



# **SITAR e Open Data.**

## **Per una democrazia della conoscenza archeologica di Roma**

**Mirella Serlorenzi**

Responsabile per il Museo Nazionale Romano delle sedi di Crypta Balbi e Palazzo Massimo  
Responsabile Progetto *SITAR* (SSABAP)



# Rome and “the power of ruins”





# Rome and “the power of ruins”



# Letter to Leo X about the restoration of the monuments of ancient Rome, 1519





# Italian historic centres: “a real open-air museum”





# Preventive Archaeology in Italy



*Direzione Generale educazione e ricerca  
Elenco degli operatori abilitati alla redazione del documento di valutazione  
archeologica nel progetto preliminare di opera pubblica*

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## L'ELENCO

L'Elenco degli operatori abilitati alla redazione del documento di valutazione archeologica nel progetto preliminare di opera pubblica:

- è articolato nelle sezioni I e II secondo il regolamento
- non è un albo professionale degli archeologi e non interferisce con altre attività professionali

Leggi

## Archeologia Preventiva

Elenco degli operatori abilitati alla redazione del documento di valutazione archeologica nel progetto preliminare di opera pubblica



# Archeo SITAR Project Web Site

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## SISTEMA INFORMATIVO TERRITORIALE ARCHEOLOGICO DI ROMA

Conoscenza archeologica aperta per  
una ricerca innovativa e  
responsabile

*Open archaeological knowledge  
towards innovative and responsible  
research*

[PROGETTO](#)[PARTECIPA](#)[OPEN SITAR](#)[SITAR MAPs](#)

Publicata la prima versione  
delle Linee guida del SITAR

[leggi](#)

"SITAR LIS", il SITAR nella Lingua  
dei Segni Italiana

[leggi](#)

Il Convegno Internazionale di museologia  
"Museum di Chronos, Kairòs, Alon - il  
tempo del museo"

Simposio Internazionale "CULTURAL  
HERITAGE & DEVELOPMENT INITIATIVES"

Il SITAR al JIAP 2016 - Journées  
informatique et Archéologie de Paris

Presentazione del video in LIS del SITAR

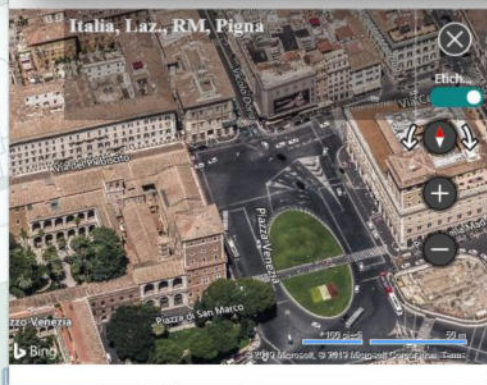
[www.archeositarproject.it/#home](http://www.archeositarproject.it/#home)

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



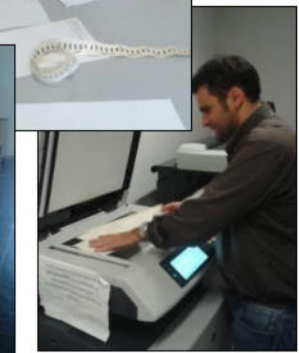
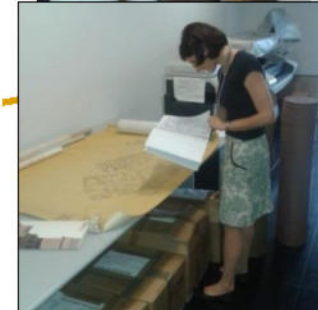
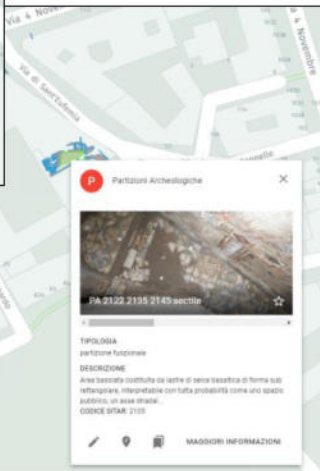
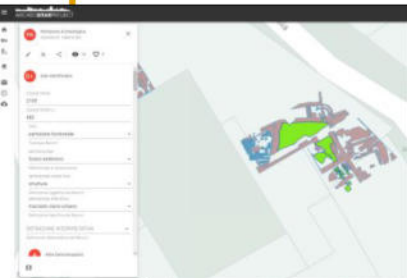
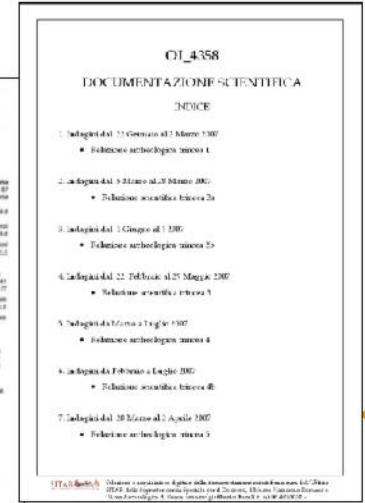
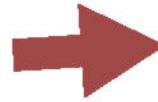
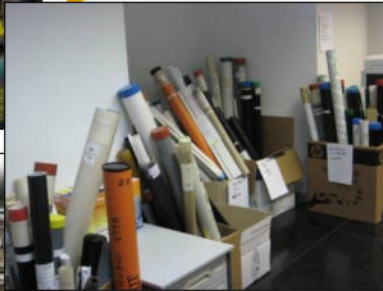
# Archeo SITAR Project Web Site

ARCHEO **SITAR** PROJECT





# From the archaeological data to the digitalization





Core samples  
Archaeological excavations

Historical Sources  
Epigraphic documents

**REPOSITAR  
2.1**

GPR  
Resistivity  
Magnetometry  
Remote Sensing

Scientific publications  
Archival documents



## Logical Level

- **OI**  
Origin of information
- **PA**  
Archaeological part
- **UA**  
Archaeological Unit
- **DT**  
Protection Policy

## Data Analysis

- Information
- Description
- Interpretation
- Contextualization of scientific data

## Outcome

- Source of data
- Analysis of data
- Interpretation of data
- Protection and safeguard





## Level 1

### Origin of Information

This record (OI) collects all administrative, topographical and technical data of the archeological and / or geo-archeological finding, and identifies the area where the investigation is. The record stores all the information related to the archaeological investigation, for example: the research director and his/her collaborators, the costs, the methodology of research, the reliability for the localization of the investigation area, a short description of the archaeological work and the bibliography.







## Level 2

### Archaeological Part



Archaeological Part (PA) comes directly from its OI, this is the scientific description of the archaeological findings even if fragmentary, always identified by the binomial of chronological and functional criteria. Recording PA allows to check the current status of the archaeological investigations and to start an early analytical study of the chronological phases.







## Level 3

### Archaeological Unit



This level (UA) allows to synthesize the many archeological data from the PA records and to give these findings an interpretation of the historical and topographical context. The UA tells the story of ancient monuments or archaeological sites, their original and modern area, describing the construction, the abandonment and the degradation of each monument, through all the historical changes.





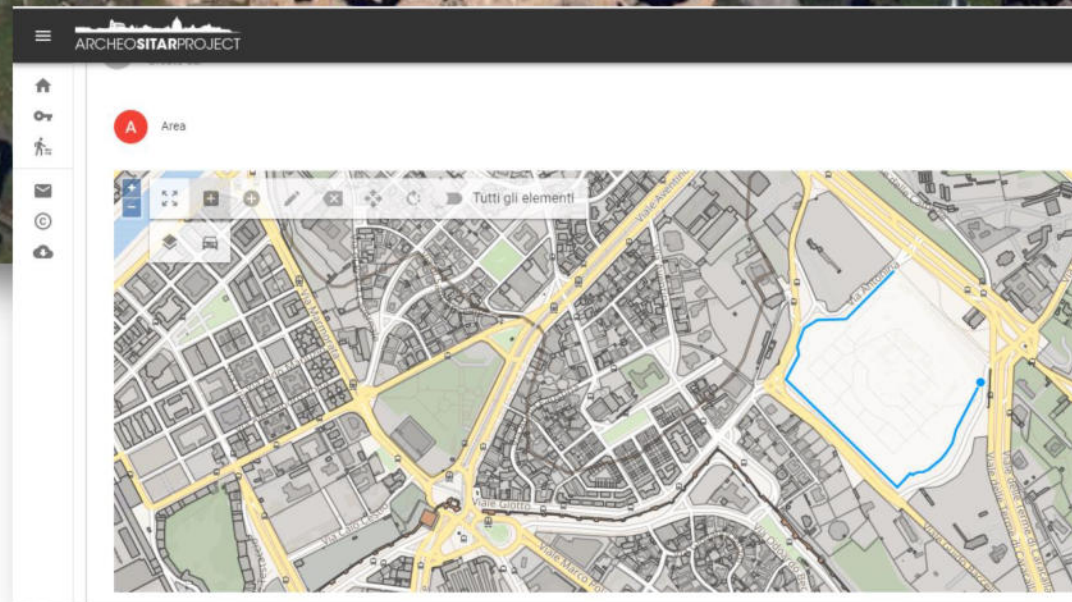
# Level 3

## Archaeological Unit

### SYNTHESIS OF ARCHAEOLOGICAL INTERPRETATION



The archaeological units contribute to the identification of historical and topographic sets that have formed the different **historical landscapes** of the city.





# Translation of the logical SITAR infrastructure in GeoUML

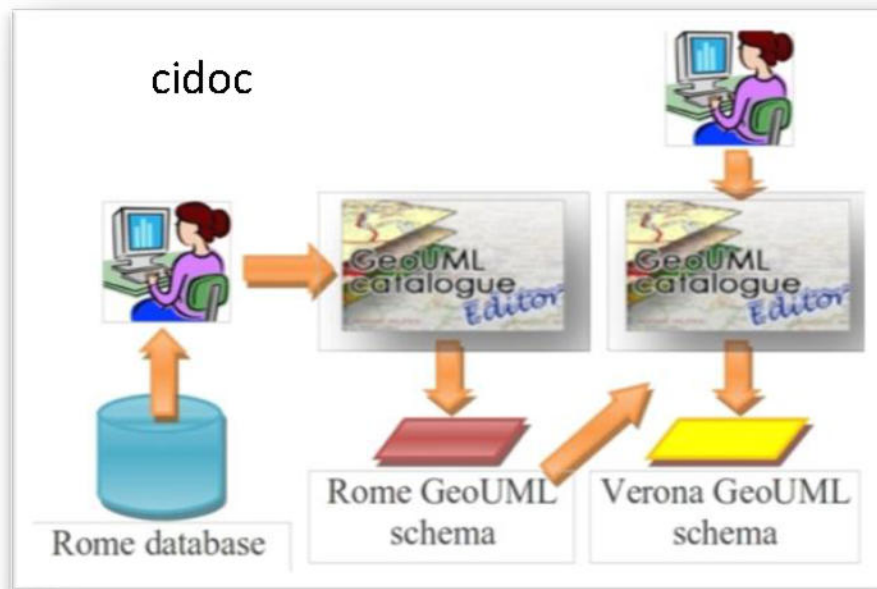


## Il progetto ARIADNE

Advanced Research Infrastructure for Archaeological  
Data Networking in Europe



cidoc



ARCHEOSITARPROJECT

SITAR data model alignment with  
**CIDOC CRM** concepts within **ARIADNE**  
European Project

# SITAR: some significant numbers



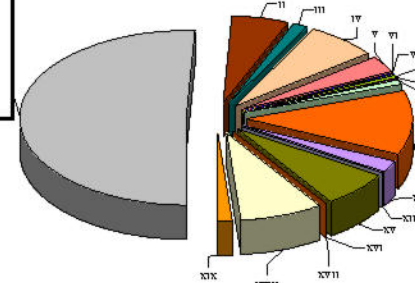
"Well, get some new numbers or I'm getting a new numbers guy."

[http://www.condenaststore.com/-sp/Well-get-some-new-numbers-or-I-m-getting-a-new-numbers-guy-New-Yorker-Cartoon-Prints\\_i8546595\\_.htm](http://www.condenaststore.com/-sp/Well-get-some-new-numbers-or-I-m-getting-a-new-numbers-guy-New-Yorker-Cartoon-Prints_i8546595_.htm)

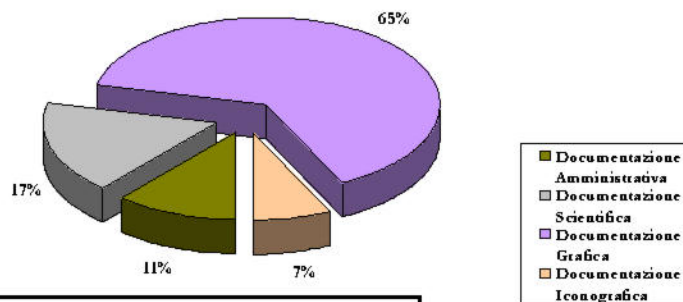
## Origin of Information

5 300

Origini informative



Documentazione informatizzata



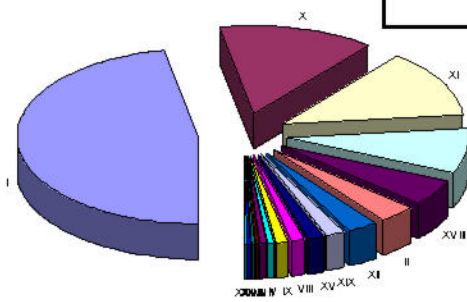
**Files and docs  
attached to OI, PA  
and UA**

**200 000**

## Archaeological Part

17 000

Partizioni Archeologiche



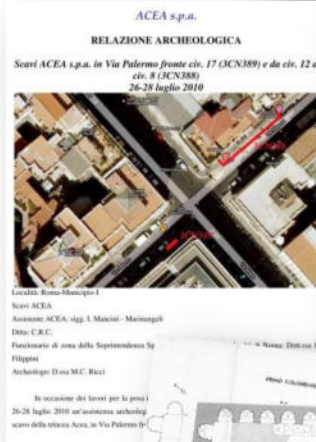



# About us

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Arjuna Cecchetti  
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


# Before...



12	13	PIRE SARNO SARNO	SONDAGGIO S 1	QUOTA (p.s. in m.) S 1	Pag. n° 1/2
		TIPO PERFORAZIONE Carotaggio continuo		 <b>Land</b>	
		INCLINAZIONE			
LATO Lato		VERTICITÀ Verticale			
GRADO DI DISTURBO CAMPIONE		LUNGHEZZA SONDAGGIO 10.50 m			
GEOLOGICO/ARCHEOLOGICO Pianura/Bosco					

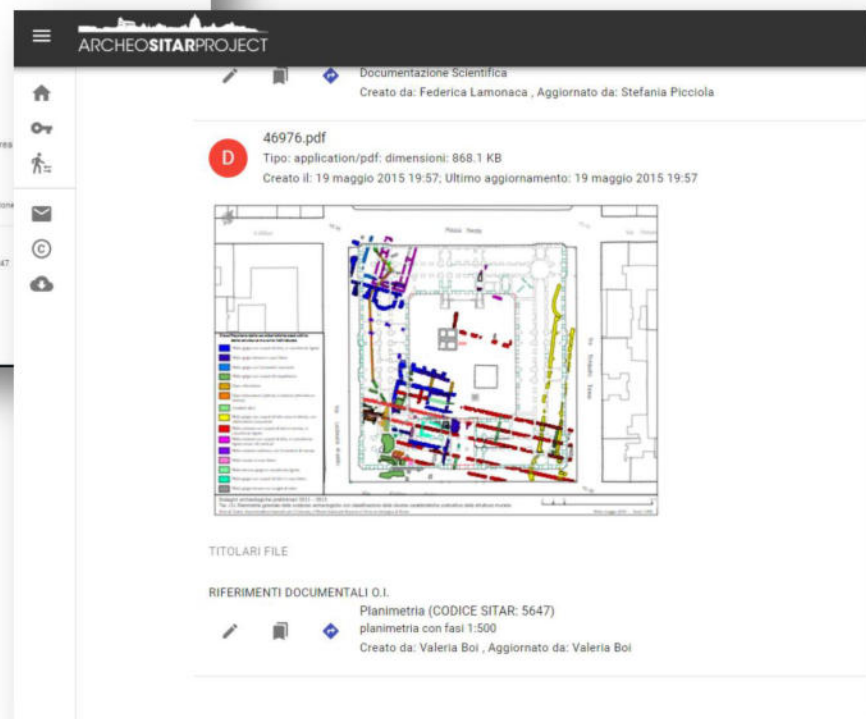
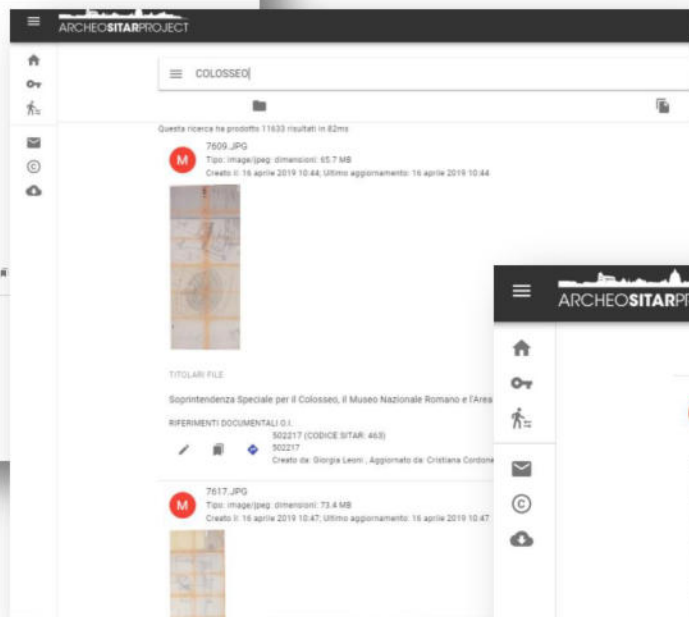
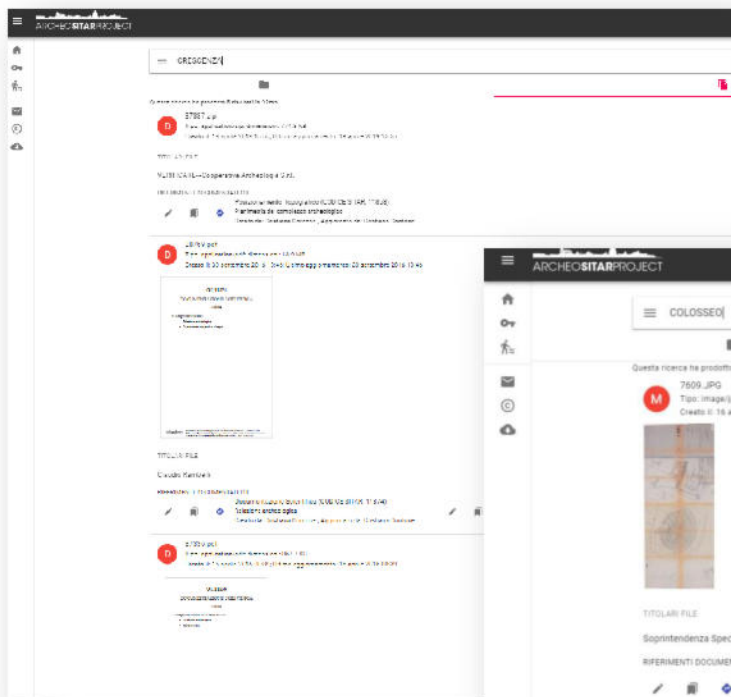
  

PROGETTO	STRATIGRAFIA GEOLOGICA	STRATIGRAFIA ARCHEOLOGICA	FALDA	NOTE
	Profilo naturale	Profilo naturale con materiali archeologici stratigrafici		PA 1 Boile
	Profilo naturale con materiali archeologici stratigrafici	Profilo naturale con materiali archeologici stratigrafici		PA 2 Livelli archeologici
	Profilo naturale con materiali archeologici stratigrafici	Profilo naturale con materiali archeologici stratigrafici		PA 3 Livelli archeologici





...and after!

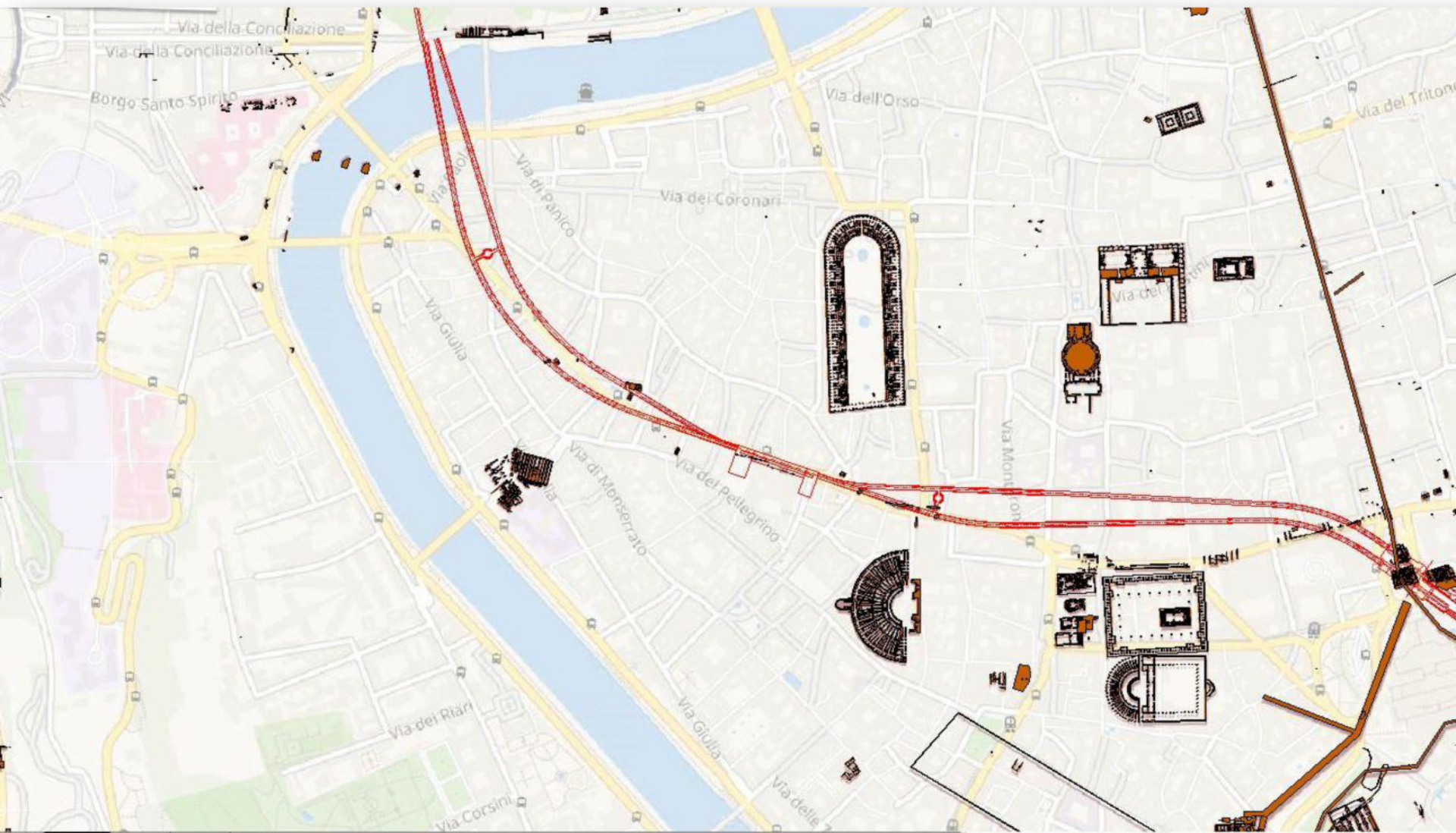


# The dialectic between cultural heritage protection and urban planning

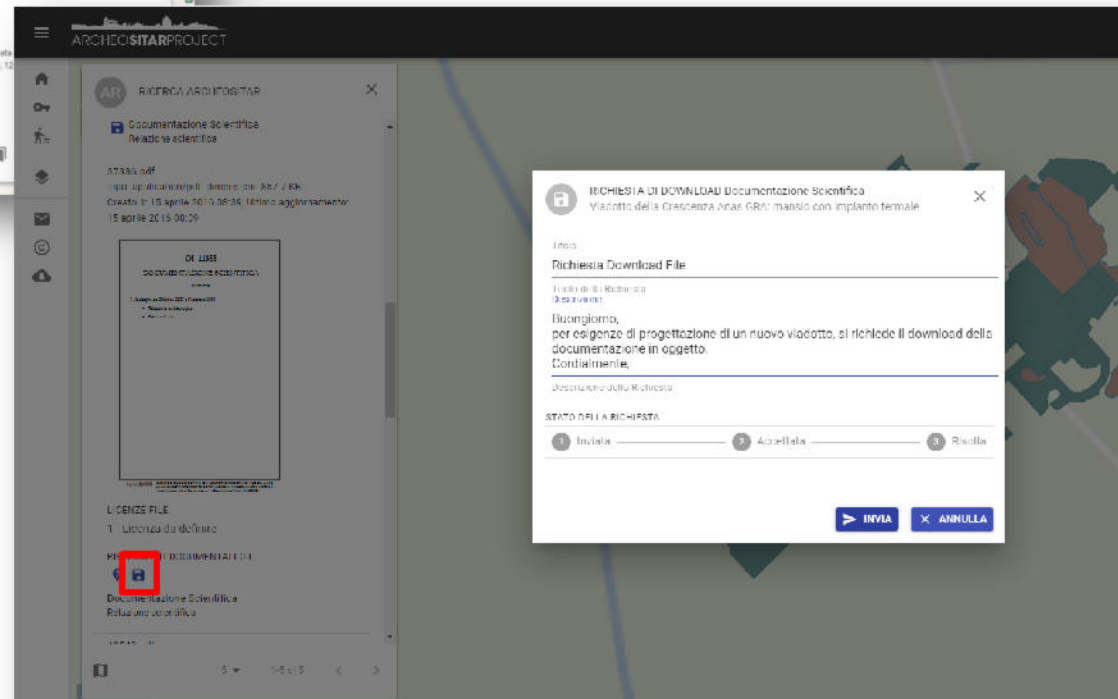
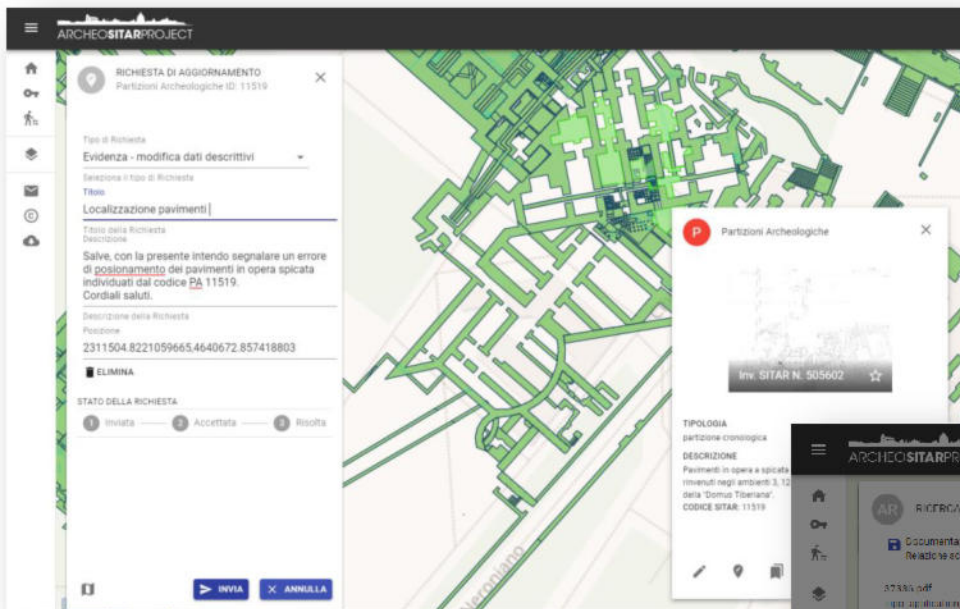




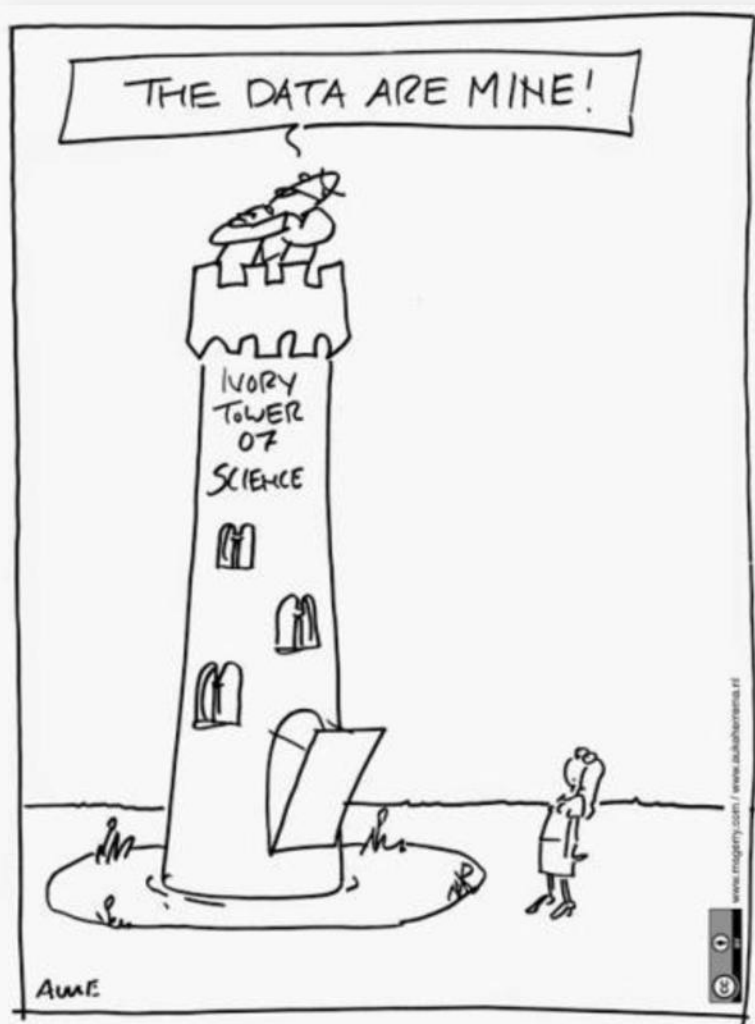
# SITAR and urban planning: the new METRO C



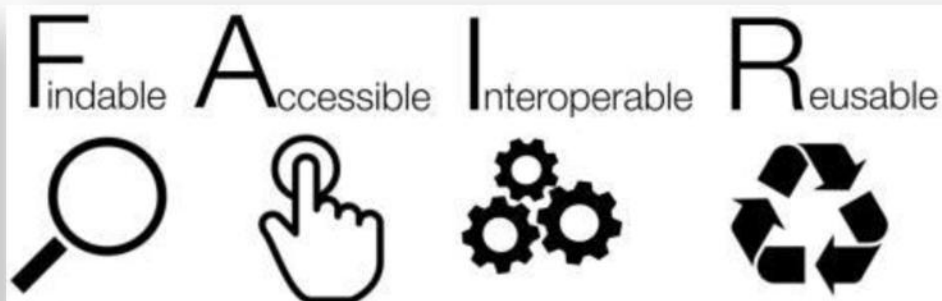
# Public participation: request for change and request for download



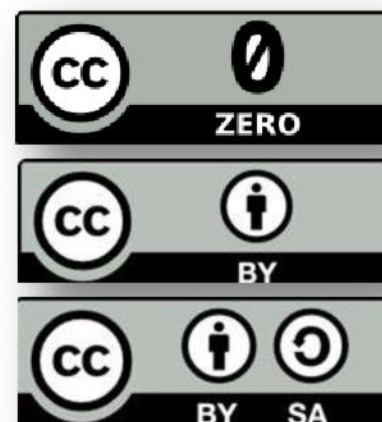




SCENE FROM THE PAST ?



Data should be accessible does not mean that data should be open!



# DATA PUBLICATION



SITAR CODE
OWNER AUTHORITY
MANAGING OFFICIAL
<b>PROPERTIES REAL ESTATE</b>
RESEARCH METHOD
START AND END OF RESEARCH
SCIENTIFIC TEAM
<b>APPLICANT</b>
RESEARCHER
WORK DESCRIPTION
ARCHIVE REFERENCES
DISTRICT
MUNICIPALITY
AREA
<b>ADDRESS</b>
GEO-REFERENCING CODE
GEO-REFERENCING METHOD
KIND OF REPRESENTATION

Right to Information and Respect for Privacy



# OPEN DATA FOR THE ARCHAEOLOGICAL HERITAGE PROTECTION

## Italian Regulatory Framework AGGIORNARE

D.Lgs. 82/2005 e D.lgs 179/2016 and  
D.lgs 217/2017: CAD, digital administration  
code

D.Lgs. 36/2006: re-use of documents in  
public administration

D.L. 179/2012: Decreto Sviluppo 2.0

D.Lgs. 33/2013: Re-organization of  
regulation concerning obligations of  
advertisement, transparency and publication  
of informations by the public administrations

Faro Convention (1948) ratified by Italy 27  
FEBRUARY 2013

*A Public Data IS*

"a data that **everyone**  
can know"

*but also*

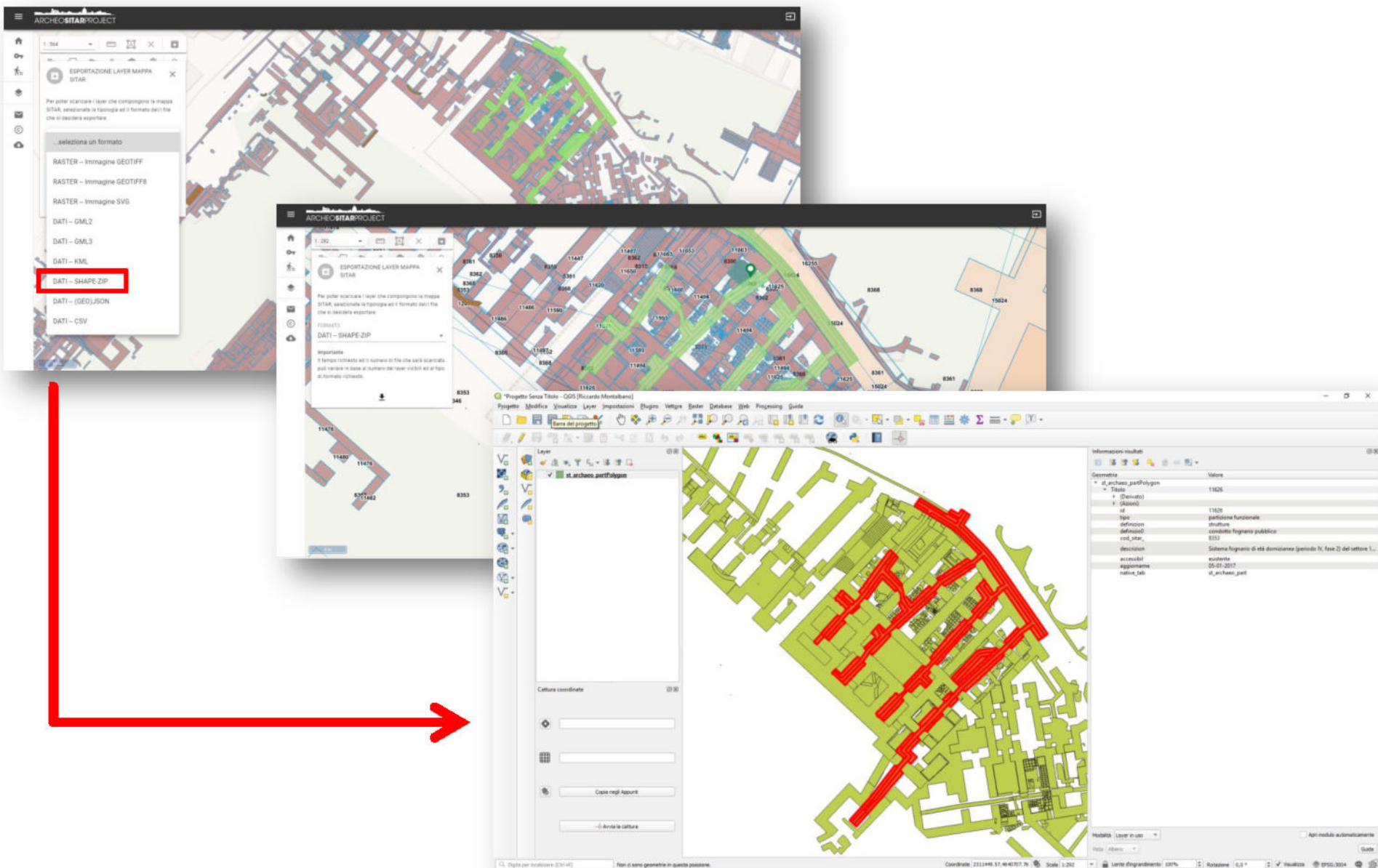
"a data produced by public  
administrations within their  
institutional goals"



*Open science is the practice of **science** in such a way that others can **collaborate** and **contribute**, where research data, lab notes and other research processes are **freely available**, under terms that enable **reuse**, **redistribution** and **reproduction** of the research and its underlying data and methods [FOSTER]*



# From REPOSITAR 2.1 to your project!







# ARCHEOSITAR & CLOUD GARR

*UN ECOSISTEMA “on-demand”!*

## DEV/OPS

THANKS TO THE CLOSE COLLABORATION BETWEEN DEVELOPERS AND GARR'S ADMINISTRATORS, EXPERTISE, TECHNOLOGY AND INFRASTRUCTURE ARE GUARANTEED.

SCALABILITY

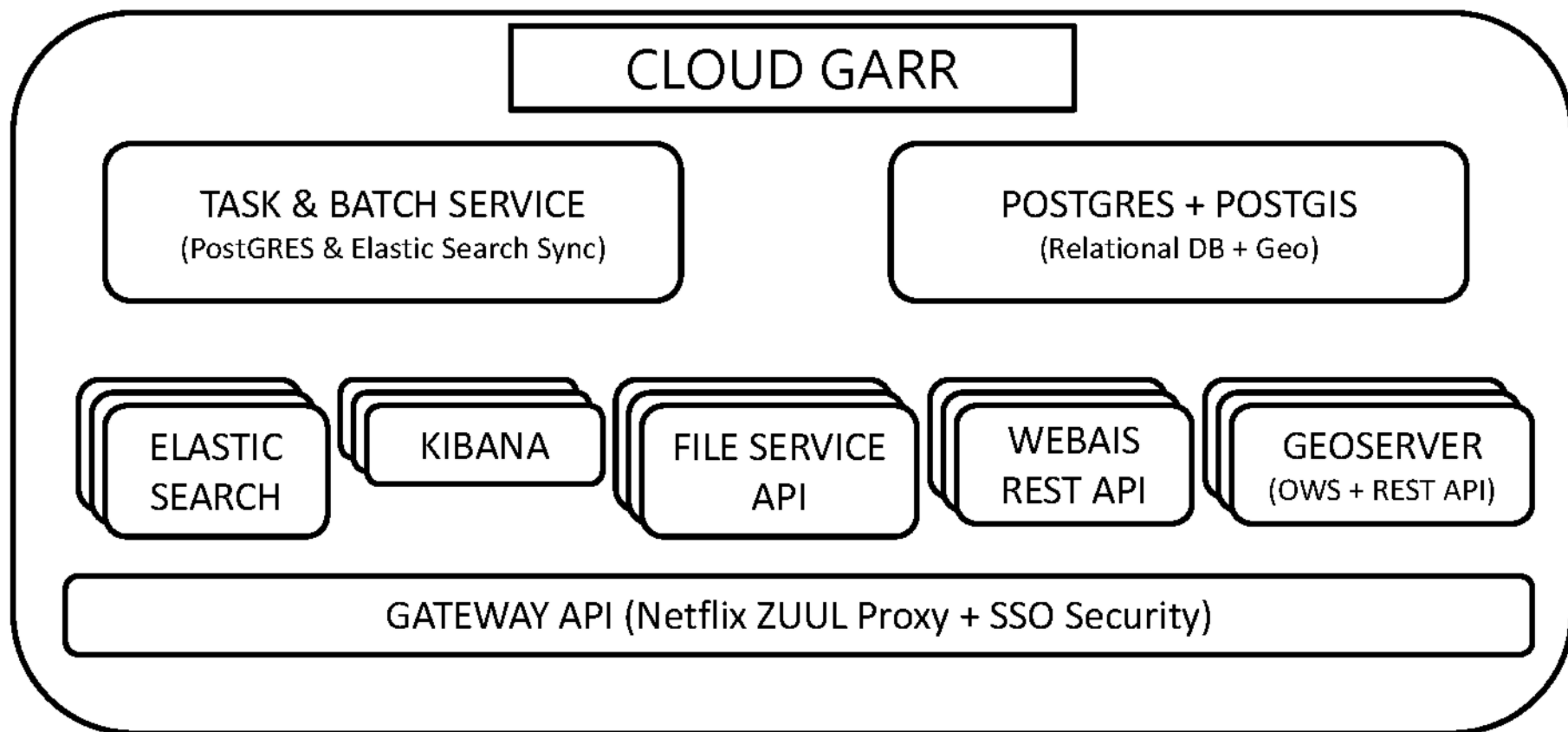


PERFORMANCE

INTEROPERABILITY



SERVICE



SCALABILITY



INTEROPERABILITY



PERFORMANCE



SERVICE



# OPEN DATA SERVICES

## HYPERMEDIA

CONTENT NEGOTIATION



JSON, GEOJSON, ATOM



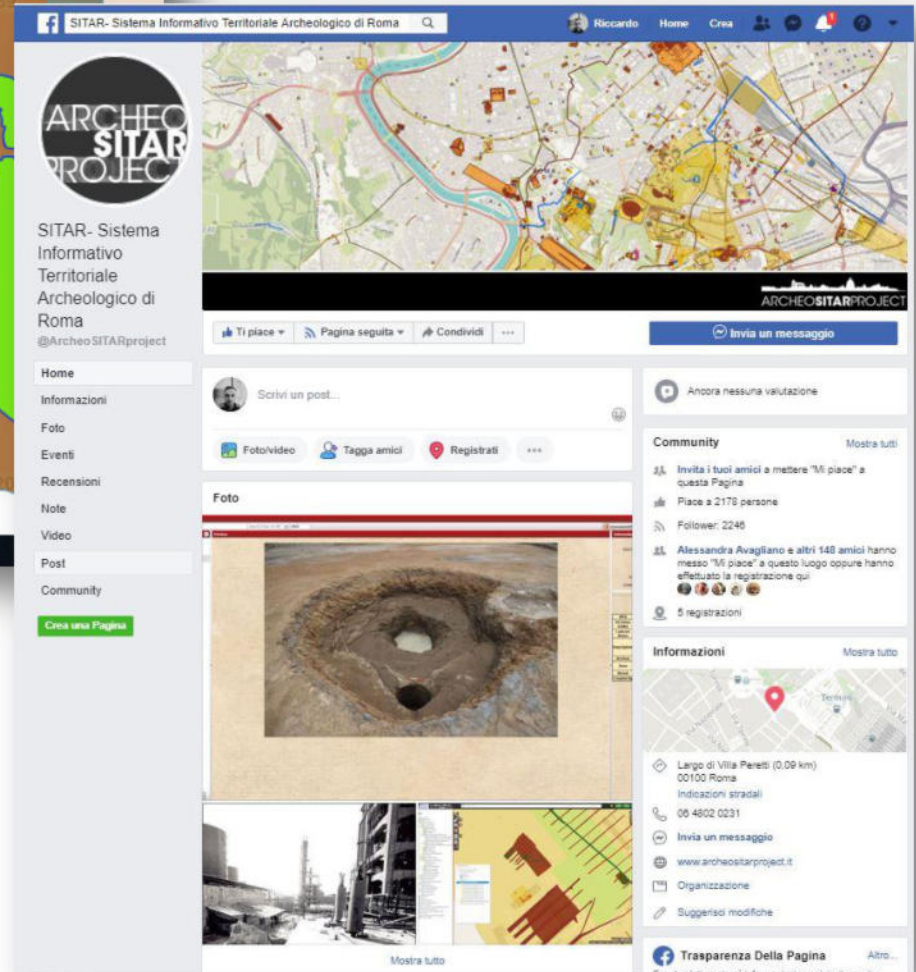
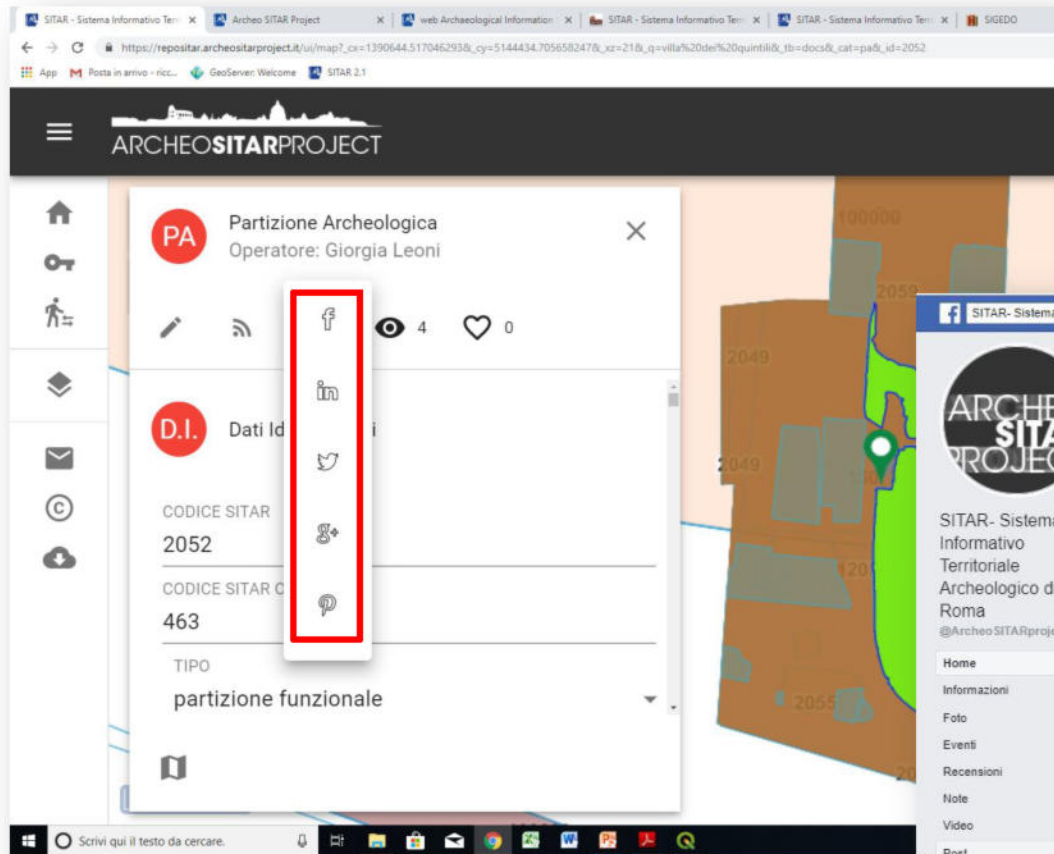
WMS,WFS, WCS



PDF,SHAPE,GEOTIFF



CLIENT

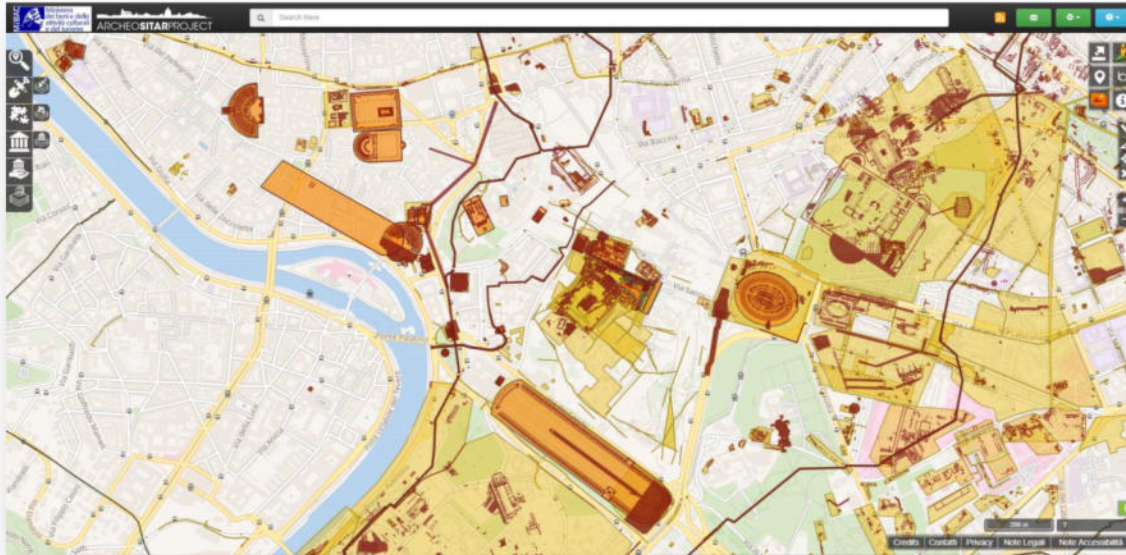


# REPOSITAR and knowledge sharing

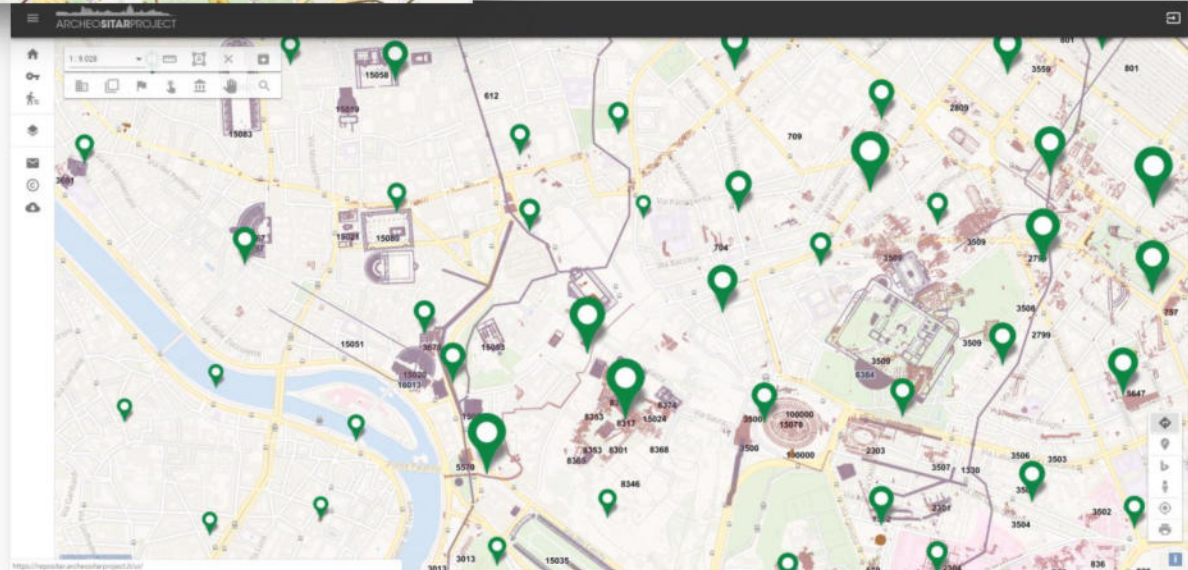


# The new interface for a better user experience

## Old WEBAIS



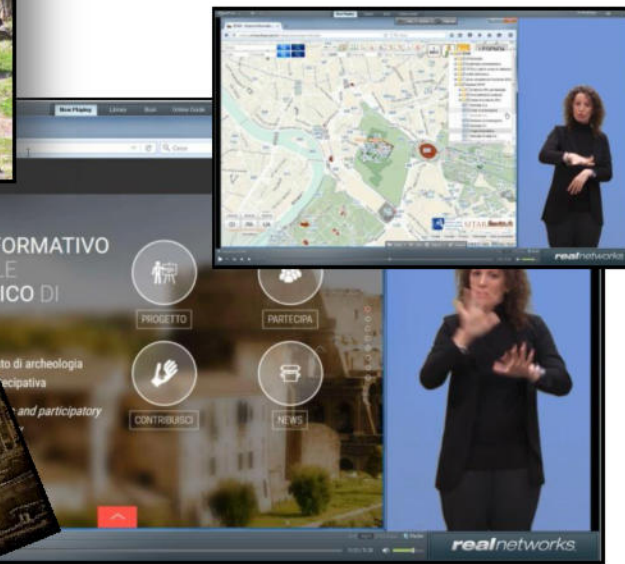
## New REPOSITAR 2.1







# Cultural Heritage and Active Citizenship



**SITAR**  
SISTEMA INFORMATIVO TERRITORIALE  
ARCHEOLOGICO DI ROMA

a cura di  
Mirella Serlorenzi

ATTI DEL I CONVEGNO  
ROMA PALAZZO MASSIMO  
26 OTTOBRE 2010



**II SITAR**

La Rete della ricerca italiana.  
Verso la conoscenza archeologica condivisa

Atti del III Convegno  
(Roma, Museo Nazionale Romano, 23-24 maggio 2013)

a cura di  
Mirella Serlorenzi e Giorgia Leoni

ARCHEOLOGIA E CALCOLATORI  
Supplemento 7, 2015

All'Segno del Cigno

**SITAR**

DIREZIONE GENERALE PER LE ANTICHITÀ  
SCOPERTENDENZA SPECIALE  
PER I BENI ARCHEOLOGICI  
DI ROMA

**SITAR**  
SISTEMA INFORMATIVO TERRITORIALE  
ARCHEOLOGICO DI ROMA

Patrimonio archeologico, pianificazione "crescitale" e  
rappresentazione pubblica dei dati

a cura di  
Mirella Serlorenzi - Maria Jovine

ATTI DEL II CONVEGNO  
ROMA PALAZZO MASSIMO  
9 NOVEMBRE 2011



**IV SITAR**

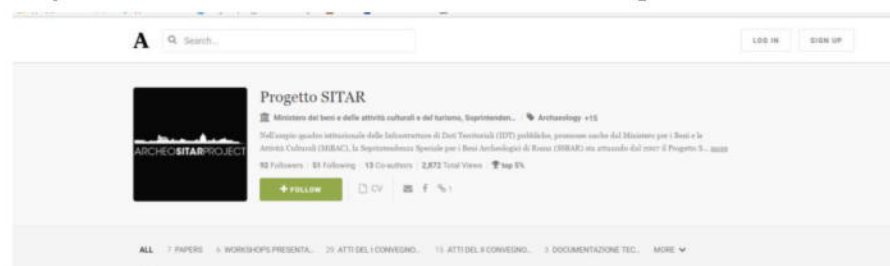
in rete, pensare la rete per la ricerca,  
la rete e la valorizzazione del patrimonio  
archeologico

Atti del IV Convegno  
(Roma, Museo Nazionale Romano, 14 ottobre 2015)

ARCHEOLOGIA E CALCOLATORI

# To learn more...

<https://beniculturali.academia.edu/ProgettoSITAR>



**La piattaforma webSITAR: un nuovo Knowledge Management System per l'Archeologia Pubblica del territorio metropolitano di Roma (pre-print version)**

By SITAR Project - Knowledge Experience Base, Progetto SITAR, and Mirella Serlorenzi

Download | 78 | More



Serlorenzi M., Jovine I., Leoni G., De Tommasi A., Varavallo A. (2015). A retrospective on GIS and AIS platforms for Public Archaeology in Italy: Searching backward for roots and looking onwards for new methodological road-maps

By Mirella Serlorenzi, Progetto SITAR, Maria Jovine, and SITAR Project - Knowledge Experience Base

15 | More

## Thank you for your kind attention!