



Laboratory networks for research in Europe

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Networks and Networking
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Presentation outline

- **European Research Policy - Treaty**
- **EU Framework Programmes (FPs)- ERA**
- **Type of projects/ funding schemes/instruments**
- **Examples of networks in EU supported research in animal health**
- **Other schemes for networking, ERA-NET, COST**

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Treaty establishing the European Community Art 163-173 Research and Technological Development Objectives

- “The Community shall have the objective of **strengthening the scientific and technological bases of Community industry** and encouraging it to become **more competitive** at international level, while promoting all the research activities deemed necessary by virtue of other chapters of this Treaty.
- For this purpose the Community shall, throughout the Community, encourage **undertakings**, including **small and medium-sized undertakings, research centres and universities** in their research and technological development activities of **high quality**; it shall **support their efforts to cooperate with one another**, aiming, notably, at enabling undertakings to **exploit the internal market potential to the full**, in particular through the opening-up of national public contracts, the definition of common standards and the removal of legal and fiscal obstacles to that cooperation.”

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Treaty establishing the European Community

Art 163-173

Research and Technological Development Objectives

- **Complements** the activities carried out by Member States. **European added value**
- Promotes **cooperation** with and between undertakings, research centres and universities
- Promotes **cooperation** with third countries and international organisations
- The Community and and MS shall **coordinate** their research activities

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EU Framework Programmes (FPs)

- The FPs are the European Union's multi-annual Research funding mechanism
 - **FP6 2002-2006**
 - **FP7 2007-2013**
- FPs are mainly based on transnational collaborative research. FP7 introduces funding of individual teams (European Research Council)

Important

The FPs represent around 5% of total public spending in R&D in the European Union in accounting terms but much larger impact if “free” funds are considered.

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European Research Area ERA

Concept of ERA developed since 2000

“Area” dimension for circulating and exchanging ideas

- Large European research “market”: researchers, knowledge and technology would circulate freely
- An area for the coordination of national activities, initiatives and policies
- An area for the implementation and funding of European wide initiatives

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Funding instruments /schemes in the FPs

- **Collaborative Projects (CP), Integrated Projects (IP), Specific Targeted Research Projects (STREP)**
 - Developing new knowledge , new technology, demonstration activities
- **Coordination Actions (CA) and Specific Support Actions (SSP)**
 - Activities aimed at coordinating or supporting research activities and policies
 - Networking, exchanges, transnational access to research infrastructures,
 - studies, conferences..;
 - Training
 - Coordination of national programmes (ERA-NETs)
- **Networks of Excellence (NoE)**
 - Durable integration of participants research activities
 - Joint programme of activities: integrating activities, joint research programme, spreading excellence

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EU supported research in Animal Health in the FPs

- **Improve or develop new tools for the prevention, surveillance, control and eradication of infectious diseases. Incorporate the latest scientific advances and increase knowledge**
 - diagnosis
 - vaccines, vaccination strategies
 - epidemiology,
 - pathogenesis, host-pathogen interaction...
- **Basic and translational research, networking**
- **EU consortia in major infectious diseases, critical mass at international level**
- **Contributions to evolution of EU legislation and OIE standards**
- **Animal health, public health, food safety, sustainable farming, food security**

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FP6- 2002-2006 some examples

Coordination Action for FMD and CSF CA FMD/CSF

<http://www.foot-and-mouth.org/fmd-csf-ca>

The European surveillance network for influenza in pigs ESNIP2

<http://www.esnip.ugent.be/>

Surveillance network of reoviruses, bluetongue and African horsesickness in the Mediterranean Basin and Europe MED-REO-NET

<http://medreonet.cirad.fr/>

Veterinary Network of Laboratories Researching into Improved Diagnosis and Epidemiology of Mycobacterial Diseases VENOMYC

<http://www.ucm.es/info/venomyc/>

Permanent network to strengthen expertise on infectious diseases of aquaculture species and scientific advice to EU policy PANDA

<http://www.europanda.net/>

http://ec.europa.eu/research/fp6/ssp/themes_en.htm#202

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FP6- 2002-2006 some examples

Training and technology transfer of avian influenza diagnostics and disease management skills
FLUTRAIN

<http://flutrain.captureclients.net/general.php>

Development and enhancement of laboratory networks for avian influenza **FLU-LAB-NET**

<http://www.flu-lab-net.eu/>

Coordination, harmonisation and exchange of biosafety and biosecurity practices within a pan-European network **BIOSAFETY-EUROPE**

<http://www.biosafety-europe.eu/>

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FP6 2002-2006 Networks of excellence

- **NoE for Epizootic Disease Diagnosis and Control** **EPIZONE**
<http://www.epizone-eu.net>
- **NoE for the prevention and control of zoonoses** **MED-VET-NET**
<http://www.medvetnet.org/cms/>
- **European Animal Disease NoE for Animal Health and Food Safety** **EADGENE**
<http://www.eadgene.info>

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AI
FMD
CSF
ASF
BT

EPIZONE 2006-2010 (14 m€) Network of Excellence

- Preparedness, prevention, detection and control of epizootic diseases, “virtual institute”
- Joint research:
 - Diagnostics
 - Intervention strategies (inc.vaccines)
 - Risk assessment
 - Surveillance and epidemiology
- Spreading excellence, training, young scientists **YOUNG EPIZONE**
- International cooperation
NL,UK,DE,SE,DK,IT,ES,FR, BE, PL, TR, China, FAO
- OIE in Advisory board
- More than 250 scientists



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FP7- 2007-2013

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

Cooperation

Ideas

People

Capacities





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FP7 2007-2013 examples

Cooperation Programme- Theme 2

- International network for capacity building for the control of viral vector borne zoonotic diseases (WNF,RVF,CCHF) **ARBO-ZOONET**

Capacities Programme

- The Network of Animal Disease Infectiology and Research facilities **NADIR**

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ERA-NET Scheme

To develop and strengthen the coordination of public research **programmes** carried out at national or at regional level.

All participants should be either **programme owners** (e.g. ministries) or **programme managers** (e.g. research councils, agencies)

http://cordis.europa.eu/fp7/coordination/eranet_en.html





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ERA-NET EMIDA

Coordination of European Research on Emerging and Major Infectious Diseases of Livestock **EMIDA. DEFRA, UK,27 participants**

- Develop a durable focused network of national research funders in MS and AC
- Sharing information, coordinating activities and working towards a common research agenda
- Mutual research funding activities in the field of animal health.
- Emerging and major infectious diseases of production animals, including fish and bees
- Builds on the work of the Collaborative Working Group (CWG) of the Standing Committee of Agriculture Research (SCAR)

<http://www.emida-era.net/>

http://ec.europa.eu/research/agriculture/scar/index_en.cfm





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Other networking

Marie Curie Initial training networks

http://cordis.europa.eu/fp7/people/initial-training_en.html

European Cooperation in Science and Technology Cost Actions

<http://www.cost.esf.org/>





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Further Information

Sixth Framework Programme:

<http://www.cordis.lu/fp6/home.html>

Seventh Framework Programme:

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

