

- History and Historic Photographic Technologies

**Management and use of digital images; the ICCD experience and the ongoing projects.**



## LINKED DATA

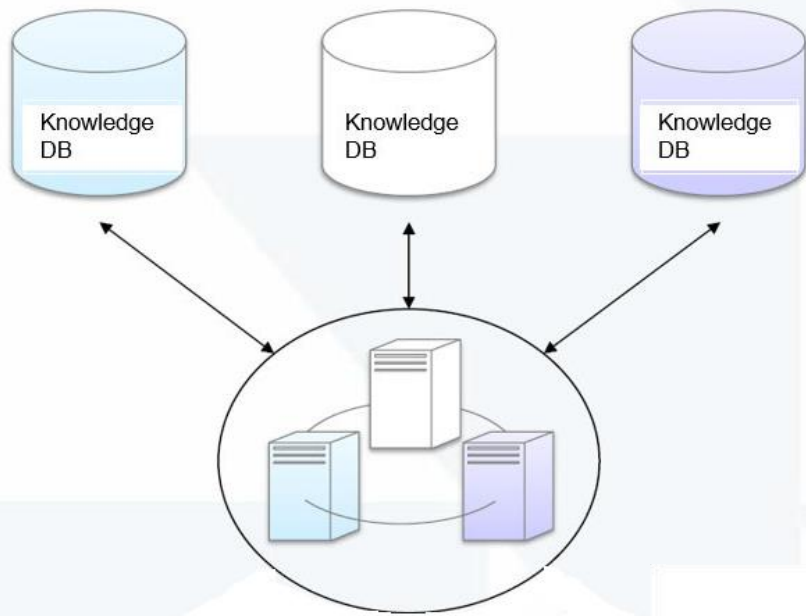
- ★ On the web, open license
- ★ ★ Machine-readable data
- ★ ★ ★ Non-proprietary format
- ★ ★ ★ ★ RDF standards
- ★ ★ ★ ★ ★ Linked RDF

IS YOUR DATA 5 ★ ?

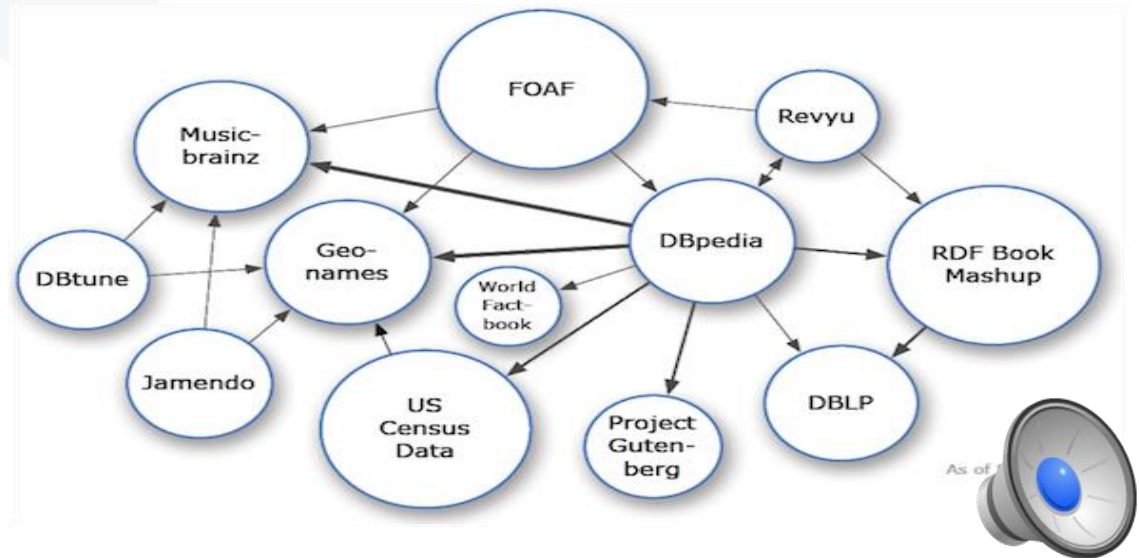
## Semantic web and Linked Open data

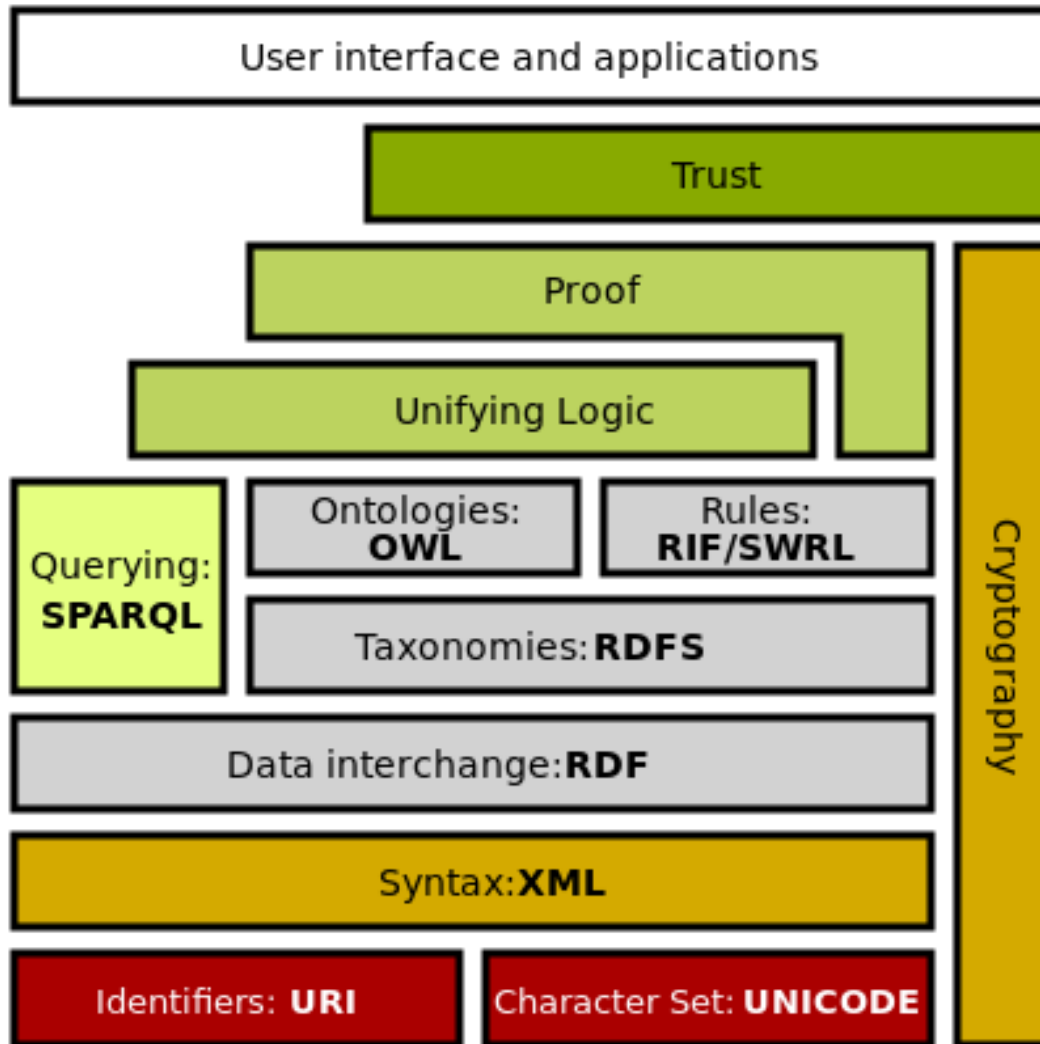
In this context the adjective «semantic» is to be interpreted as “processable by software”. Therefore, it does not refer to its linguistic meaning. Data semantics refers to the information needed by the software to be able to accurately interpret and use data.





## Semantic web and Linked Open data From Database to Semantic Web





## Semantic web and Linked Open data From Database to Semantic Web

An **ontology** is a **formal and agreed** representation of concepts and mutual correlations within a certain branch of knowledge. It describes and defines terms and concepts relative to a branch of knowledge and the correlations between them.



## The vision

Creating foundations for a  
***knowledge graph***  
of the Cultural Heritage

**Enhancing data on cultural heritage, correlation of  
data on the web and for the web**

The philosophy of Linked Open Data is based on the idea of using every resource available online, and **connecting them through mechanisms of similarity or equality**, facilitating the **expansion of the informational heritage**.



## Linked Open Data

- STEP # 1 PREPARE STAKEHOLDERS
- STEP # 2 SELECT DATASET
- STEP # 3 MODEL DATA
- STEP # 4 SPECIFY AN APPROPRIATE LICENCE
- STEP # 5 CREATE URI FOR CONNECTED DATA
- STEP # 6 USE STANDARD VOCABULARY
- STEP # 7 CONVERT DATA
- STEP # 8 ENSURE *MACHINE ACCESS* TO DATA
- STEP # 9 DISCLOSE NEW DATA SETS
- STEP # 10 RECOGNISE THE SOCIAL CONTRACT

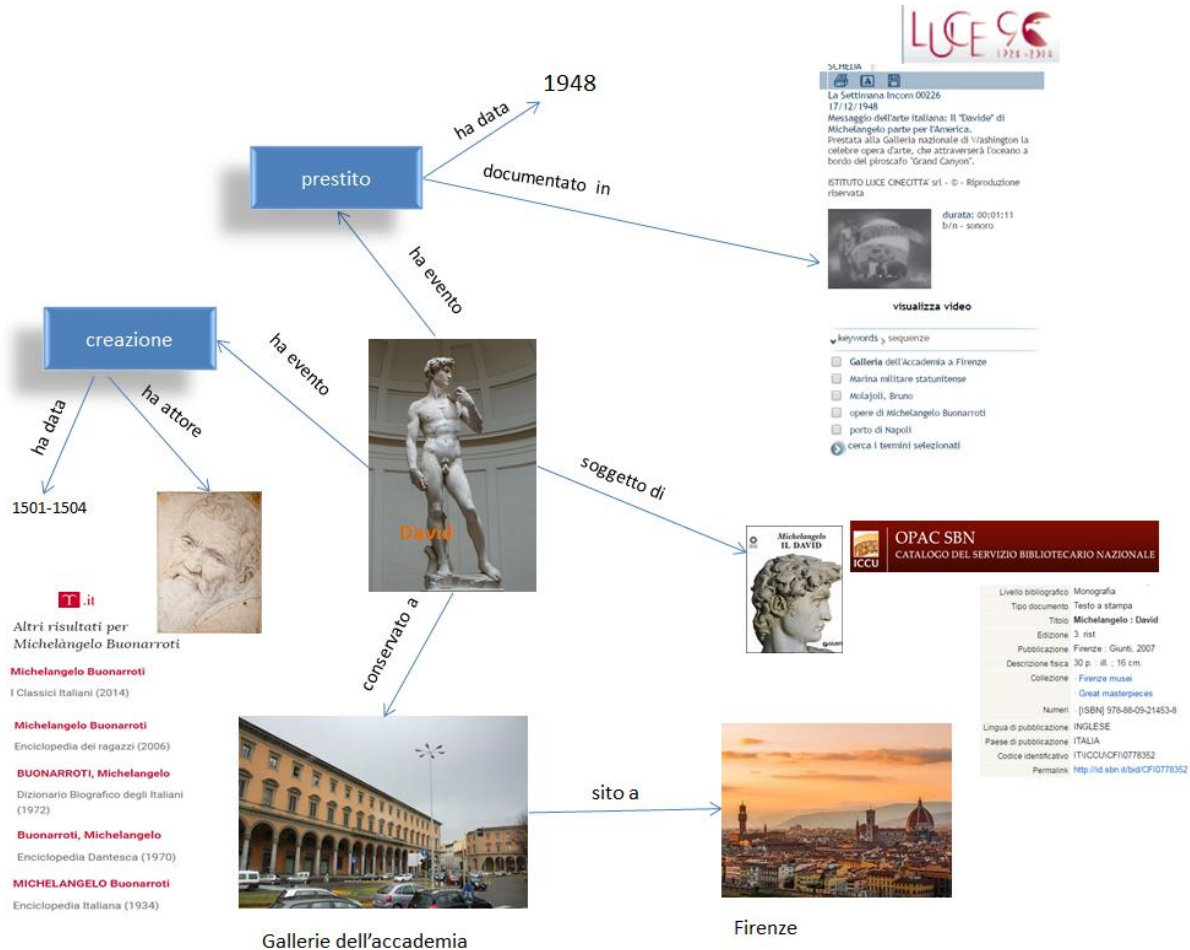
Best Practices for Publishing Linked Data

[W3C](#) Working Group Note 09 January 2014

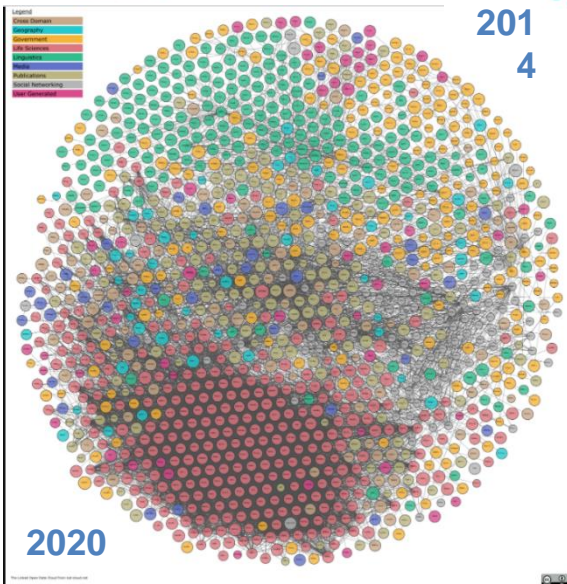
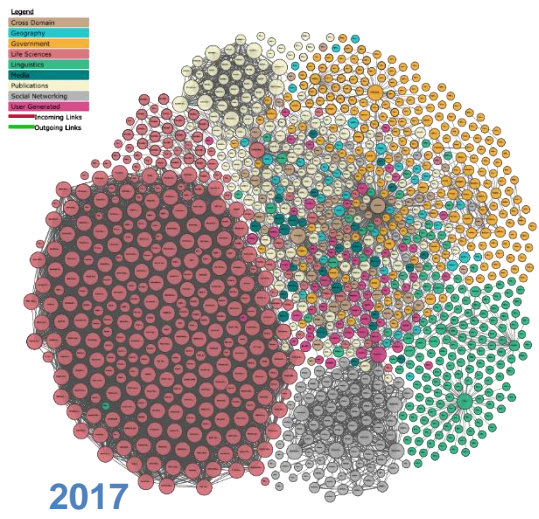
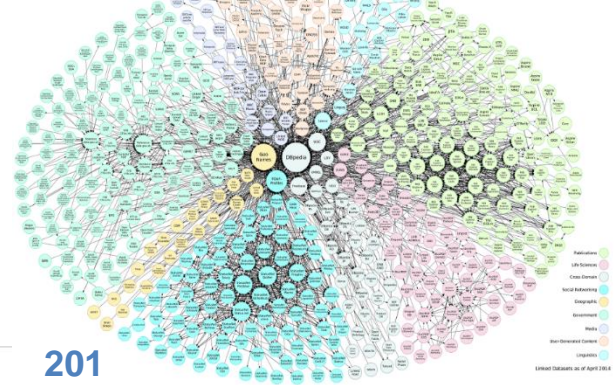
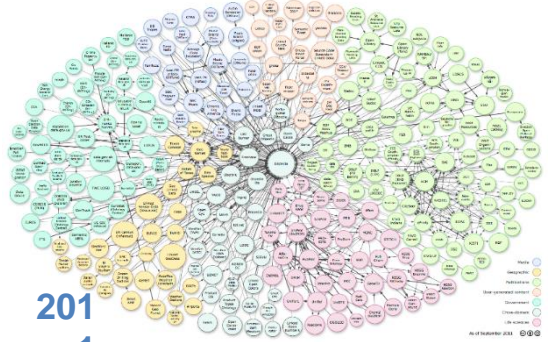
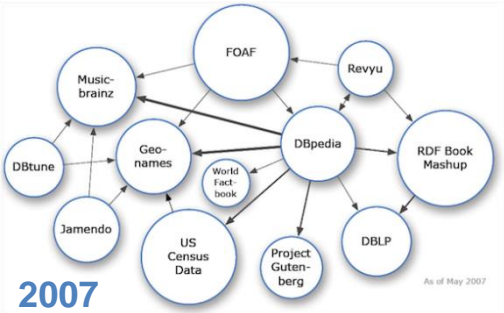
1. “open”  concept of open data access to favour its transparency and its access to anyone interested
2. “linked”  introduces the main «*web of data*» technologies



# Advantages of Linked Open Data



## The linked data cloud

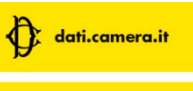
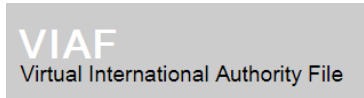
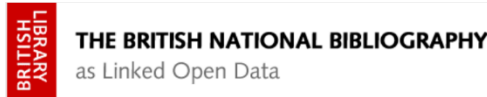


### Expansion of Linked Data Cloud (2007-2020)





# The linked data cloud of Culture



## ArCo project



Starting from 2017 ICCD coordinates, with a view to promote and share knowledge, a **project in partnership with the Institute of Cognitive Sciences and Technologies (ISTC) of CNR** (National Research Council of Italy). It has the aim of creating an **ontology network** able to represent the complexity of cultural heritage and fully enhance its “informational depth”.



## ArCo and the «new» Italian cultural heritage catalogue: innovative planning

In 2018 ICCD announces a “**Call to Co-Creation**» with the purpose of identifying **innovative access and consultation modalities** of the Catalogue







In 2020 the new Catalogue website is published, entirely based on linked open data. In 2021 the new website dedicated to the photographic archives of the Ministry will be published.







Catalogo generale dei Beni Culturali

Gli autori VEDI TUTTI >

|   |  |  |   |
|---|--|--|---|
|  <p><b>Willi Nowak</b><br/>1886/ 1977</p> <p>1 opere</p> |  <p><b>John Christoforou</b><br/>1921/</p> <p>1 opere</p> |  <p><b>Johann Karl Hedlinger</b><br/>1691/ 1771</p> <p>2 opere</p> |  <p><b>Marieschi Jacopo Detto</b><br/>Jacopo Di Paolo<br/>1711/ 1794</p> <p>11 opere</p> |
|---|--|--|---|

I luoghi della cultura VEDI TUTTI I LUOGHI E LE LOCALIZZAZIONI >

|   |   |   |   |
|---|---|---|---|
|  <p><b>Museo di Paleontologia e Preistoria</b><br/>Piero Leonardi</p> <p>15 opere</p> |  <p><b>Museo Civico Mons.</b><br/>Domenico Mambrini</p> <p>84 opere</p> |  <p><b>Museo archeologico Nazionale di Metaponto</b></p> <p>1086 opere</p> |  <p><b>Museo Archeologico Nazionale delle Marche</b></p> <p>1 opere</p> |
|---|---|---|---|

<https://www.catalogo.beniculturali.it/>



## Catalogo generale dei Beni Culturali



### Gli autori

VEDI TUTTI >



Pierre Mignard  
1612/ 1695



Johann Heinrich Ramberg  
1763/ 1840



Francesco Squarcione  
1397/ 1468



Gerrit Dou  
1613/ 1675

RECORDED WITH  
SCREENCAST 24 opere  
MATIC

1 opere

4 opere

15 opere

<https://www.catalogo.beniculturali.it/>