

FP7 Cooperation Work Programme 2010: ERA-NET Call 2010

Call identifier: *FP7-ERANET-2010-RTD*

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Deadline: 19 January 2010, at 17.00.00, Brussels local time

Thematic Activities:

HEALTH:

HEALTH.2010.1.1-2: Genomics and Genetic Epidemiology of Multifactorial Diseases. FP7-ERANET-2010-RTD

The project should bring together national programmes on genomics and genetic epidemiology of multifactorial diseases. It should also create synergies by uniting vast amount of data, resources and know-how which exist in different member states. **Note:** Limits on the EC financial contribution apply. These are implemented strictly as formal eligibility criteria. You must refer to the call fiche for details of these limits.

Funding scheme: ERA-NET Coordination and Support Action (Coordinating Action)

EC contribution per ERA-NET: max. EUR 2 000 000

Only up to one proposal can be selected.

Expected impact: This ERA-NET will coordinate national programmes on genomics and genetic epidemiology of multifactorial diseases. It will establish a platform for setting joint priorities and strategies for research programmes, launch joint transnational calls for proposals, and foster collaboration between scientists from different countries and thereby contribute to the creation of the European Research Area.

HEALTH.2010.2.4.1-1: ERA-NET on translational cancer research in Europe. FP7-ERANET-2010-RTD

ERA-NET to coordinate national and regional translational cancer research funding organisations' activities, aiming at the integration of basic, clinical and epidemiological cancer research and facilitation of coordinated, transnational cancer funding in Europe with the ultimate aim to streamline EU-wide cancer screening, early diagnosis, prognosis, treatment and care. **Note:** Limits on the EC financial contribution apply. These are implemented strictly as formal eligibility criteria. You must refer to the call fiche for details of these limits.

Funding scheme: Coordination and Support Action (Coordinating Action)

EC contribution per ERA-NET: max. EUR 2 000 000

Only up to one proposal can be selected.

Expected impact: The results of this ERA-NET will contribute to the creation of the European Research Area by facilitating and coordinating regional, national and European cancer research funding programmes between member states. The ERA-NET will structure human resources and allow synergy rather than competition for and dispersion of many different sources of funding improving both the strategic planning and efficient management of translational cancer research efforts in the EU-27 and associated countries.

HEALTH.2010.2.4.4-2: ERA-Net on rare diseases. FP7-ERANET-2010-RTD

This action should improve the linking and efficient integration and coordination of national/regional programmes for rare diseases research, building on previous activities in this field. The action should include a strategy leading to the mutual opening of national/regional programmes to the participants and to the implementation of joint transnational calls, as well as activities aimed at fostering the development of rare diseases research programmes in

nonparticipant Member States and Associated States. The action will also help identifying priorities for research on rare diseases, based on regional/national/European information. Due consideration should be given to the enlarged European Research Area. **Note:** Limits on the EC financial contribution apply. These are implemented strictly as formal eligibility criteria. You must refer to the call fiche for details of these limits.

Funding scheme: Coordination and Support Action (Coordinating Action)

EC contribution per ERA-NET: max. EUR 2 000 000

Only up to one proposal can be selected.

Expected impact: This action should deepen and extend the coordination of European research in the field of rare diseases.

FOOD, AGRICULTURE AND FISHERIES, AND BIOTECHNOLOGY:

KBBE.2010.1.1-02: Deepened and enlarged European cooperation in the area of Molecular Plant Sciences - ERA-NET¹³

Call: FP7-ERANET-2010-RTD

Cooperation between European research funding bodies in the area of plant genomics started in FP6 under the ERA-NET umbrella (ERA-NET Plant Genomics) and provided a successful forum for exchange of information between Member States and most importantly for setting up joint, transnational calls. The proposed network of National Funding Bodies in the area of Molecular Plant Sciences will build upon the previous ERA-NET Plant Genomics and capitalise on its achievements such as the establishment of principles and mechanisms for the evaluation of joint calls and for the management of transnational projects.

The overall aim of the network is to further increase the level of coordination between European research funding bodies in the area of plant genomics and related molecular plant sciences, seeking complementarities between national activities and pooling resources to undertake joint funding of transnational projects. Research collaborations shall serve to tackle scientific questions, to better integrate and rationalise genetic, genomic and bioinformatic resources as well as to improve the use of existing infrastructures in Europe. The network shall seek to expand the previous ERA-NET Plant Genomics membership to include funding bodies from New Member States, thus increasing participation of research institutions from New Member States in transnational activities. Depending on the financial and administrative arrangements between the network members, cooperation with research teams outside Europe shall be encouraged where deemed relevant for the tasks. In setting priorities for the network's activities it is important that complementarity with other FP7 initiatives is sought and that interactions are established with related ERA-NETs and ETPs.

Funding scheme: Coordination and Support Action (supporting action). The requested European Community contribution shall not exceed EUR 1 000 000.

Additional information: ERA-NET

Expected impact: It is expected that further coordination efforts in the area of molecular plant sciences will consolidate the initiated process of identifying major research needs, extending the partnership, pooling resources for funding and implementing research activities

KBBE.2010.1.2-06: Deepened and enlarged cooperation between phytosanitary (statutory plant health) research programmes - ERA-NET

The aim of the Community plant health regime is to prevent the introduction into the community of organisms harmful to plants or plant products or their spread within the Community. These pests and pathogens are not necessarily dangerous to the consumer but can cause substantial environmental disturbance and economic losses in crops, forests and other sectors. Due to climate changes and globalization, new threats are continuously emerging and

the number and complexity of plant health problems increases every year, requiring enhanced research efforts.

While most aspects of the European plant health regime are set at Community level, research in the field of statutory and emerging plant pests, diseases and invasive species is primarily done at the national level and would gain from enhanced coordination and integration. This is why an FP6 ERA-NET was developed in that field. Building on significant achievements made by this ERA-NET to date, a deepened and enlarged cooperation between phytosanitary research programmes will be ensured via different actions and activities, e.g.: permanent dialogue between partners and a large base of other interested parties and stakeholders, including commercial partner countries outside the EU, the industry, consumers, regulators and policy-makers; coordinated priority setting and development of a common research agenda having a genuine impact on national research activities; joint calls and research projects with sufficient financial and logistical means, alongside other coordination mechanisms, enabling efficient and coordinated response to critical problems of European dimension; establishment of a strong, self-sustainable and long-lasting network of funders. The network will be designed in such a way that it enables rapid and customized answers to challenges caused by specific harmful organisms of plant health concern.

Funding scheme: Coordination and Support Action (supporting action). The requested European Community contribution shall not exceed EUR 1 000 000.

Additional information: ERA-NET

Expected impact: The European added value of this project lies in supporting and enhancing the ERA on Community plant health regime. 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 plant health regime at Community level in the challenging context of globalization and climate change, while ensuring sustainable and competitive European plant-based industry.

NANOSCIENCES, NANOTECHNOLOGIES, MATERIALS AND NEW PRODUCTION TECHNOLOGIES:

NMP.2010.4-0-7 ERA-NET on nanotechnologies, including nanotoxicology

Technical content/scope: The objective of the ERA-NET is to improve cooperation and coordination of national research programmes, including enhanced interaction with the Framework Programme and the NMP theme in particular. The aim is to promote the rapid take-up of results of nanoscience and nanotechnology research, by stimulating the creation of a new highly competitive industry, by facilitating the design, engineering and manufacturing of the next generation high value-added products within the Member and FP7 Associated States. On the other hand, application of nanotechnology in industrial production poses new technical and organisational challenges regarding management of risks, control of quality, protection of intellectual property, benchmarking of practices, etc. Of particular importance is the area of nanotoxicology, where national initiatives are reserving a significant share of their resources. The ERA-NET should target establishing joint RTD programmes between the involved Member and FP7 Associated States, starting with nanotoxicology and risk management. Further synergies would be sought in response to existing European strategy and roadmap initiatives, as well as common National priorities.

Only ERA-NET eligible partners can participate. The minimum number of participants is set at three independent legal entities managing publicly funded national or regional programmes, each of which is established in a Member or Associated state. The Europe-wide character will be reflected in the evaluation.

The maximum EC funding requested per proposal must not exceed EUR 1.5 million.

Funding Scheme: Coordination and Support Actions (coordinating actions)

Expected impact: The activity should increase the synergies and coordination between national funding programmes, the Framework Programme, research organisations and industries, thus leveraging resources such as knowledge, capital and investment at European level. It should result in an increased and more rapid uptake of nanotechnology by European industries, while contributing towards a systematic and coordinated approach - in particular in the nanotoxicology field - towards assessment and management of potential risks.

NMP.2010.4-0-8 ERANET on Manufacturing

Technical content/scope: The objective of the ERA-NET is to improve cooperation and coordination of national and regional research programmes in the field of manufacturing, focussing on the development of new processes, and flexible, intelligent manufacturing systems, particularly dealing with everything related to machinery and machining processes. Building on the experience of the current MANUNET ERA-NET, the new ERA-NET on manufacturing will have a particular focus on increasing the participation of national authorities and programmes. Coordination with other initiatives at European level, such as the "Factory of the future" Public- Private Partnership, and at national level should be properly addressed in order ensure complementarity and a proper involvement of industry, in particular SMEs. Only ERA-NET eligible partners can participate. The minimum number of participants is set at three independent legal entities managing publicly funded national or regional programmes, each of which is established in a Member or Associated state. The Europe-wide character will be reflected in the evaluation.

The maximum EC funding requested per proposal must not exceed EUR 1.5 million.

Funding Scheme: Coordination and Support Actions (coordinating actions).

Expected impact: This activity is expected to set the basis for long-lasting cooperation in the field of manufacturing at national and regional level; to address in a coordinated way issues of common interests, and to capitalise the experience of joint calls and coordinated activities with a view to setting up a transnational European programme in the field.

NMP.2010.4-0-9 ERA-NET on Catalysis

Technical content/scope: It is essential for Europe to maintain a strong position in catalytic technologies in order to continue enjoying success in global markets. The objective of this ERANET is to lead and improve European collaboration in innovation-focused applied research for the development of new chemical manufacturing technologies. The industrial sectors concerned include e.g. pharma, fine, specialty and basic chemicals, fuels, polymers, and materials. The focus shall be on applied catalysis, which is recognized as a central technology for sustainable chemistry, in continuation of the activity carried out within the current ERA-NET on applied catalysis but with an expanded scope towards reaction and process design. Due emphasis should be given to the integration of new catalytic technologies into whole process streams and value chains. At its heart this ERANET shall have best practice approaches to the creation and management of interdisciplinary applied research projects, strengthening links between industry and academia with the final aim of reducing the time from basic research to industrial innovation. Only ERA-NET eligible partners can participate. The minimum number of participants is set at three independent legal entities managing publicly funded national or regional programmes, each of which is established in a Member or Associated state. The Europe-wide character will be reflected in the evaluation. The maximum EC funding requested per proposal must not exceed EUR 1.5 million.

Funding Scheme: Coordination and Support Actions (coordinating actions).

Expected impact: This ERA-NET is expected to set the basis for long-lasting cooperation in the field of catalysis at national and regional level, to address in a coordinated way issues of common interests, to provide new dynamism to research, technological development and

innovation in the field and to capitalise on the experience acquired with previous joint and coordinated activities.

Beyond achieving its technical scope and position, this ERA-NET should contribute to placing catalysis in the context of the value-chain of the entire technology base of chemicals manufacturing.

ENVIRONMENT:

ENV.2010.2.1.2-2 ERA-net on water management

Major challenges are raised by EU and national water public policies, including the need to reach good ecological status of water bodies, the management of extreme events, the adaptation to climate change and the need to develop integrated multiple-use management options for water resources. European water policy has ambitious goals and calls for the strengthening and further integrating European research in the field of water, developing new knowledge, as well as reinforcing mechanisms for knowledge and technology transfer to end-users. This topic calls for an ERA-net on water management which will allow to strengthening coordination/integration of research and knowledge transfer in Europe. The project should involve the main research funding bodies involved in water management research areas and soil related aspects, and link with the relevant scientific communities and the stakeholders to progressively develop coherent European water management strategy and programmes able to address the needs of EU and national water policies and fill the gaps in research needs. Scientific and technological challenges to be addressed inter alia are water management in the context of climate change, water cycle, water technologies, water scarcity and droughts, water and agriculture, floods, sanitation, water and energy, water governance, management and financing. A clear link and coordination with the Water Technology Platform must be established. The development of a platform to strengthen the science-policy interface is essential. Thus the project will also achieve significant progress on the path towards an ERA in the field of water management.

Funding scheme: Coordination and Support Action (coordinating action)

Expected impacts: Integrated/coordinated research strategy and programme enabling to deliver underpinning knowledge for relevant European Directives (Water Framework Directive 2000/60/EC and sisters Directives, EU Directive 2007/60/EC on the assessment and management of flood risks, the Soil Thematic Strategy (COM(2006) 231), the Directive 2003/87/EC on greenhouse gas emission allowance trading etc.). European and National policyresponsive research funding network, building spatial coherence at the range of scales in relation to water management and related soils issues. Greater efficiency through common infrastructure and administration.

ENV.2010.2.1.4-2 ERA-net on Biodiversity: Towards integrated European biodiversity research strategy and programmes

There is a need for strengthening research co-operation in the field of biodiversity research in Europe. Efficient research cooperation needs to be based on a continuously-developed European biodiversity research strategy that takes into account, inter alia, the projects funded under FP6/FP7 and the GEOSS, that further integrates all Member States, Associated and Candidate Countries into the ERA for biodiversity, and that helps to underpin sub-global assessments including any follow-up to the Millennium Ecosystem Assessment. This call is for an ERA-net for further developing cooperation between biodiversity research funding agencies, and to develop shared biodiversity research strategies, thereby developing a stable European cooperation structure for biodiversity research. This ERA-net should help to identify and develop important biodiversity research. It will further develop a coherent vision of research planning and use of research infrastructures, in line with the actions undertaken

within the Capacity Programme (ESFRI opportunity list will be inserted in the final version). The project could build on the existing BiodivERsA ERA-net and it should take into account lessons learnt through BiodivERsA. The current partnership of BiodivERsA should however be enlarged, in particular towards Member States and Associated Countries not members of the BiodivERsA ERA-net. Experience gained by EPBRs should also be valorised. This ERA-net should take into account the topic ENV.2010.2.1.4.3.

ENV.2010.3.1.4-2 ERA-net on Eco-innovation

The primary objective of the ERA-net project will be to pool Europe's most relevant research and innovation programmes on eco-innovation in order to reduce the fragmentation of the European research landscape in this field. Eco-Innovation is understood in a broad sense, including technologies, goods and services. To achieve this and to generate added value, the ERA-net has the following specific objectives:

- strengthening the development and adoption of eco-innovations;
- systematic exchange of information and best practice, discussion forum for (common) strategy and programme development in the field of eco-innovation;
- identification of interfaces of existing research lines and better synchronisation of national programmes;
- definition, preparation, implementation and evaluation of joint activities and funding of joint trans-national research.

The development of common metrics for eco-innovation performance measurement, the definition of appropriate research funding schemes for incremental and radical eco innovation, the different approaches towards eco-innovation in emerging economies, eco-innovation sustainability impact assessment, the issue of harmonisation of standards, are - among others - aspects related to eco-innovation that should be properly taken into account.

Funding Scheme: Coordination and Support Action (coordinating action)

Expected impact: This ERA-net should contribute to meet the Lisbon objective, help to implement the European Technologies Action Plan (ETAP), and accompany the deployment of the European Economic Recovery Plan and of the Lead Market Initiative through actions that can help modernising Europe's economy and unlock potential worldwide markets. It will build synergies with other EU complementary initiatives and tools on eco-innovation, in particular the Innovation Platform on eco-innovation, Eco-Innovation Observatory and Championing initiative under ETAP, funded by the Competitiveness and Innovation Programme.

TRANSPORT (including Aeronautics):

SST.2010.6-3. ERA-NET MARTEC II

The objective of this initiative is to strengthen the European Research Area in waterborne research by coordinating and developing synergies between national and regional maritime research programmes and policies. The activities will include: exchange of information and knowledge among national programme owners and programme managers as well as the implementation of distinct joint activities. The network will include representatives from national and regional public authorities competent for public maritime research programmes and support policies.

With respect to the previous ERA-NET MARTEC project launched under FP6, the initiative will aim at:

- Broadening its geographical scope by the inclusion of new member countries in the network.
- Intensifying cooperation by launching new joint activities: joint calls and ERA-NET Plus.

- Strengthening the dissemination of waterborne research results at the national and European level.
 - Structuring public support activities for maritime research in Europe to increase complementarities; there will be a focus on joint priority setting and a better coordinated research support portfolio.
 - Implementation of joint actions in particular in the field of waterborne network operation research in attendance of the research themes and management procedures defined in ERA-NET MARTEC.
 - Liaising with the relevant European Technology Platform (WATERBORNE) to increase coordination with respect to the implementation of the SRA in this area.
 - Liaising with SURSHIP to coordinate maritime safety related topics together.
 - Liaising with the ongoing ERA-NET Transport II to come to an integrated policy approach and a common platform to coordinate research programmes and funding activities.
- Further details about ERA-NET calls are set out in Annex 4 of the ‘Cooperation’ work programme.

Funding scheme: Coordination and Support Actions aiming at coordinating research activities

Group of topics N° 2

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Open in call: FP7-ERANET-2010-RTD

Horizontal ERA-NETs:

Support Actions for assessing the impact of the ERA-NET scheme and optimising its operational modalities (*Topic ERA-NET.2010.1*)

Since the ERA-NET scheme started in 2002, a wide community of programme owners and managers has been accumulating a valuable experience. There is tremendous scope in sharing such experience for the benefit of both current participants and newcomers to the scheme. In 2008, the Commission launched a first set of initiatives offering opportunities for mutual learning and exchange of good practice, as well as the creation of a central information platform on European transnational programme cooperation in Research and Technological Development. These initiatives can be strengthened further, taking into account the needs of the ERA-NET community in terms of implementation and future development of the ERANET principles.

Scope

Proposals may cover the following areas:

Coherent implementation mechanisms and increased mutual learning, as well as information exchange within the wider ERA-NET community. The actions should support active ERA-NETs and their participants, in particular those which started under FP7, and respond directly to the needs of the ERA-NET community.

Policy related issues in the context of programme coordination and cooperation, e.g. conceptual and methodological approaches to analyse alternative means of implementing the ERA-NET principles, in view also of a possible common set of rules for programme managers and owners.

Expected Impact

The selected support actions should provide useful input in view of the possible future evolution of the ERA-NET scheme and a further opportunity to share experiences among the

main stakeholders engaged in designing and deploying the broad structures and functions for the coordination of national research programmes. The selected actions should also highlight the synergies between ERA-NETs and other forms of national and regional research programme coordination.

Actions in support of the European Union's initiative on Joint Programming in Research. (*Topic ERA-GPC.2010.1*)

In the above mentioned Council Conclusions of December 2008, the European Research Ministers, called Member States to collaborate in a dedicated configuration of CREST (referred to as "High Level Group for Joint Programming" or GPC) to identify themes for Joint Programming, chosen following broad public consultation of the different regional, national and European scientific communities and, where appropriate, of the private sector.