



# Food, Agriculture and Fisheries, and Biotechnology

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

## 2010 ENDURE International Conference

24 November 2010, Paris

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**European Commission**

**DG Research, Dir E**

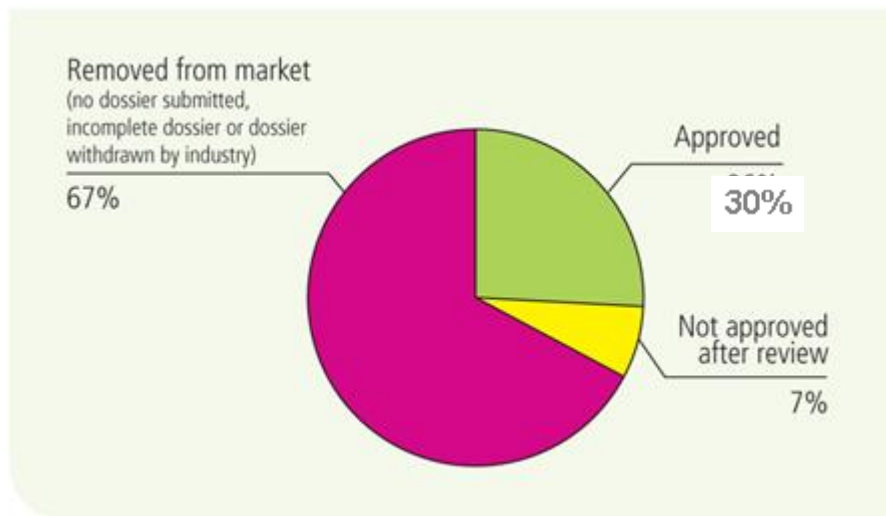
# Pesticides in the EU: Legislative Framework

## New Legislative Framework since 2009: The «Pesticides Package»:

- **Framework Directive 2009/128/EC on the sustainable use of pesticides:**
  - Member States to ensure that the general principles of integrated pest management are implemented by all professional users by 2014.
  - National Action Plans
- **Regulation (EC) N°1107/2009 on the placing of plant protection products on the market** (revising Directive 91/414/EEC):
  - strict criteria for approval of substances
  - mechanism for the substitution of more toxic pesticides by safer (including non-chemical) alternatives.
- **Regulation (EC) N°1107/2009 concerning statistics on pesticides**
- **Directive 2009/127/EC revising the Machinery Directive**

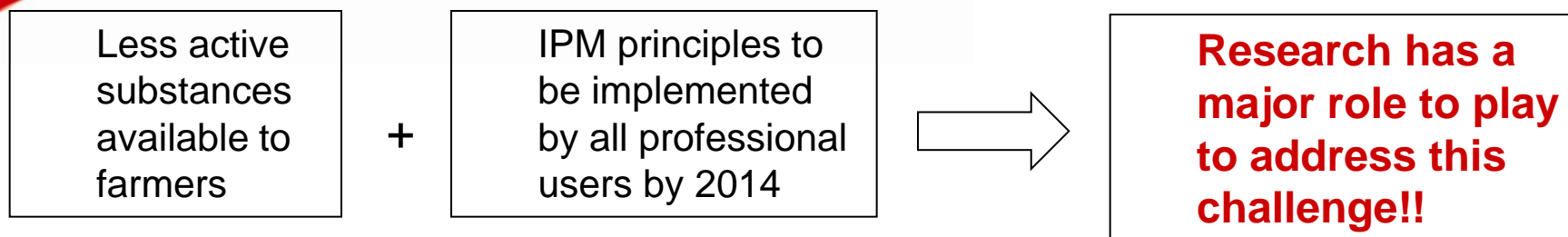
# Pesticides in the EU: Legislative Framework

- Review Programme of existing pesticides finalised (2001-2009)
  - Evaluation of safety for human health and the environment
  - 1000 active substances under review, 300 approved (30%)



- Combined efforts by the Member States, the European Food Safety Authority and the Commission
- Database of approved active substances available at:  
[http://ec.europa.eu/sanco\\_pesticides/public/index.cfm](http://ec.europa.eu/sanco_pesticides/public/index.cfm)

# Pesticides in the EU: Legislative Framework



**ENDURE** is part of the solution. It could:

- Help support the implementation of the Directive on the sustainable use of pesticides. In fact, ENDURE has already contributed to the 1st meeting of the Expert Group on the Thematic Strategy on the sustainable use of pesticides
- Contribute to the National Action Plans
- Provide new solutions to advisors and farmers
- Identify research needs in crop protection research
- Continue disseminating its results through the ENDURE European Research Group (ERG), which will ensure the durability of the network.

# The 7th EU Framework Programme (2007-2013)

<http://cordis.europa.eu/en/home.html>



**Total 53 billion € for 7 years**

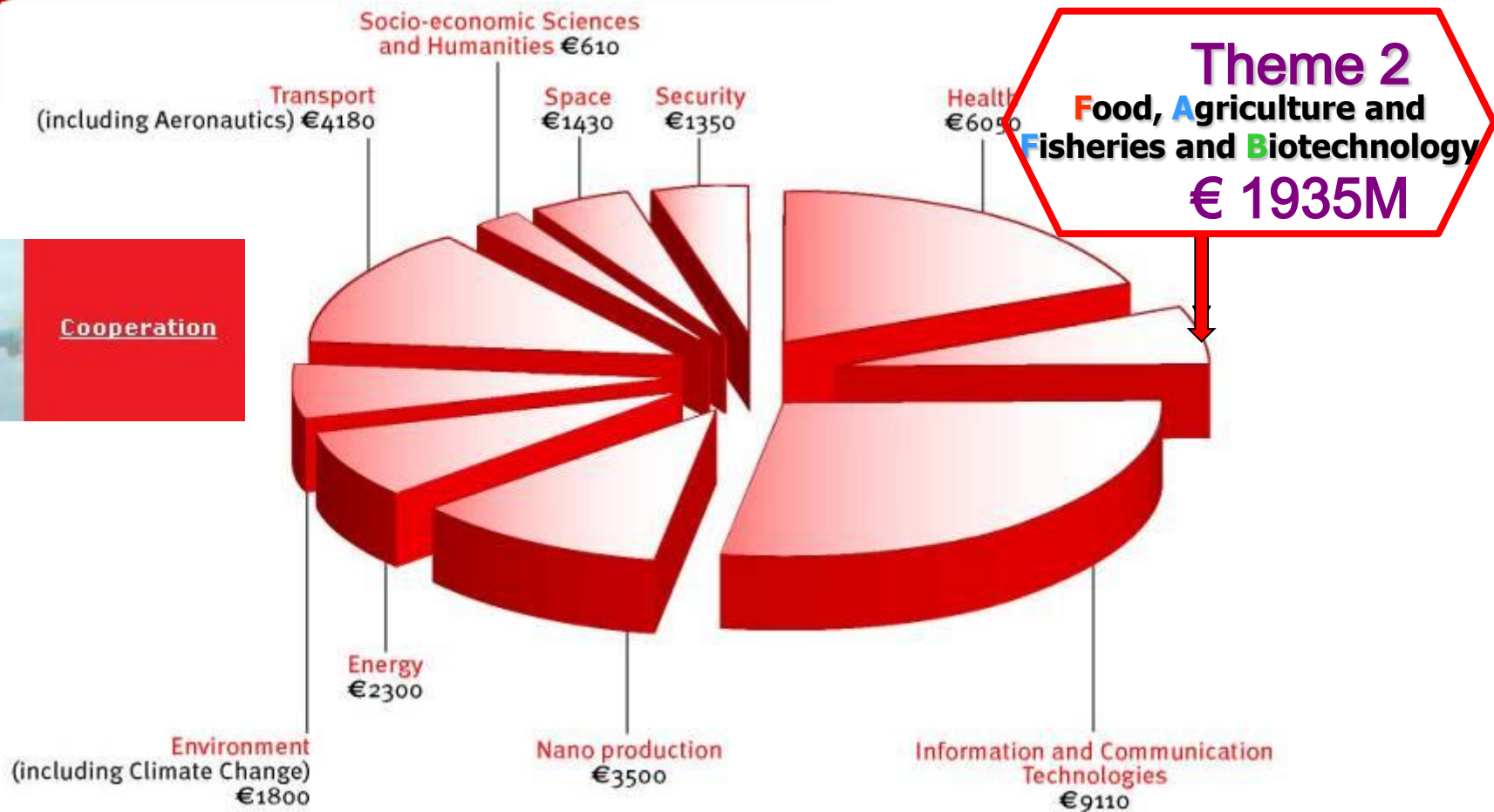




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## Cooperation Programme – 10 themes



## Theme 2: Food, Agriculture and Fisheries and Biotechnology (KBBE)



### KBBE - Activity 2.1

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



### KBBE - Activity 2.2

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



### KBBE - Activity 2.3

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

# Our contribution to Plant Health Research – FP6/FP7 Projects

FP	Project Acronym	Project Instrument	Project title	Start date	End date	EU contribution	Method of action
FP6	REPCO	STREP	Replacement of copper fungicides in organic production of grapevine and apple in Europe	1/11/2003	1/11/2006	1,930,480	Biocontrol
FP6	2 <sup>E</sup> -BCAS IN CROPS	STREP	Enhancement and exploitation of Soil Biocontrol Agents for Bio-Constraint Management in Crops	1/01/2004	1/01/2007	2,300,000	Biocontrol
FP6	CLEANFRUIT	STREP	Improving the quality of European citrus & fruit by developing medfly SIT technology so it can be widely applied in Europe	1/01/2004	1/01/2007	2,367,000	Biocontrol
FP6	REBECA	SSA	Regulation of biological control agents	1/06/2006	1/06/2008	1,000,000	Biocontrol
FP6	PORTCHECK	STREP	Development of generic 'on site' molecular diagnostics for EU quarantine pests and pathogens	1/03/2004	1/03/2007	1,367,487	Containment
FP6	RAPRA	STREP	Risk analysis for <i>Phytophthora ramorum</i> , a newly recognised pathogen threat to Europe and the cause of sudden oak death in the USA	1/01/2004	1/04/2007	1,339,939	Containment
FP6	PEPEIRA	STREP	Pepino mosaic virus: epidemiology, economic impact and pest risk analysis	1/02/2007	1/02/2010	801,069	Containment
FP6	EUPHRESCO	ERA-Net	European Phytosanitary Research Coordination	1/05/2006	1/05/2010	2,630,000	Containment
FP7	PRATIQUE	SCP	Enhancements of pest risk analysis techniques	1/03/2008	1/06/2011	2,764,317	Containment
FP7	SHARCO	SCP	Sharka containment	1/03/2008	1/03/2012	2,935,773	Containment
FP7	QBOL	SCP	Development of new diagnostic tool using DNA barcoding to identify quarantine organisms in support of plant health	21/3/2009	20/3/2012	2,991,433	Containment
FP7	Q-Detect	SCP	Developing quarantine pest detection methods for use by national plant protection organizations (NPPO) and inspection services	1/03/2010	28/0/2013	2,995,918	Containment
FP7	ISEFOR	SCP	Increasing Sustainability of European Forests: Modelling for Security Against Invasive Pests and Pathogens under Climate Change	1/09/2010	31/8/2013	2,973,181	Containment
FP7	EUPHRESCO II	ERA-Net	European Phytosanitary Research Coordination II	2011	2014	1,000,000	Containment





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FP	Project Acronym	Project Instrument	Project title	Start date	End date	EU contribution	Method of action
FP6	RESISTVIR	CA	Coordination of research on genetic resistance to plant pathogenic viruses, and their vectors, in European crops	1/02/2005	31/1/2009	2,300,000	Plant Resistance
FP6	BIOEXPLOIT	IP	Exploitation of natural plant biodiversity for the pesticide-free production of food	1/04/2005	1/04/2010	15,780,000	Plant Resistance
FP6	HAIR	STREP	Harmonized environmental indicators for pesticide risk	1/01/2003	1/03/2007	1,677,169	Plant Protection
FP6	BIODET	SSA	Networking in the application of biosensors to pesticide detection in fruits and vegetables	1/06/2006	1/06/2008	447,000	Plant Protection
FP6	FOOTPRINT	STREP	Functional tools for pesticide risk assessment and management in Europe	1/01/2006	1/01/2009	1,209,762	Plant Protection
FP7	TEAMPEST	SCP	Theoretical developments and empirical measurement of the external costs of pesticides	1/05/2008	1/05/2011	2,266,380	Plant Protection
FP7	EUPHOROS	SCP	Efficient use of input in protected horticulture	1/03/2008	29/2/2012	2,995,408	Plant Protection
FP6	PROTECTOR	STREP	Recycling and upgrading of bone meal for environmentally friendly crop protection and nutrition	1/03/2005	1/09/2008	810,000	Not specific
FP6	ORWINE	STREP	Organic viticulture and wine-making: development of environment and consumer friendly technologies for organic wine quality improvement and scientifically based legislative framework	1/02/2006	1/04/2009	1,345,898	Not specific
FP6	ENDURE	NoE	European Network for the durable exploitation of crop protection strategies	1/01/2007	1/01/2011	11,200,000	Not specific
FP6	DIABR-ACT	SSA	Harmonise the strategies for fighting <i>Diabrotica virgifera virgifera</i>	1/06/2006	1/06/2008	974,703	Not specific
FP7	PURE	SCP	<i>Pesticide use and risk reduction in European farming systems with Integrated pest management</i>	2011	2015	8,999,828	Not specific
FP7	REPHRAME	SCP	<i>Development of improved methods for detection, control and eradication of pine wood nematode in support of EU Plant Health policy</i>	2011	2014	3,000,000	Not specific

**Total = around 83 M€ since 2004 (50 M€ in FP6 and 33 M€ in FP7)**

# Plant Health and Plant Protection

## New project on Integrated Pest Management

- Topic on IPM published in WP2010: **Integrated Pest management in farming systems of major importance for Europe**
- Expected impact: *the project will provide the broader scientific community, extension services, farmers and other stakeholders with new and solid scientific knowledge and practical tools enabling novel approaches , strategies, techniques and technologies for IPM (...)*
- EC funding: 9 million euro
- 5 proposals presented, 1 selected
- Still under negotiation but likely to start early 2011
- It will use some of the results of ENDURE
- Important to ensure communication with ENDURE ERG!!

# Plant Health and Plant Protection

## New ERA-Net EUPHRESOCO II

- Topic published in WP2010: **Deepened and enlarged cooperation between phytosanitary (statutory plant health) research programmes**
- Expected impact: *Both scientific knowledge and coordination between national or sub-national programmes in this area are expected to grow for the sake of a stronger and more coherent EU plant health regime*
- EC funding: 1 million euro
- Still under negotiation but likely to start early 2011

# Plant Health and Plant Protection Future

- Work Programme 2011: Two topics have been proposed on:
  - Strategies to replace copper-based products as plant protection products in low input and organic farming systems (EU funding: 3 million euros)
  - Eradication and containment strategies and tools for the implementation of EU legislation against the red palm weevil *Rhynchophorus ferrugineus* Olivier and *Paysandisia archon* Burmeister (EU funding: 3 million euros)
- Work Programmes 2012/13: more plant health and protection activities will be proposed
- Beyond 2013: Preparation of FP8 in the pipeline





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# Latest policy developments

## Europe 2020 Strategy

**Europe 2020: A strategy for smart, sustainable and inclusive growth**, puts forward 3 reinforcing priorities:

- **Smart growth**: developing an economy based on knowledge and innovation. It includes the following flagship initiatives:
  - Digital agenda for Europe
  - **Innovation Union**
  - Youth on the move
- **Sustainable growth**: promoting a more resource efficient, greener and more competitive economy. The related flagship initiatives are:
  - **Resource efficient Europe**
  - An industrial policy for the globalisation era
- **Inclusive growth**: fostering a high-employment economy delivering social and territorial cohesion. The related flagship initiatives are:
  - An agenda for new skills and jobs
  - European platform against poverty

The **Innovation Union** (adopted in October 2010), a flagship initiative of Europe 2020

- It sets up a strategic approach to innovation:
  - Partnerships with Member States and the Industry
  - Whole chain of innovation: from blue sky to market
- One of the key measures of the Innovation Union are the **European Innovation Partnerships**:
  - Frameworks bringing together main actors and actions:
    - At EU and national levels
    - From research to market
    - Around common objectives and targets
  - Pilot on active and healthy ageing (2011)
  - Others to follow, probably an **Innovation Partnership on Sustainable Agriculture**

# Latest policy developments

## Communication on sustainable bio-economy

- DG RTD will prepare a **Communication on Sustainable Bio-Economy** (expected end of 2011).
- The Communication will provide a vision and action plan for a **sustainable and innovative European bio-economy** by 2020. Some of the main elements will be:
  - completion of the European Research Area in the bio-economy sectors;
  - improving framework conditions for innovation in the bio-economy sectors;
  - integrating the bio-economy approach into the forthcoming reform of the CAP and CFP as well as in waste treatment legislation;
  - encouraging the reforms at Member States level of their R&D and innovation systems to enable the development of the bio-economy at national level
- Public consultation to be launched soon!

## Latest policy developments

### Joint programming

- Joint Programming aims to **reinforce cross-border cooperation and the coordination and integration of research programmes** in Member States.
- Three essential stages:
  - development of a common vision;
  - adoption of a Strategic Research Agenda (SRA);
  - implementation of the SRA with the support of national research instruments.
- Two relevant Joint Programming Initiatives ongoing:
  - **Agriculture, Food security and Climate Change**
  - A Healthy Diet for a Healthy Life



# Further Information

- **EU research:** <http://ec.europa.eu/research/>
- **Seventh Framework Programme:**  
<http://www.cordis.europa.eu/fp7/home.html>
- **Research DG Site:**  
[http://ec.europa.eu/dgs/research/index\\_en.html](http://ec.europa.eu/dgs/research/index_en.html)
- **RTD info magazine:**  
[http://ec.europa.eu/research/rtdinfo/index\\_en.html](http://ec.europa.eu/research/rtdinfo/index_en.html)
- **Innovation Union website**  
<http://ec.europa.eu/research/innovation-union/>
- **Information requests:**  
<http://ec.europa.eu/research/index.cfm?pg=enquiries>
- **Joint Programming – Agriculture, Food Security and Climate Change**  
<http://www.faccejpi.com/>

