



Patrick SCHOULLER DGE STSI

LES OPPORTUNITES EUROPEENNES EN MATIERE DE TIC LES ERA NETS



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AAL Ambient Assisted Living

Coordination: VDI/VDE-IT, Germany

Ambient Assisted Living aims at prolongating the time, people can live in a decent way in their own home by increasing their autonomy and self-confidence, the discharge of monotonously everyday activities, to monitor and care for the elderly or ill person, to enhance the security and to save resources.

This vision shall be realised via a new European technology funding programme AAL169 "bridging" technology programmes and markets in the field of information technologies as enabling technologies for the project's vision.

The joint programme aims at integrating existing national technology funding programmes, e.g..

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ALIPRO

Supporting the *AL*ignment of *IST* research *PRO*grammes on mobile communications in the new member states

Coordination: Foundation for Mobile Open Society through wireless Technology (MOST Foundation)

ALIPRO aims at supporting the alignment of the new member states' national and regional research programmes with European IST research in the area of mobile technologies, applications, and services.

The project will accelerate the improvement and alignment of mobility-related national and regional programmes in the new member states (NMS) and accession candidate countries (ACC). Another important goal is to involve mobile-technology experts from the NMS and ACC into the work of eMobility platform.

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MOST Foundation, Poland

Prof. Dr. Mieczysław Muraszekiewicz



AMI @Netfood

Development of Long-term shared vision on AMI Technologies for a Networked Agri-food sector

Coordination: INNOPOLE SL, Spain

The objective of AMI@netfood project is to support the implementation of the IST Research Priority and Framework Programme, providing a long-term vision on future trends on Scientific and Technology Research oriented to the development and application of Ambient Intelligence technologies to the agrifood domain. The project will be carried out developing an ERA Pilot joint collaboration platform resulting from a roadmap the area of Applications and services for collaborative working.

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ARTEMISOS

Advanced Research & Technology for Embedded Intelligence Systems Operational Support

Coordination: THALES, France

ARTEMISOS provides dedicated resources for the ARTEMIS platform to support implementing its mission. To elaborate the SRA, it hosts Working Groups and provides them support. It will interlink other research initiatives within the European research community, and contribute in international cooperation. ARTEMISOS involves SMEs and link with current ERA-Net initiatives. It gathers experts and new players in the domain. Its Communication will disseminate publicly through conferences, events, publications.

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BrainBridges

Project for Coordination of R&D on Next Generation Collaborative Working Environments

Coordination: CDT Centre of Distance-spanning Technologies, Sweden

BrainBridges objective is to develop a coordinated European research programme in the area of collaborative working environments and the supporting technologies. This is to be done by bringing together national research funding organisations, key research organisations and key industry to define and develop such a coordinated programme.

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CI2RCO

Critical Information Infrastructure Research Co-ordination

Coordination: FhG-SIT Fraunhofer Institute for Secure Information Technology, Germany

The main objective of the Critical Information Infrastructure Research Coordination (CI2RCO) project is to create and co-ordinate a European Taskforce to encourage a co-ordinated Europe-wide approach for research and development on Critical Information Infrastructure Protection (CIIP), and to establish a European Research Area (ERA) on CIIP as part of the larger IST Strategic Objective to integrate and strengthen the ERA on Dependability and Security

Contacts and Website:

<http://www.ci2rco.org>

Fraunhofer Institute for Secure Information Technology (FhG-SIT)

Department Secure Processes and Infrastructures (SPI)

Mr Uwe Bendisch

Schloss Birlinghoven



CISTRANA

Coordination of IST Research and National Activities

Coordination: DLR Deutsches Zentrum für Luft- und Raumfahrt e.V., Germany

The strategic aim of CISTRANA is to achieve coordination of national ICT programmes with each other and with European RTD programmes in order to improve the impact of all RTD efforts in Europe. The way for the implementation of transnational research activities is paved by the development of a map of the national research landscape in IST; the identification of key research topics where cooperation is essential; the establishment of methodologies and procedures to set up transnational coordination initiatives.

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COSINE

Co-ordinating Strategies for Embedded Systems in the European Research Area

Coordination: eutema Technology Management GmbH, Austria

COSINE aims to improve contacts of Embedded Systems programme managers and policy makers. It will analyse existing national activities with respect to target groups, participation, instruments and study barriers for trans-national co-operation. The project will also focus on future strategies for Embedded Systems RTD programme activities in Europe based on integrating existing background studies, fill in gaps in the existing material, and compare it to extra-EU activities. It will interlink national policy makers, programme managers, and European Commission and industry groups to jointly exploit the potential for synergies of Embedded Systems RTD policies in Europe.

COSINE aims at devising a medium-term plan for enhanced co-operation of national activities and supports the design of policies for Technology Platforms.

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eHealth ERA

Towards the Establishment of a European eHealth Research Area

Coordination: empirica - Gesellschaft für Kommunikations- und Technologieforschung mbH, Germany

Today, eHealth in Europe is characterised by an uneven European research landscape, unsatisfactory uptake of eHealth research and technology development (RTD), and limited coordination among Member States of both research and implementation in eHealth. A number of Member State governments have launched national initiatives for the large-scale introduction of eHealth infrastructures and key eHealth applications. Unless coordinated, this could actually hamper the free movement of citizens and patients across Europe due to non-interoperable systems.

The goal of this European Coordination Action project is to harmonise planning of national innovation-oriented eHealth RTD as the basis for a common roadmap.

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ERA-NET TRANSPORT

Transporting European Research into a new area

Coordination: TÜV-Akademie Rheinland GmbH, Germany

Efficient transport systems are central to Europe's single market. But most countries still view their transport networks - and transport research - from a national perspective. ERA-NET TRANSPORT will promote co-operation between national transport research programmes, leading to economies of scale and greater overall effectiveness. It will also help to inform transport policy at European level.

Coordinating activities include the production of procedural guidelines based on a thorough analysis of existing programme management and the experience of several bilateral initiatives, and the development of a shared research agenda. Joint activities - including projects, and ultimately entire research programmes - will mark the beginning of sustained coordination of national transport research at the European level.

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ERA-Pilot MiNaTSI

European Research Area Pilot Action on MicroNano Technology Systems Integration

Coordination: VDI/VDE Innovation + Technik GmbH, Germany

The Era Pilot MiNa TSI will network national and European entities supporting systems integration related to micro and nanotechnologies. The partners therefore are organisations and initiatives designing policies and/or running programmes in this sector including the EUREKA initiatives EURIMUS and PIDEA. The national ministries represent the member states' interests in the Board of the project. The European Commission as one of the main policy actors in this area will also be involved.

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ERA-Pilot QIST

Structuring the European Research Area within Quantum Information Science and Technology

Coordination: ARC Seibersdorf research GmbH, Austria

The Project "ERA-Pilot QIST" aims at structuring the rather young scientific area of "Quantum Information Science and Technology (QIST)" within Europe. Topics covered by these key words are for example quantum cryptography, quantum teleportation, quantum computer and their potential industrial applications. As results of the project a map of European activities and excellences will be developed as well as a guideline for strategic decisions and a common vision for the future of QIST in Europe.

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eTranet

ERA-NET on ICT for Traditional Manufacturing Industries

Coordination: Department of Trade and Industry, UK

The eTranet Coordination Action is aimed at improving the quality, quantity and impact of research and innovation in the domain of ICT in Traditional Manufacturing Industries. These industries account for a relatively high proportion of EU employment, GDP and exports but need to increase their research intensity in response to intense global competition. However, recent trends in the design of national research programmes has led to the (unintentional) exclusion of these industries because their capacity to participate in leading edge RTD is relatively weak. These common challenges for companies and public sector RTD programmes in Europe provides the basic rationale for improved coordination within the European Research Area.

Contacts and Website:

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GridCoord

ERA Pilot on a co-ordinated Europe-wide initiative in Grid Research

Coordination: Università di Pisa, Dipartimento di Informatica, Italy
Institut National de Recherche en Informatique et Automatique, France

Currently several Grid Research initiatives are on-going or planned at national and European Community level. These initiatives propose the development of a rich set of advanced technologies, methodologies and applications, however enhanced co-ordination amongst the funding bodies is required to achieve critical mass, avoid duplication and reduce fragmentation in order to solve the challenges ahead. The totality of these initiatives could provide the EU with the potential to play a world leadership role in Grid technologies and applications. National and EU collaborations have been established with other international players (in the US and Asia-Pacific) and with international standards organisations. However, if Europe wishes to compete with leading global players, it would be sensible to attempt to better coordinate its various, fragmented efforts towards achieving critical mass and the potential for a more visible impact at an international level. Achieving such a coordinated approach will require:

Contacts and Website:

<http://www.gridcoord.org/grid/portal>



ISHTAR

Industrial Stimuli for the Harmonisation of European Research in the area of Location Based Services

Coordination: Telekom, Austria

The main objectives/results of the ISHTAR project are:

To identify and report on knowledge and expertise gaps particularly in terms of technological interoperability in the field of LBS at European level

Contribution to the harmonisation of LBS standardisation efforts

To derive a pan-European map of expertise in the field of Location Based Services and relevant technologies

To propose a five-year R&D roadmap for future R&D activities in the field

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MNT ERA-Net

From Micro- and Nanoscale Science To New Technologies for Europe

Coordination: FFG Austrian Research Promotion Agency Ltd., Austria

The MNT ERA-NET will coordinate the currently fragmented research programmes and exchange good practice on aspects of programme design and management. The biggest impact is expected to come from promoting co-operation between national programmes. This could involve avoidance of duplicated effort and discouragement for spending on small programmes where co-operation at European level would be more cost-effective. The ERA-NET may have an additional role to play in the development of industrial standards for MNT - especially of the design of interfaces between micro-components.

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MONA

Merging Optics and Nanotechnologies

Coordination: CEA-LETI, France

MONA will contribute to the coordination of photonics and nanotechnology research.

The principal objectives are:

Create a common site for the exchange of information concerning research projects and networks in photonics and nanotechnologies

Promote the timely exchange of scientific results, market development, and technology needs through workshops

Develop a European roadmap for photonics and nanotechnologies

This will ensure the building of a strategic comprehensive approach for the key technologies in order to shape the future of this highly important area

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OPERA 2015

Optics and Photonics in the European Research Area

Coordination: VDI Technologiezentrum GmbH, Germany

The main objective of OPERA 2015 is to provide a Platform for adequate interaction of European IST-research in OP and to develop and implement a joint strategy for research and industry with the title "OPERA 2015" to shape the future of this highly important industrial area. OPERA 2015 will support the creation of the European Research Area through the stimulation of interaction of EU and national initiatives and projects. This will lead to improved transparency and cooperation of research activities and will deliver a clear view of the state and future directions of European research in OP. OPERA 2015 will furthermore foster the link between industry and research in order to strengthen Europe's competitiveness by identifying strategic opportunities for European industries and by compiling scenarios for the future development of photonics industries.

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SUGERT

Strategic User Group for European Research on TCAD

Coordination: Fraunhofer Institut für Integrierte Systeme und Bauelementetechnologie IISB, Germany

The overall aim of the SUGERT User Group is to define consolidated industrial specifications for research work required in the area of TCAD, to assess the state-of-the-art in the field, work out an overview of the relevant research groups and of public programs which may enable related research actions, and based on this to promote the optimum use of related expertise and resources available in Europe. Furthermore, the European input to the Modeling and Simulation part of the ITRS will be provided.

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SYMBI O matics

Synergies in Medical Informatics and Bioinformatics

Coordination: European Molecular Biology Laboratory, Germany

Bioinformatics and medical informatics are both rapidly advancing fields. Advances in molecular biology, the home of bioinformatics, demand that it reach out to the biology of cells, tissues, organs, organisms and populations. Within medicine, increasing understanding of the molecular basis of disease, and the effect of genotype on disease propensity and treatment efficacy, create a convergence between the disciplines. This project is an information gathering and dissemination activity which will stimulate these developments and exploit the synergy between bio- and medical informatics. A collaboration between national and international policy-making organisations will document the state-of-the-art in biomedical informatics and identify areas of maximum opportunity. This will be done by systematically identifying European experts (using the so-called "snowball" methodology) and collecting their insights. Initially this will be done through an open-ended consultation whose output will be used to create an internet survey from which results will be summarised and presented. Simultaneously, bibliometric and data-mining methods will identify and analyse the content of the relevant scientific literature.

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tOSSad

Towards Open Source Software Adoption and Dissemination

Coordination: TUBITAK / UEKAE, Turkey

Europe, as a whole, has a stake in improving the usage of F/OSS in all branches of IT and public life, in general. Although there is a strong Open Source Community in IT-strong countries of Europe, there is lot more to be done. F/OSS communities throughout Europe can achieve better results through co-ordination of their research activities/programmes that reflect the current state-of-the-art.

The main objective of the TOSSAD project is to start integrating and exploiting already formed methodologies, strategies, skills and technologies in F/OSS domain in order to help governmental bodies, educational institutions and SMEs to share research results, establish synergies, build partnerships and innovate in an enlarged Europe.

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Widgap

Roadmap for Wide Bandgap Semiconductors

Coordination: Fraunhofer Institut für Integrierte Systeme und Bauelementetechnologie IISB, Germany

Widgap aims to give industry, research and policymakers in the EU the tools (database, roadmap, benchmark) needed for planning a common European strategy in wide bandgap (WBG) semiconductors. WBG semiconductors can dramatically improve the energy consumption and hardware reliability of most electronic and electric devices. Their applications include high temperature electronics, high frequency components, solid state lighting, high power components.

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<http://www.widgap.org/> (under construction)

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