MuseiD-Italia

Digital Library for Museums

www.culturaitalia.it

Sara Di Giorgio

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The Digital Library for Museums has been realized
   thanks to MuseiD-Italia project. The objective is to create
   an integrated area in CulturaItalia portal where the users
   can search and compare works from the collections of
   several museums and find information about permanent
   and temporary exhibitions.

The project is funded by the Ministry for Public
   Administration and Innovation within the Strategic Plan
   e-Government 2012

It started in December 2009 and will end in December 2012

ICCU coordinates the project

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Ministro per la pubblica amministrazione e l'innovazione

Piano e-gov 2012

More than 2,5 M of metadata: from museums, photographs, libraries, archives, galleries, exhibits, monuments, videos, etc.

Editorial articles
To discover cultural activities and partners

Weekly Newsletter
Italian - English

Community on FB and LinkedIN

More than 1.6 M data sent to Europeama
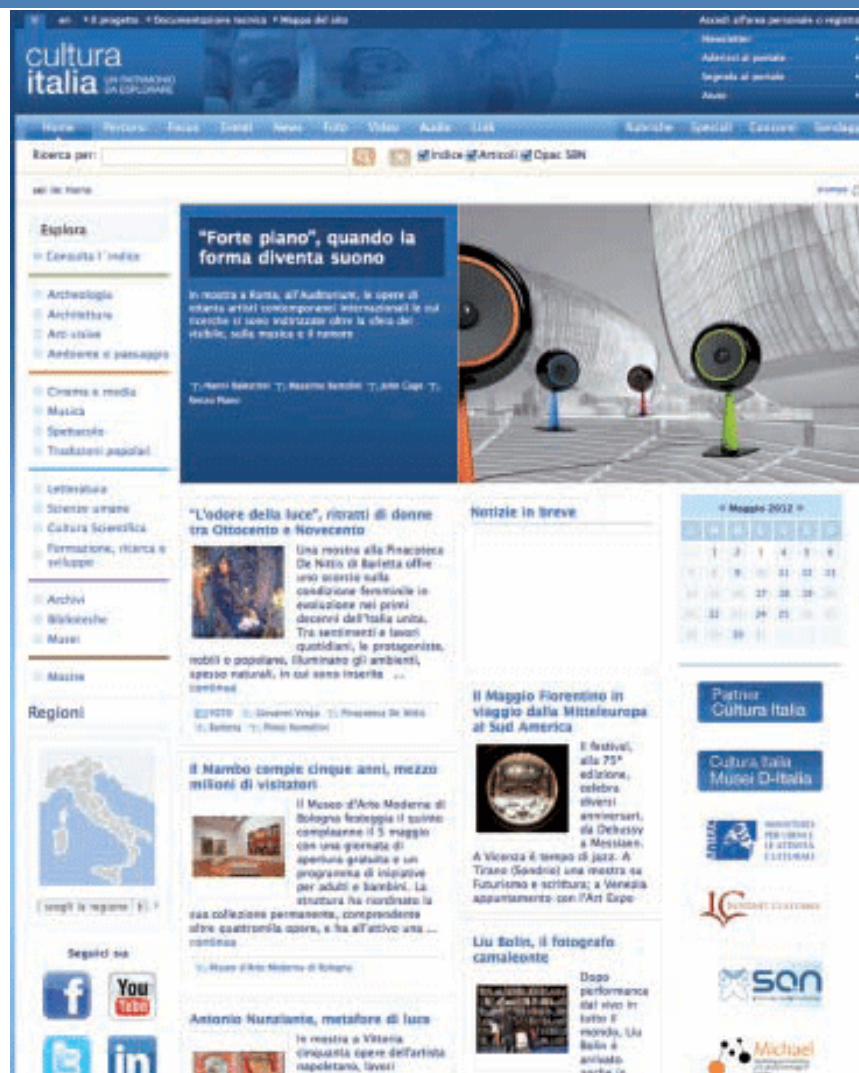
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http://www.culturaitalia.it

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museid-italia
Un patrimonio da esplorare
Ministero per i Beni e le Attività Culturali

Cerca nel sito:
Q+ Ricerca avanzata

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Indice
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- Aree e parchi archeologici
- Palazzi e ville
- Parchi e giardini
- Castelli e fortificazioni
- Chiese e edifici religiosi
- Edifici civili
- Monumenti

in primo piano
Museo Egizio di Torino

Carta dei musei
scegli la regione

Clouds
Musei, Caravaggio
Olmi, Cinema
Venezia, Cesare Pavese
Mastroianni,
Puccini, Toscanini
Opera

facebook

icultura italia
Cultura Italia sul tuo iPad e iPhone

Podcast
Cultura Italia in Podcast

Focus
Robert Mapplethorpe a Roma
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis.
32 commenti | Voto

Mambo, arte moderna a Bologna
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
13 commenti | Voto

Oggetti digitali
A. Sant'Elia | Video
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor.

Alberto Burri | Audio
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor.

Andy Warhol | Video
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum.

Eventi
22 agosto 2010
Festival Pergolesi
Chiude con Claudia Abbado
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

22 agosto 2010
Duomo di Milano
Accordo per la valorizzazione
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

RSS Le Notizie e gli Eventi in RSS

Notizie
22 agosto 2010
Inaugurazione di Volterra Teatro
Edizione 2010 della manifestazione
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

22 agosto 2010
Taormina Arte
La grande danza internazionale
Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.

Calendario:
◀ Febbraio ▶
L M M G V S D
1 2 3 4 5 6 7
1 2 3 4 5 6 7
1 2 3 4 5 6 7

My | cultura italia
percorso del giorno
Pierpaolo Pasolini
Voto

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Michael
LC INTERNET CULTURALE
innova scuola
europeana

museid-italia | magazine
Numero 3
Settembre 2010

Contatti | Crediti | Termini d'uso | Accessibilità
W3C quality assurance: xhtml 1.0 strict | CSS validator

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Regioni
scegli la regione...

Podcast Cultura Italia in Podcast
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Musei e gallerie
Primo piano
Articolo su musei e gallerie

Galleria degli Uffizi

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo. Quisque sit amet est sed ipsum ullamcorper pharetra. Vestibulum erat wisi, condimentum sed, commodo vitae, ornare sit amet, wisi. Aenean fermentum, elit eget tincidunt condimentum, eros ipsum rutrum orci, sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus, neque id cursus faucibus, tortor neque egestas augue, eu vulputate magna eros eu erat. Aliquam erat volutpat. Nam dui mi, tincidunt quis, accumsan porttitor, facilisis luctus, metus. sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis. Praesent dapibus, neque id cursus faucibus, tortor neque egestas augue, eu vulputate magna eros eu erat. Aliquam erat volutpat. Nam dui mi, tincidunt quis, accumsan porttitor, facilisis luctus, metus.

Galleria fotografica | Video | Audio | Allegati | Link esterni | Pagina interna
twitter | facebook
voto

Modigliani
Pellentesque habitant morbi tristique senectus et netus et malesuada.
Foto | Video | Link esterni
voto

Modigliani
Pellentesque habitant morbi tristique senectus et netus et malesuada.
Foto | Video | Link esterni
voto

Modigliani
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Foto | Video | Link esterni
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voto

Indice dei musei
- Galleria Borghese
- museo numero uno
- museo numero due
- museo numero tre
- museo numero quattro
- museo numero cinque
- museo numero sei
- museo numero sette
- ...

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archivio degli eventi | archivio delle rubriche

MuseiD-Italia involved:

- the creation of a national register of museums, monuments and archaeological parks interoperable with regional databases

- the creation of a digital library based on Fedora framework for the storage and publication of digital objects describing
  - Museums
  - Museum collections
  - Digitized Museum objects

- a launch of digitization projects of and projects for the recovery of existing digital resources related to Musums objects and collections, addressed to a first populating campaign of the Digital Library

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MuseiD-Italia project's numbers

- 30 projects in total (19 are organized on regional basis)
- more than 360 museums participating in the projects
- more than 95,000 digital objects (images and videos) in the digital library
- more than 7,500 descriptions of museums and monuments in the national registry

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The Digital Library is based on FEDORA Commons
http://www.FEDORA-commons.org/

- it is free, community supported, open source software
- it is an integrated digital repository-centered platform
- it enables storage, access and management of any kind of digital content in a neutral manner using open standards
- it provides a base for software developers to build tools and front ends for sharing, reuse and displaying data online
- digital resources can be described within a Fedora repository using various datastreams in different metadata schemas
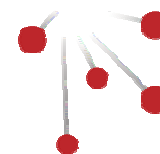
Fedora is a modern repository model allows to:

- Create and maintain a persistent, stable, digital archive
    - provides backup, redundancy and disaster recovery for curren system
    - provides full-text search across all metadata
- Store the data in a neutral manner, using open standards
    - store digital objects along with the descriptive XML files on the filesystem
    - manage metadata describing digital objects using standard metadata schemas (METS in the case of MuseiD-Italia)"
- Promote content sharing and reuse via open standards
    - repository accessible via the REST protocol
    - data sharing is available via OAI-PMH protocol (Open Archive Initiative) for incremental harvesting (especially to CulturaItalia)

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FedoraCommons™

The Digital Library MuseiD-Italia manages three different types of content:

- descriptions of museums, monuments, archaeological sites, historical gardens, churches and other cultural sites aquired via OAI-PMH by the National Registry
- descriptions of museum collections
- digital objects (images, video) in different formats and resolution scales: high, medium, low and preview

FEDORA assigns to each work or collection a persistent identifier (PID) that is a digital reference for each resource even outside the DL, towards other repository like CulturaItalia

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The DL is based on a METS profile specifically conceived for the domain of Italian Museums
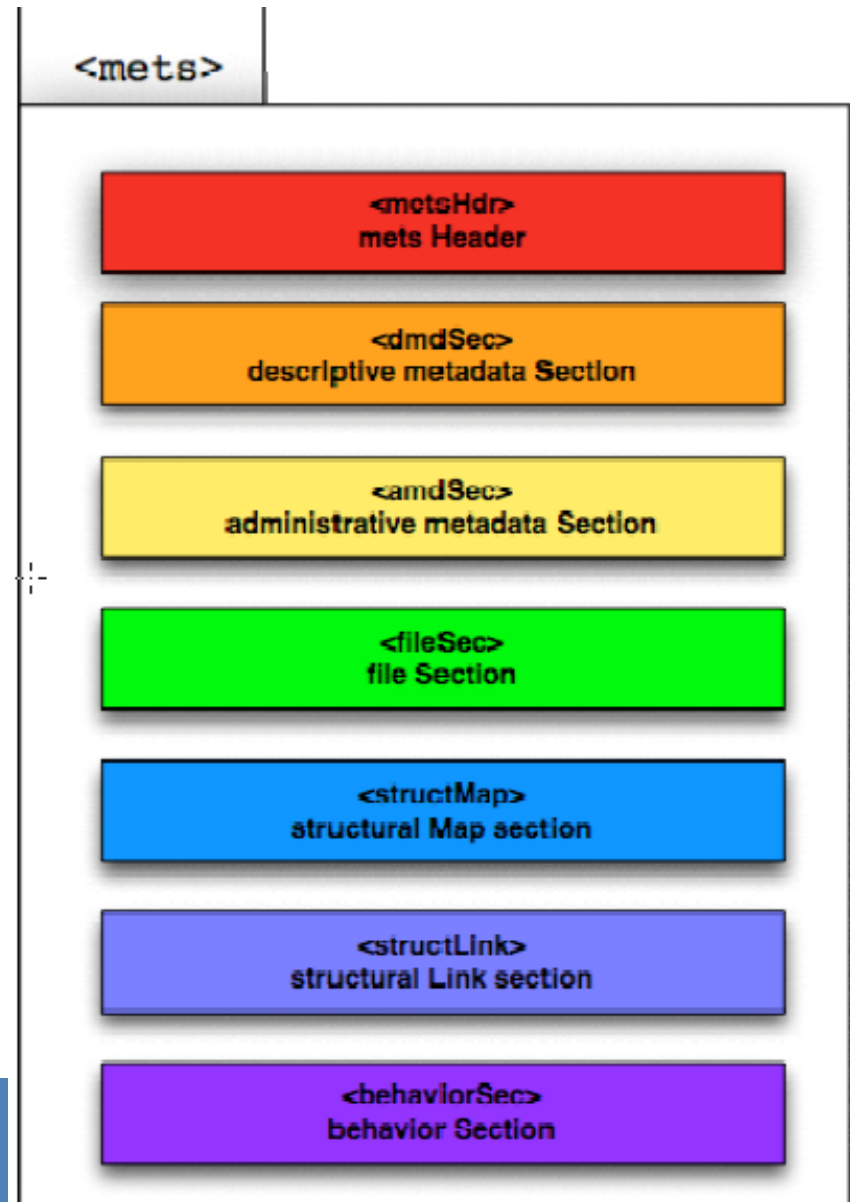
The METS-MDI profile Uses VRA embedded into the descriptive metadata section (dmdSec) for describing Works, Collections and Images

descriptive metadata related to WORKS (dmdSec) are derived from the national cataloguing standards (ICCD) and automatically mapped into VRA Core 4.0

in the section of technical metadata (amdSec), the profile adopts the schemas NISO MIX, VIDEOMD and AUD respectively related to image files, video and audio files

o

http://www.loc.gov/standards/mets/mets-registered-profiles.html

<mets>

<metsHdr>
mets Header

<dmdSec>
descriptive metadata Section

<amdSec>
administrative metadata Section

<fileSec>
file Section

<structMap>
structural Map section

<structLink>
structural Link section

<behaviorSec>
behavior Section

System requirements:

- Linux server operating system
- Database MySQL
- Java (JDK version 1.6)
- Tomcat servlet container
- Fedora Commons (versione 3.4)
- OAI Provider Service 1.2 (Proai)
- Mass storage of adequate capacity in RAID configuration

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ICCU also distributes some software tools for the automatic creation and validation of metadata in the METS-mdi profile adopted by MuseiD-Italia Digital Library

- PACKAGING TOOL: it creates the packages ready for the generation of METS-mdi metadata after the ingestion of native data (ICCD cataloguing fiches) and of related digital objects. It also creates the digital collections and related descriptions, and groupes digital objects within the collections.
- METS GENERATOR: it generates xml METS-mdi records from the packages resulting from the packaging tool.
- METS VALIDATOR it validates METS-mdi records resulting from the METS generator.

The ingestion is centralized

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- open source allows us to add new functionality and to distribute the platform to other institutions
- the DL is aimed to allow the institutions to publish their collections online
- understand how data can be shared in an effective method
- study a distributed architecture: look at options for storing huge amounts of data, and how Fedora Commons can manage this type of distribution
- deploy the digital platform on cloud computing technology

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MuseiD-Italia provides metadata to CulturaItalia via OAI-PMH

- The new agreement with the content providers includes the opportunity to submit data to Europeana under the terms of the Data Exchange Agreement (DEA) based on the Creative Commons open license 0 (licensed under the Public Domain) to allow the reuse of data as Linked Open Data.
- We need to re-negotiate all the existing agreements between CulturaItalia and his content providers
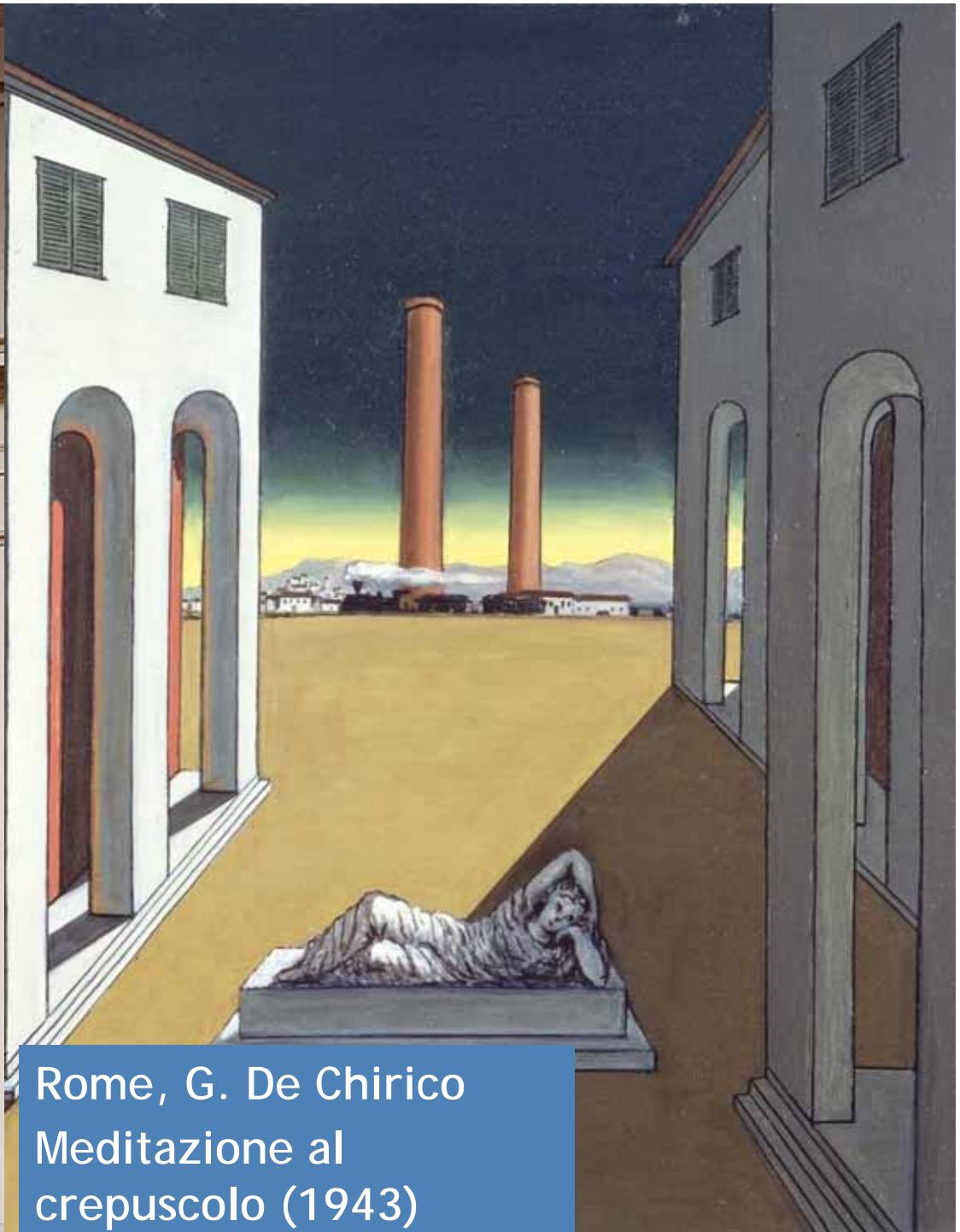
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UFFIZI MUSEUM Sandro Botticelli, la Primavera (1482)

UFFIZI MUSEUM Tiziano, la Venere di Urbino (1538)

Rome, ALTEMPS PALAZZO Ludovisi Throne (ca. 460 BC)

Florence, Michelangelo
David (1501)

Rome, G. De Chirico
Meditazione al
crepuscolo (1943)

ROMAN NATIONAL MUSEUM, Discobolo, (ca. II sec.BC)

Naples, NATIONAL ARCHAEOLOGICA MUSEUM (79 AC)

Thanks!

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Istituto centrale per il catalogo unico delle biblioteche

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