New itineraries for a geography 3.0 of the Open knowledge in archaeology

Arjuna Cecchetti
Progetto SITAR della SSBAR
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

*New itineraries for a geography 3.0 of the Open knowledge in archaeology*

Archaeological field research
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

*New itineraries for a geography 3.0 of the Open knowledge in archaeology*
Archaeological field research

- Topography
- SU recording forms
  - Overlay
  - Photos
  - Daily report
- Archaeological reliefs
- Final report

Data recordings and analysis
- Study of materials
- Chronology
- Comparisons
- Inter-disciplinary study
- Historical research
- Interpretation
- Archaeological reconstruction
Archaeological field research

- SU recording forms
- Overlay
- Photos
- Daily report
- Archaeological reliefs
- Final report

Data recordings and analysis

- Study of materials
- Chronology
- Comparisons
- Scientific publication
- Inter-disciplinary study
- Historical research
- Interpretation
- Archaeological reconstruction

Opening the Past 2013 – Pisa, 13, 14, 15 giugno

New itineraries for a geography 3.0 of the Open knowledge in archaeology
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

New itineraries for a geography 3.0 of the Open knowledge in archaeology

Open data in archaeology
- SU recordings forms
- Overlay
- Topography
- Materials records
- Quantification
- Report

Open access in archaeology
- Journal
- Photos
- Final excavation report
- Archaeological reconstruction
- Research monograph
- Thesis
- Conference proceedings
- University textbooks
Open data geography

**SITAR** – il Sistema Territoriale Archeologico della Soprintendenza Speciale per i Beni Archeologici di Roma

- First SDI of MiBAC dedicated to the archaeological data of a Soprintendenza
- Institutional approach to archaeological open data
- Characterized by a Role-based access control policy
- Viewing and consultation of unified and systematized, geographical and archaeological data
- Dataset directly stored, validated and protected by the Soprintendenza
- Tracking that allows access to the original raw data in agreement with RBAC policy

**MOD – MAPPA Open Data**

- First archive of archaeological open dataset in the Italian archeology
- Dataset shared with CC-BY-SA license
- The dataset include raw data, and archaeological report, and in these case the authors are protected by the apposition of a DOI code

**CULTURA ITALIA**

- Italian provider of cultural open data for EUROPEANA

**Progetto Miranduolo del LIAAM** – Laboratorio di Informatica Applicata all'Archeologia Medioevale

- Live excavation project: raw data, archaeological reliefs, images with notations and report, daily shared on the project's Facebook page
- Stored and systematized in the official site
- Radical approach to open knowledge, with raw data sharing and also of the whole process of building data

Opening the Past 2013 – Pisa, 13, 14, 15 giugno

*New itineraries for a geography 3.0 of the Open knowledge in archaeology*
Open access geography

**Fasti on Line**
- Archive of archaeological reports
- Quality guaranteed by a peer review process
- Reports acquirable in free format
- Reports can be researched also by a map

**Archeologia e Calcolatori**
- Scientific journal that supports the Open Access Initiative
- Attention to open knowledge in archaeology

**Bibar**
- Medieval Archaeological library of the LIAAM
- More than half of the texts are open access
- All texts are fully readable online

**MapPapers**
- Open access archive dedicated to the MAPPAproject publications

**IpoTesi di Preistoria**
- Open access scientific journal dedicated to prehistory
- Quality guaranteed by a peer review process

**DOAJ**
- International provider of OA Journals
A multicentric geography
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

*New itineraries for a geography 3.0 of the Open knowledge in archaeology*

**A multicentric geography**

- Soprintendenze
- University
- Museum Galleries Library
- Projects and European projects
- International cooperations
New itineraries for a geography 3.0 of the Open knowledge in archaeology

A multicentric geography
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

New itineraries for a geography 3.0 of the Open knowledge in archaeology

A multicentric geography

New infrastructures of semantic web

EUROPEANA CONNECT – ARIADNE
Towards a geography 3.0 for archeology

- Multicentric (or multiethnic) geography
- Open and easily approachable
- Systematized and shared standards
- Rich in contents
- Contents must be (or should be) intelligible, coherent, valid and protected
Possible routes of archaeological contents in the semantic web

Trace the open data up to related open access

and the way back, from scientific publications to raw open data

From diverse open access originate new bibliographies organized around common archaeological contents
systematization of shared knowledge base and reuse of data in the semantic web: the social option

“social option” with folksonomy and retagging tools

“wiki option” as open access publications with comments and new user contributions

Thinking to new open contents as annotated bibliographies

Yes

Bad

Good
Thinking to new archaeological contents in the web, researchable on a digital geography, where it is possible to find:

➢ archaeological sites and surveys, their remains and dataset over there, and related open access publications over all

➢ the dataset repositories, located on the coordinates of the centers that generate archaeological data, and the virtual offices of the journals and open access archives and so on
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

**New itineraries for a geography 3.0 of the Open knowledge in archaeology**

webGIS SITAR: [http://webgis.archeoroma.beniculturali.it/sitar](http://webgis.archeoroma.beniculturali.it/sitar)

MAPPA Project: [http://mappaproject.arch.unipi.it/](http://mappaproject.arch.unipi.it/)


Archeologia e Calcolatori: [http://soi.cnr.it/archcalc/](http://soi.cnr.it/archcalc/)

BibAr: [http://www.bibar.unisi.it/](http://www.bibar.unisi.it/)

IpoTESI di Preistoria: [http://ipotesidipreistoria.unibo.it/index](http://ipotesidipreistoria.unibo.it/index)

Europeana Connect: [http://www.europeanaconnect.eu/](http://www.europeanaconnect.eu/)


Cultura Italia: [http://dati.culturaitalia.it/?locale=it](http://dati.culturaitalia.it/?locale=it)

DOAJ: [http://www.doaj.org/](http://www.doaj.org/)
Opening the Past 2013 – Pisa, 13, 14, 15 giugno

*New itineraries for a geography 3.0 of the Open knowledge in archaeology*

---

Open Data

Open Access

Open Geography 3.0 of archaeological sites and researches