

ICT in Framework Programme 7

Challenge 7 – ICT for independent living and inclusion

Objective ICT-2007.7.1 ICT and ageing

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What do we mean by e-Inclusion?

- Using ICT to overcome exclusion
- Ensuring ICT is not a factor of exclusion
(ICT = information and communication technology)
- Several EXCLUSION FACTORS
 - Age
 - Competences - skills, knowledge, attitude
 - Geographic location (e.g. urban / rural)
 - Culture, income, other socio-economic factors
 - Disability
 - Gender
 - ...
 - Accessibility of ICT / e-Accessibility

EU eInclusion policy in practice

Overview of instruments

Orientations & support

- Documents, e.g. COMs
- Events
- Benchmarking...

Regulation

- e-communications
- e-terminals
- Procurement
- TV without frontiers...

Cooperation

- i2010 group (MS)
- Legal committees (MS)
- Industry & users dialogue

R&D

- FP6,
FP7

Deployment

- eTEN
- CIP
- Structural funds

Technology context

Where do we come from?



Evolution of Research

	<u>TIDE</u> <u>1991-1994</u>	>	<u>TAP</u> <u>1994-1998</u>	>	<u>IST</u> <u>1998-2002</u>	>	<u>FP6</u> <u>2002-2006</u>
Paradigm	<i>Rehabilitation</i>		<i>Multimedia telematics</i>		<i>Ambient Intelligence</i>		<i>eInclusion</i>
Priorities	<i>Innovation and Demonstration</i>		<i>New applications</i>		<i>System integration</i>		<i>Barrier-free design Empowering technologies</i>
Technological emphasis	<i>Exploratory</i>		<i>Technology Transfer</i>		<i>Ubiquitous computing</i>		<i>Mainstream technologies</i>
Target groups	<i>D & E</i>		<i>D & E careers</i>		<i>D & E professionals</i>		<i>Groups at risk of exclusion</i>
Results	<i>Tech innovation</i>		<i>Telematics Demonstrations</i>		<i>Socio-economic benefit</i>		<i>Policy impact</i>

e-Inclusion in FP7

- Mainstreaming
- Shaping future technology based on deep understanding of **ALL** users needs
- User driven innovation

Challenge 7: ICT for Independent Living and Inclusion

Integration & Empowerment of Individuals

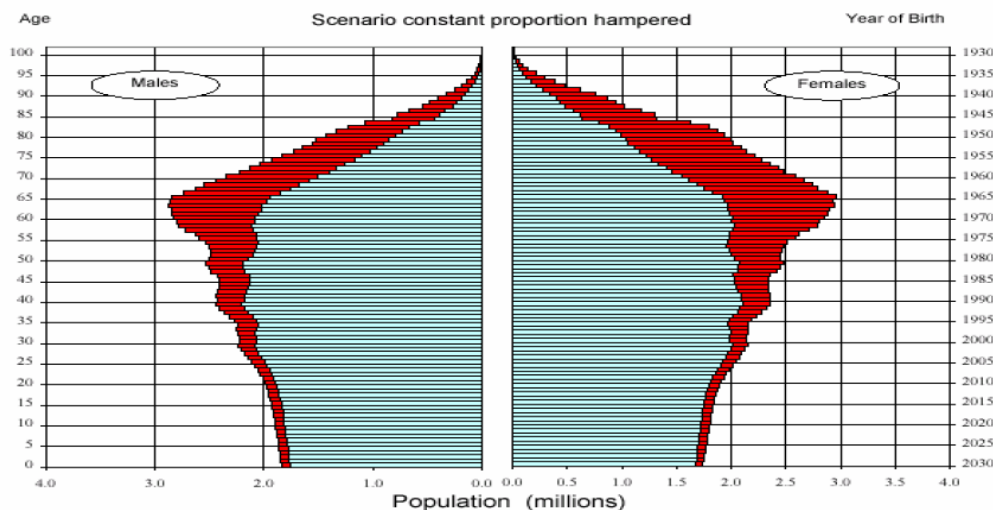
- 30% non-users
- Aging Population
- Complex, inaccessible ICT



Participation for All

- New Markets
 - global leadership
- Better Accessibility
 - better for all

European Union, 2030, Total and Hampered Population



Challenge 7: ICT for Independent Living and Inclusion

Industrial Relevance

- ICT has major catalytic role on Inclusion
- Major global market opportunity 20B€+/year
- Europe well placed to respond

- Demographic Ageing
- i2010 flagship on ICT and Ageing
- E-Inclusion Policy
- Riga Ministerial Declaration, 2006
- eAccessibility Communication

Policy Relevance

Key Areas

- Independent Living
- Active Ageing
- Mainstream Accessibility & usability
- Next Generations of Assistive Technologies
- Role of ICT for an e-Inclusive society

- Prolonged independent living
- Increased active participation
- Reduction in the 30% of non-users
- Global Leadership in Ageing market

Impacts

European Commission
Information Society and Media

Challenge 7: ICT for Independent Living and Inclusion

Two objectives

- ICT and Ageing (3.7.1.1)
 - Complemented by Art. 169 initiative (AAL169)
- Accessible and Inclusive ICT (3.7.2.1)

Links to other challenges:

- 1: Pervasive networks
- 2: Robotics
- 3: Embedded systems
- 5: Personal Health Systems
- 6: Transport

Key Area

Integration of **advanced ICT prototype** solutions for Independence at home, on the move or at work.



Global Industrial and academic leadership in ICT and Ageing
Providing basis for future solutions with highly increased efficiency and user acceptance

Key Area

Open Systems **Reference Architectures, standards and Platforms** for Independent Living and Active ageing



Enabling cost-effective, multi-vendor solutions
Enabling seamless and reliable integration of devices and services

Support Measures

RTD roadmaps, socio-economic research,
Standards setting, international cooperation (US, Japan)



A long term RTD agenda for ICT and Ageing, positioning European efforts in the global market, including standards, soc-econ.

ICT for ageing – Funding Schemes and Budgets

Target	Indicative Budget	Funding Scheme
<ul style="list-style-type: none"> Prototypes for independent living/active ageing 	} 27 M€	CP
<ul style="list-style-type: none"> Open Systems, Ref. Architectures, Home Platforms 		CP: IP Only
<ul style="list-style-type: none"> RTD roadmaps, Soc. Econ research 	} 3 M€	CSA
<ul style="list-style-type: none"> Standards setting, Int. cooperation with US, Japan 		CSA

Target Users

- People with prevailing Age-related impairments
 - @ Home
 - on the Move
 - @ Work
- Their relatives and carers
- Involved during the whole R&D process

Objectives

- Achieve breakthroughs in new systems that could significantly
 - Prolong personal autonomy
(in the home, at work, on the move)
 - Prolong active participation in Society
 - Further integration of care and rehabilitation processes

Across prevailing age-related impairments

Key research issues

- Increase system efficiency and user acceptance by
 - Radically new paradigms, Increasing system intelligence
 - Making technology invisible & adaptive to user needs, behaviour and emotional states
 - Sharing contextual information between a number of artefacts and services
 - Providing systems bridging mobile and stationary environments
 - Providing appropriate privacy and ethical safeguards

Target outcomes

- Scientific break-throughs enabling
 - new systemic solutions for independent living and active ageing
 - through a set of advanced working prototypes
- Step change increase for academic and industrial knowledge base in the field

Essential Elements

- Breakthroughs beyond state of the art
- Multi-disciplinary RTD
- Test environments with early user involvement
- Industrial participation encouraged
- STREPs, Integrated Projects

Relationship to AAL169

- AAL169 Objectives
 - To establish a new joint European applied RTD funding programme for independent living
 - AAL169 "bridging" technology programmes and markets
 - Combining national efforts with support from FP7 through use of Art. 169 of the EU Treaty
- Characteristics
 - Smaller applied research/innovation projects
 - 1-2 focused calls/year from 2008-2013
 - ~50 M Euro funding/year
 - Important criteria:
 - Problem/market orientation, strong user involvement, SME participation, Innovation ...

Related FP6 IST projects

- **18 projects** (4 Integrated Projects, 14 STREPS)
- Coverage
 - Services (health & social)
MonAmi (IP), Soprano (IP), Inhome, Oldes, Vital
 - Daily living (environmental control, personal support)
Aladin, CogKnow, Easy Line+, ElderGames, Hah, I2home
 - Smart environments (home systems, sensors, data mining)
NETCARITY (IP), Caalyx, Emerge, Sensaction_AAL
 - Mobility
Share-it
 - Open platforms and services
Persona (IP), Mpower

Further Information

- Web Resources

- http://cordis.europa.eu/fp7/ict/programme/challenge7_en.html
- http://europa.eu.int/information_society/eeurope/i2010/inclusion/

- Key Contacts

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- General Contacts

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