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# *Digital Cultural Heritage: MIBACT national and European projects*

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(MiBACT)  
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DARIAH-EU's 4th General Virtual Competence  
Rome 17-19 September 2014

# Summary

- MiBACT policy for digital culture heritage
- What is CulturalItalia?
- MuseiD-Italia: a portal for Italian museums
- Internet Culturale
- National Library System (SBN)
- European Projects: ATHENA Plus
- Events under the Italian EU Presidency

# National systems managed by the ICCU

- **National Library System (SBN)**

<http://www.sbn.it>

5.800 biblioteche in 85 poli  
13 M di record bibliografici

- **Internet Culturale**

<http://www.internetculturale.it>

23 M record

**Biblioteca digitale biblioteche**

8,5 M record, 20 M digital objects,  
142 biblioteche

- **CulturaItalia**

<http://www.culturaitalia.it>

2,5 M record, 35 partner

**MuseiD-Italia: biblioteca digitale  
musei**

76,000 digital objects,  
350 musei

# ICCU's services for digitisation

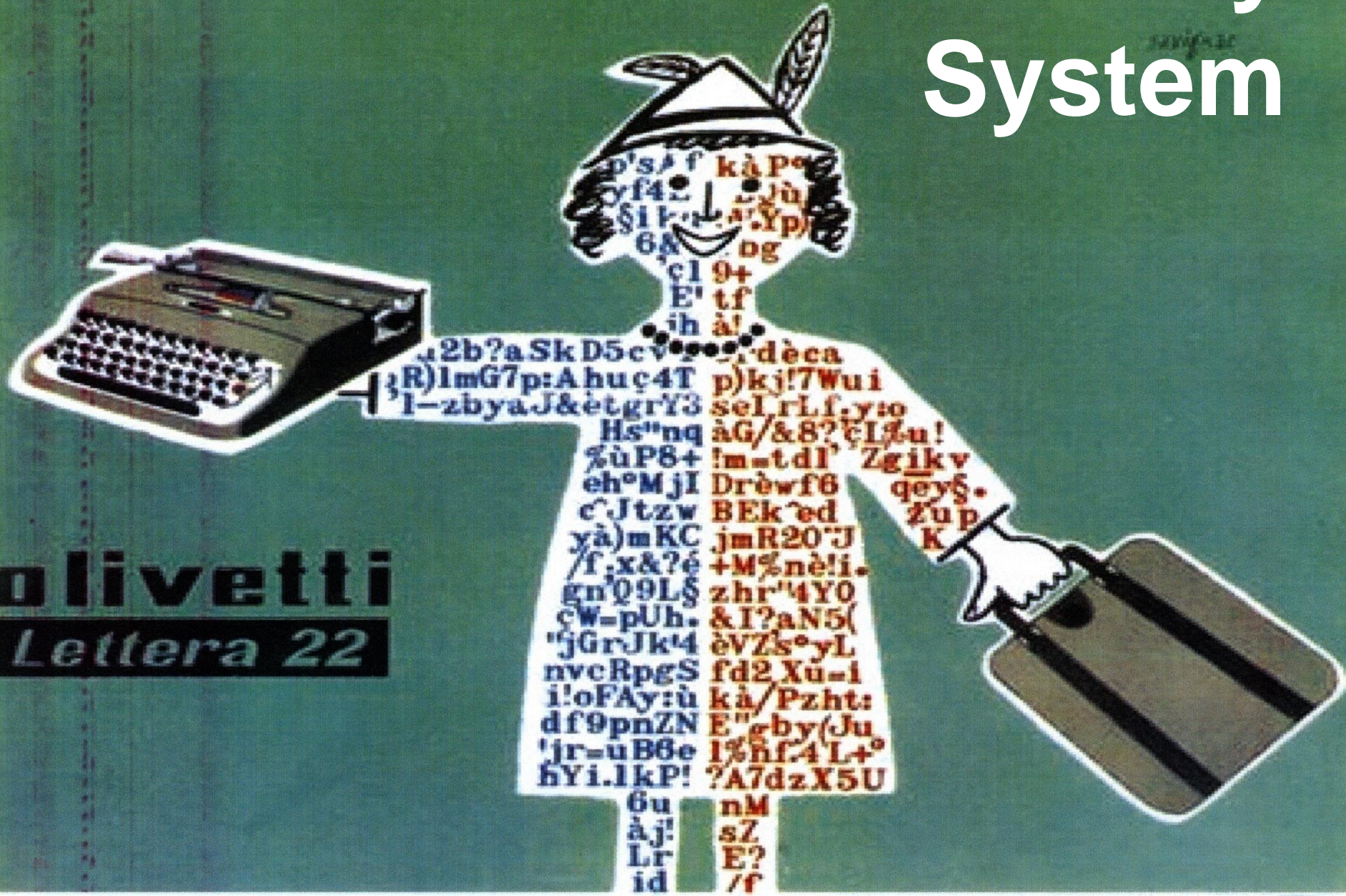


## ICCU:

- coordinates, monitors and promotes activities on digitisation of the Italian libraries heritage
- manages a central repository MagTeca
- works on national rules for cataloguing and digitisation
- disseminates international rules and standards for digitization
- organize training workshops on digital issues
- works in close collaboration with Regions and Universities to promote services for libraries, librarians and citizens



# National Library System



**olivetti**  
**Lettera 22**



# SBN: the National Library Service

[www.sbn.it](http://www.sbn.it)

The **National Library Service (SBN)** is the network of the Italian libraries providing services to libraries and to end-users.

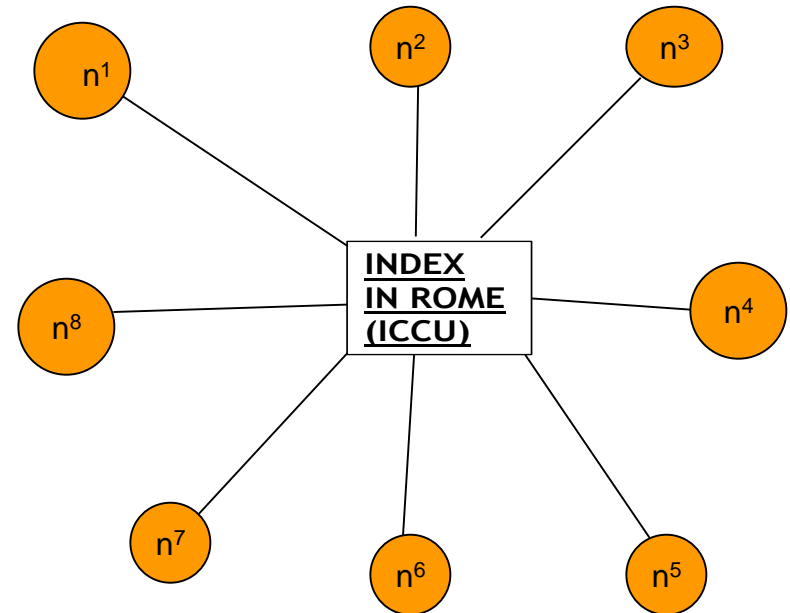
## SBN:

- is a network promoted by the Italian Ministry for Cultural Heritage and coordinated by ICCU
- acts in cooperation with Regions and Universities
- is based on the cooperation among libraries
- online since 1997

OPAC SBN

CATALOGO DEL SERVIZIO BIBLIOTECARIO NAZIONALE

# SBN nodes distribution and architecture



- ❑ 5.800 libraries participants
- ❑ 85 nodes
- ❑ over 13 M bibliographic descriptions
- ❑ 70M holding /locations;
- ❑ OPAC - over 70 M searches/2013

# What is Culturaltalia?



Ferrara, Palazzo Schifanoia



# CulturaItalia, the Italian national aggregator

Cross domain aggregator

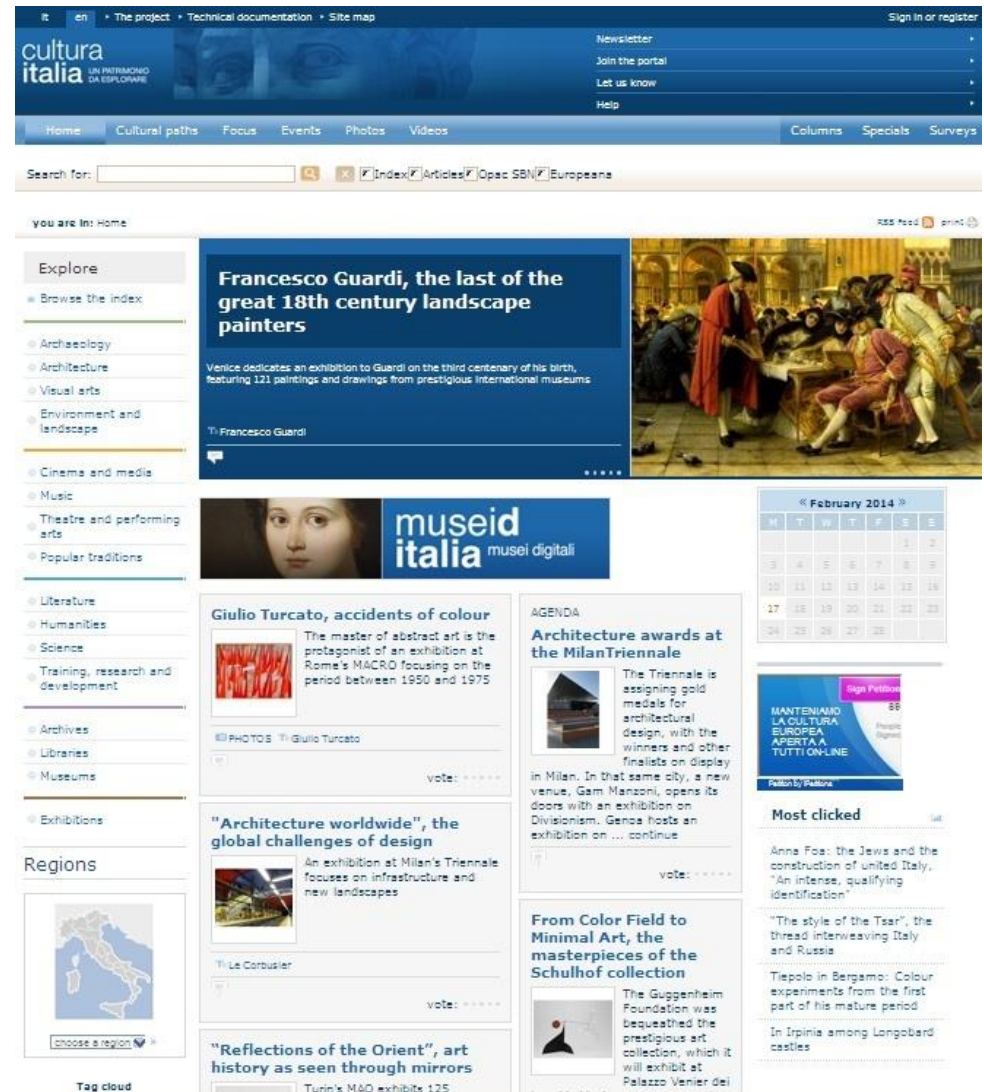
More than 2,4 M of metadata: from museums, photographs, libraries, archives, galleries, exhibits, monuments, videos, discs, etc.

15.000 Editorials  
To discover cultural activities and partner

32 partners included thematic aggregators

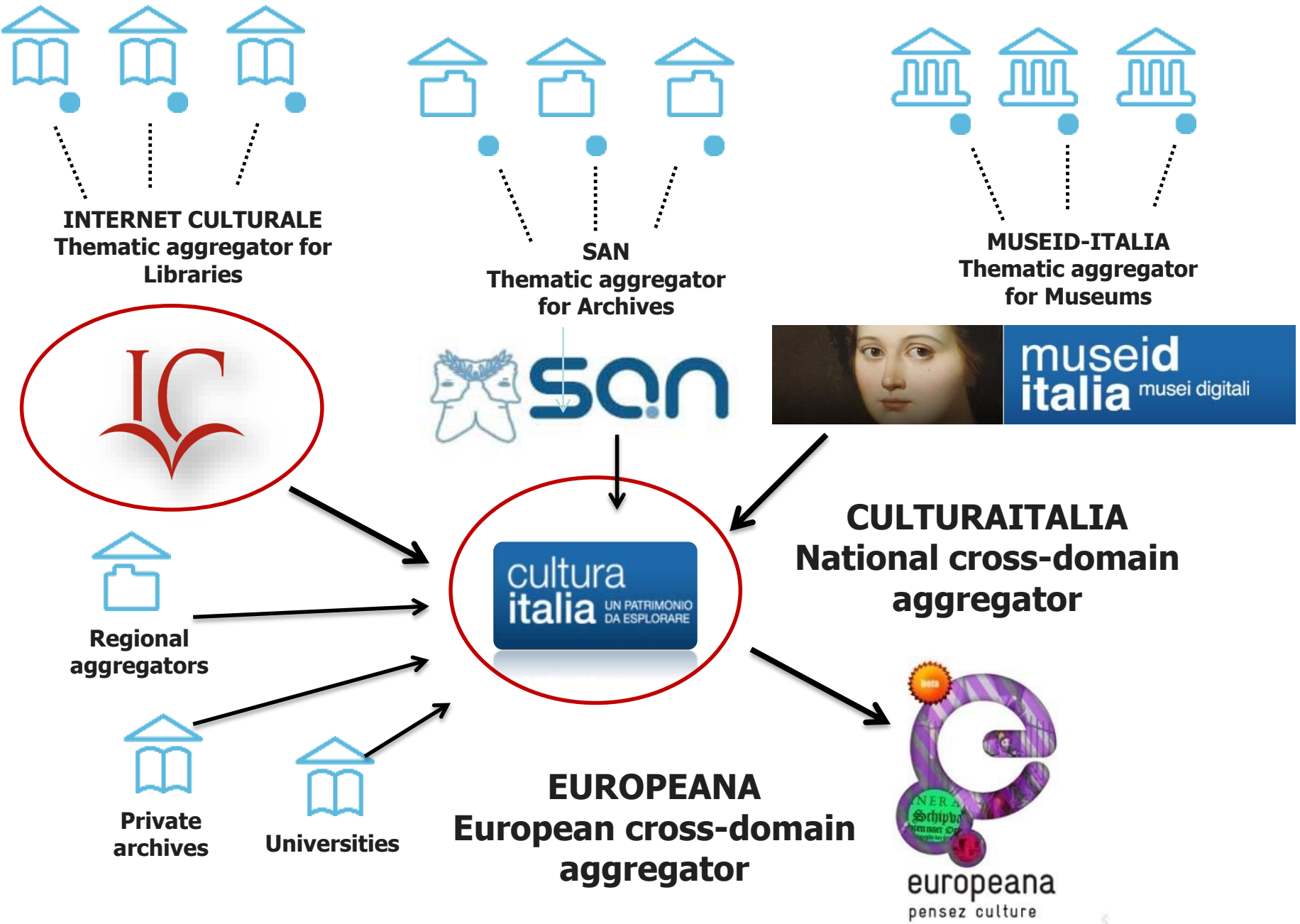
1 M of record in CCO in Europeana (also through Athena aggregator)

Community on Social Network



<http://www.culturaitalia.it>

# CulturaItalia and the aggregation system



# CulturaItalia's content

→ 2,4 million items

- From every domain  
e.g. galleries, libraries,  
archives, museums,  
audiovisual collections
- From all Italian Regions
- From public and private  
Institutions

→ Portal interface available also in  
English

→ 15.000 Editorial contents

→ 990.536 items from Museums

→ 851.686 items from Libraries

→ 485.466 items from Archives

The logo for CulturaItalia is displayed within a white square with a subtle drop shadow. It features the word "cultura" in a blue sans-serif font, with "italia" in a larger, bold blue sans-serif font directly below it. Underneath "italia", the phrase "UN PATRIMONIO DA ESPORARE" is written in a smaller, blue, all-caps sans-serif font.

cultura  
italia  
UN PATRIMONIO  
DA ESPORARE

# Open data & LOD

## dati.culturaitalia.it

- Released in CC0 1.0 Universal Public Domain Dedication licence
- SPARQL endpoint to access RDF metadata structured according to the CIDOC - CRM in the implementation of Erlangen CRM/OWL.
- Data linked to VIAF, GeoNames , PICO Thesaurus in SKOS, DCMI Type vocabulary



It en

cultura italia UN PATRIMONIO DA ESPORARE

dati.culturaitalia.it

Home Text search SPARQL query iSPARQL query OAIprovider

Welcome to the section of CulturaItalia dedicated to Linked Open Data.

The pilot project dati.culturaitalia.it contains open data sets of CulturaItalia released by the project partners with the following licence: "CC0 1.0 Universal Public Domain Dedication".

Currently dati.culturaitalia.it makes available metadata from: Accademia S. Cecilia, Progetto Art&Est, Digibless, ICCU, Internet Culturale, Michael Italia, Polo Museale Fiorentino and Regione Marche, in addition to the Thesaurus PICO.

Data of dati.culturaitalia.it are available both through a SPARQL endpoint, and through an OAI Provider.

The SPARQL endpoint provides access to RDF metadata structured according to the CIDOC - Conceptual Reference Model in the implementation of Erlangen CRM / OWL. Data can be searched over three querying interfaces, corresponding to three sections of dati.culturaitalia.it:

- Text search: here it is possible to perform free text searches over all triples contained in dati.culturaitalia.it.
- SPARQL query: here you can try your hand at a SPARQL query. There are also some examples of queries.
- iSPARQL query: here there is an even more complex querying interface for advanced users.

The SPARQL endpoint makes available also the PICO Thesaurus, encoded according to SKOS, in its various versions. To directly access PICO Thesaurus version 4.3, please, click here.

Our OAI Provider makes available XML or RDF metadata structured according to different schemes:

- oai-dc (xml): OAI-PMH schema adopted by Open Archives Initiative Protocol for Metadata Harvesting
- piao (xml): PICO Application Profile, the CulturaItalia Application Profile.
- edm (rdf): Europeana Data Model, adopted by the portal Europeana
- cidoc (rdf): CIDOC - Conceptual Reference Model in the implementation of Erlangen CRM / OWL

Repository overview

|                                      |                               |
|--------------------------------------|-------------------------------|
| Engine: Virtuoso Open-Source Edition | Version: 6.1.6 Release        |
| Number of statements: 15,048,155     | Number of entities: 5,277,737 |

Linked Open Data: What are they?

Other Linked Open Data in the cultural heritage domain





Internet Culturale





Il mio spazio personale:



[Registrati ora!](#) | [Dimenticata la password?](#)



## Record bibliografici

11.410.947 Opac SBN  
4.092 biblioteche partner, 62 poli  
263.296 manoscritti (Manus)  
63.883 edizioni del '500 (Edit16)

## Biblioteca digitale

7.828.050 file digitali  
56 istituzioni partner  
11 content provider

Ricerca:



☐ Cataloghi



Biblioteca digitale



Sito web



## EVENTI E NOVITA'

21.04.2011

Il Maggio dei libri prende il via!

E' partita il 23 aprile la nuova campagna nazionale di promozione della lettura lanciata dal Centro per il libro e la lettura

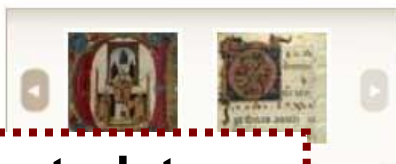
15.04.2011

"L'Italia dei libri": una mostra per i 150 anni dell'Unità

Al Salone (12-16) del nostro attraverso editori e pubblicazioni

**1.175.289 metadati**  
**10 Millions digital files**

## COLLEZIONI DIGITALI



## TEMI



Generalità  
Filosofia e Psicologia  
Religione  
Scienze sociali  
Scienze naturali e Matematica  
Tecnologia (Scienze applicate)  
Arti  
Letteratura  
Storia e Geografia



1861 > 2011 >>  
150° anniversario Unità d'Italia



Una realizzazione:  
**ICCU**  
Istituto Centrale  
per il Catalogo Unico

cultura  
italia  
UN PATRIMONIO DA ESPLORE





## ICCU CATALOGUES INTEGRATED IN IC: 19M

- Opac SBN, 13 M bibliographic records
- Edit16 books from XVI sec 67,000 records
- Manusonline, 250,000 records
- Historical catalogue 215 historical catalogues from 35 libraries): about 6.600.000 records)
- Digital Library over 1.000.000 records /10 M files (jpg, mp3, text) from the digital collections

## THE DIGITAL LIBRARY

- 17 digital repositories
  - 100 libraries participant
- More then 4 millions pages searched in 2013



**10 millions files**



# MuseiD-Italia: a portal for Italian museums

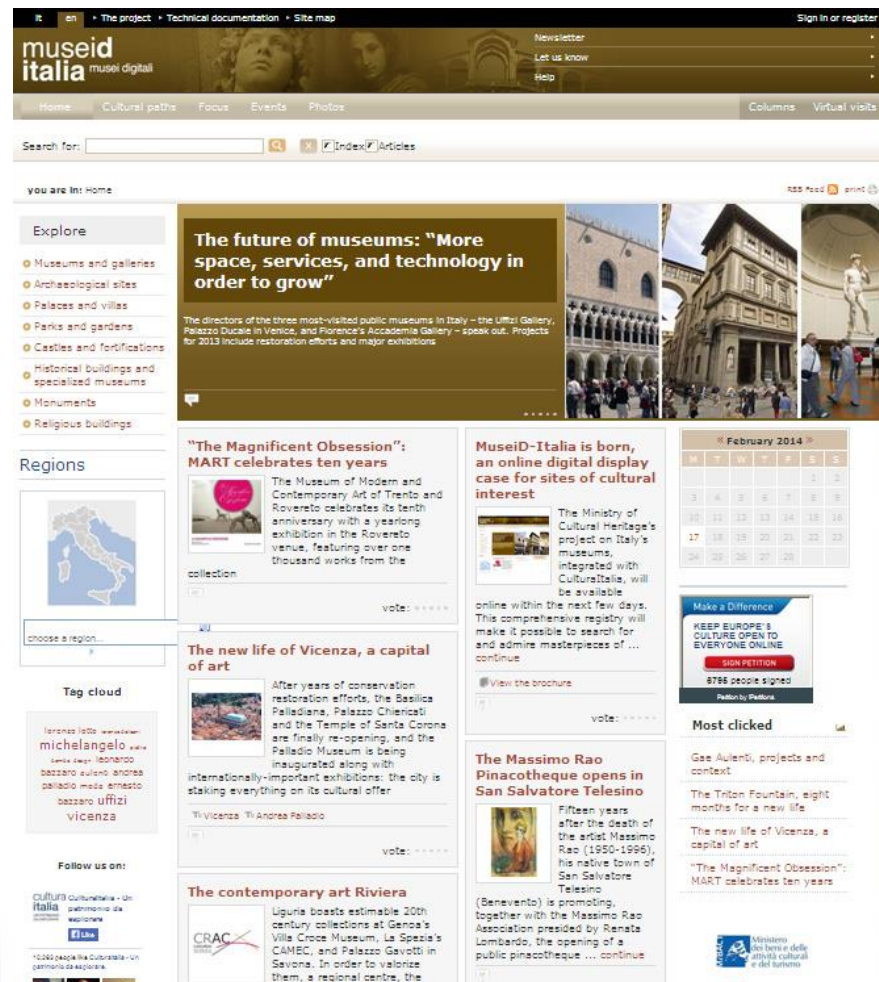
Rome, Galleria Borghese



# MuseiD-Italia, a portal for the Italian museums

MuseiD-Italia is:

- an integrated section of **CulturalItalia**
- a **national register** of museums, monuments and archaeological parks (3.800) interoperable with all regional databases and links to their website
- a **digital library** based on Fedora Commons Framework for the storage and publication of digital objects describing
  - Museums (about 300)
  - Museum collections (650)
  - Digitized Museum objects (95.000)



# MuseiD-Italia / CulturalItalia toward Europeana

en - Il progetto - Documentazione tecnica - Mappa del sito Accedi all'area personale o registrati

**museid italia** musei digitali

Newsletter  
Segnala a MuseiD  
Aiuto

Home Percorsi Focus Eventi News Foto Link Rubriche Visite virtuali

Ricerca per:

sei in: Home > Scheda della risorsa - dal.culturalitalia.it:museiditalia-worl\_63917 RSS Feed stampa


**Esplora**

- Musei e gallerie
- Arete e parchi archeologici
- Palazzi e ville
- Parchi e giardini
- Castelli e fortificazioni
- Edifici storici e musei specializzati
- Monumenti
- Edifici di culto

**Regioni**

**Scheda della risorsa**

« Torna alla lista dei risultati



**Tondo Doni**

**Sacra Famiglia con San Giovanni Battista bambino dipinto**

**Tipo:** Opere; dipinto; Oggetto fisico  
 **Categoria:** Opere d'arte visiva  
 **Autore:** Michelangelo (1475 - 1564)

L'opera, già citata dalle fonti (Anonimo Magliabechiano, 1537-42; A.F. Doni, Vassari), secondo il Poggi (1907) fu eseguita in occasione delle nozze Agnolo Doni-Maddalena Strozzi. Lo stesso studioso scoprì lo stemma Strozzi con le mezzelune tra i festosi intagli della cornice. Il Bocchi (1594) lo ricorda ancora in casa Doni di via S. Niccolò. Il tradizionale tema della Sacra Famiglia viene interpretato dall'autore in modo anticonvenzionale ed ermetico, oltre che per il generale impianto compositivo, per la presenza dei "nudi", che ha comunque un suo precedente iconografico nella "Sacra famiglia" dei Signorelli, conservato agli Uffizi, dove compaiono quattro giovani atleti derivati dalle classiche. La particolare resa

Consulta la risorsa

en - Il progetto - Documentazione tecnica - Mappa del sito Accedi all'area personale o registrati

**cultura italia** UN ISTITUTO DEL MINISTERO DELLA CULTURA

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Ricerca per:


sei in: Home > Scheda della risorsa - dal.culturalitalia.it:museiditalia-worl\_63917 RSS Feed stampa

**Esplora**

- Consulta l'indice
- Archeologia
- Architettura
- Arti visive
- Ambiente e paesaggio
- Cinema e media
- Musica
- Spettacolo
- Tradizioni popolari
- Letteratura
- Scienze umane
- Cultura Scientifica
- Formazione, ricerca e sviluppo
- Archivi
- Biblioteche
- Musei
- Mostre

**Scheda della risorsa**

« Torna alla lista dei risultati




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Home My Europeana Choose a language

 Search   Help

Return to search results < Previous Next >



**Tondo Doni**

Description: buono  
Date of creation: DTZ-DT2G=1600  
XVII.DTS-DT3=1604.DTS-DT3F=1608.DTM=biografia.ADT=1608  
1510 (Production)  
Type: PhysicalObject: TSK=QA; dipinto  
Format: MSC=120; tavola: pittura a tempera  
Subject: opere e oggetti d'arte; AUTN=Biografie  
Michelangelo.AUTN=1475  
1564.AUTN=200000005.AUTN=biografia.  
Identifier: lood:NCT NCTN=2003181; (Network) lood:UO 0900237181 (Network)

Rights: proprietà Stato  
Source: Progetto AnPas-CulturalItalia  
Data provider: Progetto AnPas-CulturalItalia  
Provider: Atene

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- Results in Europeana
- New content
- All providers
- Previous newsletters

The user is guided, via link on the website of the provider



# European projects

The artwork is a dense, multi-layered collage. It features a variety of figures and elements: a man in a hat at the top left, a large, pale face in the center, a woman's face below it, and a figure in a yellow coat in the lower center. There are also animal heads, possibly donkeys or horses, and abstract, torn paper-like shapes. The color palette is dominated by warm tones like yellow, brown, and black, with some cooler blue and red accents. The overall effect is one of chaotic energy and historical or cultural references.

Mimmo Rotella, Rome, Galleria  
Nazionale d'Arte moderna



# European projects for Europeana managed or participated by ICCU



And more...

- Europeana Sounds
- Ambrosia: Food and drinks
- Europeana Awareness
- Europeana v3



# AthenaPlus Project (2013-2015)

Coordinated by ICCU

Network of GLAMs

Consortium: 40 partners from 21 Member S

Ministries and government agencies, GLAMs, aggregators, research centres, SMEs.

Main goal:  
aggregation of 3,6 millions data to Europeana  
80% from museums (about 500 institutions)



[www.athenaplus.eu](http://www.athenaplus.eu)

[info@athenaplus.eu](mailto:info@athenaplus.eu)

**Twitter |** <https://twitter.com/AthenaPlusEU>

**LinkedIn |** <http://linkd.in/19XwWOz>



# AthenaPlus Project (2013-2015)

## **Some AthenaPlus activities for the Museum community**

- **Terminologies and semantic enrichment:**

- A Terminology Management Platform

- A Registry of terminologies for the cultural heritage sector

- GLAMs may upload, edit and share their own terminologies within the community

- **Creative applications for the reuse of cultural content**

- MOVIO updating with innovative tools for education and tourism

# DCH-RP: a Roadmap for the long-term preservation in DCH

A Coordination Action with cultural institutions, e-Infrastructure providers and a wide network of international organisations willing to contribute to the project

## Aims:

- to harmonize data storage and preservation policies in the digital cultural heritage sector at European and international level
- identify more suitable models for the governance, maintenance and sustainability for the infrastructure devoted to preservation of digital content
- Roadmap for preservation
- Registry of tools and services
- Proof of concepts

2012-2014

<http://www.dch-rp.eu/>

# A DP Roadmap for DCH

To develop a commonly agreed **vision of distributed digital preservation architecture relying on e-Infrastructures**

Four areas identify the policy domains that require intervention:

- **Harmonisation of data storage and preservation**
- Improved **interoperability**, including integration of preservation within the **overall workflows for digitisation and online access**
- Establishment of conditions for **cross-sector integration**, transferring knowledge and know-how
- **Governance models** for infrastructure integration, to foster participation in larger e-Infrastructure initiatives, and aggregation and re-use of digital resources
- **Federated access**: the authentication and authorization of the user that is one key aspect of e-Infrastructures (ICCU has joined IDEM, the federated IDentity Management for service access) of GARR the Italian Research & Education Network, NREN))







# Italian EU Presidency

Pellizza Da Volpedo,  
Rome, Galleria Nazionale d'Arte moderna

# Italian EU Presidency

## **Policy on DCH:**

The digitisation and online access to cultural heritage represents a strong opportunity to foster the creative industries and the job creation throughout the reuse of the digital resources.

The Presidency supports the development of Europeana as unique access point to the European cultural heritage, and the national aggregators that play a fundamental role in ensuring core quality content to the European portal.

# Italian EU Presidency

## **Policy on DCH:**

The Presidency aims at pursuing the harmonization of national research programmes in the field cultural heritage through the involvement of all stakeholders: researchers, cultural heritage experts and e-infrastructure providers.

The goal is to develop an integrated data and service platform in the cultural heritage field that allows the interoperability between the various national systems for the management, access, and preservation of digital cultural heritage.



# Italian EU Presidency

Develop cooperation between researchers, e-infrastructure providers and cultural institutions to:

- implement a federated infrastructure devoted to Cultural Heritage and Digital Humanities
- create a Virtual Research Community in the field of DCH and Digital Humanities
- develop recommendations and guidelines for the use of digital infrastructures by cultural institutions

# Italian EU Presidency: International conferences

Rome, 22 September 2014, National Library

- The preservation as an e-infrastructures service: a roadmap for DCH, Final conference of DCH-RP project

<http://www.dch-rp.eu/index.php?en/135/dch-rp-final-conference>

Rome, 2 October 2014, National Library

- The re-use of digital cultural content in education, tourism and leisure: an opportunity for cultural institutions creative industries an investment for the future, organized in cooperation with Europeana and ATHENAPlus project

Rome, 13-14 November 2014, National Library

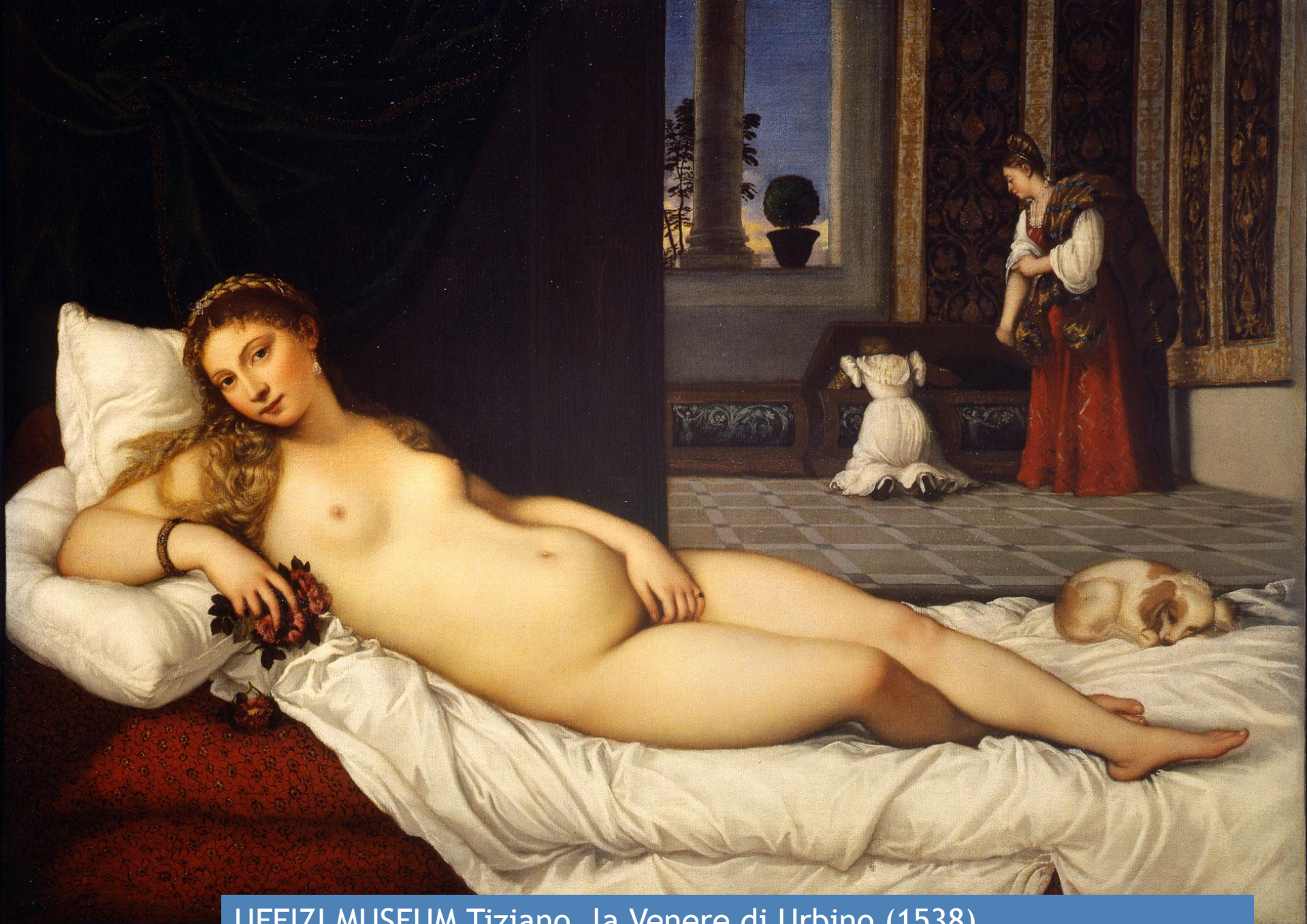
- Research infrastructures and e-infrastructures for DCH organized in cooperation with ARIADNE project





UFFIZI MUSEUM Sandro Botticelli, la Primavera (1482)





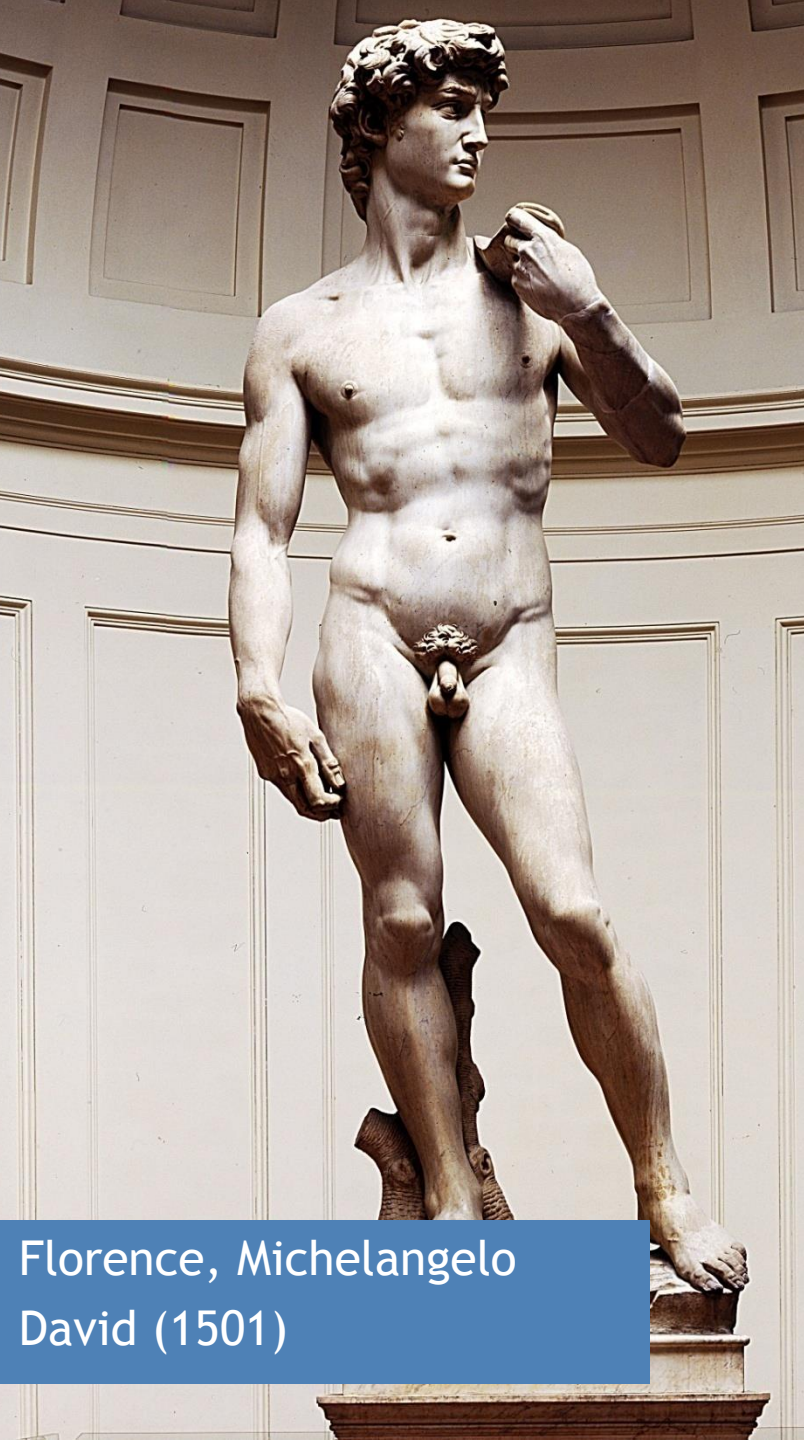
UFFIZI MUSEUM Tiziano, la Venere di Urbino (1538)





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 ARCHAEOLOGICAL MUSEUM (79 AC)

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*Thanks!*

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