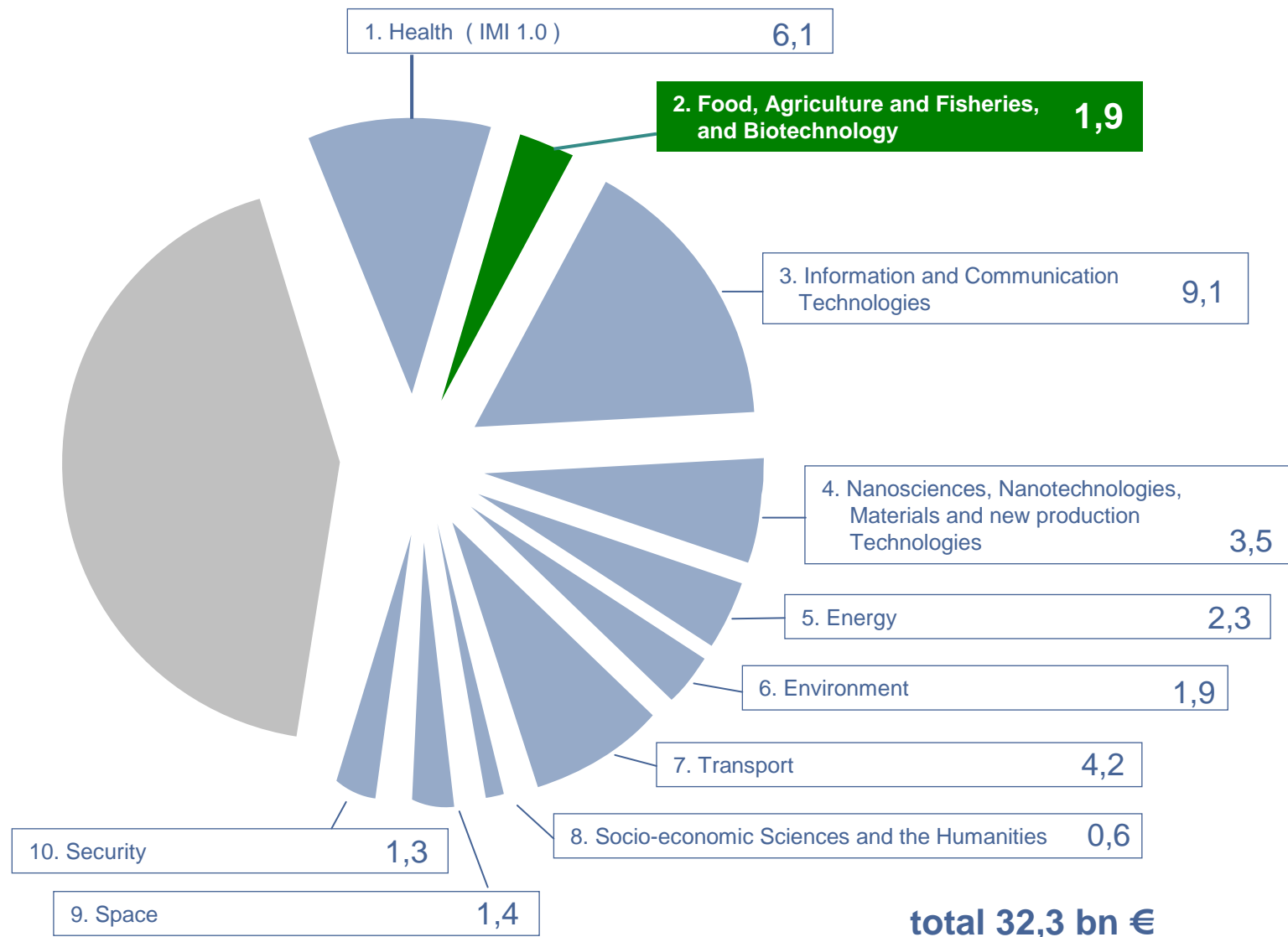
Specific Programme COOPERATION - Funding Schemes -

Collaborative Research	CPs	Regularly published calls Information on Cordis http://cordis.europa.eu/fp7/cooperation/ Topics in the Work Programme „FP7-Rules“
	NoEs	
	CSAs	
Joint Technology Initiatives (JTI)		Own calls Own web pages Own deadlines Own modalities for proposals Own financial rules and IPR
Coordination of national funding programmes	ERA-Net	
	ERA-Net +	
	Article 169	

Details and specifications about the Funding Schemes can be found in the respective Guide for Applicants!

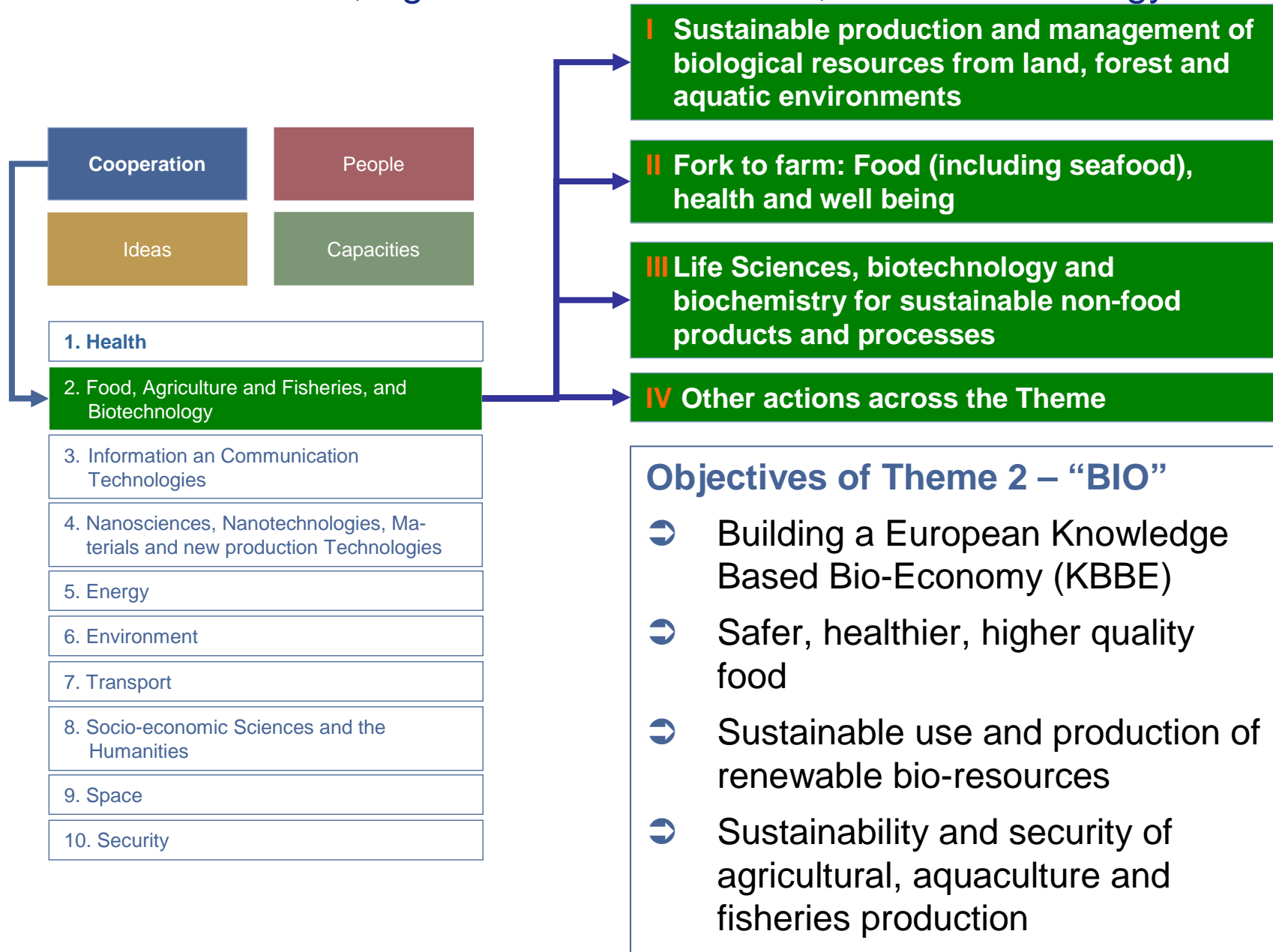
Specific Programme COOPERATION

Theme 2 'Food, Agriculture and Fisheries, and Biotechnology'



Specific Programme COOPERATION

Theme 2 'Food, Agriculture and Fisheries, and Biotechnology'





What does KBBE - Knowledge based Bio-Economy - mean?

The KBBE will play an important role in a global economy, where **knowledge is the best way to increase productivity and competitiveness and improve our quality of life**, while protecting our **environment and social model**.

KBBE addresses the following needs:

- ➔ growing demand for **safer, healthier, higher quality food**
- ➔ sustainable use and production of **renewable bio-resources**
- ➔ increasing **risk of epizootic and zoonotic diseases and food related disorders**
- ➔ sustainability and security of **agricultural, aquaculture and fisheries production**
- ➔ increasing demand for **high quality food**, taking into account animal welfare and rural and coastal contexts and response to specific dietary needs of consumers

Activity 1

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

- ➔ ,Omics' technologies, such as **genomics, proteomics, metabolomics**, and converging technologies, and their **integration within systems biology approaches** (micro-organisms, plants and animals)
- ➔ Development of **basic tools and technologies**, including bioinformatics and relevant databases, and methodologies for identifying varieties within species groups
- ➔ **Plant health and crop protection**
- ➔ Optimised **animal health, production and welfare** across agriculture, fisheries and aquaculture

Activity 2

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

- ⇒ Understanding **consumer behaviour and consumer preferences**
- ⇒ **Diet-related diseases:** metabolic disorders, obesity, allergies, new dietary strategies
- ⇒ **Food processing:** Development and demonstration of high-tech, eco-efficient processing and packaging systems, smart control applications and more efficient valorisation and management of by-products, wastes, water and energy
- ⇒ **Food quality and safety:** chemical and microbiological safety of food, new detection methods, technologies and tools for risk assessment
- ⇒ **Environmental impacts and total food chain:** study of food contaminants, total food chain management concepts etc.

Activity 3

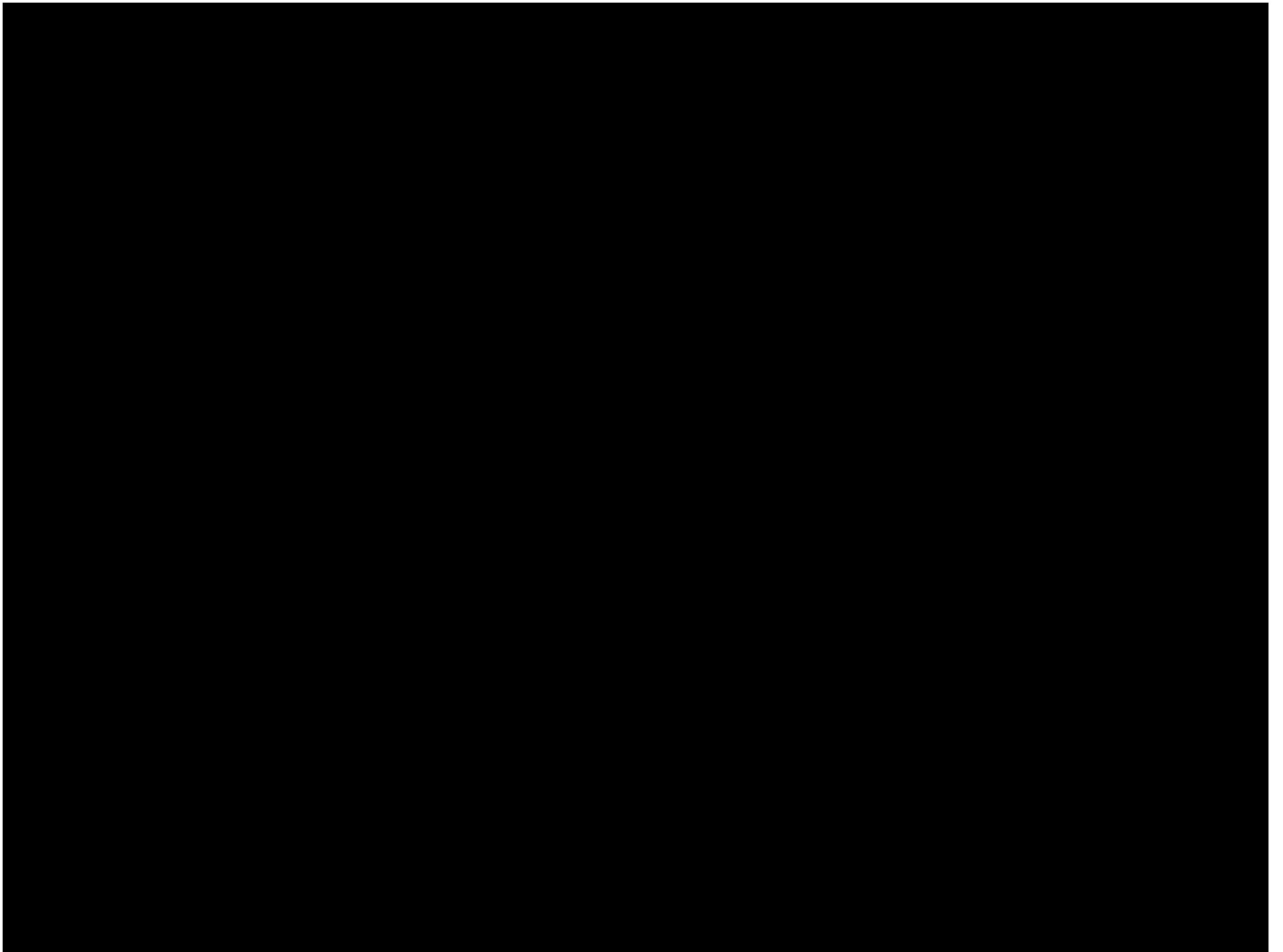
Life Sciences, biotechnology and biochemistry for sustainable non-food products and processes

- ➔ **Improved biomass and plant based renewables**
- ➔ **Bioprocesses:** application of industrial biotechnologies within whole crop and forest biomass chains to realise the full potential of the bio-refinery approach, increased yield, quality and purity of conversion products, including biocatalytic process design
- ➔ **Environmental biotechnologies - use of waste and by-products:** Development of technologies for detection, monitoring, prevention, treatment and removing of pollution. Maximising the economic value of waste and by-products through new and potentially energy-saving bio-processes, alone or in combination with plant systems and/or chemical catalysts

Activity 4

Other Actions across the Theme

- ⇒ Contribute to the **implementation of the Framework Programmes** and the preparation of future Community research and technological development policy (incl. facilitating SME participation)
- ⇒ Responding to **EU Policy needs** and the contribution to the **support and follow-up of other community policies**
- ⇒ Activities for **structuring of ERA** and **follow-up-actions**





Call FP7-KBBE-2010-4

Call title: KBBE 2010: general call for proposals

Call identifier: FP7-KBBE-2010-4

Proposal submission and evaluation: Single-stage procedure

Date of publication: 30 July 2009

Deadline: 14 January 2010 at 17:00 (Brussels local time)

Indicative budget: EUR 190.01 MIO from 2010 Budget

Work Programme FP7-KBBE-2010-4

- Topics (1) -

Activity 2.1: Sustainable production and management of biological resources from land, forest and aquatic environments	
KBBE.2010.1.1-01: Genetic and genomic tools to increase the breeding efficiency in fruit trees	CP large max. EUR 6 MIO
KBBE.2010.1.1-03: Characterisation of biodiversity resources for wild crop relatives to improve crops by breeding	CP small or medium max. EUR 3 MIO
KBBE.2010.1.2-01: Integrating mitigation and adaptation options for sustainable livestock production under climate change — SICA (Latin America, African Mediterranean Partner Countries, African ACP)	CP large (SICA) max. EUR 9 MIO
KBBE.2010.1.2-02: Sustainable organic and low-input dairy production	CP large max. EUR 6 MIO
KBBE.2010.1.2-04: Improving European berries production, quality, nutraceutical and nutritional value (Strawberries, Currents, Blackberries, Blueberries and Raspberries)	CP small or medium max. EUR 3 MIO
KBBE.2010.1.2-05: Integrated pest management in farming systems of major importance for Europe	CP large max. EUR 9 MIO
KBBE.2010.1.2-07: Understanding of the basic mechanisms involved in coping strategies offish towards improvement of welfare	CP large max. EUR 4.5 MIO
KBBE.2010.1.2-08: Improving European mollusc aquaculture: disease detection and management	CP small or medium max. EUR 3 MIO

Work Programme FP7-KBBE-2010-4

- Topics (2) -

Activity 2.1 continued	
KBBE.2010.1.3-01: Development of vaccines and improvement of detection systems to control helminth parasite infections of livestock and reservoirs — SICA (Latin America and/or Asia and/or African Mediterranean Partner Countries and/or African ACP)	CP large (SICA) max. EUR 9 MIO
KBBE.2010.1.3-02: Promoting coordination and cooperation at international level of research programmes in the area of animal health, in particular infectious diseases including zoonoses - Mandatory ICPC ('Latin America and Asia)	CSA-CA max. EUR 1 MIO
KBBE.2010.1.3-03: Development and integration of animal based welfare indicators in livestock species	CP large max. EUR 4.5 MIO
KBBE. 2010.1.3-04: Improving integration in farm animal welfare research in an enlarged Europe	CSA-CA max. EUR 1 MIO
KBBE.2010.1.4-01: Sharing best practice and enhancing European collaboration on research, knowledge transfer and innovation in farm animal sciences	CSA-CA max. EUR 1 MIO
KBBE.2010.1.4-02: Development of modelling tools based on Farm Accountancy Data Network data adapted to assess the dynamic impacts of the Common Agricultural Policy	CP small or medium max. EUR 2.5 MIO

Work Programme FP7-KBBE-2010-4

- Topics (3) -

Activity 2.1 continued	
KBBE. 2010.1.4-03: Assessment of transition pathways to sustainable agriculture and social and technological innovation needs	CP small or medium max. EUR 1.5 MIO
KBBE.2010.1.4-04: Knowledge systems for farming in the context of sustainable rural development	CP small or medium max. EUR 2.5 MIO
KBBE.2010.1.4-05: EU-China Partnership initiative in plant breeding— Mandatory China	CSA-CA max. EUR 0.5 MIO
KBBE.2010.1.4-06: EU-Russia Partnership initiative in Microbes - Plants Biodiversities — Mandatory Russia	CSA-CA max. EUR 0.5 MIO
KBBE.2010.1.4-07: Using results-based management to achieve CFP objectives	CP small or medium max. EUR 3 MIO
KBBE.2010.1.4-08: improving research in support to scientific advice to fisheries management in the Mediterranean and Black Seas — Mandatory ICPC (Mediterranean Partner Countries and Black Sea countries)	CSA-CA max. EUR 1 MIO
KBBE.2010.1.4-09: Analysis of the potential of the pine wood nematode (Bursaphelenchus xylophilus) to spread, survive and cause pine wilt in European coniferous forests in support of EU plant health policy	CP small or medium max. EUR 3 MIO

Work Programme FP7-KBBE-2010-4

- Topics (4) -

Activity 2.2: Fork to farm: Food (including seafood), health and well being	
KBBE.2010.2.1-01: Determinants of food choice and eating habits	CP large max. EUR 9 MIO
KBBE. 2010.2.1-02: Media training for food and nutrition scientists	CSA-SA max. EUR 1 MIO
KBBE.2010.2.2-01: Neurological pathways regulating hunger/satiety and gut behaviour	CP large max. EUR 9 MIO
KBBE.2010.2.2-02: Diet and prevention of functional decline of the elderly	CP large max. EUR 9 MIO
KBBE.2010.2.3-01: Development of biodegradable food packaging	CP small or medium max. EUR3 MIO
KBBE.2010.2.3-02: Strategies for personalised nutrition	CP large max. EUR 9 MIO
KBBE.2010.2.3-03: Health-value-added food products for population groups at risk of poverty	CP small or medium max. EUR 3 MIO

Work Programme FP7-KBBE-2010-4

- Topics (5) -

Activity 2.2 continued	
KBBE.2010.2.4-01: Improving integration in food safety research	CP small or medium max. EUR 3 MIO
KBBE.2010.2.4-02: Identification of the effect of processing on food contaminants	CP small or medium max. EUR 3 MIO
KBBE.2010.2.4-03: Quality and safety aspects of feed	CP small or medium max. EUR 3 MIO
KBBE.2010.2.5-01: Transparency of food pricing	CP small or medium max. EUR 1 MIO
KBBE.2010.2.5-02: Eco-challenges in the food chain of the Latin American region — SICA (Latin America)	CP small or medium (SICA) max. EUR 3 MIO
KBBE.2010.2. 6-01: Strengthening cooperation in food safety research in the enlarged European Union	CSA-CA max. EUR 1 MIO

Work Programme FP7-KBBE-2010-4

- Topics (6) -

Activity 2.3: Life sciences, biotechnology and biochemistry for sustainable non-food products and processes	
KBBE.2010.3.1-01: Promoting global cooperation to facilitate and accelerate knowledge transfer on abiotic stress tolerance of plants — Mandatory ICPC (Latin America and/or Asia and/or Eastern Europe and Central Asia and/or A CF and/or the Medit. Partner Countries)	CSA-CA max. EUR 1 MIO
KBBE.2010.3.2-01: Sustainable culture of marine microorganisms, algae and/or invertebrates for high added value products	CP small or medium max. EUR 3 MIO
KBBE.2010.3.2-02: Learning from research projects: specific dissemination action to potential users in marine genomics	CSA-CA max. EUR 1 MIO
KBBE.2010.3.2-03: Modification of marine or freshwater algae to better suit industrial applications	CP large max. EUR 6 MIO
KBBE.2010.3.2-04: Innovative aquatic biosensors	CP small or medium max. EUR 3 MIO
KBBE.2010.3.3-01: Robust and novel biocatalysts for industrial applications	CP small or medium max. EUR 3 MIO
KBBE.2010.3.3-02: Biotechnology for 'greening' the chemical industry - Industrial bioprocesses for fine and speciality chemicals and intermediates	CP large max. EUR 9 MIO

Work Programme FP7-KBBE-2010-4

- Topics (7) -

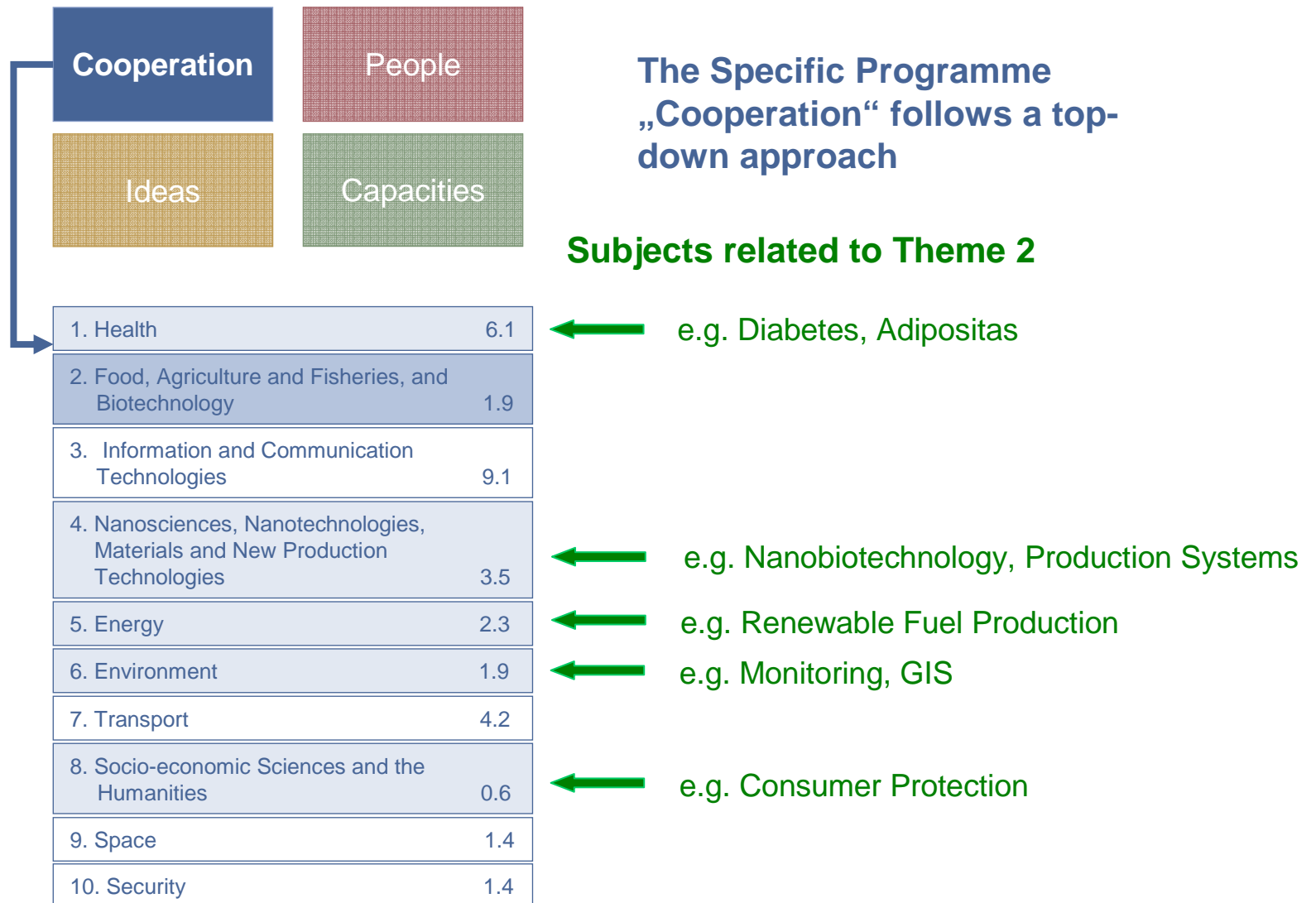
Activity 2.3 continued	
KBBE.2010.3.5-01: Biotechnology for the environment - Soil and water treatment and bioremediation	CP small or medium max. EUR 3 000000
KBBE.2010.3.5-03: Approaches towards bioremediation of the Mediterranean Sea by exploring its microbial diversity — SICA (Mediterranean Partner Countries)	CP small or medium (SICA) max. EUR 3 MIO
KBBE.2010.3.5-04: Microbial diversity and metagenomic mining for biotechnological innovation	CP large max. EUR 6 MIO
Activity 2.4: Other activities	
KBBE.2010.4-01: Strengthening the implementation of durable integration in FP6 Networks of Excellence	CSA-CA max. EUR 1 MIO
KBBE.2010.4-03: Towards a Latin America & Caribbean Knowledge Based Bio-Economy in partnership with Europe	CSA-SA max. EUR 0.5 MIO
KBBE.2010.4-04: Network of Third Countries bio NCPs	CSA-CA max. EUR 1 MIO
KBBE.2010.1.4-05: Networking of KBBE relevant ERA-NETS	CSA-CA max. EUR 0.5 MIO

Specifics of the Theme 2 Calls 2010

	CP large	CP small	NoE	CSA
Activity 2.1: Sustainable production and management of biological resources from land, forest and aquatic environments	12 (incl. 3 SICA)	8		7
Activity 2.2: Fork to farm: Food (including seafood), health and well being	4	7 (incl. 1 SICA)		3
Activity 2.3: Life sciences, biotechnology and biochemistry for sustainable non-food products and processes	3	5 (incl. 1 SICA)		3
Activity 2.4: Other activities				5

$\Sigma = 57$

Subjects related to Theme 2



Thank you for your attention !

