European Innovation Agenda

ICT & Ageing

Healthy Aging
Tokyo, 9 October 2012

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European Commission / Tokyo Delegation
DG CONNECT H2

FP7 structure (2007-13):
EU’s main instrument for funding research

Horizon 2020
2014-2020
Research co-operation possibilities:

- [http://ec.europa.eu/research/participants/portal/page/cooperation&state=open](http://ec.europa.eu/research/participants/portal/page/cooperation&state=open)
- Google FP7...
- Conditions of cooperation in European consortia:
  - Get in contact with a European group
  - Bring the funds for your own group and
  - Some workpackages you would like to contribute

Demographic Ageing – From Challenge to Opportunity

**Social Necessity**

- Dependency Ratio
  - From 1:4 to 1:2
  - 80+ doubles by 2025

- Cost of Care
  - Up by 4-8% of GDP by 2025

- Human Resources
  - Shrinking workforce
  - Lacking 20 million carers by 2020

**Major Opportunity**

- Empowerment
  - Active Ageing

- New Care Models
  - Integrated care
  - Large Efficiency gains

- Growth and Markets
  - 3000 billion wealth
  - 850 million consumers and growing
ICT in support of older people...

At Work
- Staying active and productive for longer
- Better quality of work and work-life balance

In the Community
- Overcoming isolation & loneliness
- Keeping up social networks
- Accessing public services

At Home
- Better quality of life for longer
- Independence, autonomy and dignity

Limiting Factors
- Small scale/fragmented evidence of impact and cost-benefits
- Lacking policy support to care innovation, Organisational silos
- ICT skills, usability of ICT
- Business models unclear and not scalable
- Access to financing and investments
- Fragmented legal and regulatory regimes
- Fragmented markets
- Lacking interoperability, standards
Active and Healthy Ageing Partnership

New Knowledge
- JPIs
- More Years Better Lives

New solutions
- FP7 Health
- FP7 eHealth
- FP7 ICT & Ageing well
- AAL JP
- CIP ICT & Ageing well

Evidence and innovation guidelines
- Public Health Programme
- Structural Funds
- EIB
- ESF

Deployment support

Research Innovation Deployment

European Innovation Partnership on Active & Healthy Ageing

Bringing together interested parties from public and private sectors to deliver innovative solutions for an ageing society
Challenge: To tackle the barriers

- 500 people replied to the online Public Consultation on the EIP on AHA launched by the Commission at the end of 2010/ beginning 2011

EIP on Active and Healthy Ageing

TARGET: enable citizens to live longer independently in good health (increasing HLYs by 2 by 2020, QoL, Efficiency gains)

MAIN AREAS:
- Addressing major age-prevalent chronic diseases
- Innovation in prevention, integrated care delivery systems
- Innovation in Active and independent living

APPROACH:
- High-level political commitment, addressing barriers
- Combining demand and supply sides of innovation
- Optimising existing instruments and new ones where necessary: no new funding
- Ownership by key stakeholders willing to invest
- Large-scale deployment
- Awareness and best-practice sharing across Europe

ec.europa.eu/active-healthy-ageing
**Added Value:** Building synergies

Facilitating scaling up & multiplying

Joining up resources & expertise

Bridging gaps & speeding up innovation process

Improving framework conditions

**Target:** +2 healthy life years by 2020

A triple win for Europe

- **Improving** health & quality of life of European citizens, incl. older people
- **Supporting** long-term sustainability & efficiency of Europe’s health and social care systems
- **Fostering** competitiveness & markets for innovative products & services = growth and jobs
Developing the Strategic Implementation Plan

- Identifying key areas with high innovation potential
  - Relevance to target (HLY, QoL, Efficiency Gains, growth)
  - Barriers

- Defining Actions to overcome barriers
  - Governed by Steering Board

- Stakeholders/investors main actors
  - Demand side: Users, NGOs, public authorities, insurance etc.
  - Supply Side: Industry, Service providers, Research etc.

- Major inputs
  - Public consultation
  - Working groups in key areas with Stakeholders
Strategic Implementation Plan
First 6 specific innovation actions

• Prescriptions and improving adherence at regional level
• Personal management of health, starting with initiative on prevention of falls
• Prevention of functional decline & frailty, malnutrition
• Replicating and tutoring integrated care for chronic diseases, including remote monitoring, at regional level
• Development of interoperable independent living solutions, including guidelines for business models
• Promoting innovation for age-friendly and accessible buildings, cities and environments

Activities: Specific Action – B3
Integrated care models for chronic conditions

AIM
• Communication & integration between different health & social care providers
• Reduction of avoidable & unnecessary hospitalisation of older patients
• Improved performance of care systems serving older people

HOW
• Scalable, reproducible organisational models for integrated care
• Trainings/coaching of end-users
• Evaluation mechanisms for assessment of good operational practices in integrated care models
• Networks of stakeholders

DELIVERABLES
• Programmes for chronic conditions in >50 regions, available to >10% of target population
• Replication/scale-up of proven & effective integrated care models in at least 20 regions in 15 MSs
Launching Actions

- Working groups on key actions
- Demand/supply stakeholders willing to commit
- Aggregating existing innovation to large scale
  - From pilot to mainstream implementation
- Defining Actions to overcome barriers
  - New policy actions, organisational structures ….
- Identifying EU/national/regional funding sources
  - R&D, Innovation
  - Structural funds, EIB
  - Public/private investments
- Operational plan, targets and governance

Monitoring and Evaluation:

- The Commission is developing a monitoring and assessment framework
- The assessment framework will facilitate:
  - The establishment of causal links
  - The measurement of socio-economic impacts between:

  - Individual Actions of the Stakeholders
  - Specific Actions of the Plan
  - Partnership’s main objectives (triple win)
  - Partnership’s key objectives

- A first version of the monitoring and assessment framework will be in place by early 2013
**Activities: Invitation for Commitments**

261 commitments were submitted.

Meetings were held in June/July in Brussels, in which stakeholders started to define the implementation details of the specific actions. They have formed action groups for each specific action, which are tasked with agreeing action plans to be presented at the Conference of Partners to be held on 6 November.
Everybody can engage

- **Action Group**
  Active partners submitted a commitment to work together towards one of the Specific Actions of the Partnership

- **Reference Sites**
  Regions or other geographical areas where the actions covered by the EIP are in place and could coach and show best practices to others

- **Marketplace for innovative ideas**
  Online Community Platform - open for everybody

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**Milestones**

<table>
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<th>2012</th>
<th>2013</th>
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<td>31 May</td>
<td>Conference of Partners 2012</td>
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<tr>
<td>Action Groups</td>
<td>Outcome indicators – 1st results</td>
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<tr>
<td>October</td>
<td>Reference Sites selected</td>
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<tr>
<td>26 Oct</td>
<td>Reference Sites  validation</td>
</tr>
<tr>
<td>6 Nov</td>
<td>Conference of Partners 2013</td>
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<tr>
<td>March</td>
<td>Reference Sites self-assessment template draft</td>
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<tr>
<td>June</td>
<td>Process indicators – 1st results</td>
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<tr>
<td>November</td>
<td>Reference Sites application - end</td>
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- Reference Sites
- EIP overall assessment
- New AGs, if any
EU R&D Support

Framework Programme 7 ICT Research

ICT & Ageing
- Advanced Prototypes for independent living/active ageing
- Service and social robotics
- Falls and mobility
- Smart environments for early intervention
- Open Systems, Reference Architectures, Platforms
- Support: roadmaps, ethics, standards, International cooperation

Currently >40 projects, 125 M€ funding

EC ICT & Ageing R&D

Open Platforms and Tools
- UNIVERS AAL
- OASIS
- PERSONA
- MONAMI
- MPOWER
- I2HOME
- SOPRANO

Advanced Prototypes
- WISSEL
- CONFIDENCE
- FARSEEN
- SMILING
- Stopsfalls
- DALL
- VITAL
- CONFIDENCE
- EASYLINE
- Stopfalls
- ENABLE
- EASYLINE
- STOPFALLS
- SOFIA
- CDS
- ELDER GAMES
- MOPIS
- CONNAB
- DIADEM
- PACE
- COMPANABLE
- MOBISERV
- ACCOMPANY

ADL Support
- VITAL
- SENSE ACTION
- USEFUL
- FLORENCE
- SILVER

Mobility/ Falls
- UNIVERS AAL
- OASIS
- PERSONA
- MONAMI
- MPOWER
- I2HOME
- SOPRANO

Cognitive Support
- WISSEL
- CONFIDENCE
- FARSEEN
- SMILING
- Stopsfalls
- DALL
- VITAL
- CONFIDENCE
- EASYLINE
- Stopfalls
- ENABLE
- EASYLINE
- STOPFALLS
- SOFIA
- CDS
- ELDER GAMES
- MOPIS
- CONNAB
- DIADEM
- PACE
- COMPANABLE
- MOBISERV
- ACCOMPANY

Roadmaps and Tools
- SENIOR AALIANCE
- EPAL
- CAPSIS
- BRAD

Service & Social Robotics

Supporting Measures
- SENIOR AALIANCE
- EPAL
- CAPSIS
- BRAD

Ethics
AAL Joint Programme

Joint Programme between EU and Member States on market-oriented ICT research in Assisted Living technologies and services

- Applied R&D
- 2-3 years to market
- Total budget +600 M€

5 calls, 100+ projects

AAL JP Focus Areas

Ambient Assisted Living

Surrounding

Person@Home

- Health & Wellness
- Mobility
- Social Interaction
- Working Life
- Information & Learning

- Home Care
- Supply with Goods & Chores
- Safety, Security & Privacy

Well being Person

Hobbies
Call 1: Chronic Conditions

Call 2: Social Interaction

Call 3: Self-Serve Society

Call 4: Mobility

Call 5: “Home Care”

EU Innovation Support

ICT Policy Support Programme
Large deployment pilots /TN

- Assisted living using existing technology
- Focus on evidence, organisation change, guidelines, business models
- Building on Regional activities

14 pilots
+50 Regions
> 12.000 users

- Multiple Chronic diseases
- Cognitive impairment
- Integrated Care
- Fall prevention and detection
- ICT Skills carers

(Call 1-5), 15 M€ in 2007
10 M€ in 2008
7 M€ in 2009
7 M€ in 2010
12 M€ in 2011

Call 6
18 M€
6 projects currently in negotiations (EIP AHA support)
International cooperation roadmap

- **Research**
  - Research cooperation generating new knowledge
  - Sharing of large data sets on ageing for research
  - Cooperation on interoperable open platforms for delivery of services related to an ageing population
  - Research Roadmaps

- **Innovation**
  - Sharing strategic plans and priority settings
  - Addressing international market barriers
  - Development of realistic indicators and measurement methodologies
  - Sharing of socio-economic evidence and good policy practices
Further Information

EU ICT and Ageing Well Initiatives
http://ec.europa.eu/einclusion

ICT Policy Support Programme

Ambient Assisted Living Joint Programme
http://www.aal-europe.eu/

JPI - More Years – Better Lives
http://www.jp-demographic.eu

Active and Healthy Ageing Partnership
http://ec.europa.eu/active-healthy-ageing

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