

# NETS TECHNOLOGY PROGRAMME FINLAND

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## EU Cluster Day International Workshop on Wireless Ad-hoc Networks

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# DG INFSO F4 New Working Environments Mission Statement and Objectives

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Focus on research in following areas:

- E-professions and individually driven working
- New workplace designs
- Knowledge management in media-rich working environments including mobility and multimodality

- Collaborative work and organisations
- Ambient organisations and new organisation of work
- Sustainable development and corporate social responsibility
- New economic, legal and social perspectives for work in the knowledge-based economy

# Lisbon Strategy / Goals

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- European wireless and mobile sector has to contribute to the Lisbon goal “to become the most competitive and dynamic knowledge-based economy in the world – capable to sustainable economic growth with better jobs and greater social cohesion” by 2010
- Innovation and technology has to drive growth, transforming the European Union into a dynamic knowledge-based economy

# The Global Economic and Research Context

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- Globalisation leads to co-operation which triggers a new division of work
- Important to invest significantly in more research and development in order to sustain the increased global competition
- The global context and research goals require increased effort in Europe to strengthen the European economy

# Strengthening the Link Between Research and Impact on the European Economy

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- Realise a “European Research Area”
- Raise research effort to 3% of Union GDP by 2010 (1% public / 2% private sector)
- Strengthening the innovation activities
- Generate more growth and increase the number of competitive jobs

# Competitiveness, Research, Innovation and Entrepreneurial Culture

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- Competitiveness is largely determined by productivity growth
- Innovation is recognised as a key to competitiveness
- Business needs to respond to the urgent challenge of raising productivity
- To improve productivity implies application of ICT, re-engineering organisations and developing new skills and business models

# IST Research Clustering / Triggering Wider Economic Impact

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- Pro-active clustering of research projects in a more coherent way can play an important role in supporting the key policy objectives
- Facilitating synergy, sharing a vision of exploitation, validating innovation, driving business toward delivering useful services and products in new working environments

# Future Research and Development Perspectives / Orientation

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- Wireless capabilities will become available to most individual products and personal communications between devices will be greatly expanded as new wireless networks will be deployed
- Important to leverage the benefits of wireless technologies, breaking the barriers of location
- Users have to be able to access a whole range of extensive wireless services
- Users must be optimally connected anywhere and anytime by seamless interworking of heterogeneous access systems

# Ambient Intelligence Vision

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- User acceptance is driving the adoption of new services
- Services and architectures have to be extended to cover proximity, peer-to-peer networks and the use of grid technologies
- Content and context sensitivity is driving the mobile usage
- Peer-to-peer communities empowering users for seamless creation of adhoc or permanent communities collaborating on common topics or mutual interest

# Requirements for Envisaged Technological Frameworks

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- Open service architectures to allow for a wide community of service developers to produce cost effective services for rapid market take-up
- Interoperability for network technologies and contact platforms enabling seamless access to mobile context and services
- Security issues have to be covered along the whole service delivery chain to enable trusted environments to emerge

- Targeted technological frameworks to enable new successful business models to be launched

Wireless networking will fundamentally change our way of life and working and calls for a multidisciplinary approach to enable innovation

# FP7 European Research Area: Shaping and Realisation

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## ➤ Objectives:

- Creation of the European Research Area
- Achievement of the 3% objective
- Increasing support to scientific research

## ➤ Instruments:

- Science foundation, individual grants
- Large-scale research facilities (e.g. CERN)
- Technology platforms
- Collaborative research (current instruments)
- ERA (European Research Area)

- ➔ How to balance between basic and applied research?
- ➔ Systematic approach to the innovation process?
- ➔ Implications of new financial framework 2007-2013?

# For Further Information

## General FP6:

[http://europa.eu.int/comm/research/fp6/index\\_en.html](http://europa.eu.int/comm/research/fp6/index_en.html)

<http://www.cordis.lu/rtd2002>

## IST:

<http://www.cordis.lu/ist>

<http://www.cordis.lu/ist/fp6/fp6.htm>

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