



Information and Communication

Technologies

FP7 – ICT

Horizon2020

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2013 ICT WP Challenges

Green Cars PPP
&
Smart cities co-ordinated call

Factories of the Future PPP

Socio-economic challenges

	143 M€, 10%	173 M€, 12%	70 M€, 5%	68 M€, 4%
	5. ICT for health, ageing, inclusion, governance	6. ICT for a low-carbon	7. ICT for enterprise and manufacturing	8. Digital libraries & learning
Industry/Technology needs	1. Pervasive and Trusted Network and Service Infrastructures			
	345 M€, 23% Future Internet PPP			
	2. Cognitive systems and robotics			
	90 M€, 6%			
	3. Alternative Paths to Components and Systems			
230 M€, 16%				
JTIs (ARTEMIS, ENIAC)				
4. Content & media technologies				
78 M€, 5%				

Future and Emerging Technologies (FET)

Next Calls for proposals

Call Title	Opening	Closing
FI PPP	16 May 2013 End of June 2013	10 December 2013

Digital Preservation in FP7

Digital Preservation research is concerned with the **sustainability of digital resources**, i.e. their accessibility, integrity and usability over time.

- **Digital artifacts are today a prominent part of archival collections ...**
 - *growing quantity of digital resources in general*
 - *more and more inherently digital objects*
- **... but they are extremely vulnerable and at high risk of getting lost or becoming unusable**
 - *changes of hardware and software*
 - *degradation of storage media*
 - *errors and technical failors in archiving systems*

Aspects of a complex problem

- **Technical**

- *obsolete media and formats: migration, emulation*
- *guaranteeing integrity and functionality over time: quality control & repair*

- **Organisational**

- *Who does what and when? (preservation planning, workflows...)*
- *Curation staff needs new skills*

- **Financial**

- *costs of preservation*
- *financial impacts of loss*

- **Legal**

- *legal obligation to preserve*
- *restrictions through copyright and DRM protection*

- **No definitive solution**

- *preservation requires ongoing efforts*
- *must be proactive (preventing loss before it occurs)*

What is needed

Organisations with a societal mandate, legal obligations or business interests in long-term usability of digital holdings need

- ready-to-use, customisable and affordable technical solutions*
- new knowledge and skills in curatorial staff*
- a legal framework that allows preservation actions (copying, migrating...)*

Digital Preservation in FP7 Calls, Objectives, Budget

Work Programme 2013

- 5 M€ (ICT Call 11) More efficient and affordable solutions for digital preservation developed and validated against public sector needs through joint Pre-Commercial Procurement (PCP)
- 42 M€ (ICT Call 10) Technologies & scientific foundations in the field of creativity

ICT Work Programme 2011-2012

- 30 M€ (ICT Call 9) Digital Preservation
- 40 M€ (ICT Call 9) ICT for access to cultural resources

Work Programme 2009-2010

- 69 M€ (ICT Call 6) Digital Libraries and Digital Preservation

Work programme 2007-2008

- 50 M€ (ICT Call 3) Digital libraries and technology-enhanced learning
- 52 M€ (ICT Call 1)

Objective ICT-2013.11.2

More efficient and affordable solutions for digital preservation developed and validated against public sector needs through joint Pre-Commercial Procurement (PCP)

Project type: CP-CSA for PCP

Budget: 5 M€

Call: ICT Call 11, 18 Sept. 2012 – 16 April 2013

Work Programme 2013

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Work Programme 2009-2010

- 69 M€ (ICT Call 6) Digital Libraries and Digital Preservation

Work programme 2007-2008

- 50 M€ (ICT Call 3) Digital libraries (23.5 M€) and technology-enhanced learning
- 52 M€ (ICT Call 1) Digital libraries (27.6 M€) and technology-enhanced learning

Project Portfolio

- Computational creativity
- Digital cultural experiences and Virtual heritage
- Digital preservation
- Digitisation technologies
- Platforms
- Support activities

Digital Preservation in FP7

Examples – Call 9

meSch - Material Encounters with Digital Cultural Heritage

The project has the goal of designing, developing and deploying tools for the creation of tangible interactive experiences that will connect the physical experience of museums and exhibitions with relevant digital cross-media information in novel ways. meSch will bridge the gap between on-site and on-line cultural heritage experiences by providing a platform for the creation of tangible smart exhibits, that will enable heritage professionals to compose and realise physical artifacts enriched by digital content without the need for specialised technical knowledge. The platform will include an authoring toolkit for the composition of physical/digital narratives to be mapped to interactive artefacts, and an embedded multi-sensor digital system platform for the construction of ad-hoc physical smart exhibits.

[Fact sheet](#) - Project website

Digital Preservation in FP7

Examples – Call 9

INSIDDE - INtegration of cost-effective Solutions for Imaging, Detection, and Digitisation of hidden Elements in paintings.

It aims to provide an innovative solution for capturing, imaging, and digitising unknown details of paintings and 3D artworks by means of terahertz technology in a unique approach, with the purpose of going beyond our present knowledge and adding value to the cultural content.

The resulting enriched images and 3D models will be exploited in two manners: integrating them into the professional knowledge-sharing platform Europeana and developing an innovative smartphone application based on Augmented Reality.

[Fact sheet](#) - [Project website](#)

tranScriptorium

The tranScriptorium project aims to develop innovative, efficient and cost-effective solutions for the indexing, search and full transcription of historical handwritten document images, using modern, holistic Handwritten Text Recognition (HTR) technology.

HTR tools based on tranScriptorium techniques will be incorporated into HTR web platforms that will be accessible to users through two different means: i) a content provider portal that provides access to handwritten historical documents for casual, individual researchers; and b) a specialized HTR web portal for structured crowd-sourcing transcription projects.

[Fact sheet](#) - [Project website](#)

Rovina - Robots for Exploration, Digital Preservation and Visualization of Archeological Sites

Mapping and digitising archeological sites is an important task to preserve cultural heritage and to make it accessible to the public.

It will develop methods for building precise, textured 3D models of large sites including annotations and semantic information. ROVINA will furthermore develop advanced techniques for the safe navigation in cultural heritage sites that are difficult to access. The robot will be controlled through interfaces enabling different levels of robot autonomy.

[Fact sheet](#) - Project website

3D-PITOTI - 3D acquisition, processing and presentation of prehistoric European rock-art

Ancient rock-art - pictures and geometric shapes cut into rather than painted onto rock - exists in most European countries. This project will develop: an affordable and portable multi-scale 3D scanning toolkit for the high resolution acquisition of Pitoti figures and their natural context; intelligent data processing technologies to enrich the scanned 3D data by classification, clustering and retrieval techniques; and interactive 3D visualisation and presentation techniques to provide access to the enriched high resolution digital rock-art for scientists, museum visitors, school children and web users.

[Fact sheet](#) - Project website

Digital Preservation in FP7

Examples – Call 9

SUCCEED - Support action Centre of CompEtEnce in Digitisation. The project will promote the take up and validation of research results in mass digitisation, with a focus on textual content. The action will be implemented through the Impact Centre of Competence in Digitisation, an output of the IMPACT FP7-project which gathers and exposes digitisation tools and resources. The Centre will sustain the actions beyond Succeed since a legal entity will be substantiated and a roadmap for its long-term sustainability will be defined during the action.

[Fact sheet](#) - [Project website](#)

Digital Preservation in FP7

Examples – Call 9

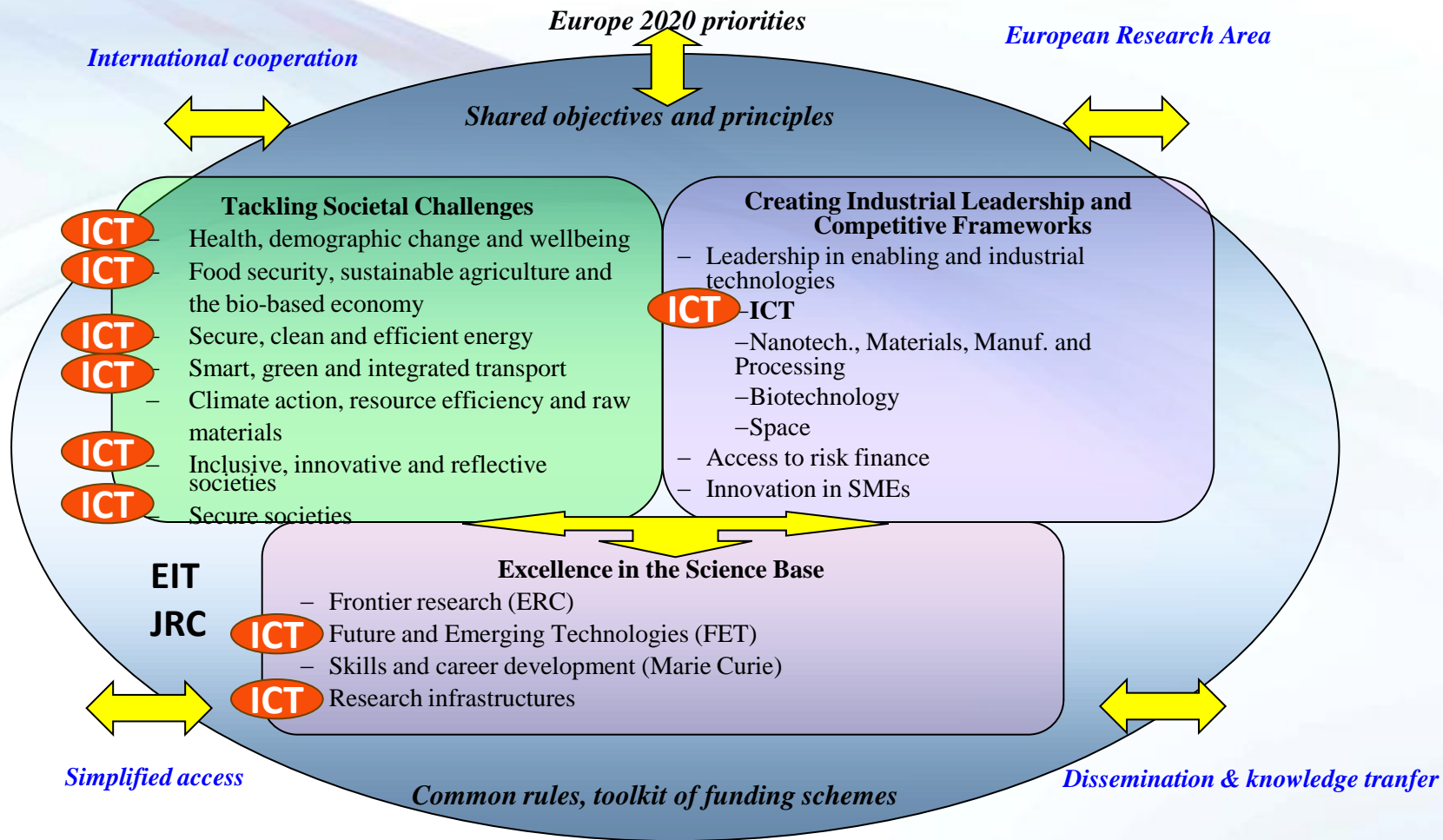
4C - Collaboration to Clarify the Costs of Curation

The 4C project will examine how existing digital preservation cost modelling tools and methods might be made more fit-for-purpose, relevant and useable by a wide range of organisations operating at different scales in both the public and the private sector. A coordinated programme of outreach and engagement will identify existing and emerging research, analyse user requirements and assess gaps in the current provision of tools, frameworks and models. Outputs will include the establishment of an international Curation Costs Exchange framework.

[Fact sheet](#) - [Project website](#)

HORIZON 2020

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION



EUROPEAN
COMMISSION

EU - BUILDING AN
INNOVATION UNION

Pillar 1 – Industrial Leadership

- Content technologies and information management
Technologies for language, learning, **interaction, digital preservation, content access and analytics**; advanced data mining, machine learning, statistical analysis and visual computing

Pillar 2 – Societal Challenges

- Digital inclusion; digital skills; social innovation platforms; e-government services; e-learning; **e-culture**

Digital preservation & creativity in Horizon 2020 – key preparatory events

Digital preservation

- **The Future of the Past – Shaping new visions for EU-research in digital preservation**

4 – 5 May 2011 - Luxembourg

http://cordis.europa.eu/fp7/ict/creativity/preparing-h2020_en.html

Creativity


- **ICT Competitiveness week**

17-20 Sep 2012 - Brussels

<http://ec.europa.eu/digital-agenda/en/ict-competitiveness-week-17-20th-september-2012>

2013. november 6-8

Vilnius, Litvánia



Utazási
támogatás
!!!

- ICT Munkaprogram, felhívások
- Online networking előtte, utána
- Brokerage rendezvény:
több száz projektötlet

<https://ec.europa.eu/digital-agenda/en/ict-2013>

2013. June 19-20

Dublin, Ireland

- <https://ec.europa.eu/digital-agenda/en/communities/digital-agenda-assembly>

Digital Heritage International Congress 2013

2013. October 28 – November 1

Marseille, France

<http://www.digitalheritage2013.org/>

Useful Information, Services

- FP7 <http://cordis.europa.eu/fp7/>
- ICT program <http://cordis.europa.eu/fp7/ict>
- EU ICT Pro
Nemzeti kapcsolattartó <http://www.ist.hu>
- Partner search <http://www.ideal-ist.eu>
<http://cordis.europa.eu/partners/>
<https://ec.europa.eu/digital-agenda/en/ict-2013>
- Finance Helpdesk <http://www.finance-helpdesk.org>
- IPR Helpdesk <http://www.ipr-helpdesk.org>



Köszönöm a figyelmet