I beni culturali in HORIZON 2020

Roma, 05 giugno 2014

Monique Longo - APRE
Punto Contatto Nazionale Sfida sociale 6
"Europe in a changing world – Inclusive, Innovative and Reflective society”
Migliorare la “Qualità” della partecipazione italiana nei programmi europei di ricerca su sviluppo e innovazione.

Per conto del Ministero dell'Università e della Ricerca (MIUR), APRE ha lo scopo di fornire informazioni, supporto e assistenza sulle modalità di partecipazione ai programmi europei di ricerca e sviluppo tecnologico, ad enti pubblici, enti privati e persone fisiche.

Ospita la rete dei National Contact Point (NCP).
Content

- The Past experience
- Horizon 2020 - Calls and Work Programme 2014-15 on Cultural Heritage
The past experience: FP7 - ICT

Budget per FP7 Challenge/Area
(2007-13 - % of total - 8.7B€)

1. Pervasive and Trusted Network and Service Infrastructure
2. Cognitive Systems and Robotics
3. Alternative Paths to Components and Systems
4. Technologies for Digital Content and Languages
5. ICT for Health, Ageing Well, Inclusion and Governance
6. ICT for a Low Carbon Economy
7. ICT for the Enterprise and Manufacturing
8. ICT for Learning and Access to Cultural Resources (6)
9. Future and Emerging Technologies
10. International Cooperation
11. Horizontal Actions

www.apre.it
Funded projects in FP7 ICT

This page is no longer updated. For recent information, please follow this link to the 'Creativity' website

FP7 projects in cultural heritage, digital libraries and preservation

The projects presented on this page result from the first calls for proposals under the ICT programme in FP7:

- ICT Call 1, December 2006 - May 2007
- ICT Call 3, December 2007 - April 2008
- ICT Call 5, November 2009 - April 2010

New projects

The 15 projects selected through ICT Call 5 have started between December 2010 and April 2011. They join the efforts and expertise of 194 participating organisations and are supported with an EU contribution of € 59 mio.

APARSEN - Alliance Permanent Access to the Records of Science in Europe Network

This Network of Excellence gathers a very diverse set of practitioner organisations and researchers in order to bring coherence, cohesion and continuity to research into barriers to the long-term accessibility and usability of digital information and data, and to build a long-lived Virtual Centre of Digital Preservation Excellence. Joint research activities will cover technical methods for preservation, access and re-use of data holdings over the whole lifecycle; legal and economic issues including costs and governance as well as digital rights; and outreach within and outside the consortium to help to create a discipline of data curators with appropriate qualifications.

Fact sheet - Project website

ARCOMEM - Archive Communities Memories

The vision of the ARCOMEM project is to leverage the Wisdom of the Crowds present in the social web for the purposes of content appraisal, selection and preservation. This will be the basis for creating and preserving archives that reflect collective memory and social content perception and are thus closer to current and future users. The research will be showcased on two example applications, the first for media-related Web archives and the second for political archives.

Fact sheet - Project website

## Italian participation in FP7 – ICT

<table>
<thead>
<tr>
<th>Category</th>
<th>ITALIA</th>
<th>GERMANIA</th>
<th>FRANCIA</th>
<th>UK</th>
<th>SPAGNA</th>
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</thead>
<tbody>
<tr>
<td>ICT for health</td>
<td>12,10%</td>
<td>14,60%</td>
<td>6,40%</td>
<td>15,30%</td>
<td>8,90%</td>
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<tr>
<td><strong>Digital libraries</strong></td>
<td>5,20%</td>
<td>17%</td>
<td>8,20%</td>
<td>18,40%</td>
<td>5,30%</td>
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<tr>
<td>ICT and ageing</td>
<td>34,90%</td>
<td>17,40%</td>
<td>4%</td>
<td>10,40%</td>
<td>11%</td>
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<tr>
<td>Future networks and internet</td>
<td>6,80%</td>
<td>17,60%</td>
<td>16,30%</td>
<td>9,90%</td>
<td>12,30%</td>
</tr>
<tr>
<td>Embedded systems</td>
<td>10,70%</td>
<td>17,70%</td>
<td>12,90%</td>
<td>10,70%</td>
<td>7,20%</td>
</tr>
<tr>
<td>ICT for inclusion</td>
<td>8,30%</td>
<td>17,90%</td>
<td>5,20%</td>
<td>10,10%</td>
<td>16,60%</td>
</tr>
<tr>
<td>ICT for energy efficiency</td>
<td>9,70%</td>
<td>18,10%</td>
<td>6,50%</td>
<td>8,70%</td>
<td>12,70%</td>
</tr>
<tr>
<td>FET</td>
<td>13,50%</td>
<td>19,10%</td>
<td>12%</td>
<td>12,80%</td>
<td>6,30%</td>
</tr>
<tr>
<td>ICT for learning</td>
<td>10,50%</td>
<td>19,10%</td>
<td>5,50%</td>
<td>17,90%</td>
<td>5,50%</td>
</tr>
<tr>
<td>Networked media</td>
<td>8,60%</td>
<td>19,40%</td>
<td>10,80%</td>
<td>14,60%</td>
<td>7,70%</td>
</tr>
<tr>
<td>ICT for governance and Policy Modelling</td>
<td>10,20%</td>
<td>20,40%</td>
<td>2,60%</td>
<td>15,20%</td>
<td>5%</td>
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<tr>
<td>Language technologies</td>
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<td>22%</td>
<td>7,10%</td>
<td>15,60%</td>
<td>10,90%</td>
</tr>
<tr>
<td>Software, services and internet connected object</td>
<td>11%</td>
<td>22,10%</td>
<td>11,10%</td>
<td>11,40%</td>
<td>10,60%</td>
</tr>
<tr>
<td>Micro/nanosystem</td>
<td>8,70%</td>
<td>22,70%</td>
<td>16,50%</td>
<td>7,10%</td>
<td>4,10%</td>
</tr>
<tr>
<td>Trustworthy ICT</td>
<td>13,30%</td>
<td>24%</td>
<td>9,40%</td>
<td>7,10%</td>
<td>6,40%</td>
</tr>
<tr>
<td>Nanoelectronics</td>
<td>9,40%</td>
<td>24,30%</td>
<td>16,90%</td>
<td>5,50%</td>
<td>10%</td>
</tr>
<tr>
<td>Intelligent information management</td>
<td>8,40%</td>
<td>25,50%</td>
<td>4,20%</td>
<td>12,50%</td>
<td>5,70%</td>
</tr>
<tr>
<td>Organic and large area electronics</td>
<td>5,20%</td>
<td>26,30%</td>
<td>8,90%</td>
<td>8,50%</td>
<td>2,90%</td>
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<tr>
<td>Photonics</td>
<td>6,60%</td>
<td>26,30%</td>
<td>8,90%</td>
<td>8,50%</td>
<td>2,90%</td>
</tr>
<tr>
<td>Cognitive system and robotics</td>
<td>13,90%</td>
<td>27%</td>
<td>11,80%</td>
<td>13,90%</td>
<td>4,60%</td>
</tr>
<tr>
<td>ICT for transport</td>
<td>8,60%</td>
<td>29,60%</td>
<td>7,80%</td>
<td>7,30%</td>
<td>5,50%</td>
</tr>
<tr>
<td>ICT for the enterprise</td>
<td>14,40%</td>
<td>31,10%</td>
<td>5,70%</td>
<td>8,90%</td>
<td>7,10%</td>
</tr>
</tbody>
</table>

Source: StReAM report 2011 – DG CNECT
The past experience: CIP (ICT PSP)

CIP budget distribution
(2007-13 - % of total - 758M€)

- Health and well being
- Energy
- Transport
- eGovernment
- **Digital Content**
- Smart Cities + various
- Internet Security
- others
- grants

CIP budget distribution (2007-13 - % of total - 758M€)
Funded projects in CIP ICT
Bottom up VS top down approach

**Excellent Science**
- European Research Council
  - Frontier research by the best individual teams
- Future and Emerging Technologies
  - Collaborative research to open new fields of innovation
- Marie Skłodowska Curie actions
  - Opportunities for training and career development
- Research infrastructures (including e-infrastructure)
  - Ensuring access to world-class facilities

**Industrial Technologies**
- Leadership in enabling and industrial technologies
  - **ICT**, nanotechnologies, materials, biotechnology, manufacturing, space
- Access to risk finance
  - Leveraging private finance and venture capital for research and innovation
- Innovation in SMEs
  - Fostering all forms of innovation in all types of SMEs

**Societal Challenges**
- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

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Calls and WP 2014-2015 on Cultural Heritage

EXCELLENT SCIENCE
Cultural Heritage in Horizon 2020 - Pillar “Excellence science"

- **European Research Infrastructure**
  Integrating and opening existing national and regional research infrastructures of European interest
  - 2014: 02-09-2014, 90 MLN
  - 2015: 50 MLN
  - Research infrastructures for studying the role of intangible investment for economic growth and for the study of cultural, historical and institutional innovation processes
  - European research infrastructures for restoration and conservation of cultural heritage

- **Excellent Science**
  - **European Research Council**
    - Frontier research by the best individual teams
  - **Future and Emerging Technologies**
    - Collaborative research to open new fields of innovation
  - **Marie Skłodowska Curie actions**
    - Opportunities for training and career development
  - **Research infrastructures** (including e-infrastructure)
    - Ensuring access to world-class facilities

- **European research Council (ERC)**

- **Marie Sklodowska Curie Actions (MSCA)**

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Calls and WP 2014-2015 on Cultural Heritage

INDUSTRIAL LEADERSHIP
Cultural Heritage in Horizon 2020 - Pillar “Industrial leadership"

<table>
<thead>
<tr>
<th>Industrial Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>▪ Leadership in enabling and industrial technologies</td>
</tr>
<tr>
<td>▪ ICT, nanotechnologies, materials, biotechnology, manufacturing, space</td>
</tr>
<tr>
<td>▪ Access to risk finance</td>
</tr>
<tr>
<td>▪ Leveraging private finance and venture capital for research and innovation</td>
</tr>
<tr>
<td>▪ Innovation in SMEs</td>
</tr>
<tr>
<td>▪ Fostering all forms of innovation in all types of SMEs</td>
</tr>
</tbody>
</table>

**ICT**
- Cracking the language barrier
- 2014, closed,
- 15 MLN

**Space**
- New ideas for Earth-relevant space applications
- 2014, closed
- 10 MLN

Palace Museum (Beijing, CN)
Nanotechnologies, advanced materials, biotechnology and advanced manufacturing and processing (NMP)

- Materials-based solutions for the protection or preservation of European cultural heritage (2014, closed)
- Materials solutions for use in the creative industry sector*, 2014, closed
- Inducement prize for the development of new materials and materials-based creative solutions by upstream collaboration between material scientists and designers,
  - 2015,
  - 4 MLN*

*COM(2012)537: Promoting cultural and creative sectors for growth and jobs in the EU.
3° PILLAR

SOCIETAL CHALLENGES
Cultural Heritage in Horizon 2020
Pillar "Societal Challenges"

Societal Challenges

- Health, demographic change and wellbeing
- Food security, sustainable agriculture, marine and maritime research & the bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Security society

Challenge 3: Secure, clean and efficient energy

Challenge 6: Europe in a changing world – Inclusive, Innovative and Reflective Societies

Challenge 7: Secure societies – Protecting freedom and security of Europe and its citizens
3. Secure, Clean And Efficient Energy

- Energy strategies and solutions for deep renovation of historic buildings
  - Budget: 5 MLN
  - 20/03/2014
7. Secure Societies – Protecting Freedom And Security of Europe and its Citizens

- Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts
  - 27/08/2015
  - 10 MLN
6. Europe in a changing world – Inclusive, Innovative and Reflective societies

- ERA Net on Uses of the past (2014, closed, 5 MLN)
- Emergence and transmission of European CH and Europeanization
  - 07-01-2015. 15,50 MLN, shared with other topics
- The CH of war in contemporary Europe
  - 07-01-2015. 15,50 MLN
- European cultural and science diplomacy: exploiting the potential of culture and science in the EU’s external relations
  - 07/01/2015, 25 MLN shared with other topics
- The cultural, scientific and social dimension of EU-LAC relations,
  - 07/01/2015, 25 MLN shared with other topics)
REFLECTIVE 6 - Innovation ecosystems of digital cultural assets

- 21/04/2015
- 10 MLN
- Support the development of new environments, applications, tools, and services for creative re-use of digital cultural resources from scientific collections, archives, museums, libraries and cultural heritage sites, to nurture innovation in this sector.
REFLECTIVE 7 - Advanced 3D modelling for accessing and understanding European cultural assets

a. Research on cost-effective technologies for advanced 3D modelling to enhance the understanding of cultural heritage.

- Research & Innovation Action
- 30/09/2014
- Budget totale: Circa 12 M€
- Budget per progetto: 2-4 M€
6. Europe in a changing world – Inclusive, Innovative and Reflective societies

- REFLECTIVE 7 - Advanced 3D modelling for accessing and understanding European cultural assets
  
  b. Devise standard formats for the semantic-aware 3D modelling of Europe's cultural heritage for researchers and practitioners

- Coordination and Support Action
- 30/09/2014
- Budget: 2 M€
Schemi di finanziamento

<table>
<thead>
<tr>
<th>European Research Council (ERC)</th>
<th>Marie Skłodowska-Curie actions (MSC)</th>
<th>Progetti Collaborativi</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Per chi:</strong></td>
<td><strong>Per chi:</strong></td>
<td><strong>Tre tipi di azione:</strong></td>
</tr>
<tr>
<td>Team di ricerca</td>
<td>Singoli ricercatori</td>
<td>- Research and Innovation Action (RIA)</td>
</tr>
<tr>
<td><strong>Finanziamento:</strong></td>
<td></td>
<td>- Innovation Action (IA)</td>
</tr>
<tr>
<td>100% direct costs</td>
<td></td>
<td>- Coordination and Support Action (CSA)</td>
</tr>
<tr>
<td><strong>Budget totale 2014:</strong></td>
<td><strong>Finanziamento:</strong></td>
<td><strong>Per chi:</strong></td>
</tr>
<tr>
<td>1676.6</td>
<td>Borse di studio</td>
<td>- RIA, IA: Consorzi Min. 3 entità legali differenti da min. 3 differenti Stati membri</td>
</tr>
<tr>
<td></td>
<td><strong>Budget totale 2014-15:</strong></td>
<td>- CSA: un’entità legale</td>
</tr>
<tr>
<td></td>
<td>1.571,94 MLN</td>
<td><strong>Finanziamento:</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- RIA, CSA: 100% costi diretti</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- IA: 70% (100% non-profit)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Costi indiretti 25% dei costi diretti</td>
</tr>
</tbody>
</table>

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JPI on Cultural Heritage

1. Safeguarding tangible cultural heritage and its associated intangible expressions

2. Sustainable strategies for protecting and managing cultural heritage

3. Use and re-use of all kinds of cultural heritage

Scadenza 1 step: 28 Aprile 2014

http://www.jpi-culturalheritage.eu/
http://www.heritageportal.eu/
Link Utili H2020


- Participant portal: [http://ec.europa.eu/research/participants/portal/page/home](http://ec.europa.eu/research/participants/portal/page/home)


Monique Longo

NCP Societal Challenge 6
"Europe in a changing world – Inclusive, Innovative and Reflective society”

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