

ICT for Inclusion European Commission DG Information Society & Media

Accessible ICT and ICT for Accessibility



Europe 2020: seven flagships

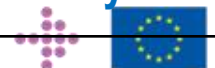
Addressing: **crisis, low growth, unemployment, ageing, globalisation, finance, climate & resources**

HEADLINE TARGETS

- Employment rate from 69% to 75%
- greenhouse gas emissions by 20% (vs1990),
- renewable energy to 20%, 20% ➤ in energy efficiency.
- early school leavers to 10% (from 15%), ➤ population 30-34 with tertiary educ. from 31% to 40%.
- living below poverty by 25%, 20 million people out of poverty.

7 EU Flagship Initiatives

SMART GROWTH	SUSTAINABLE GROWTH	INCLUSIVE GROWTH
<i>INNOVATION</i> "Innovation Union"	<i>CLIMATE, ENERGY AND MOBILITY</i> "Resource efficient Europe"	<i>EMPLOYMENT AND SKILLS</i> "An agenda for new skills and jobs"
<i>EDUCATION</i> "Youth on the move"	<i>COMPETITIVENESS</i> "An industrial policy for the globalisation era"	<i>FIGHTING POVERTY</i> "European platform against poverty"
<i>DIGITAL SOCIETY</i> "A digital agenda for Europe"		



The diagram is a circular flow chart with a light green outer ring and a light orange inner circle. The outer ring contains three labels with arrows indicating a clockwise cycle: 'Creation of Content & Borderless Services' (top, green arrow), 'Increase of Service Demand' (bottom right, blue arrow), and 'Roll-out Of Networks' (bottom left, red arrow). The inner circle contains six labels with arrows indicating a clockwise cycle: 'Lack of investment in networks' (top), 'Lack of interoperability' (top right), 'Lack of skills' (right), 'Fragmented answers to societal challenges' (bottom), 'Insufficient R&D' (bottom left), and 'Rising cybercrime and low trust' (left).

➔ Digital Agenda

- [illegible]

e-Accessibility – Background

e-Accessibility: ensuring that people with disabilities and the elderly access and use ICTs on an equal basis with others; design, production and installation of ICTs adjusted to specific needs.

DG INFSO Contribution:

- Commission's Communication "**Towards an accessible information society**", 2008 (suggestions for improving Web accessibility)
- **Digital Agenda for Europe:** Promote take-up of digital technologies by potentially disadvantaged groups, such as elderly, less-literate, low-income persons; Improving access for people with a disabilities
- **ICT Policy Support Programme** - stimulate competitiveness and innovation while encouraging greater uptake of ICT across society
- **Framework Programmes** for supporting R&D on e-Accessibility, including Assistive Technology and Design for All since > 15 years
- Monitoring progress via **Studies, Consultations, Surveys**



Digital Agenda for Europe (DAE) and e-Inclusion

- Make sure that public sector **websites** are fully accessible by 2015
(and websites providing basic services to citizens)
- Memorandum of Understanding on Digital Access for PwD
(cross-border circulation of **accessible books** for people with print disabilities)
- Systematically evaluate accessibility in all revisions of legislation
- Implement provisions on disability in **Telecoms Framework and AVMS**
- Reinforce the Ambient Assisted Living (AAL) Joint Programme
- **Digital literacy** and competences / skills
- Young women and women returners in ICT
- An online consumer education tool on new media technologies



European legislative and standardisation efforts relevant to e-accessibility

Growth & Employment

Social Cohesion & Quality of Life

Accessible information society

anti-discrimination / Disability AP
Equality Directives

Public procurement
(ICT: m376
Built Env.: m420)

Data protection

VAT

Standards

Copyrights

State aids

UN Convention on Disability

Design for All
(mandate 473)

Transport
(m371)

European Accessibility Act

ICT + Transport + Built Env.

Web
accessibility
guidance

national social & health
regulations

medical devices

AVMS

RTT&E

eCommunications
Framework revision

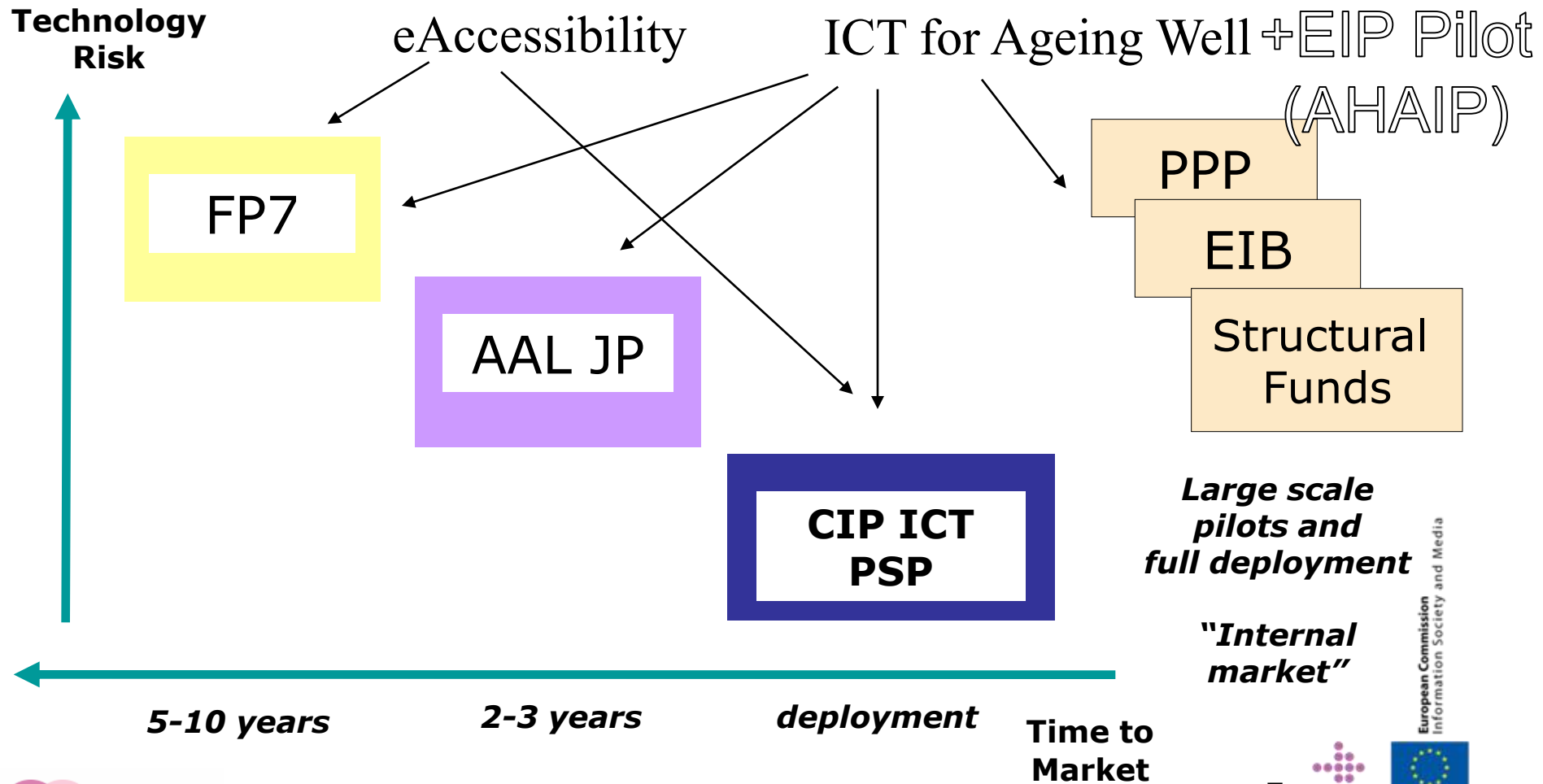
employment
equality

Structural
Funds Art 16



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Research & Innovation Comprehensive EU Approach



Research (7th Framework Programme) and Ambient Assisted Living (AAL) programmes

Ongoing: FP6 + FP7 + AAL

- Smart navigation
- Robotic manipulators
- Brain-neural computer interfacing
- Hearing aids
- Wheelchairs
- Audio-description
- Software for dyslexia
- Embedded accessibility and User simulation
- Smart homes, monitoring
- Cognitive support
- Robotics for elderly
- Cooperation networks & Research Roadmaps

to come

- AAL current and next calls
- FP7 WP2013
- FP8

To be negotiated: a cooperation framework at European or international level for promoting the development of accessibility guidance for advanced technologies, services and contents (including evaluation methodologies), with special focus on the internet, and for setting research agendas on e-accessibility



Competitiveness and Innovation Framework Programme (CIP 2007-2013) → ICT Policy Support Programme

From calls 1-4

- Deployment pilots in
 - accessible DTV
 - Emergency calls (112)
 - Independent living of elderly
 - accessible public digital terminals, e.g. ATMs
- Thematic networks

- Support to accessibility policy (Web accessibility, AV:DTV+TC, accessible public digital terminals)
- Assistive technologies portal

to come

- CIP current call:
 - **Web accessibility pilot**
 - Ageing (fall prevention)
 - Digital competencies for carers
- CIP next calls
- CIP 2



eAccess+

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Monitoring, analysis, good practice

- Ongoing study on monitoring e-accessibility:
<http://www.eaccessibility-monitoring.eu>
- Ongoing study on market analysis and legislative aspects of assistive technology (education & training, work-place, independent living)
- Ongoing study on costs & benefits of e-accessibility
- Ongoing study on future ICT trends on e-accessibility and assistive technologies

