Our work frame: Presentation of DC-NET

e-Infrastructure for Cultural Heritage?

Rossella CAFFO

Ministero per i beni e le attività culturali

Istituto centrale per il catalogo unico delle biblioteche italiane

DC-NET Workshop on new services

Paris, 9-10 February 2011

Digital Cultural Heritage and e-Infrastructures?

Let's leave the floor to cultural institutions.

Cultural institutions want:

- **Basic Information**:
  - What
  - Who
  - How
- **Economics**:
  - Is it free?
  - Is it cheap?
  - Can we make money?
- **Helps us do what we do**:
  - Manage collections: data storage, CMS, interoperability
  - Tell stories: making connections
  - Serving our public: creating services for other institutions and final users

The main scope of the DC-NET project is answering these questions.

DC-NET is connecting the cultural sector

- Cultural Institutions (museums, libraries, archives, audio-visual, archaeology..)
- Central Institutes representing the national/regional authorities (standardisation & cataloguing, preservation, restoration, etc.)
- Ministries of culture
- Regional local cultural bodies

with technology and e-Infrastructure providers

- Universities and academies
- Ministries of research
- NREN
- Other e-Infrastructures (e.g. Grid)
- R&D enterprises
- Public research centers

We are talking about…

- Digital heritage
- Digital libraries
- E-infrastructures
- Portals and aggregators

What is "*digital heritage*"

- Digital items and collections
- Digital image archives
- Audiovisual
- Sounds, music, recordings
- Digital born
- 3D
- Databases, digital catalogues and other services
- Data from scientific research on cultural heritage

What are "*digital libraries*"

Two possible approaches:

- Databases of digital **contents** representing cultural items (images, sounds, audiovisuals, etc.)

- Digital catalogues of **metadata** and other **services** connected with digital **contents** in a single platform

Target: general users or professionals or researchers

What are research "*e-infrastructure*"

Integration of various features:

- Advanced software platform

- Complex data

- Virtual research community

- Services

- Telematic networks, storage and computing platforms

Target: professionals, researchers –

No general users

What are "*portals*" and "*aggregators*"

- Both do not include digital resources (in a systematic way)

- They provide information and services, and forward to external digital libraries and databases for accessing contents

Target: mostly general users

Researchers are not the main target

DCH research priorities

DC-NET identified the following research priorities in the field of Digital Cultural Heritage:

1. Networking
2. ICT Research
3. Innovative services and pilots
4. Excellence networks, competence centres, labs for innovation in cultural heritage

1. Networking

- Need analysis
- Who-is-Who
- Policies and programmes profiling
- Best practices
- Consensus building
- Shared recommendations and guidelines
- Advocacy
- Dissemination and awareness
- Commitment of stakeholders

2. ICT priorities

1. Digitisation and digital documentation of tangible cultural heritage

2. Quality of digital objects, services and uses

3. Digital repositories and digital preservation

4. Digital Library infrastructures

5. Virtual research environments and knowledge infrastructure ecosystems

Interoperability of resources and of digital services as well as management of the copyrights are conceived as horizontal themes.

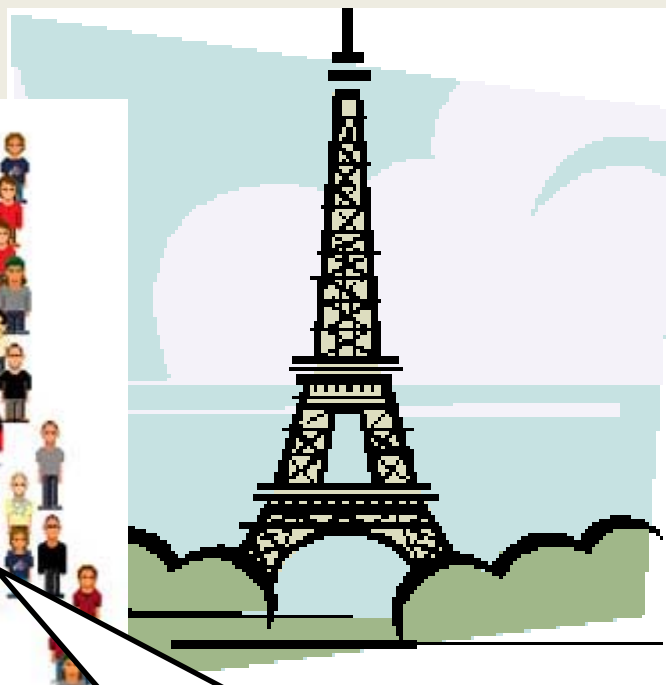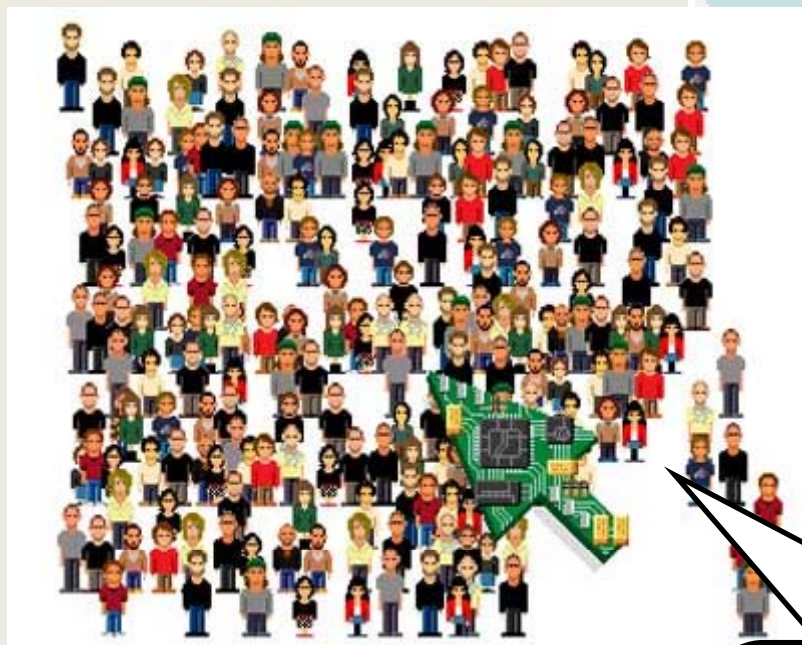## Technical validation of research priorities

"Validation of the DC-NET Internal Report on the Research Priorities of the Digital Cultural Heritage" (DC-NET WP4, January 2011)

These issues are considered by DC-NET of specific importance, while currently not sufficiently (or not at all) covered at European level.

- **Digital Repository, Technologies and Platforms**
- **Integration and Interoperability of Heterogeneous Digital Repositories**
- **Cloud Computing Architectures, platforms and APIs**
- **Linked Data and Semantic Web Technologies**
- **Cultural Data and Information Visualization**

UNDER DISCUSSION TODAY

DC-NET in a glance

DC-NET is an ERA-NET - Coordination action contributing to the European Research Area

- Research field: e-infrastructure for the digital cultural heritage
- Duration: 24 months
- Starting 1st December 2009

DC-NET partners

- Endorsed by JPI on cultural heritage and global change; Coordinated by MiBAC-ICCU

- Partners:

- **Italy:** Ministero per i beni e le attività culturali - Istituto Centrale per il Catalogo Unico (coordinator)

- **Belgium:** Politique scientifique fédérale/Federaal Wetenschapsbeleid (BELSPO/STIS)

- **Estonia:** Eesti Vabariigi Kultuuriministeerium

- **France:** Ministère de la Culture et de la Communication – Département de la Recherche de l'enseignement supérieur et de la technologie

- **Greece:** Υπουργείο Πολιτισμού [Hellenic Ministry of Culture]

- **Hungary:** Oktatási Kulturális Minisztérium (Ministry of National Resources)

- **Slovenia:** Ministrstvo za Kulturo Slovenia

- **Sweden:** Riksarkivet **(delegated by the Ministry of Culture)**

DC-NET objectives

- To foster **cooperation** between **cultural sector** and **technology and infrastructure** providers

- To harmonise initiatives of the EU Ministries of Culture into a **common strategy** for the digital cultural heritage

- To develop and to endorse a **research agenda** for the digital cultural heritage, shared among the MS and the EC

- To translate the strategic road map into **coordinated programmes** and **action plans**

Our vision

- To implement the **data and service infrastructure** for the research in the digital cultural heritage

- To further develop the **national/regional frameworks** of cooperation with content providers (that is the legacy of MICHAEL)

- To secure the **committment of the stakeholders** to sustain the infrastructure on a medium-long term

Dissemination and training

From June onward DC-NET will organise in each partner country national seminars.

Target audience:

Cultural institutions that wish to get in touch with the e-infrastructures world — Researchers that wish to get in touch with cultural institutions

Some topics:
- What is GRID
- What is the cloud
- What are the NREN
- …

And more: FAQs, glossary, handbook, …

The material will be translated in each national language, on the basis of the national needs

Sustainability of the DC-NET e-Infrastructure

National programmes in the areas of:

- Research
- Cultural heritage
- Innovation & e-government

European programmes

- Infrastructures
- ICT
- CIP

Regional programmes

DC-Net nexts appointments

Budapest 23-24 June 2011
International conference under the aegis of the Hungarian Presidency of the EU

Rome November 2011
DC-NET Final conference

Keep an eye on the "Events and news" section of our web site!
http://www.dc-net.org/index.php?en/22/events-and-news
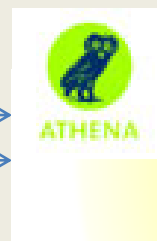
INDICATE

A DC-NET spin-off project started in September 2010.

Objective: to enlarge to the **Mediterranean region** the discussion about the implementation of a common digital cultural heritage e-infrastructure

From theory to practice: INDICATE will:

- analyse three case studies
- implement two research pilots:
  - Semantic search
  - e-collaborative cultural repositories
- organise thematic workshops on digital preservation, geo-coded cultural data, virtual exhibitions

EUROPEANA

Athena
Linked Heritage

INDICATE

DIGITAL CULTURAL
HERITAGE
e-INFRASTRUCTURE

RECOMMENDATIONS &
GUIDELINES

DATA MODEL,
ORGANISATION,
GOVERNANCE

NATIONAL & REGIONAL INITIATIVES

2002   2005   2009   2011   2014

Thank you for the attention

Rossella Caffo

DC-NET Project Manager

rosa.caffo@beniculturali.it

www.dc-net.org

www.indicate-project.eu

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