Linked Heritage Conference

Coordination of Standards and Technologies for the enrichment of Europeana

Rossella Caffo

Ministero per i beni e le attività culturali
Istituto centrale per il catalogo unico delle biblioteche italiane
(ICCU)

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2011.hu ORSZÁGOS SZÉCHÉNYI KÖNYVTÁR MINISTERO PER I BENI E LE ATTIVITÀ CULTURALI ICCU Istituto Centrale per il Catalogo Unico

The Digital Agenda

Priorities of the Digital Agenda and the cultural heritage

- **Massive digitisation** and online access to museum, libraries, and archives cultural heritage
- **License negotiation** with publishers to access online copyrighted material
- Identification of **orphan works** or **out-of-print works**
- strategies for **long term preservation** to be implemented by Member States at national level
- Creation of an **infrastructure** dedicated to digital cultural heritage

Preservation

- The preservation of digital master copies of cultural materials is an institutional task of the States, carried out by national libraries or by other public institutions under the direct responsibility of governments

- Publishers can benefit for the preservation of born digital material provided by public institutions

Copyright

Crucial matter:

- Need to avoid the 20 century gap in digital material: necessity of negotiating licences with publishers to access online copyrighted material

- Seeking balance between the rights of actors in the book chain and those of libraries

- Identification of orphan works or out-of-print works. ARROW plus project works to identify rights holders and to clarify the rights status of works, both orphan or out-of-print (www.arrow-net.eu)

PPP for mass digitisation

Public-private partnerships are an instrument for the production of a critical mass of digital content (e.g. Google agreements)

But

National investments are needed for preservation and online accessibility of the digitised resources in national portals
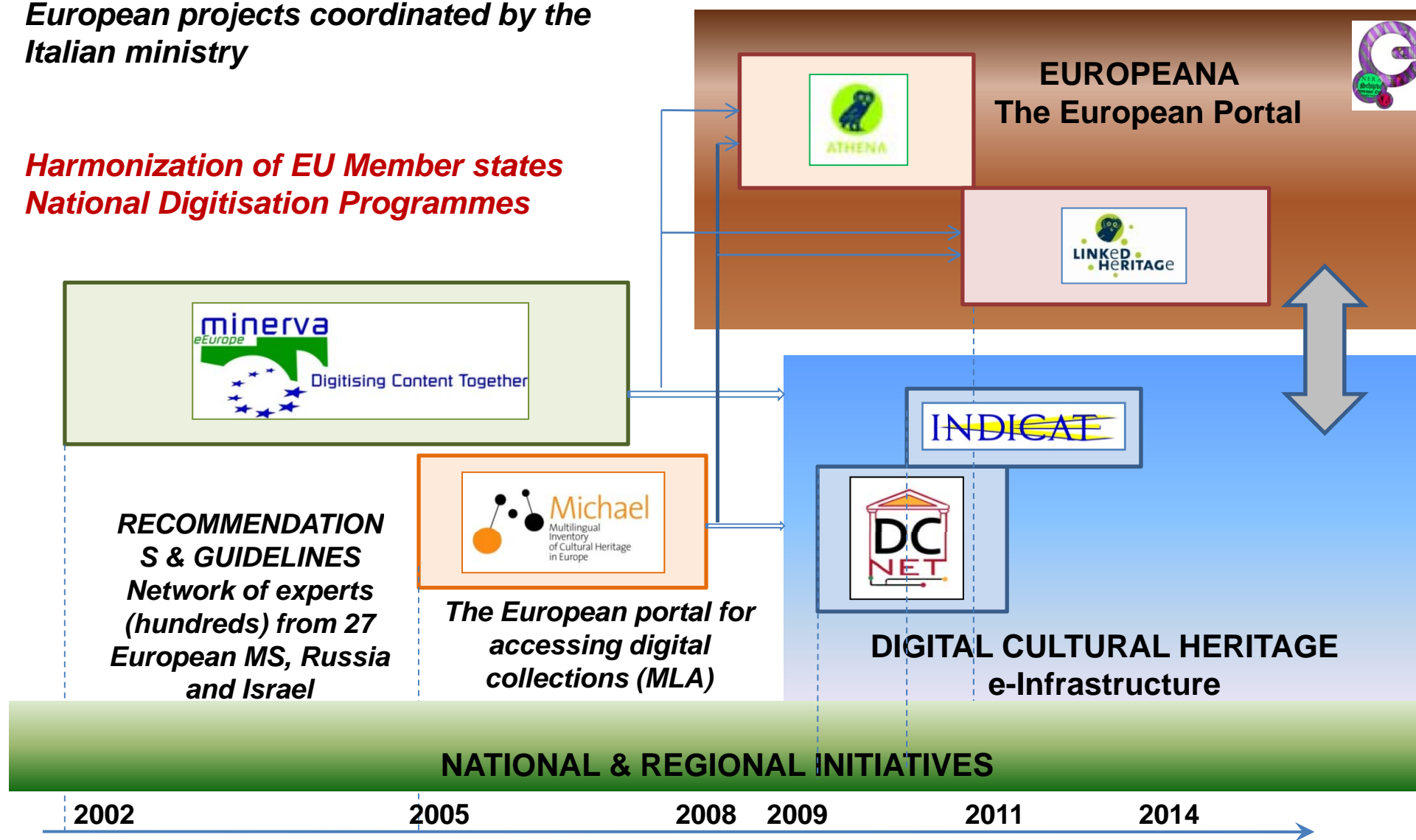
Infrastructure

- Big problems like long term preservation may be overcome thanks to the use of a e-Infrastructure dedicated to DCH

- This possibility is under investigation within DC-NET and INDICATE projects

Past, present and future scenario

European projects coordinated by the Italian ministry

Harmonization of EU Member states National Digitisation Programmes

EUROPEANA
The European Portal

ATHENA

LINKeD HeRITAGe

minerva
eEurope
Digitising Content Together

INDICATE

DC NET

RECOMMENDATIONS & GUIDELINES
Network of experts (hundreds) from 27 European MS, Russia and Israel

Michael
Multilingual Inventory of Cultural Heritage in Europe

The European portal for accessing digital collections (MLA)

DIGITAL CULTURAL HERITAGE
e-Infrastructure

NATIONAL & REGIONAL INITIATIVES

2002   2005   2008   2009   2011   2014

MINERVA keywords still alive

- Cross-domain approach (ALM)
- Sharing good practices across Europe
- Network of hundreds of experts
- Tight liaison with the national digitisation programmes
- Coordination among and within Member States
- Monitoring progress
- Promotion of digitisation standards

ATHENA
Access to cultural heritage networks across Europe

- A network of good practices financed by the *e*Content*plus* programme

- A 30 month project (2008-2011) coordinated by MiBAC

- A result of the MINERVA project

- **ATHENA involved:**

- 20 EU Member States, Israel, Russia and Azerbaijian

- 130 museums and other important cultural institutions in Europe

www.athenaeurope.org

ATHENA

The network

ATHENA

Belgium
Bulgaria
Cyprus
Czech Republic
Estonia
Finland
France
Germany
Greece
Hungary
Israel
Italy
Latvia
Lithuania
Luxembourg
Malta
The Netherlands
Poland
Romania
Russia
Slovak Republic
Slovenia
United Kingdom
Europeana

The mission

Encourage museums and other cultural institutions to share their cultural content with Europeana, supporting them in this process

European museums have different approaches in:
Cataloguing
Digitisation
Metadata standard use

ATHENA

europeana
think culture

Results: LIDO (XML harvesting schema)
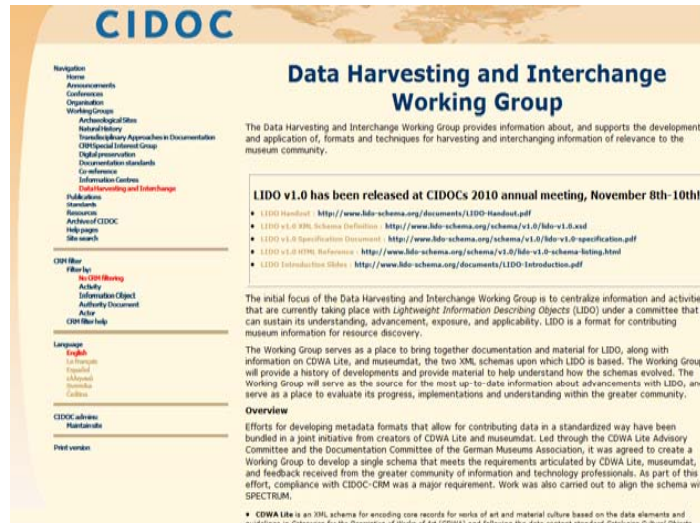
Formalised at international level in December 2010 in Beijing

at the CIDOC International Conference

- LIDO = Light Information [for] describing Objects
- Uses the conceptual reference model CIDOC (CRM)
- Includes elements for visualization, indexing and multilingualism
- Aligned with the Getty *CDWA Lite and Spectrum standards*
- Reacher than ESE (Europeana Semantic Elements)

http://www.lido-schema.org

Results: Ingestion software

- **Developed by NTUA**
- **Based on LIDO**
- **Data automatically send to Europeana**

XML analysis, statistics & preview
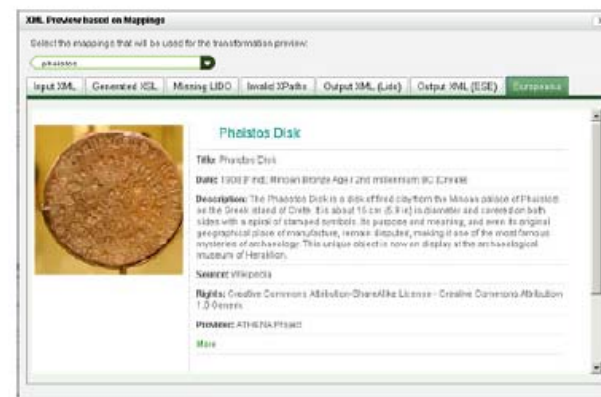
Visual mapping (XSL) editor
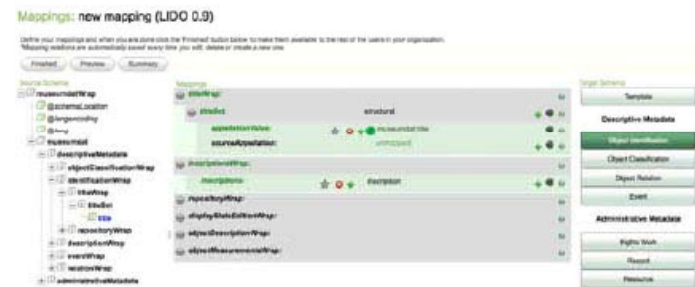
XPath & constant value mappings, value concatenation
String value transformation functions based on XSL

Complex condition editor

TODAY ATHENA IS THE BIGGEST AGGREGATOR FOR EUROPEANA

Matches for: *:* > PROVIDER:Athena

All | Texts (503,188) | Images (3,279,348) | Videos (890) | Sounds (14...

Results 1 - 12 of 3,798,121   Page: 1 2 3 4 5 6 7 8 9 10 →

Refine your search:

By provider

By country
- italy (1,572,371)
- germany (1,379,032)
- finland (523,324)
- hungary (93,505)
- slovakia (43,664)
- russia (43,206)
- poland (30,055)
- belgium (27,708)
- czech republic (26,478)
- greece (19,075)

- belgium (27,708)
- czech republic (26,478)
- greece (19,075)
- romania (16,248)
- slovenia (15,480)
- europe (5,289)
- lithuania (1,093)
- malta (978)
- estonia (471)
- bulgaria (144)

Μήδεια
Mikis Theodorakis (composer)
1988
Music Library of Greece "Lilian Voudouri" – Friends of Music Society / Μεγάλη Μο...
Athena

Δύο τετράδια με πρόχειρα επιστολών Μ.Θ. ...
1957
Music Library of Greece "Lilian Voudouri" – Friends of Music Society / Μεγάλη Μο...
Athena

Τετράδια με πρόχειρα επιστολών σχετικά μ...
1958
Music Library of Greece "Lilian Voudouri" – Friends of Music Society / Μεγάλη Μο...
Athena

Ποικιλία θεμάτων. Η αλληλογραφία δίνει π...
1960
Music Library of Greece "Lilian Voudouri" – Friends of M... Society / Μεγάλη Μο...
Athena

Ενέργειες και επιστολές για την απελευθέ...
1970
Music Library of Greece "Lilian Voudouri" – Friends of Music Society / Μεγάλη Μο...
Athena

Γούνα
Museum of Greek Folk Art / Μουσείο Ελληνικής Λαϊκής Τέχνης
Athena

Πιρπιρί
Museum of Greek Folk Art / Μουσείο Ελληνικής Λαϊκής Τέχνης
Athena

Γιούρντα
Museum of Greek Folk A... Μουσείο Ελληνικής Λαϊκ...
Athena

Criticisms and lessons learned

CRITICISM
- Collections not fully digitised
- Technical problems
- Institutions' internal problems
- IPR problems not fully solved

DATA QUALITY
- Digital objects not always of good quality
- High level descriptive metadata, low quality images
- Lack of standards in descriptive metadata
- Good descriptive metadata without images (not accepted by Europeana)

LESSONS LEARNED
- Promotion of standards
- Quality check
- Workflow
- Training and helpdesk

Other results

PERSISTENT
IDENTIFIERS (PIDs):
RECOMMENDATIONS
FOR INSTITUTIONS

DIGITAL CULTURAL CONTENT:
GUIDELINES FOR
GEOGRAPHIC INFORMATION

PERSISTENT IDENTIFIERS (PID)

- What they are, why to use them, how

- Typologies and uses

- Survey

- Recommendations for institutions

- Booklet

GIS: GUIDELINES FOR GEOGRAPHIC INFORMATION

- What they are, why to use them, how

- Typologies and uses

- Use cases with digital cultural content

- Booklet

Other results

ATHENA THESAURUS

- Experiment conceived as collection of terms from controlled vocabularies

- Expressed in SKOS format

- Mapping to it of other terminologies

- Guidelines for skosification of thesauri

- Benchmarking of skosificactions software

- ATHENA-WIKI
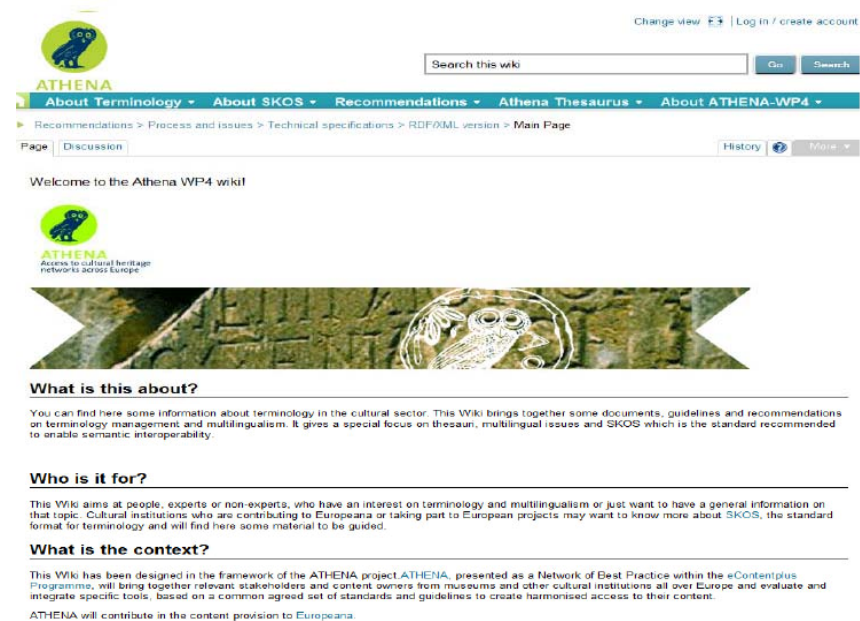
Other results

STEP BY STEP IPR GUIDE

A museum wanting to publish its images may face legal problems

The IPR guide proposes solutions to identify these problems

Other results

ATHENA Journal

1: Think culture
2: Open gates instead closed doors
3: Collections development

http://www.uic.edu/htbin/cgiwrap/bin/
ojs/index.php/UC/issue/view/318

Other results: virtual exhibition
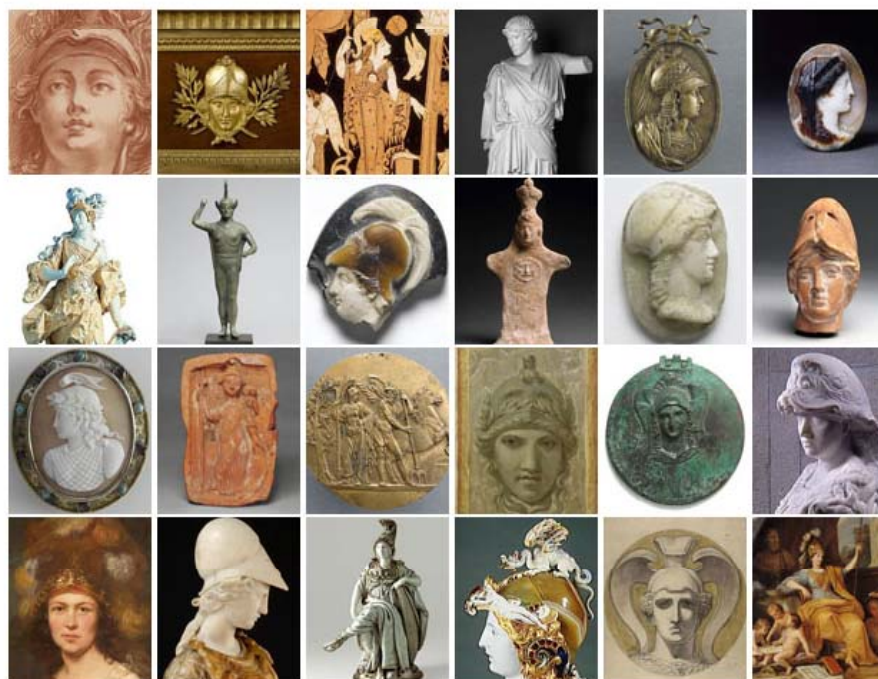
Linked Heritage

Best Practice Network

Started on 1/4/2011

- To contribute large quantities of new content to Europeana – **cross domain**

- To prepare for the enhancement of the quality of both new and existing Europeana content

- To demonstrate improved search, retrieval and use of Europeana content

- For the first time, the **public sector** participate together with the **private sector** to provide content to Europeana

Main objectives

1. First and most important focus: to provide 3 million new content to Europeana

2. Five key areas of development and innovation:

   a) The use of linked data

   b) Persistent identifiers

   c) Metadata and standards (particularly for non-library sources)

   d) Multilingual and cross-domain combination of terminologies

   e) Engagement with the private sector (ONIX mapping)

Conclusions

All the themes discussed in this presentation will be further investigated in the DC-NET conference that will take place still in the Szecheny National Library on 23-24 June 2011

Digitisation of cultural heritage and long term preservation – the role of e-Infrastructures

See you tomorrow!

Thank you!

Rossella Caffo

rosa.caffo@beniculturali.it