

Compilation of Joint Programming Initiatives JOIN IN!

Joint Programming – Coordinating Research in Europe

New Opportunities for the Austrian Research Community

Vienna, 28 September 2011

FOREWORD

The general aim of Joint Programming is to concentrate national research efforts for a better use of Europe's precious public R&D resources, and to tackle common European challenges more effectively in some important key areas.

It will follow a structured strategic process whereby Member States agree on common visions and strategic research agendas to address major societal challenges. Such challenges include, for example, addressing climate change, ensuring energy and food supply, or the healthy ageing of citizens.

Ten Joint Programming Initiatives (JPIs) have been identified so far.
This booklet is a compilation of all JPIs and gives an overview of the thematic areas and the current status.

Austrian perspective and participation in JPI

After several years of preparing and testing the concept of Joint Programming, the moment has come to prove the usefulness of this approach. Individual researchers should scrutinize the scientific relevance of the different initiatives. Universities, research organizations and enterprises are invited to look at the strategic overlap of the Joint Programming Initiatives with the strategic orientation of their own institutions. For the Austrian government, Joint Programming offers an opportunity to make the best out of scarce resources through a multilateral partnership that addresses societal challenges in a comprehensive manner.

As a result of an analysis of the current level of Austrian expertise, six out of ten Joint Programming Initiatives are of particular interest, namely

- Neurodegenerative Disease Research (Austrian participation under discussion)
- Agriculture, Food Security and Climate Change
- A Healthy Diet for a Healthy Life
- Urban Europe
- CLIMATE Connecting Climate Knowledge for Europe
- More Years, Better Lives

Outlook JPI

For the remaining time until the start of "Horizon 2020" (the Framework Programme for Research and Innovation in the European Union 2014 – 2020), stakeholders on all levels should consider Joint Programming as an experimental endeavour that is worth trying. We all learn while we develop cross-border programming in research, and our experience will feed back into the negotiations about the European Research Area of which Joint Programming could become an important building block. What we need now is an open mind to explore a new territory of research policy-making, and the courage to draw rigorous conclusions from whatever difficulties we encounter on the way, both on a national and European level.

Christian Naczinsky
Austrian Federal Ministry of Science and Research

Andrea Höglinger
Austrian Research Promotion Agency

The concept of Joint Programming

Joint Programming – a concept introduced by the European Commission in July 2008 – is one of the five initiatives for implementing the European Research Area (ERA). The aim of *Joint Programming* is to increase the value of relevant national and EU R&D funding by concerted and joint planning, implementation and evaluation of national research programmes. Even common financing could be considered in this context.

Within the concept of *Joint Programming*, Member States shall coordinate national research activities, bundle resources, benefit from complementarities and develop common research agendas, in order to face the grand societal challenges – all in variable geometry and therefore on a voluntary basis. *Joint Programming* intends to tackle the challenges that cannot be solved solely on the national level and allows Member States to participate in those joint initiatives that seem useful for them. The Council of the European Union welcomed the concept and the objectives of *Joint Programming* in its respective Conclusions adopted on 2 December 2008, and called for "the implementation of that process led by the Member States to step up their cooperation in the R&D area in order to better confront major societal challenges of European or worldwide scale, where public research plays a key role".

To implement this concept, the High Level Group for Joint Programming (GPC for short, from the French "Groupe de haut niveau pour la Programmation Conjointe") has been established. The group's task is to identify and define the thematic fields for the first Joint Programming Initiatives, and to contribute to the preparation of Council decisions in this matter. As a pilot, the Council called in September 2008 (and in December 2008) for a **Joint Programming pilot initiative** in the area of neurodegenerative diseases with its respective Conclusions "concerning a common commitment by the Member States to combat neurodegenerative diseases, particularly Alzheimer's disease".

Moreover the GPC identified the first themes for Joint Programming Initiatives in November 2009: Agriculture, Food Security and Climate Change, A Healthy Diet for a Healthy Life (formerly known as "Health, food and prevention of diet-related diseases"), "Cultural Heritage and Global Change: a new Challenge for Europe" (formerly known as "Cultural heritage, climate change and security")
The Council of the EU confirmed these identified JPI themes in its Conclusions of 3 December 2009.

The GPC also identified a 'second wave' of themes for Joint Programming Initiatives in May 2010: Urban Europe, JPI Climate (formerly known as "CliK'EU"), More years, better lives, Antimicrobial resistance, Water challenges, Healthy & productive seas and oceans
The Council of the EU confirmed this 'second wave' of JPI themes in its meeting on 26 May 2010.

Source:



Framework Conditions

Since December 2008, the Council supported by the Commission has been trying to encourage the Member States to find common approaches for a number of issues for an effective development and implementation of Joint Programming (JP) in research – usually referred to as 'Framework Conditions' (FC). These issues are, for example, peer review procedures, foresight activities, evaluation of Joint Programmes, funding of cross-border research by national or regional authorities, optimum dissemination and use of research findings as well as protection, management and sharing of intellectual property rights. Though past experiences show that establishing binding European rules for all the FC will be difficult, it is necessary to find the right balance between developing a 'standard model' on one hand and giving 'flexibility within the model' on the other.

To discuss the Framework Conditions in detail, a respective sub-group of the High Level Group for Joint Programming (Groupe de Programmation Conjointe – ERAC-GPC) has been established. They have published the document "Voluntary Guidelines on Framework Conditions for Joint Programming in Research 2010", which can be found at:

www.era.gv.at/space/11442/directory/19999/doc/21643.html.

At the moment, the Framework Conditions are a set of non-binding recommendations based on best practices.

A specific project called "JPIs TO CO-WORK" has been set up to provide Joint Programme Initiatives (JPIs) with elements to better decide on the options available to implement the Framework Conditions.

Source:



JPIs, a process of mutual learning: TOWARDS a COMMON adoption of frameWORK

JPIs TO CO-WORK is a project funded by the European Commission under the 7th Framework Programme.

JPIs TO CO-WORK will build upon the work done by the GPC on the so-called "Framework Conditions" and the Council Conclusions on the progress in Joint Programming of 29 November 2010. The main objective of this support action is to provide JPIs with elements to better decide on the options they have to implement the Framework Conditions. JPIs TO CO-WORK will organize a process of mutual learning between all running JPIs, mainly focused on these framework conditions, and the best contribution from the JPIs can make it to the ERA within the strategy of Europe 2020.

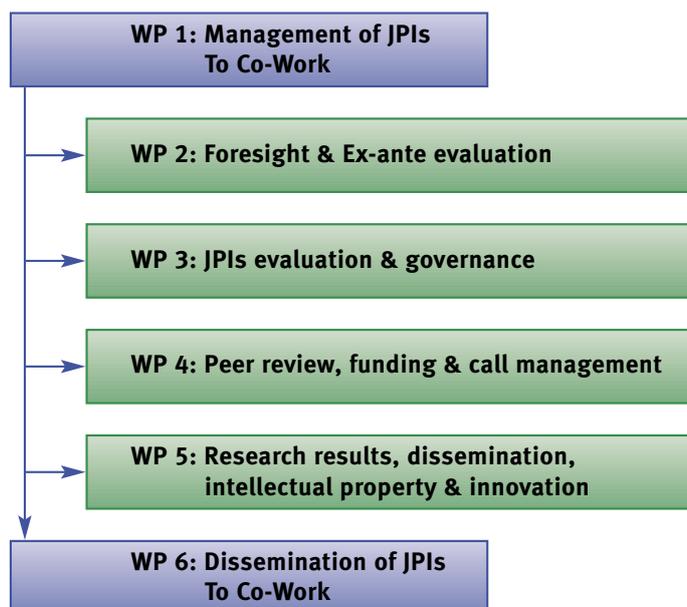
Participants:

Instituto de Salud Carlos III, Spain (Coordinator)
Joanneum Research Forschungsgesellschaft, Austria
Vetenskapsrådet, Swedish Research Council, Sweden
Bundesministerium für Bildung und Forschung, Germany
Austrian Institute of Technology, Austria
Türkiye Bilimsel ve Teknolojik Arastırma Kurumu – Tubitak, Turkey

Summary

JPIs TO CO-WORK will run for 30 months.

We will review existing literature and case studies as an input to a series of workshops where experts, participants in different multinational programmes and in JPIs will discuss options, and assess their advantages and limitations. WPs 2, 3, 4 and 5 will organize a two-day workshop. Framework Conditions will be explored to complete their analysis, to propose more specific definitions or recommendations, if necessary. Conclusions and recommendations will be validated. We will contribute to reaching a common understanding of FC, and facilitate researchers, funding agencies and other stakeholders in their approach to these multinational research programmes.



Work Packages 2, 3, 4 and 5 are focused on different framework conditions (FC). We group more than one FC in the same WP when there is a close relationship amongst them, either conceptually or functionally.

Interdependence of FC will be paid special attention.

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JPI AGRICULTURE, FOOD SECURITY, AND CLIMATE CHANGE (FACCE JPI)



Participating countries: 20

Austria, Belgium, Czech Rep., Denmark, Estonia, Finland, France, Germany, Ireland, Israel, Italy, The Netherlands, Norway, Poland, Romania, Spain, Sweden, Switzerland, Turkey, United Kingdom

Observing institutions: 2

European Commission, SCAR

Objectives:

The sectors of agriculture and forestry are highly exposed to climate change since they directly depend on climatic conditions, while emissions from agriculture in the Union account for 14% of global greenhouse gas emissions. Climate change is also one of the main challenges to agriculture in feeding the world's population which is expected to reach 9 billion by 2050. Global demand for food is expected to be increased by 50% by 2030 and to have doubled by 2050 at a time when demand for biomass for non-food purposes is predicted to grow strongly. Concerted actions are needed to prevent these combined risks from leading to irreversible damage, and to achieve a sustainable food supply under changing climate conditions.

Pilot calls

Title: "A detailed climate change risk assessment for European agriculture and food security in collaboration with international projects"

The first stage was open until 7th September 2011 and involves the submission of a letter of intent to participate in the Knowledge Hub. Following the evaluation of the letters of intent by the Steering Committee, a full proposal will be submitted in a second stage.

See www.facejpi.com and www.submissionfacejpi.com.

The instrument is the FACCE JPI Knowledge Hub, developed by the FACCE JPI to foster the transnational cooperation, collaboration and communication of the research communities in the field of FACCE, and to contribute to optimising research outcomes by facilitating a better networking and information exchange by all actors. A Knowledge Hub is a network consisting of selected research groups from JPI member countries within a defined area of research.

Highlights

- Interim governance in place and Scientific Research Agenda available
- Pilot action call launched July, 2011
- First mapping meeting held in June, 2011 on core theme 5, mitigation of greenhouse gases.
- Communication, coordination and outreach strategy has been defined
- First meeting with ERA-NETs to be held in October, 2011
- Long-term governance to be adopted in 2011

Website: www.facejpi.com/

Role of AT: Participating

Source:



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Status / State of play:

■ In the starting blocks ■ Advanced ■ Decided

■ Governance

An interim governance is in place and the management structure consists of the Governing Board, the decision-making body of the JPI, a high-level international Scientific Advisory Board, and the Secretariat. The Governing Board is composed of a maximum of 2 representatives per participating country, with one vote. The European Commission and SCAR are present as observers, also with a maximum of 2 representatives. The Scientific Advisory Board consists of 12 members who have been elected by the GB. The Secretariat is assured by the INRA and the BBSRC. There is the possibility of adding working groups as necessary; the Pilot Action Working Group, for example, was put in place in September, 2010 to begin the preparation of the pilot call.

■ SRA (Strategic Research Agenda)

A Scientific Research Agenda has been adopted by the GB. It details the 5 core research themes of the JPI:

1. Sustainable food security under climate change based on an integrated food systems perspective: modelling, benchmarking and policy research perspective
2. Environmentally sustainable growth and intensification of agricultural systems under current and future climate and resource availability
3. Assessing and reducing trade-offs between food production, biodiversity and ecosystem services
4. Adaptation to climate change throughout the whole food chain, including market repercussions
5. Greenhouse gas mitigation: N₂O and CH₄ mitigation in the agriculture and forestry sector, carbon sequestration, fossil fuel substitution and mitigating GHG emissions induced by indirect land use change

■ Cooperations with other initiatives

KIC Climate, Challenge Program on Climate Change, Agriculture and Food Security (CCAFS), Global Research Alliance on Agricultural Greenhouse Gases, Water JPI, Climate JPI, JPI Healthy Diet for a Healthy Life, all relevant ERA-NETs in the area of the JPI (a meeting between the JPI and these ERA-NETs is scheduled for October, 2011).

Work funded by a Coordination and Support Action (CSA) from the EC is divided into 7 Work Packages:

- WP1: Refining and updating the Strategic Research Agenda (UK,FR)
- WP2: Mapping and foresight for strategic collaboration (NL, ES)
- WP3: Design and delivery of implementation modalities (TR, DE, AT)
- WP4: Communication and outreach (FR, UK)
- WP5: Coordination with international initiatives (IE, RO)
- WP6: FACCE consolidation and perpetuation (UK, FR)
- WP7: Project and consortium management (FR,UK).

Source:



JPI A HEALTHY DIET FOR A HEALTHY LIFE



Participating countries: 21

Austria, Belgium, Cyprus, Czech Rep., Denmark, Finland, France, Germany, Ireland, Italy, The Netherlands, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom

Objectives:

This Joint Programming Initiative aims to provide a holistic approach to developing and implementing a research programme designed to understand the interplay of factors known to directly affect diet-related diseases, discover new relevant factors, mechanisms and strategies, as well as to contribute to the development of actions, policies, innovative products and diets, with the aim of drastically reducing the burden of diet-related diseases. The JPI's research agenda focuses on three areas:

- 1) Lifestyle › Determinants of food intake behaviour and physical activity,
- 2) Diet › Diet and food production,
- 3) Diet-related chronic diseases.

Pilot calls

Expected launch of first pilot call(s): November 2011

Highlights

- Governance in place
- First congress November 28th in the Hague, the Netherlands

Website: www.healthydietforhealthylife.eu

Role of AT: Participating

Coordinator

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Status / State of play:

■ In the starting blocks ■ Advanced ■ Decided

■ Governance

Management Board (MB), Secretariat, Scientific Advisory Board (SAB) and Stakeholders Advisory Board (SHAB)

■ SRA (Strategic Research Agenda)

Publication is to be expected in fall 2011

■ Cooperations with other initiatives

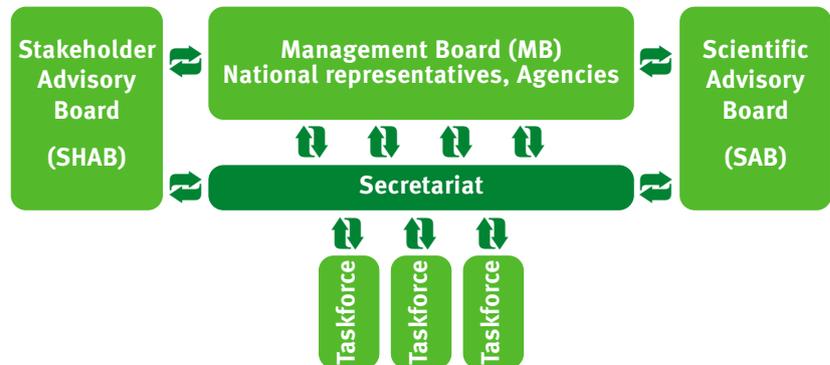
First discussions with JPI FACCE and some of the ESFRI (EU Research Infrastructure Platforms)

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI



This Joint Programming Initiative aims to provide a holistic approach to develop and implement a research programme to understand the interplay of factors known to directly affect diet-related diseases, discover new relevant factors, mechanisms and strategies, as well as to contribute to the development of actions, policies, innovative products and diets, with the aim of drastically reducing the burden of diet-related diseases.

Vision

The vision of the JPI on 'A healthy diet for a healthy life' is that in 2030 all Europeans will have the motivation, ability and opportunity to consume a healthy diet from a variety of foods, have healthy levels of physical activity and the incidence of diet-related diseases will have decreased significantly.

Strategy

Joint programming will contribute significantly to the construction of a fully operational European Research Area on the prevention of diet-related diseases and strengthen leadership and competitiveness in the food industry by effectively integrating research in the food, nutritional, social and health sciences to increase knowledge and deliver innovative, novel, and improved concepts.

Goal

To change dietary patterns based on developments in food, nutritional, social and health sciences, and to develop science-based recommendations and innovative product formats that will, together with concomitant changes in physical activity, have a major impact on improving public health, increasing the quality of life, and prolonging productive life.

Research Areas

1. Determinants of Diet and Physical Activity – *Ensuring the Healthy Choice is the Easy Choice for Consumers*

The challenge is to understand the most effective ways of improving public health through interventions targeting dietary and physical activity behaviours.

In 2030, all European consumers will have the motivation, ability, and opportunity to choose a healthy lifestyle.

2. Diet and Food Production – *Developing High-Quality, Healthy, Safe, and Sustainable Food Products*

The challenge is to stimulate European consumers to select foods that fit into a healthy diet and to stimulate the food industry to produce healthier foods in a sustainable way.

In 2030, European consumers will have a good choice of healthy foods to choose from: the healthy choice will have become the easy choice.

3. Diet-Related Chronic Diseases – *Preventing Diet-Related, Chronic Diseases and Increasing the Quality of Life*

The challenge is to prevent or delay the onset of diet-related chronic diseases by gaining a better understanding of the impact of nutrition and lifestyle on human health and diseases across Europe.

In 2030, the incidence of diet-related diseases will have decreased significantly and will continue to decline thereafter.

Source:



JPI ANTIMICROBIAL CHALLENGE - An Emerging Threat to Human Health



Participating countries: 17

Belgium, Denmark, France, Germany, Greece, Czech Rep., Finland, Italy, The Netherlands, Norway, Poland, Romania, United Kingdom, Spain, Sweden, Switzerland, Turkey

Objectives:

Antimicrobial resistance is the resistance of a microorganism to an antimicrobial medicine to which it was previously sensitive. Resistant organisms are able to withstand attack by antimicrobial medicines, such as antibiotics, antivirals, and antimalarials, so that standard treatments become ineffective and infections persist and may spread to others. AMR is a consequence of the use, particularly the misuse, of antimicrobial medicines and develops when a microorganism mutates or acquires a resistance gene. In Europe as in the world as a whole, antimicrobial resistance is now a real threat to public health, resulting in longer, more complicated courses of treatment, a greater risk of death and additional costs for healthcare systems.

Pilot calls

A pilot call has been discussed, but was rejected as premature.

Highlights

- A scientific workshop was held in May 2011, resulting in ideas and documents that will be used as a basis for the SRA.
- The Scientific Advisory Board is currently being assembled.

Website: under development and launch planned for late 2011.

Role of AT: No

Coordinator

Prof. Mats Ulfendahl
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Source:

Status / State of play:

■ In the starting blocks	■ Advanced	■ Decided
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■ **Governance**

These structures are set up and working.

■ **SRA (Strategic Research Agenda)**

The process towards an SRA has been initiated.

■ **Cooperations with other initiatives**

Have not yet been initiated.

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

JPI CLIMATE - Connecting Climate Knowledge for Europe



Participating countries: 12

Austria, Belgium, Denmark, Finland, France, Germany, Norway, Italy, Sweden, The Netherlands, United Kingdom, Ireland

Observing countries: 2

Slovenia, Turkey

Observing institutions: 3

NordForsk, EEA, ERA-Net CIRCLE 2

Objectives:

JPI Climate contributes to a highly coordinated knowledge development by improving the scientific expertise on climate change risks and adaptation options, and by connecting this knowledge with decision making on safety and major investments in climate-vulnerable sectors in Europe. The main objective is to empower European decision makers to take appropriate action on climate change by providing integrated climate knowledge and decision support services for societal innovation.

Pilot calls

Not yet – at the present, there is no plan for a specific call. Development of pilot activities in progress (started in May 2011).

Highlights

JPI Climate is composed of 4 modules:

- moving towards reliable decadal climate predictions
- researching climate service development and deployment
- sustainable transformations of society in the face of climate change
- improving tools for decision making under climate change

Each module fully develops its added value in relation to and in exchange with the main objective of JPI Climate which is the core of JPI Climate. It is from this core that interaction between the modules takes place and is consciously stimulated. Thus, all four modules contribute to core activities. Vice versa, the insights and developments in the core will have an effect on the modules.

Greater integration will be secured in 3 domains:

Society: connecting scientific insights with the demands of policy makers, decision makers and other stakeholders, leading to more effective policies.

Science: connecting different disciplinary approaches in natural and social sciences leading to interdisciplinary research efforts of higher quality and relevance.

Europe: connecting top researchers and research groups from different European countries, leading to high-quality and efficient research efforts, long-term collaborations and a stronger global position.

Website: www.jpi-climate.eu

Role of AT: Co-leader

Source:



Chair of Governing Board

Wilfried KRAUS, Germany

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Status / State of play:

In the starting blocks Advanced Decided

■ Governance

The Governing Board (GB) and Central Secretariat have been decided; Rules of Governance were adopted by the GB in May 2011, the Management Committee of Working Group chairs and Transdisciplinary Advisory Board (TAB) have been proposed and will be nominated at the next GB meeting in November 2011 in Bologna.

■ SRA (Strategic Research Agenda)

SRA has been finalized and was adopted at the last meeting in May 2011 in Helsinki.

■ Cooperations with other initiatives

ERA-Net CIRCLE 2

The 5 guiding Governance Principles of JPI CLIMATE

Sustainability: taking into account the challenges of climate change in the work of the JPI based on active reflection of operations (e.g. "green meetings") and formulating the endeavour of constant improvement of the operations in climate performance.

Stakeholder orientation: to integrate the knowledge, values and objectives of societal decision makers in the implementation and operation of the JPI through the active participation of stakeholder group representatives in accordance with the JPI mission.

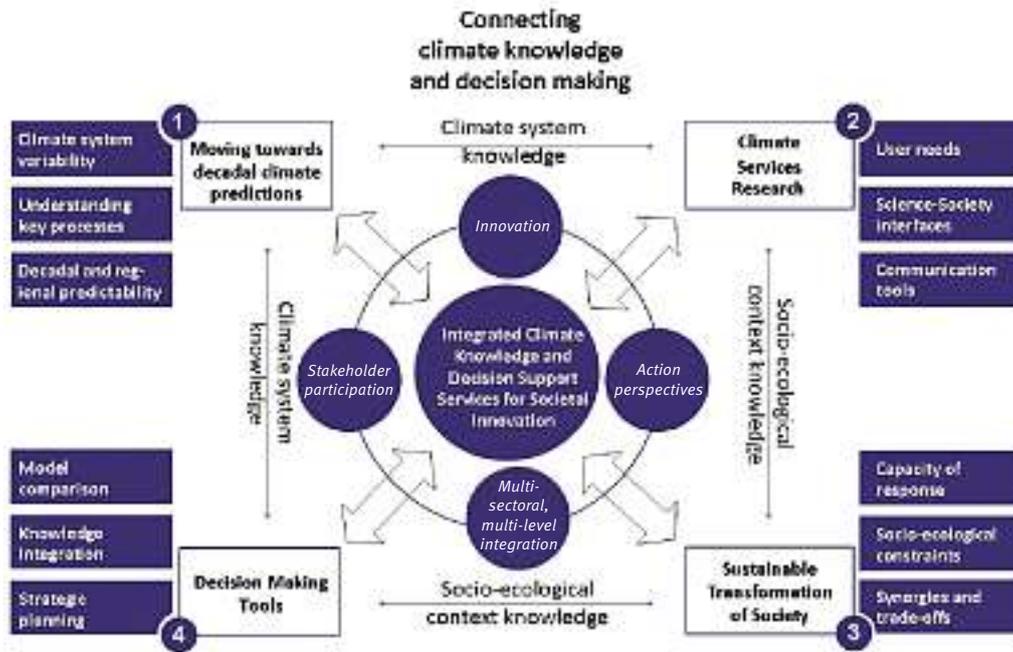
Adaptability: to enable the JPI's thematic framework to respond to novel scientific insights and research requirements, current states of societal transformations, and potential exigencies due to sudden social-ecological crises.

Cost efficiency: to limit superfluous duplication of scientific/technical and funding activities.

Transparency: to base the collaborative efforts encompassed within JPI development and their implementation on the notions of openness, mutual learning, mutual dependency, and joint creativity; and to foster the free flow and sharing of information, experiences and opinions.

Source:





Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

JPI CULTURAL HERITAGE AND GLOBAL CHANGE: A NEW CHALLENGE FOR EUROPE



Participating countries: 18

Belgium, Cyprus, Czech Republic, Denmark, France, Ireland, Italy, The Netherlands, Lithuania, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom

Observing countries: 7

Austria, Bulgaria, Estonia, Germany, Greece, Israel, Portugal,

Objectives:

Cultural heritage, as defined by the UNESCO, Convention Concerning the Protection of the World Cultural and Natural Heritage and the Convention for the Safeguarding of the Intangible Cultural Heritage, is a very fragile patrimony and is exposed to multiple risks due to ageing, adverse environmental conditions, and human pressure. The combined effects of climate change, other environmental changes, human interventions, and security risks threaten Europe's cultural heritage. In particular, climate change may lead to cultural heritage assets being irreversibly damaged or lost because of their fragility and age.

Pilot calls

A first pilot call will be launched by October 2012

Highlights

- This JPI will create a new umbrella for cultural heritage research.
- European cultural heritage is of exceptional economic importance for the tourism industry.
- The benefits of re-use as embodied by cultural heritage are numerous.

Website: JPI web site is under construction. It is possible to find information on www.heritageportal.eu, produced in the Net Heritage project.

Role of AT: Observer

Coordinator

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Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

Status / State of play:

■ In the starting blocks ■ Advanced ■ Decided

■ **Governance**

Establishment of the Governing Board and Executive Board on March 26th 2010

■ **SRA (Strategic Research Agenda)**

The definition of SRA is starting now on the basis of the Strategic Research outputs of the NET HERITAGE Project.

■ **Cooperations with other initiatives**

NET-HERITAGE, HERA, DC-NET, ERNEST, CHARISMA, Construction ECTP

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

JPI HEALTHY AND PRODUCTIVE SEAS AND OCEANS



Participating countries: 16

Belgium, Denmark, Germany, Finland, France, Iceland, Ireland, Italy, The Netherlands, Norway, Portugal, Romania, Spain, Sweden, Turkey, United Kingdom

Objectives:

The JPI Oceans is a coordination platform open to all EU Member States and Associated Countries who invest in marine and maritime research. It aims to create synergies, avoid duplication and fragmentation, fill existing gaps, plan joint and flexible initiatives, facilitate cooperation and forecasts, and establish efficient mechanisms for knowledge transfer and interaction between science, innovation, and policy support.

Pilot calls:

Not yet

Highlights

- 20th April 2011 – JPI Oceans was assessed as mature by the European Commission

Website: www.jpi-oceans.eu

Role of AT: No

Coordinator

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Status / State of play:

In the starting blocks Advanced Decided

Governance

The JPI Healthy and Productive Seas and Oceans will be run by a high-level Management Board with two representatives from each country with sufficient authority to agree on joint action plans and potential funding initiatives across Europe.

The Management Board (Interim MB, establishment of MB expected autumn 2011) will put in place a Strategic Advisory Board of high-ranking scientists, technologists, economists, and representatives of industry. They will be tasked with developing a strategic research and innovation agenda (SRIA) and advising on the implementation tools needed. The Management Board will adopt the SRIA which will be used to produce an implementation plan

SRA (Strategic Research Agenda)

Strategic Research and Innovation Agenda has not yet been developed

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

■ Cooperations with other initiatives

The JPI Oceans will be built on the principle of variable geometry. Participating countries will decide which actions to participate in and which contributions to provide. In doing so, the JPI will seek to use the broadest range of funding and instruments available for research, infrastructure, and innovation at national, regional, and European level:

- additional funds, in-kind capacities (human resources, infrastructure and institutionalised money)
- structural and cohesion funds
- grants
- fostering networking and research alliances (across the innovation chain) and
- mechanisms to foster open access to knowledge, data and information

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

JPI MORE YEARS, BETTER LIVES



Participating countries: 13

Austria, Denmark, Finland, France, Germany, Italy, Poland, The Netherlands, Switzerland, Sweden, Turkey, Spain, United Kingdom

Observing countries: 3

Belgium, Ireland, Norway

Objectives:

The vision of an "active life in old age" will become one of the major social challenges in Europe and other highly industrialised world regions in the coming years. The EU Member States need to develop and implement new solutions, policies and strategies for dealing with ageing. R&D is a fundamental cornerstone when it comes to defining the benefits and challenges as well as exploiting the potential and capabilities of an ageing society. With the help of the best available scientific knowledge that is actively and openly shared among all participating research disciplines, it will be possible to take advantage of the years gained and to master the challenges of demographic change and turn it into a window of opportunity.

Pilot calls

Not yet defined

Highlights

- first mapping of national programmes available on website
- Commission recommendation for this JPI published on 13 July 2011

Website: www.jp-demographic.eu/

Role of AT: Participating

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Status / State of play:

■ In the starting blocks ■ Advanced ■ Decided

Governance

General Assembly of Member States, and Chair and Vice Chairs of General Assembly elected and operating (Chair: Dr. Bernhard Rami, Vice Chair: Prof. Marja Vaarama, Vice Chair: Prof. Paolo M. Rossini)

Source:



And 5 scientific Working Groups established:

- Health & Performance
- Social Systems & Welfare
- Work & Productivity
- Education & Learning
- Housing, Urban and Rural Development & Mobility

■ **SRA (Strategic Research Agenda):**

Under development, first version to be finalised in 2012.

■ **Cooperations with other initiatives**

ERA-Age2, FUTURAGE, JPND, AAL Joint Programme

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

JP Pilot Initiative - NEURODEGENERATIVE DISEASE RESEARCH (JPND)



Participating countries: 23

Albania, Belgium, Czech Rep., Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, The Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom
Austrian participation under discussion

Objectives:

JPI Neurodegenerative Diseases is a European Union member-state and participating countries-led initiative to tackle one of the 'grand challenges' which faces EU society, namely that of neurodegenerative diseases and Alzheimer's diseases in particular. Grand challenges are issues such as climate change, food and energy security. Realistically, they are beyond the capacity of any individual country to resolve, and would benefit from a co-ordinated approach to research.

Pilot calls

Open from March to September 2011
Optimisation of biomarkers and harmonisation of their use between clinical centres, 21 countries, € 16 million
Centre of Excellence Network (COEN) Initiative, 6 countries, € 7 million

Highlights

- SRA on course to be delivered and published by end 2011 (www.neurodegenerationresearch.eu/initiatives/strategic-research-agenda/workshops/final/)
- Mapping exercise of national and European programmes completed
- SRA scientific workshops (basic/clinical/healthcare), stakeholder discussions, public consultation held

Website: www.neurodegenerationresearch.eu

Role of AT: still open

Coordinator

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Austrian Contact

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Status / State of play:

■ In the starting blocks ■ Advanced ■ Decided

■ Governance

Management Board and Executive Board established and working (9th Management Board meeting on Sept 29th, 2011 in Dublin).

Secretariat appointed. Scientific Advisory Board (15 members) established and working.

Source:



■ **SRA (Strategic Research Agenda) Timeline (2011)**

March – 3 thematic workshops (Paris, Madrid, London)
 April – preliminary reports for focussed stakeholder discussion
 May – workshop reports published and stakeholder meetings
 June – 4th ‘integrative’ prioritisation workshop (Rome)
 July – final workshop report published for consultation
 Aug–Sept – Public Consultation online
 Sept – MB discussion
 Nov – MB final validation

■ **Cooperations with other initiatives**

Participation in the pilot European Innovation Partnership on Active and Healthy Ageing.
 Supports the ”JPIs TO CO-WORK“ proposal submitted in February 2011 to ”Refine and promote the adoption of European-level guidelines in the domain of the Framework Conditions for JPI“

Source:



Austrian Federal Ministry of Science and Research

Update:
 by the representatives of the JPI

JPI URBAN EUROPE



Participating countries: 12

Austria, Denmark, Finland, France, Ireland, Italy, Malta, The Netherlands, Sweden, Switzerland, Turkey, Norway

Interested countries: 2

Belgium, Portugal

Observing countries: 2

Spain, Germany

Objectives:

The JPI URBAN EUROPE has a clear focus on urban areas as key elements for smart, sustainable and inclusive growth. As urban areas are the main drivers of growth in the European economy, URBAN EUROPE thus provides an important contribution to the EU 2020 strategy. The initiative aims to develop innovative approaches to adequately address challenges, and to create urban places of vitality, livability and accessibility. URBAN EUROPE provides a systemic long-term and strategic approach which takes advantage of emerging technologies, assessing their potential and socio-economic impacts, and utilising them in fundamentally new urban policies and design strategies.

Pilot calls

Early 2012

Highlights

- Pilot phase (2012 – 2013) of joint calls and joint activities with the aim to elaborate a detailed Strategic Research Agenda
- Implementation phase (2014-2020) for the implementation of the research programme

Website: www.jpi-urbaneurope.eu

Role of AT: Coordinator

Coordinator

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Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

Status / State of play: In the starting blocks Advanced Decided

■ Governance

- Governing Board with representatives of all participating countries
- Management Board working with members seconded by several countries
- Scientific Advisory Board consisting of high-ranking experts
- Urban Europe Forum bringing together the most important European stakeholder networks and industrial players in the field

■ SRA (Strategic Research Agenda)

The elaboration of a Strategic Research Framework has been completed, outlining the areas of research. A pilot phase of two years (2012 – 2013) will allow the detailed description of the research questions and structures to be implemented in 2014 – 2020;

■ Cooperations with other initiatives

collaboration with China has been started.

Source:



JPI WATER CHALLENGES



Participating countries: 14

Cyprus, Denmark, Finland, France, Hungary, Ireland, Italy, The Netherlands, Portugal, Poland, Romania, Spain, Turkey, United Kingdom

Observing countries: 6

Austria, Belgium, Germany, Greece, Norway, Sweden

Objectives:

The demand for water is growing faster than the world population. In the coming bio-based economy, which is anticipated to emerge in the 21st century, agriculture will become an even more intensive water user. This means that, in situations of relative scarcity, competition between the different user groups (agriculture, municipalities and industry) will be strong. This will also have a great impact on European ecosystems. Satisfying water users under conditions of increasing scarcity will require not only effective use and accelerated development in science and technology, but will also mean paying more attention to integrated water management. To be successful in overcoming problems such as water resources depletion and water scarcity, Europe needs to cooperate intensively on water research.

Pilot calls

A decision has not been adopted, but a pilot call could be published in 2013

Highlights

Objectives address the need for increased coordination in European research, development and innovation (RDI), and address issues such as user participation, attaining targets in the coordinated use of funds, and progress in the integration of RDI agendas and activities.

The research questions are cast in five axes: the bio-based economy, sustainable ecosystems, healthier water systems for a healthier society, improving water use in industry, and closing the water cycle gap.

Website: The website will be available in 2012. In the meantime, an information repository is currently available at <http://155.210.150.22/jpi/> containing all JPI documents.

Role of AT: Observer

Coordinator

Enrique PLAYAN or
Rosa RODRIGUEZ-BERNABE
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Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

Status / State of play:

In the starting blocks
 Advanced
 Decided

■ Governance

The Governing and Executive Boards are set up and working. Members of the Scientific and Technological Board and the Stakeholder Advisory Group have been appointed. These boards will be constituted on October 18 and 19, respectively.

■ SRA (Strategic Research Agenda)

First iteration to be completed in 2011; second iteration to be completed in 2012. The SRA will respond to the research questions stated above.

■ Cooperation with other initiatives

Close cooperation has been achieved with the Water Supply and Sanitation Technology Platform. Progress is being made to support the European Innovation Partnership on "Water Efficient Europe".

Source:



Austrian Federal Ministry of Science and Research

Update:
by the representatives of the JPI

CURRICULA VITAE

Christina I. M. Abildgaard

Abildgaard graduated from the Norwegian University of Life Sciences in 1985 and has a Ph.D in biotechnology. She is the Director of Department for Environmental Research and Marine Resources in the Research Council of Norway since January 2011. She was recently a Deputy Director General in the Department of Research and Innovation in the Norwegian Ministry of Fisheries and Coastal Affairs. She has previous experience from different positions in the Research Council of Norway, from Ministry of Trade and Industry, and from industry and academia.

In the Research council of Norway she has been responsible for large scale programs within Aquaculture, ICT, nanotechnology and biotechnology, and programs within environment, food technology, Oceans and programs within Ethical and Legal Aspects of Biotechnology. She has also been responsible for foresight activities. Her field covers research policy and strategy within marine research, environment, biotechnology including marine bioprospecting and food technology.

She has been a member of several national and international research policy committees within OECD and EU and been a member of the Norwegian Biotechnology Advisory Board. She is a member of the Management Board in JPI Oceans.

Rosa Rodríguez Bernabé

Dr. Bernabé has a degree in Biology and holds a PhD in Immunology from the Complutense University of Madrid. She was a Research Scientist at the Basel Institute for Immunology, Basel, Switzerland.

She has worked since 1990 as Senior Research Programme Manager at the National Plan for Research, Development and Innovation, Ministry of Science and Innovation (MICINN).

Dr. Bernabé is Head of the Life Sciences and Agrofood Department at MICINN since 1994, and is responsible for coordination and evaluation of national programmes and for the management of national calls in the fields of Fundamental and Molecular Biology, Biomedicine, Biotechnology and Agrofood.

She has more than 10 years of experience in scientific international cooperation, as Deputy Director General for International Programmes at MICINN (2008–2010) she has been in charge of planning, coordination and evaluation of international cooperation programmes. She piloted the participation of MICINN in several ERA-NETs (ERA-PG, ERA-IB, Pathogenomics, ERA-SysBio, SysMo and NEURON) and JPIs, and she has been in charge of coordinating the implementation and management of the ERA joint calls.

Presently, Dr. Bernabé is strongly involved in the coordination and implementation of JPI "Water Challenges for a Changing World" as member of the national coordination team and representative of MICINN at the Governing Board.

Kirsten Broch Mathisen

Current position: Director, member of the staff to the Executive Director of the Division for Energy, Resources and the Environment. Particular responsibilities for multi – and interdisciplinary issues related to Global change research, including climate change research and polar research. 14 years of experience as a director of different departments at the Research Council within the field of environmental issues, climate change, sustainable development, energy, petroleum, and issues related to development in developing countries, and polar research. Current membership: Vice Chair of The International Institute of Applied System Analysis (IIASA) Council, Vice chair JPI Climate, member of Belmont Forum and IGFA, member of the management board of the Nordic Top-Level Research Initiative.

Rita Lecbychova

Rita Lecbychova received the degree of Engineer in the Slovak Technical College in Bratislava in the field of Constructions and Transport Structures in 1987. In 1993 she received the scientific degree of a Candidate of Technical Sciences in the Slovak Technical University in Bratislava. She was involved in university teaching and research activities in the Slovak Technical University in Bratislava from November 1991 till December 1993. From February 1995 till January 2011 she worked as a Director of the Commercial and Economic Chamber in Zlin in the Czech Republic.

She joined the European Commission Directorate General for Research and Innovation on 1st February 2011 as a Head of Unit B.4 – Joint Programming. The Unit B.4 is a part of Directorate B – European Research Area of Directorate General for Research and Innovation.

Adriana Maggi

Professor Maggi is currently Professor of Pharmacology and Biotechnology and Director of the Center of Excellence on Neurodegenerative Diseases of the University of Milan.

Her research expertise is in the field on Molecular Endocrinology and Women Aging where she authored more than 150 research papers and reviews, she is also author/editor of 4 books and 6 patents.

The research carried out by Adriana Maggi and her team is sponsored by National and International grants by public as well as private Funds. A. Maggi has been co-ordinator of four European programs including the European Programme Estrogen in Women Aging (www.ewa.unimi.it): the first European Programme devoted to the study of menopause and related treatments. She is recipient of a NIH grant for the study of the role of inflammation in women aging.

She served as a member of the editorial board of Molecular Endocrinology, Journal of Endocrinology, Expert Review of Endocrinology & Metabolism; Pharmacological Research Communication and is currently part of the Editorial Board of Endocrinology.

Because of the work in the field Prof. Maggi was awarded the Lecture Medal of the European Society of Endocrinology in 2005.

Prof. Maggi is member of the Scientific Committee of the European Innovative Medicine Initiative; since 2008 she has been serving as a delegate of the Italian Ministry of Research to the Joint Programming Initiative on Neurodegenerative Diseases, JPND, and she is at present Vice President and member of the Executive Board of JPND.

Enrique Playan

Education: Agricultural Engineer. Politechnical U. of Catalonia, Lleida, Spain, 1988, PhD in Agricultural and Irrigation Engineering, Utah State University, Logan, UT, USA, 1992

Current Employment: Research Professor (Profesor de Investigación) of the Scientific Research Council (CSIC) of the Government of Spain, at the Estación Experimental de Aula Dei, Zaragoza, Spain.

Scientific Specialization: Irrigation engineering. Simulation, design, management and evaluation of surface, sprinkler and drip irrigation systems. Computer assisted water management in irrigation districts (UNESCO: 3102.05).

Research Management Experience:

Scientific Officer (Detached National Expert), Unit of International Cooperation Activities (N2), Direction of International Cooperation, Direction General of Research and Technological Development, European Commission. (2003–2005).

Manager and Deputy Manager of the Agricultural and Forestry Area of the National R&D Plan, Ministry of Science and Innovation, Government of Spain (2006 to present).

Coordinator of the European Joint Programming Initiative "Water Challenges for a Changing World" (2010 to present).

Participation in International Committees:

President of the committee CEN/TC334 "Irrigation Techniques". CEN, European Normalization Committee. Member of the committee ISO/TC23/SC18 "Irrigation and Drainage Equipment". ISO, International Standardization Office. 2008 to present.

Member of the Working Group on "Technology and Research Uptake and Exchange" (WG-TRUE) of the International Committee on Irrigation and Drainage (ICID), representing Spain through the local Committee Chapter (AERYD). 2006 to present.

Paolo Maria Rossini

Born in Rome on 9th June 1949. Honours in Medicine (Catholic University of Rome, July 1974). 1974 – 1978 attended the postgraduate course as a Resident in Neurology supervised by Professor Giorgio Macchi (graduated November 1978) with a dissertation on Evoked Potentials. Appointed Assistant Professor in 1978 and subsequently transferred to the University of Chieti where he remained until 1984. Appointed Associate Professor in 1985 and transferred to the University of Rome "Tor Vergata". 1984 – 1990 actively participated in the development of clinical applications in transcranial electrical & magnetic stimulations collaborating with many Italian and foreign colleagues. Appointed in 1990 as chairman of the Department of Neurology at the Fatebenefratelli Hospital "San Giovanni Calibita" of Rome. Since then he has guided the Clinical activity of the Department. Actively collaborates with research centres operating principally with the National Research Council of Italy in the field of neuromagnetic brain activity. Visiting Professor at the University of Irvine (California) in 1989. Organizer of many National and International congresses on Neurology and Clinical Neurophysiology. On several occasions has been appointed Official Delegate of the Italian Society of Clinical Neurophysiology. Over the years, Professor Rossini has taught on various occasions on neurological subjects at the Neurology courses held at the Faculty of Medicine and Surgery at the University of Chieti, "La Sapienza" as well as at the Post-Graduate School in Neurology, Neurosurgery, Anaesthesia, and Intensive Care of the University of Rome "Tor Vergata". Member of the Executive Committee of the International Federation of Clinical Neurophysiology.

Editor-in-Chief of "*Electroencephalography and Clinical Neurophysiology*" (*later Clinical Neurophysiology*) between 1995 and 2003. Scientific Director of the Scientific Institute on Dementia and Psychiatry recognized by the Italian Ministry of Health between 1997 and 2007. Chairman of Department of Neuroscience at Fatebenefratelli Hospital between 1999 to 2010. Scientific Director of AFaR (Fatebenefratelli Association for Research) since 1997. President of SINC between 2001 and 2003. Full Professor of Clinical Neurology at the Faculty of Medicine at the University of Campus Biomedico in Rome between 2000 and 2011, Member of the Superior Council of Health since 2003.

2001 – 2003 President of the Italian Society of Clinical Neurophysiology. Chairman of the European Chapter of the International Federation of Clinical Neurophysiology (E.C. – I.F.C.N.) since 2005. Expert of the EU research program. Scientific Director of Integrated Research Centre University Campus Bio-Medico of Rome between 2006 and 2011. Appointed full Professor of neurology at Catholic University of Rome since March 2011. Elected as IFCN President for the fiscal period 2010 – 2014.

Author of a large number published scientific works among which more than 400 listed in Pub Med with more than 1400 points of I.F. and more than 4.500 citations. *Ad Hoc* Reviewer for many journals. Project reviewer for Israel, German, Finnish, Austrian, Italian national research councils as well as for several international research foundations, including the Wellcome Trust and Telethon.

Present research fields include: brain plasticity in healthy adult brain and following brain lesions, TMS in cognitive sciences, neurophysiology of aging brain and of Dementias, integrated brain functional imaging.

Evelina Santa

Evelina Santa has started her professional career in the Austrian Research Promotion Agency FFG (formerly BIT), where she coordinated FP6 and national research programs with the Western Balkan Countries. In 2007, she moved to Madrid where she worked as European research policy officer at the European Office of the Spanish Ministry of Science and Education. Mid 2008, she was offered to build up and coordinate the new Brussels based European Office. She was responsible for advising the Director General of the Spanish Ministry of Science and Innovation in European research policy and she was part of the team for the preparation and implementation of the Spanish EU Council presidency. She was member of the Spanish delegation in the High Level Group on Joint Programming (GPC) and CREST/ERAC.

Since beginning 2011 she has started to work at the German Federal Ministry of Education and Research in Bonn, where she is policy officer in the unit for Global Change, being responsible for the JPI Climate and other European and international initiatives in the area of Climate Change research (e.g. ESFRI projects, Climate KIC, IPCC etc.). She was born in Vienna and was raised bilingual, German-Serbian, as her parents were immigrants from former Yugoslavia. She holds a Master degree in Neurobiology of the University of Vienna, and she completed four semesters in political sciences and a postgraduate course in Interdisciplinary Balkan Studies. She speaks six languages and currently lives in Bonn, Germany.

Hans-Günther Schwarz

Studied Physics in Munich and at Vienna Technical University; co-ordination of environmental technology research at the Austrian Federal Ministry of Transport, Innovation and Technology since 1993; development and implementation of the strategic technology programme “Factory of Tomorrow” under the Austrian Programme on Technologies for Sustainable Development since 1999; Austrian delegate to IEA-CERT since 2006; Seconded National Expert at the European Commission from 2008 to 2010; since 2010 strategic coordination of Austria’s participation in trans-national programme initiatives (SET-Plan Industrial Initiative SMART CITIES and JPI Urban Europe).

Carlos Segovia

Carlos Segovia is Deputy Director for International Research Programmes and Institutional Relations from the Instituto de Salud Carlos III – ISCIII (Institute of Health Carlos III), Spain. He is Spanish delegate to the Management Boards of the Joint Programming Initiatives *A Healthy Diet for a Healthy Life* and *Antimicrobial Resistance*. He also supervises the Spanish participation – through ISCIII – in health related European infrastructures under ESFRI as well as in several ERA-nets. He is coordinator of “*JPIs To Co-Work*“, an FP7 project aiming at improving the development of framework conditions of Joint Programming Initiatives. Carlos Segovia has experience in several European FP7 projects, and also in the community health programme 2008 – 2013 of DG SANCO. He has been structural trainee at DG Research and Innovation of the European Commission.

Carlos Segovia is a medical doctor, specialized in family medicine, with a master’s degree on public health from Harvard University. He has had extensive experience in primary care, as a practitioner and in management positions.

Mats Ulfendahl

Mats Ulfendahl received his PhD (physiology) in 1989 and was appointed professor in experimental audiology and otology at Karolinska Institutet (Stockholm, Sweden) in 2004. From 2002 to 2010 Mats Ulfendahl was director of the Center for Hearing and Communication Research at Karolinska Institutet. He has published more than 120 papers on inner ear and auditory function. In 2010 Mats Ulfendahl was appointed Secretary-General for Medicine and Health at the Swedish Research Council. He is chair of the management board of the Joint Programming Initiative on Antimicrobial Resistance and member of the management board of the Joint Programming on Neurodegenerative Disease Research.

Christian Wehrmann

Christian Wehrmann has long experience in market research, public relations and policy analysis in high tech sectors. He has worked as an information specialist for the biggest German public broadcasting station and KPMG Consulting Germany. He joined VDI/VDE-IT in 2005. He was project-coordinator for the FP6 project “HiGroSME“, which explores new support measures for European innovative and high-tech SMEs. He served as project assistant to the co-ordinator of the AAL 169 initiative, contributed to the study on “Best practices in Europe on ICT enabled independent living for elderly“ (DG INFOS) and was coordinator of the FP7 project AALIANCE – The European Ambient Assisted Living Innovation Alliance. Currently he is involved in the FP7 support action BRAID (Bridging Research in Ageing and ICT Development) and is a member of the secretariat of the Joint Programming Initiative “More Years, Better Lives – The Potential and Challenges of Demographic Change“ for the Federal Ministry of Education and Research.

Tim Willis

Tim Willis is Head of International Relations within the Biotechnology and Biological Sciences Research Council based in Swindon, UK. In this capacity he manages BBSRC participation in international funding and policy programmes in the EU and BBSRC bilateral relations with funding agencies and researchers in other countries. He is the managing partner of the UK Research Office in Brussels (UKRO) on behalf of the Research Councils. Tim has over 20 years' experience in the Research Councils with posts in information technology, industrial collaboration and secondments to UKRO and the UK Foresight Programme. His international activities focus on strategic relations within the EU and other priority partners including India, Africa, China, Japan, the US, New Zealand, Australia, Canada, Brazil and research for development. BBSRC and INRA are leading on developing an EU Joint Programming Initiative in Agriculture, Food Security and Climate Change.

Tim was born in Carrickfergus, Northern Ireland and educated at Belfast High School and the University of Ulster (BSc Hons Chemistry and Ecology, MPhil Mechanical Engineering). In his spare time, he serves on the Board of Trustees of Prospect Hospice in Swindon.

