

# KOS in Humanities Research and Cultural Heritage Collections

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# Research Projects

- Digital Atlas of the Roman Empire, part of Pelagios Commons  
<http://dare.ht.lu.se>
- Formative Wisdom. The Reception of Monastic Sayings in European Culture: Scholarly Collaboration on a Digital Platform,  
<http://monastica.ht.lu.se>

# Research data publishing

- *static publishing* (static files on servers and metadata), although compiled in Data catalogues and registries
- *dynamic publishing* (databases, serialization of data, Linked Open Data, visualization and analysis)

# Research data Life cycle

Source: [www.jisc.ac.uk](http://www.jisc.ac.uk)



# Sources of Humanities data

- Cultural heritage data (e.g. manuscripts and texts, artefacts) in libraries, archives and museums
- Open governmental data (e.g. administrative data, geographic data)
- Research data made available by others
- Own data collection

# Humanities as data producer/publisher

- Humanities data could be regarded as cultural heritage data, e.g. transcriptions and critical editions of source texts, archaeological finds, listings of historical places, persons and organizations

# Linked Open Data (LOD) in the Humanities

- Linked Open Data as organizing principle for research data publishing
- Stable identifiers and shared ontologies
- Dynamic publishing in real time

# Dual purpose publishing

- Machine readable (actionable) data, real time access of large amount of data in well known formats (rdf)
- Human readable data
- Served by a common interface through content negotiation



# Authority data

- Solve ambiguities in identification of entities, especially in a LOD context
- Authority data for historical persons, places, time periods, online gazetteers, prosopographies and lists of organizations and territories
- Additional authority data (VIAF, Wikidata, etc.)

# Digitized source material



## DIE URKUNDEN DER KAROLINGER

HERAUSGEGEBEN  
VON DER  
GESELLSCHAFT FÜR ÄLTERE DEUTSCHE GESCHICHTSKUNDE

ERSTER BAND.

DIE URKUNDEN PIPPINS, KARLMANNS UND KARLS DES GROSSEN  
UNTER MITWIRKUNG VON  
ALFONS DOPSCH, JOHANN LECHNER, MICHAEL TANGL  
BEARBEITET VON  
ENGELBRIT MÜHLBACHER

HANNOVER  
HAHNSCHE BUCHHANDLUNG  
1906

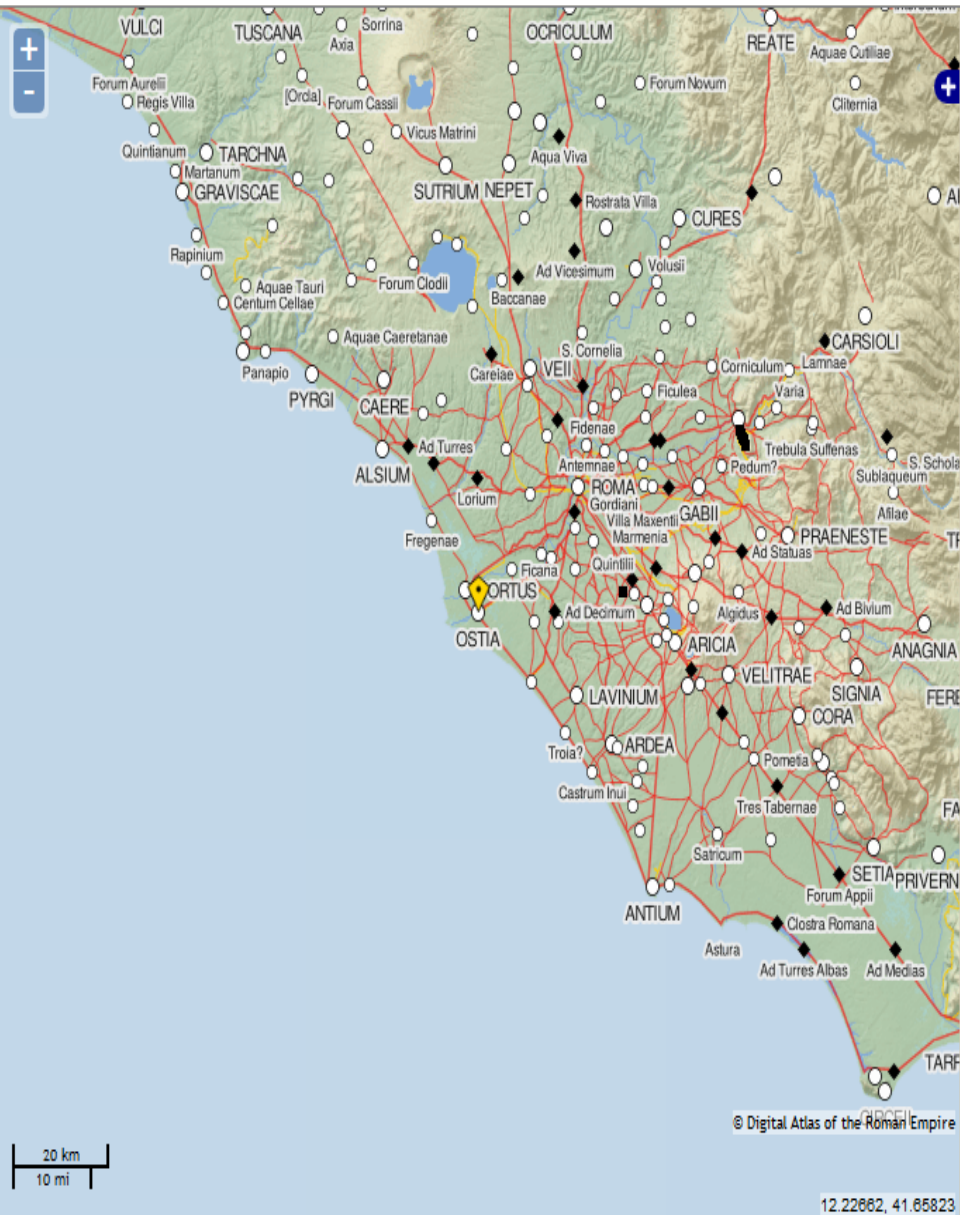


# Organizing and sharing

- gazetteers of historical places
- prosopographies of historical persons
- Gazetteer of historical time periods


# Digital Atlas of the Roman Empire

- a highly accurate and comprehensive digital gazetteer of ancient places attested in archaeological and textual sources belonging to the Greek and Roman civilizations
- A digital base map of the Ancient world, vizualisation of the gazetteer



## Ostia Antica

Information about the ancient place attested as Ostia, located at Ostia Antica

id	15960
URI	<a href="http://dare.ht.lu.se/places/15960">dare.ht.lu.se/places/15960</a>
spatial coverage	Ostia Antica
LAU-2 Code	058091
LAU-2	Comune Roma
NUTS-3	Provincia Roma
country (ISO 3166)	 IT
historical name(s)	Ostia
place type	city → <a href="#">Display all</a>
temporal coverage	
start date	-750
end date	640
<i>Additional metadata and related external resources</i>	
TPPlace	<a href="#">1428</a>
amphi-theatrum.de	<a href="#">2087</a>
brill-s-new-pauly	<a href="#">ostia-e902240</a>
geonames	<a href="#">3171796</a>
osm:way	<a href="#">52049889</a>
PECS	<a href="#">ostia</a>
	<a href="#">ostia</a>
pleiades	<a href="#">422995</a>
romaq.org	<a href="#">409</a>

# Pelagios Commons

- Pelagios is a decentralized community and infrastructure for Linked Open Data in the Humanities
- Alignment of digital resources to gazetteers such as Pleiades and DARE (Open Annotations)

# Pelagios Commons

- Stable URI:s to content on the Web
- Linking to one of 6 gazetteers
- Pelagios is a content aggregator, not a provider

# Pelagios data

- American Numismatic Society
- Europeana Eagle project (inscriptions)
- Papyri.info
- Arachne - German archaeological institute



# Infrastructure

- Authority files for people, places and time periods
- Historical Gazetteers through Pelagios Commons, e.g. <http://dare.ht.lu.se>, <http://pleiades.stoa.org>
- Prosopographies, <https://snapdrgn.net>
- Time periods, <http://perio.do>

# Sustainability issues

- Research is organized as short term projects
- No infrastructure for archiving and publishing of research data, especially not LOD-based data retrieval based on persistent identifiers
- No stable online infrastructure for visualization and analysis within universities

# Time periods

- The PeriodO period gazetteer documents definitions of historical period names
- give the period a name,
- impose some temporal bounds on the period, have some implicit or explicit association with a geographical region,
- and have been formally or informally published in some citable source

# Aim of the infrastructure

- Identify entities in source material
- Knowledge sharing