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Food, Agriculture and Fisheries, and Biotechnology

Knowledge - Based Bio - Economy (K B B E)

“EU research initiatives and instruments in support to the implementation of the European strategy for the sustainable development of aquaculture”

Food,
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and Biotechnology

Knowledge-Based Bio-Economy (KBBE)

Dr Stamatis Varsamos
European Commission
Directorate-General RTD

Unit E4: Agriculture, forestry, fisheries, aquaculture



Seminar on Fisheries and Aquaculture in the EU: COM, Brussels 12/10/2010



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SUMMARY

- 1) **European research and DG RTD : what for?**
- 2) **Main EU instruments supporting research and innovation (2007-2013)**
- 3) **Can EC's RTD initiatives contribute in unlocking the potential for aquaculture development in Europe?**
- 4) **Current opportunities for aquaculture research and international cooperation in FP7**

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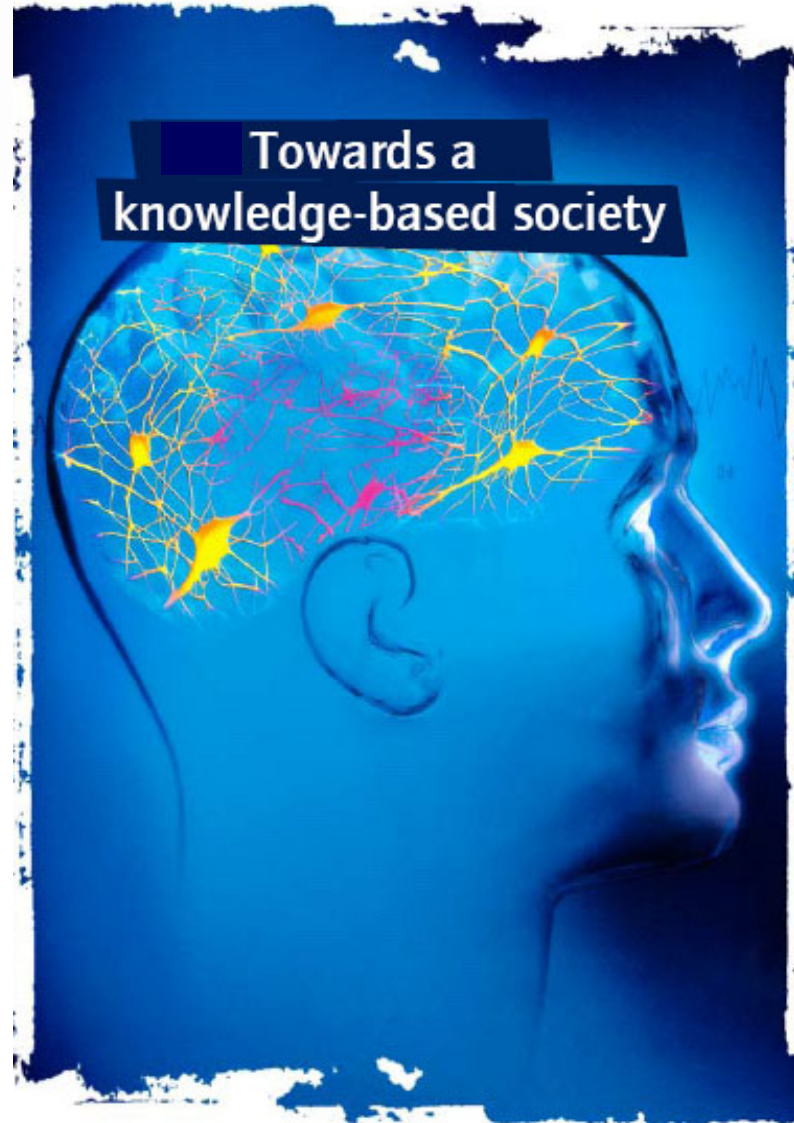
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1) EU research what for?



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DG RTD: who are we and which are our missions?

The Directorate General's missions can be summarised as follows:

- to develop the European Union's policy in the field of research and technological development and thereby contribute to the international competitiveness of European industry;
- to coordinate European research activities with those carried out at the level of the Member States, in Europe and worldwide;
- to support the Union's policies in other fields such as environment, health, energy, food safety, fisheries & aquaculture etc;
- to promote a better understanding of the role of science in modern societies and stimulate a public debate about research-related issues at European level.

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Commissioner for
Science Research and Innovation:
Mrs Maire Geoghegan-Quinn



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DG RTD: how does it work?

15 Directorates :

- Directorate A - Inter-institutional and legal matters – Framework programme
Directorate B - European Research Area: research programmes and capacity
Directorate C - European Research Area: Knowledge-based economy
Directorate D - International cooperation
Directorate E - Biotechnologies, Agriculture, Food
Directorate F - Health
Directorate G - Industrial technologies
Directorate H - Transport
Directorate I - Environment
Directorate J - Energy (Euratom)
Directorate K - Energy
Directorate L - Science, economy and society
Directorate R - Resources
Directorate S - Implementation of the 'Ideas' programme
Directorate T - Implementation of activities to outsource

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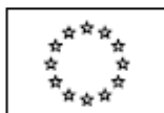


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EUROPE 2020

A European strategy for smart, sustainable and inclusive growth



EUROPEAN COMMISSION

Brussels, 6.10.2010
COM(2010) 546 final

COMMUNICATION FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

Europe 2020 Flagship Initiative
Innovation Union

SEC(2010) 1161

“...our future standard of living depends on our ability to drive innovation in products, services, business and social processes and models. This is why innovation has been placed at the heart of the Europe 2020 strategy...”

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2) Main EU instruments supporting research and innovation (2007-2013)



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A) Research: the 7th EU Framework Programme (2007-2013)

	<p>Cooperation Collaborative Research</p> <p>32 365 M€</p>	<p>Ideas Frontier Research</p> <p>7 460 M€</p>	
	<p>People Human Potential</p> <p>4 728 M€</p>	<p>Capacities Research Capacity</p> <p>4 217 M€</p>	
Euratom		JRC	

Specific Programmes: Total 53 billion €

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Knowledge-Based Bio-Economy (KBBE)

Offers a variety of Top-Down and Bottom-Up instruments

Most visible « product: the annual WP

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B) Innovation: Competitiveness and Innovation Framework Programme (CIP)

The Competitiveness and Innovation Framework Programme (CIP: 3,6 billion €) aims to encourage the competitiveness of European enterprises. Main target: SMEs. Supports innovation activities (including eco-innovation), provides better access to finance and delivers business support services in the regions.

- **Entrepreneurship and Innovation Programme (EIP: 2,1 billion€):** The EIP focuses on facilitating access to finance for the start-up and growth of SMEs and encourages investment in innovation activities, creating an environment favourable to SME cross-border cooperation, promoting all forms of innovation in enterprises and fostering an entrepreneurship and innovation culture.
- **Information Communication Technologies Policy Support Programme (ICT-PSP)**
- **Intelligent Energy Europe Programme (IEE)**

Main funding schemes:

Community financial instruments for SMEs (EIF),

Pilot and Market Replication projects,

Policy analysis, development, coordination, twinning, best practice exchange and thematic networks

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C) Cohesion Policy: Structural Funds and Cohesion Fund

Cohesion policy aims – via the Structural Funds – to reinforce economic and social cohesion by redressing the main regional imbalances through support for the development and structural adjustment of regional economies.

A fundamental difference between Cohesion policy and FP7 and CIP is that its management and programming is decentralised, i.e. the implementation and allocation of funds to projects is not handled by the Commission, but by Managing Authorities.

The three main funds under which research and innovation activities can be supported (90 billion€ for the period 2007-2013) are:

- European Regional Development Fund (ERDF):
- Cohesion Fund
- European Social Fund
- EFF

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These three funds contribute to three objectives: Convergence, Regional Competitiveness and Employment, and European Territorial Cooperation



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Sources of advice

- **Cordis:** <http://cordis.europa.eu/fp7/>
- **Enterprise Europe Network** (review technology and business status of companies, identification of needs and exploration of technology transfer opportunities, personalised advice and information to help applying for EU research funding, exploitation of technology opportunities, help finding business partners):
http://www.enterprise-europe-network.ec.europa.eu/index_en.htm
- **National Contact Points** (personalised support, guidance, practical information and assistance on all aspects of participation in FP7 and CIP).
- **The Managing Authorities of the Cohesion Policy funding programmes** (national and regional authorities)
http://ec.europa.eu/regional_policy/atlas2007/index_en.htm and
http://ec.europa.eu/employment_social/esf/index_en.htm

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"Getting through the maze"

COMPETITIVE EUROPEAN REGIONS THROUGH RESEARCH AND INNOVATION

PRACTICAL GUIDE TO EU FUNDING OPPORTUNITIES FOR RESEARCH AND INNOVATION



European Union
Cohesion Policy

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3) EU support to aquaculture research

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Setup for fisheries and aquaculture research in the European Commission (DG RTD)

DG RTD

Directorate E - Biotechnologies, Agriculture, Food

Director: *Maive Rute*

E.1: Horizontal aspects and coordination

Head of Unit: *Line Matthiessen-Guyader*

E.2: Biotechnologies

Head of Unit: *Alfredo Aguilar*

E.3: Food – Health – Well-being

Head of Unit: *Antonio di Giulio*

E.4: Agriculture, Forests, Fisheries, Aquaculture

Head of Unit: *Timothy Hall*

Head of sector F & A: *J. Fuchs*

E.5: Administration and finance

Head of Unit: *Patrice Lemaitre*

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Building the Knowledge Based Bio-Economy through FP7

The KBBE Work Programme 2011 : a convergent and coordinated approach to address the challenges facing society today

- 1. Primary production:** mitigating and adapting to climate change
- 2. Greening the industry:** move from fossil resource-based industries to more sustainable, efficient and competitive bio-industries
- 3. Food security and safety for Europe and beyond:** securing the availability of safe, nutritious and affordable food
- 4. A socially inclusive and healthy Europe:** shift from a defensive health policy in combating illness to a preventive approach promoting the health of every citizen, and by paying special attention to the needs of the aging population and the most vulnerable in our society
- 5. Oceans for the future:** scientific basis for the responsible, ecosystem based and sustainable management of Europe's fisheries in support of the reform of the Common Fisheries Policy and provide research for a sustainable and competitive culture of healthy and safe aquatic products

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Challenges EU level for aquaculture research

- Increase of the knowledge base (Aberdeen declaration) and facilitate the uptake of the results to reduce the gap between knowledge generated and translation to innovative applications and market opportunities
- Anticipate and ensure solid scientific support to policies
- Ensure transparency and stakeholders involvement in RTD programming
- Stimulate articulation between regional, national and EU RTD and InCoS&T programmes
- Coordination and reinforcement of research infrastructures
- Critical mass of research

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**FP7: one of the main
instruments (includes a
variety of opportunities)**

**Participants of EU R&D projects are an essential part of the BIG
PICTURE by actively contributing in translating strategies into
concrete outcomes that can benefit to the society and the
industry**



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Challenge 1

Exploring and exploiting biodiversity:
domestication in aquaculture

Challenge 2

Ecosystem approach for the
development of aquaculture

Challenge 3

Socioeconomics in support to the
development of aquaculture

Challenge 4

Support to aquaculture related
SMEs

Challenge 5

International cooperation in the field of
aquaculture

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4) Current opportunities for aquaculture research and international cooperation in FP7

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Topics in the field of aquaculture in the WP 2011 of FP7

WORK PROGRAMME 2011

COOPERATION

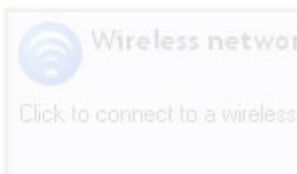
THEME 2

FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGY

(European Commission C(2010)4900 of 19 July 2010)

+ Associated annexes and guidelines

Food, Agriculture and Biotechnology
Knowledge-Based





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Topics in the field of aquaculture in the WP 2011 of FP7

OCEAN.2011-1: Multi-use offshore platforms: offshore wind energy production, aquaculture and the related transport maritime services. (14 M€) Deadline: 18 January 2011 at 17.00.00 (Brussels local time)

KBBE.2011.1.2-11: Aquaculture feeds and fish nutrition: paving the way to the development of efficient and tailored sustainable feeds for European farmed fish (6 M€)

**KBBE.2011.1.4-07: Role of aquaculture in improving food security and eradicating poverty worldwide - Mandatory ICPC (1 M€)
Deadline: 25 January 2011 at 17.00.00 (Brussels local time)**

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EC portal for information on FP7 http://cordis.europa.eu/fp7/home_en.html



The screenshot shows the EC portal for information on FP7. The header includes the European Commission logo and the text "CORDIS". Below the header is a navigation menu with options: Home, News, Funding, Results, Themes, Go local, Look it up, Interact, Help. A search bar is located on the right side of the header. The main content area is titled "Seventh Framework Programme (FP7)" and features a grid of colored boxes representing different program areas: Cooperation (red), Ideas (orange), People (purple), Capacities (pink), Euratom (green), and JRC (blue). A sidebar on the left lists various navigation options such as "FP7 Home", "FP7 newsroom", "Understand FP7", "Participate in FP7", "Find a call", "Register your organisation", "Preparation and Submission of Proposals (EPSS)", "Get support", "Find project partners", "Find a project", and "Find a document". A "Practical Guide to EU Funding" link is also present. The "Latest News" section highlights "51 new FP7 calls for proposals launched" dated 2010-07-22. The "Highlights" section lists "Cities of the Future", "Commission study emphasises role of cities in a sustainable future", and "The European Commission published 51 Calls for". A "Quick Links" dropdown menu is visible on the right side of the page.

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Courtesy INRA, France

Thank you

Grazie

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