Open Context: Editorial Co-production and Use of Linked Data in Archaeology

Eric C Kansa

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OpenContext.org





OFFICIAL OFFICE OF SCIENCE AND TECHNOLOGY POLICY RESPONSE TO Require free access over the Internet to scientific journal articles arising from taxpayer-funded research.

This response was published on February 22, 2013.

Increasing Public Access to the Results of Scientific Research

By Dr. John Holdren

Thank you for your participation in the We the People platform. The Obama Administration agrees that citizens deserve easy access to the results of research their tax dollars have paid for. As you may know, the Office of Science and Technology Policy has been looking into this issue for some time and has reached out to the public on two occasions for input on the question of how best to achieve this goal of democratizing the results of federally-funded research. Your petition has been important to our discussions of this issue.

Helpful Hints

Creating a duplicate or similar petition will make it harder for you to get an official response. Instead, sign and help promote the one that has already been created.

Recent Petitions

Recent Responses

CREATE A PETITION





Contact II

PHOTOS & VIDEO

BRIEFING ROOM

ISSUE

be ADMINISTRATION

be WHITE HOUSE

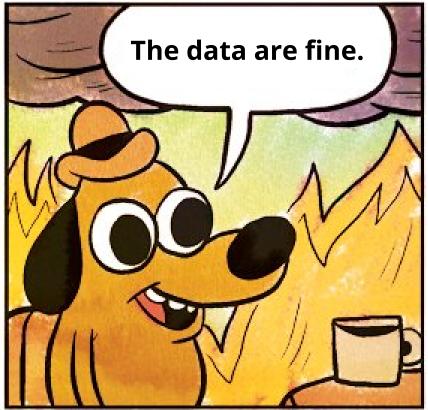
our GOVERNMENT

WEthe

YOUR VOICE IN OUR GOVERNMENT

Help make We the People even bette Share your feedback on how this new platform can improve.











BUSINESS CULTURE DESIGN GEAR SCIENCE

SHARE





TWEET

MEGAN MOLTENI SCIENCE 02.13.17 5:35 PM

DIEHARD CODERS JUST RESCUED NASA'S EARTH SCIENCE DATA

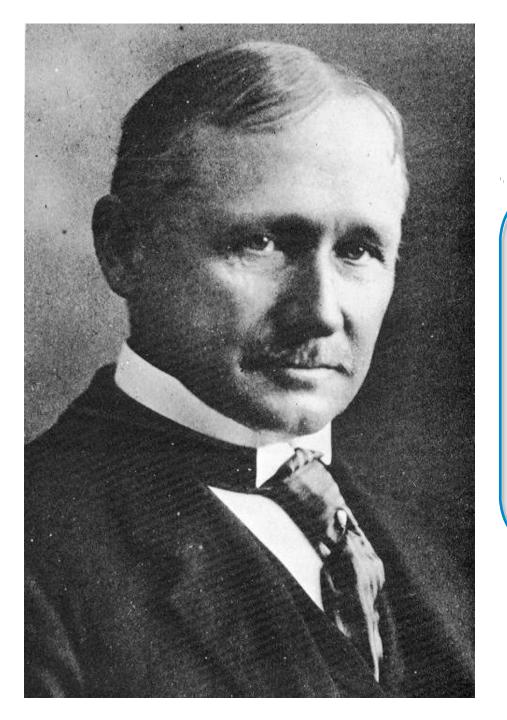


Data and Civil Society

 Helped archive > 1 TB from a US National Park Service database, and ~20,000 web pages (esp. underrepresented communities)

2. Highlights how "Data Management" exists in a social and political context





Perverse Incentives

- Professional incentives reward wasted effort (paper or PDF only)
- Data often imposed on researchers as a compliance issue (Taylorism)

WELCOME TO OPEN CONTEXT

Publishing research data on the Web

Because data are for discovery and inspiration, not just management

Open Context: 10 years of iterative development

Linked: Links with other systems & data (tDAR, EOL, ORCID, etc)

Open: Code, data (mainly CC-By) on GitHub, machine-readable formats, APIs **Long-term:** NSF, NEH data management. California Digital Library archiving. **Global:** Mirroring, collaboration with the German Archaeological Institute (DAI)

Recognition: Awards from Digital Curation (2014),

Archaeological Institute of America (2016), and the White House (2013)

Publication Types

Stand Alone	Poggio Civitate (Murlo)
Informatics Research	Digital Index of North American Archaeology; EOL Zooarchaeology
Grant Data Management	Seyitömer Höyük; Oracle Bones in East Asia; Others in preparation
Archival	ARCE Sphinx Project 1979-1983 Archive; Badè Museum of Biblical Archaeology; Ft. Snelling
Article Reproducibility	Sardis (NAA); Cyprus in the Late Bronze Age (NAA); Chogha Mish; Mesoamerican fauna (edited volume); Hesse Festschrift (and more)
Supplement Monograph	Petra Great Temple; Kenan Tepe; Gabii; Early Bronze Age Numayra

ANTIQUITY

a review of world archaeology



Welcome to Harvard University

Harvard Library, Harvard University, Harvard University, Harvard Library

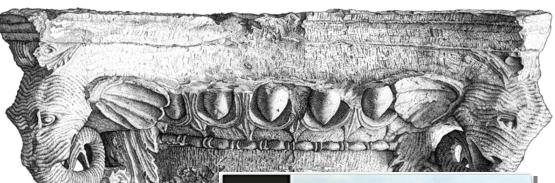












Project Petra Great Temple Excava

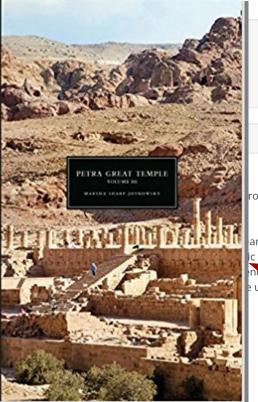
Brown University Excavations at the Great Te

Project Abstract

Great Temple Excavation Database:

This project represents the comprehensive r 1993 - 2006.

About the Great Temple: The Great Temple operiod and demonstrates that the values of decoration of structures with frescos and armoney and energy. This blending of differer elephant heads, frescos, elegantly carved pil



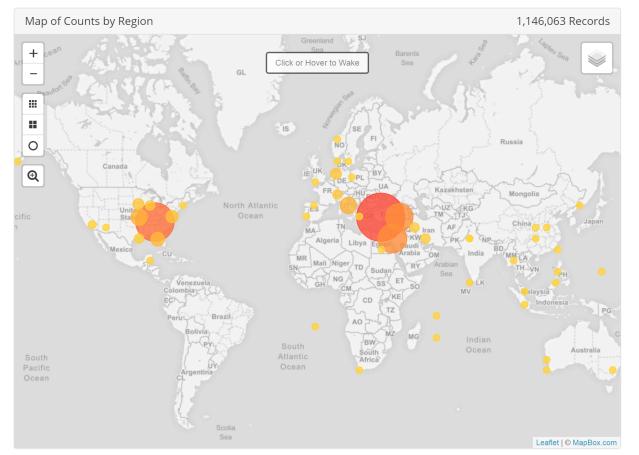


Suggested Citation

Martha Sharp Joukowsky. "Petra Great Temple Excavations". (2007) Martha Sharp Joukowsky (Ed.) . Released: 2007 1-11. Open Context. http://openg.great.org/projects/A5DDBEA2-B3C8-43F9-8151-333"

Browse Project

10 year time lag between online publication and print



Collection is not filtered. Select query options below.

Filtering Options

‡ Context		
United States	•	396,010
Turkey	•	353,942
Jordan	•	128,792
Italy	•	81,581
Iran	•	32,487
Germany	•	21,512
Cyprus	•	14,510
Israel	•	10,247
United Kingdom	6	3,143

Why a Publishing Metaphor?

- Editorial (curatorial) co-production Promote vision of data as more than a "residue" of research

Raw Data Can Be Unappetizing



Researchers need help turning a raw manuscript into a publication. Similarly with data.

Fullsize Image

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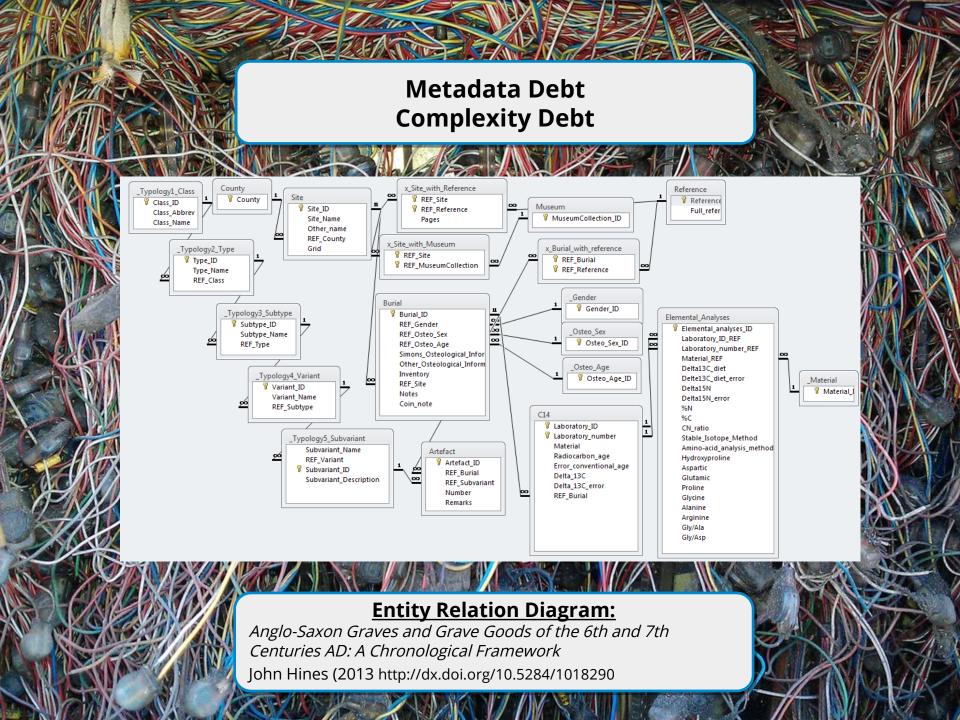
Download File

Context: Turkey / Kenan Tepe / Area D / Trench 8 / Locus 65 ↔ D-8-2005-06-09-Locus-F9 (Image, Full size)

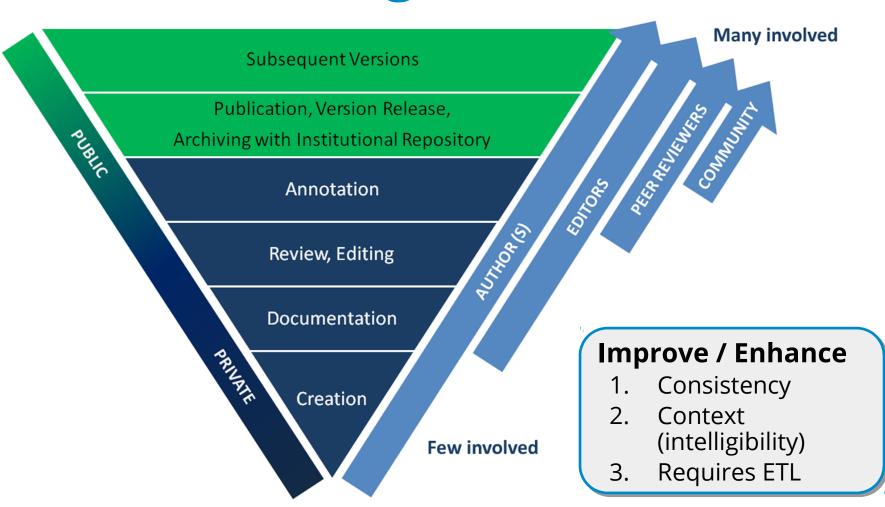
Excavations are not Data Mines

- 1. Archaeological data (esp. excavations) often highly complex, varied
- 2. Data creation is often labor intensive
- 3. Data describe hugely diverse materials





Publishing Workflow



Annotation Vocabularies

Biological Taxonomy Vocabulary

British Museum Thesaurus

CIDOC-CRM

Concordia

Digital Index of North American

Archaeology Vocabulary

Dublin Core Terms

Eastern Woodlands Household

Archaeology Data Project

Encyclopedia of Life

GeoNames

Getty Art and Architecture Thesaurus

Information Artifact Ontology

Kerameikos.org

Levantine Ceramics Project

Library of Congress Subject Headings

Open Context (General)

Open Context Zooarchaeology

Annotations

ORCid

Paleoindian Database of the Americas

(PIDBA)

PeriodO

Pleiades

RDF-Schema

Simple Knowledge Organization System

(SKOS)

tDAR Site Name Keywords

UBERON (Uber Anatomy Ontology)

Units of Measurement Ontology

Wikidata

WikiMapia

Wikipedia

WorldCat

Annotation Vocabularies

Biological Taxonomy Vocabulary

British Museum Thesaurus

CIDOC-CRM

Concordia

Digital Index of North American

Eastern Woodlands Household

GeoNames

Information Artifact Ontology

Kerameikos.org

Levantine Ceramics Project

Library of Congress Subject Headings

Open Context (General)

Open Context Zooarchaeology

Annotations

(PIDBA)

Paleoindian Database of the Americas

Archaeology Voca Linked (Open) Data:

Archaeology Data Project Simple Knowledge Organization System Encyclopedia of LWeb Identifiers (URIs) to

Getty Art and Arreference shared concepts

ORCid

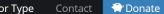
Units of Measurement Ontology Wikidata

WikiMapia

Wikipedia WorldCat









Explore 🕶

Category or Type



Category or Type: Bucchero

Description of this Category / Type

Arachne Comparanda

More ▼

1 Descriptions (1)

OPEN CONTEXT

Descriptive Variable

Value(s)

Arachne comparative material

Arachne has: 245 related item(s) with images

Browse these comparanda: [Link to Arachne search results]

Open Context editors identified materials in Arachne likley to be relevant for comparison to this type. Arachne is the central object database of the German Archaeological Institute (DAI) and the Archaeological Institute of the University of Cologne.

‡ Linked Media (50)









Suggested Citation

Anthony Tuck. "Bucchero". (2012) In *Murlo*. Anthony Tuck (Ed.) . Released: 2012-07-06. Open Context. http://opencontext.org/types/252A30E2-3F6C-4BB8-1148-FD2D27436185

Editorial Status

Part of Project

•••00

Murlo

Managing editor reviewed

Copyright License

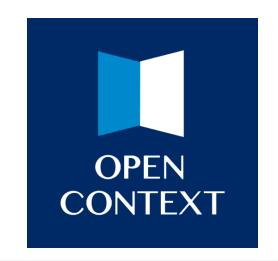


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Required Attribution: Citation and reference of URIs (hyperlinks)

Connects data to wider world of contributions!





Citation	Cite Archaeological Entities (sites, coins, bones, etc)	Cite Digital Files (can contain thousands of items)
Granularity	High ("1 URI per potsherd")	Low (information aggregated in big files)
Discovery, Querying	Common schema, common index for content, not just metadata	Index metadata only, content is more opaque
Cost	Expensive "boutique publishing"	Cheaper, easier to scale. Self-service models.





Behavioral & Social Sciences Librarian

ISSN: 0163-9269 (Print) 1544-4546 (Online) Journal homepage: http://www.tandfonline.com/loi/wbss20

Comparing Digital Archaeological Repositories: tDAR Versus Open Context

Beth Sheehan

To cite this article: Beth Sheehan (2015) Comparing Digital Archaeological Repositories: tDAR Versus Open Context, Behavioral & Social Sciences Librarian, 34:4, 173-213, DOI: 10.1080/01639269.2015.1096155

To link to this article: http://dx.doi.org/10.1080/01639269.2015.1096155



Context: Turkey / Domuztepe / VII / Lot 3930 DT# 5019 (Coin)

Main Observation Standards Annotations

1 Descriptions (16)

Descriptive Variable	Value(s)	Data
Year	335-37	from
Internal Find Number	221	(rolat
Material	Billon	(i Ciai
Find Date	2005-08-18	(relat
Registration Date	2005-09-04	
Artifact Name	Coin	
Initials	EM	Some
Depth	103.5	nroie
Diameter	17.0	proje diffe
Comparanda	RIC VII Antioch 109	
Weight	1.65	datal
Conservation	no	datar
Group	13.0	
Description	Constantine II OBV: CONSTANTINVS IVN I REV: GLOR-IA EXERC-ITVS, two soldiers ho	

Managing Complexity:

Data about this coin came from several different files (relational data bases, spreadsheets)

Some archaeological projects can have dozens of different spreadsheets + databases!

1 Linked Media (24)





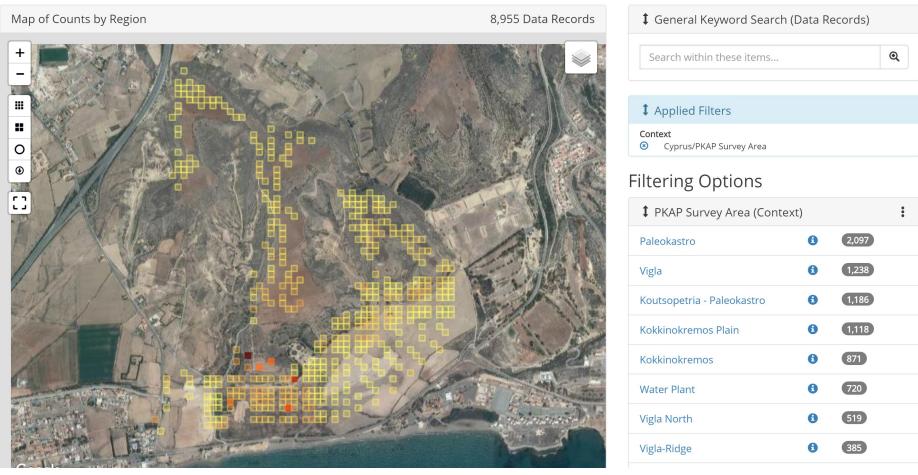
of standard.

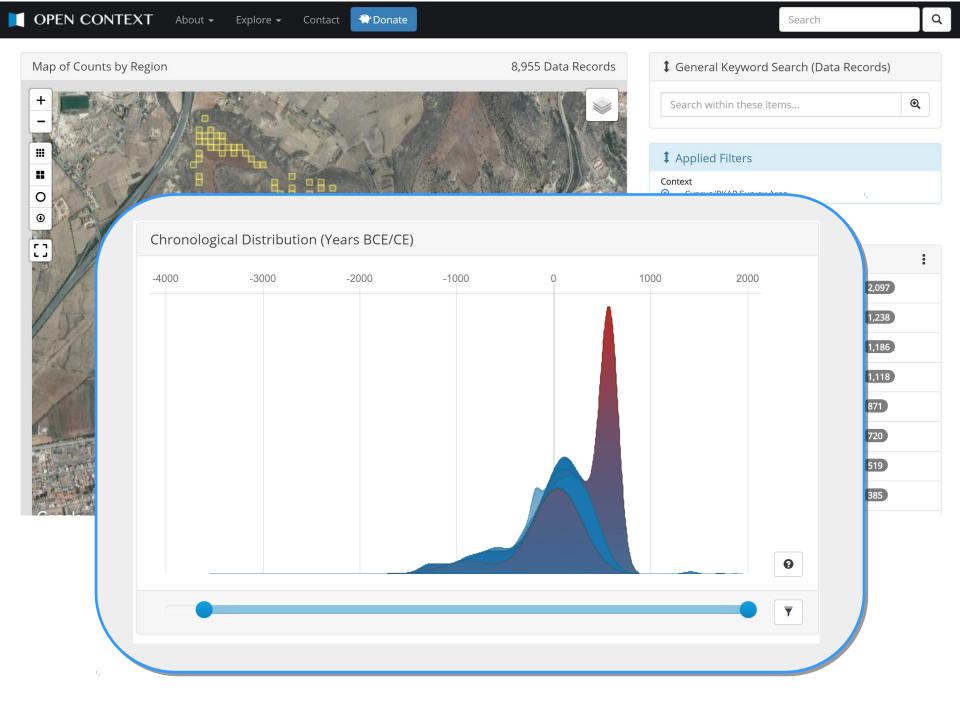


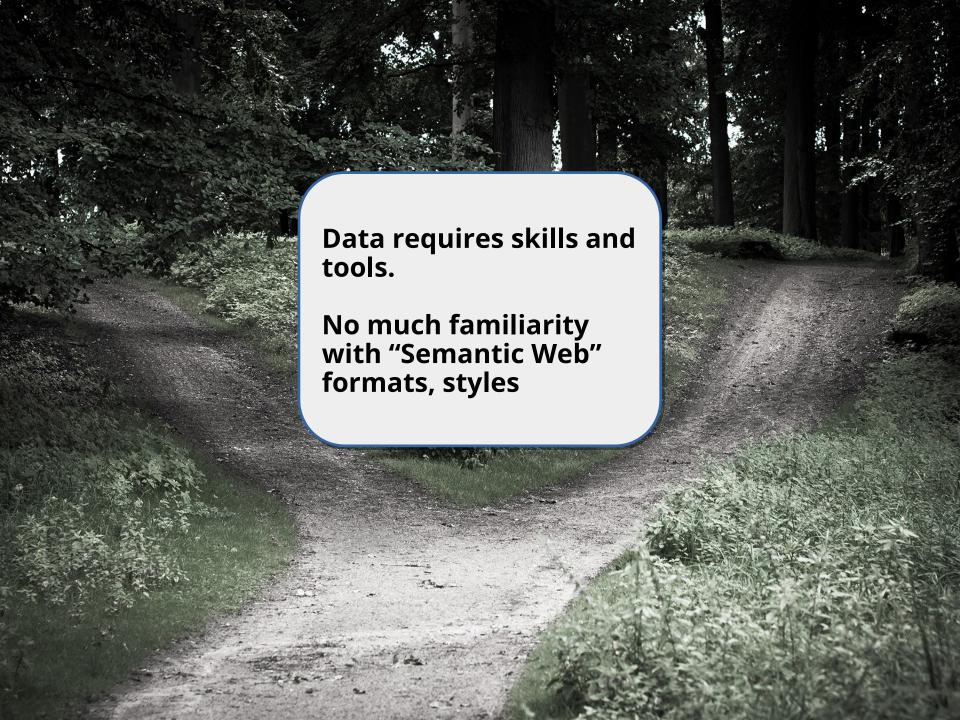














1 Media Preview

OPEN CONTEXT @dainst.org 🚜

"Linkable" Data: URIs to reference Web documents. Casual, nontechnical reuse.



Suggested Citation:

Bradley Parker, Peter Cobb. "A-8-2002-07-25-Locus-Z5 from Turkey/Kenan Tepe/Area A/Trench 8/Locus 29". (2012) In Kenan Tepe. Bradley Parker, Peter Cobb (Eds.). Released: 2012-03-28. Open Context.

http://opencontext.org/media/5DE0EA55-8D1E- 4FD4-135A-675029FAEFFD> Digital Archive: http://n2t.net/ark:/28722/k2280b36c

Editorial Status

Part of Project Kenan Tepe

••••0 Editorial board reviewed

Mapping Data



OPEN CONTEXT @dainst.org

Media Item

Search

Context: Turkey / Kenan Tepe / Area A / Trench 2 / Locus 2139 → A-2-2002-08-01-Locus-Z8 (Image)

1 Media Preview



Suggested Citation:

Bradley Parker, Peter Cobb. "A-2-2002-08-01-Locus-Z8 from Turkey / Kenan Tepe / Area A/Trench 2/Locus 2139". (2012) In Kenan Tepe. Bradley Parker, Peter Cobb (Eds.). Released: 2012-03-28. Open Context.

http://opencontext.org/media/BF565965-98A8- 4E84-2318-AFFA983277E1> Digital Archive: http://n2t.net/ark:/28722/k2g73d802

Editorial Status

Part of Project

••••

Editorial board reviewed

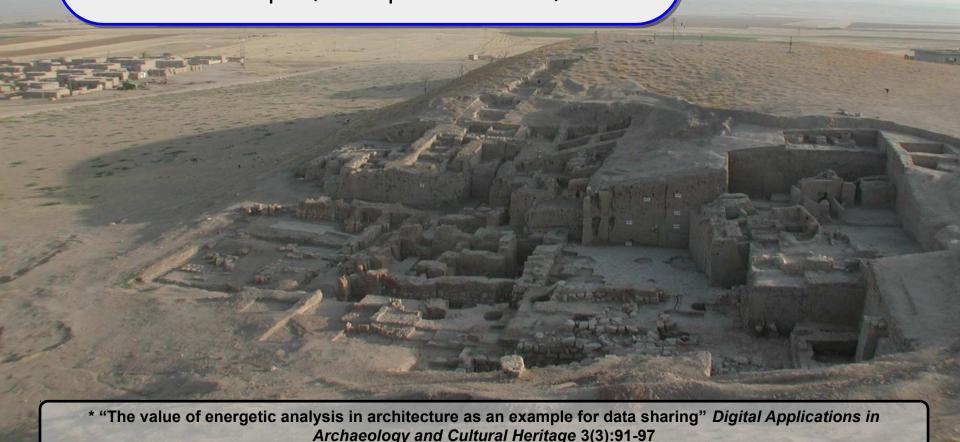
Mapping Data

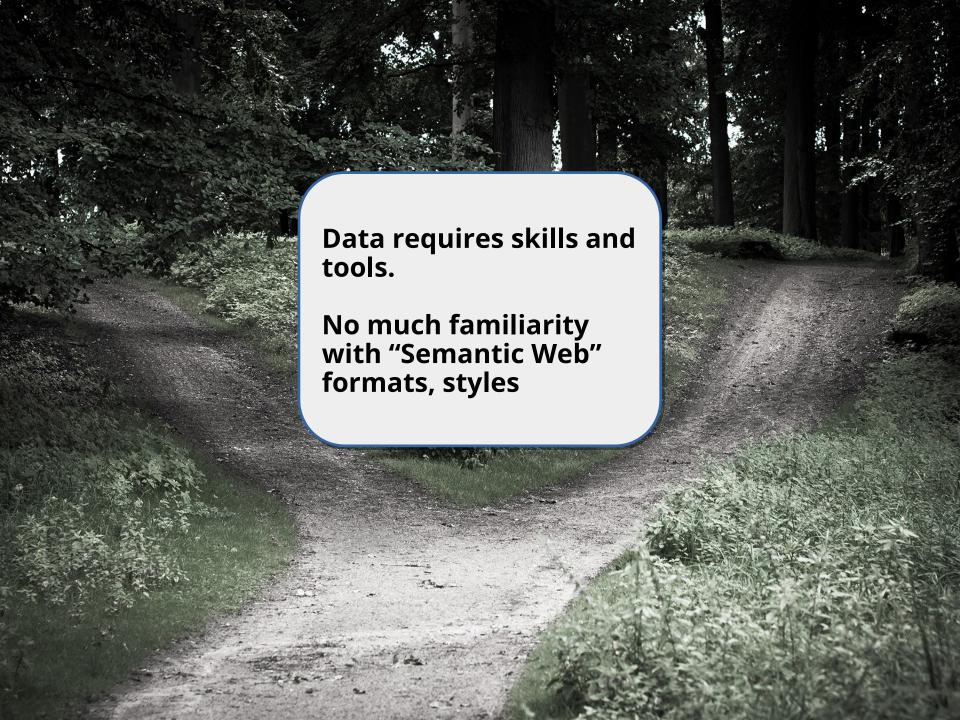


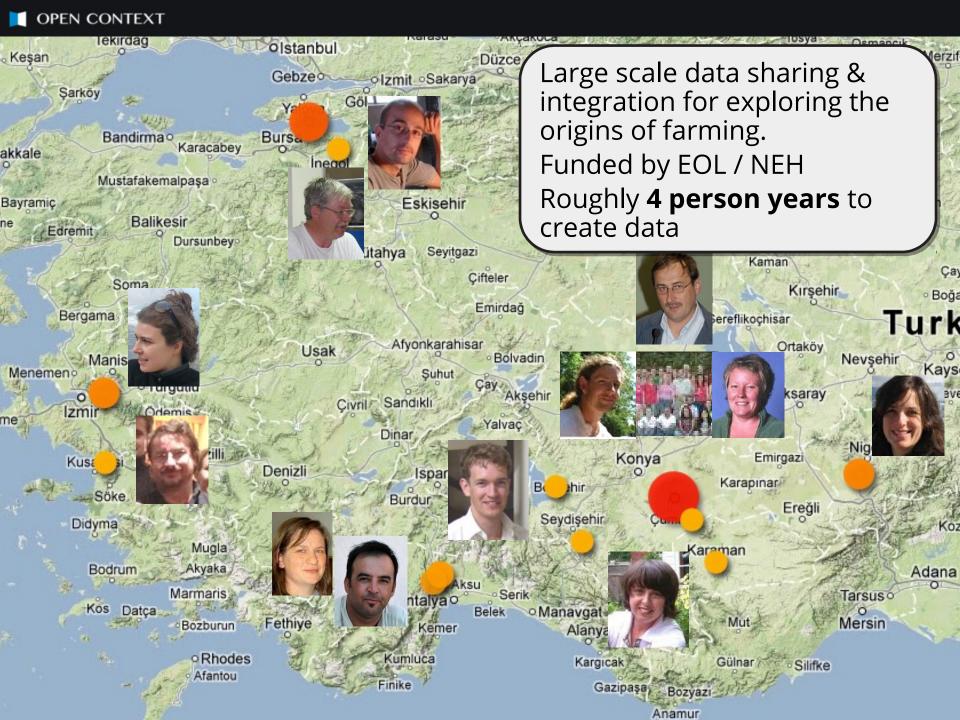
Kenan Tepe

Federico Buccellati (2016*)

- 1. Study of energetics / labor investment in architecture
- 2. Compared 3rd millennium BCE palace at Tel Mozan (Syria) with 4th millennium BCE fortification wall at Kenan Tepe (via Open Context)







OPEN CONTEXT About • Explore ▼ Category or Type Category or Type: Mandible Description of this Category / Type Item Annotations Item Metad Annotations (1) Property or Relation Value(s) Close Match mandible Q [Standard: Simple Knowledge [Standard: UBERON (Uber Anatomy Ontology)] Organization System (SKOS)] **Editorial Note** Open Context editors work with data contri datasets to shared vocabularies, ontologies standards using 'Linked Open Data' (LOD) methods.

1 Examples of the 722 Item(s) Described by this Type







The annotations presented above approximate some of the meaning in this contributed data record to concepts defined in

shared standards. These annotations are provided to help make datasets easier to understand and use with other datasets.



Uberon multi-species anatomy ontology

Keywords: Search terms

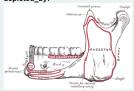
Class: mandible

Term IRI: http://purl.obolibrary.org/obo/UBERON 0001684

Definition: A dentary bone that is the only bone in one of the lateral halves of the lower jaw skeleton. [database_cross_reference: http://en.wikipedia.org/wiki/Human_mandible][database_cross_reference: http://en.wikipedia.org/wiki/Mandible]

Annotations

- . editor note: consider merging with dentary for now we make it a mammal-specific subclass.
- database cross reference: GAID:68; CALOHA:TS-2225; EMAPA:18290; 181812008; UMLS:C0024687; BTO:0001748; EHDAA2:0001059;
- galen:Mandible; MESH:D008334; EHDAA:8007; NCIT:C12290; MA:0001487; Human mandible; C0024687; EFO:0001965; FMA:52748
- external_ontology_notes: Note in ZFA 'mandible' is a syn for the ventral mandibular arch, which is a portion of the 1st pharyngeal arch; however the term 'mandibular symphysis' refers to the dentary
- has_broad_synonym: lower jaw; lower jaw bone
- has_exact_synonym: mandibulla; inferior maxillary bone; mammaliam mandible
- has_narrow_synonym: lower mandibula
- has_obo_namespace: uberon
- · has_related_synonym: mandibula; mandibular series
- · has_relational_adjective: mandibular
- id: UBERON:0001684
- in_subset: pheno slim; uberon slim; efo slim
- terminology notes: 'mandible' also refers to either the upper OR lower part of the beak in birds
- depicted_by:



TVII II IC

Managing editor reviewed

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900 VIEWS

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18 SHARES

RESEARCH ARTICLE

Data Sharing Reveals Complexity in the Westward Spread of Domestic Animals across Neolithic Turkey

Benjamin S. Arbuckle1*, Sarah Whitcher Kansa2, Eric Kansa2, David Orton4, Canan Çakırlar5, Lionel Gourichon⁶, Levent Atici⁷, Alfred Galik⁸, Arkadiusz Marciniak⁹, Jacqui Mulville¹⁰, Hijlke Buitenhuis⁵, Denise Carruthers¹¹, Bea De Cupere¹², Arzu Demirergi¹³, Sheelagh Frame¹⁴, Daniel Helmer¹⁵, Louise Martin⁴, Joris Peters¹⁶, Nadja Pöllath^{16,20}, Kamilla Pawłowska¹⁷ Nerissa Russell¹⁸, Katheryn Twiss¹³, Doris Würtenberger¹⁹

livestock species including sheep, goat, cattle and pig. Instead, Neolithic animal economies in the study regions are shown

1 Department of Anthropology, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, U Context, San Francisco, California, United States of America, 3 D-Lab, University of California, Berkeley, Archaeology, University College London, London, United Kingdom, 5 University of Groningen, Instit Environnements Préhistoire, Antiquité, Moyen Âge, Université Nice Sophia-Antipolis, Nice, France, 7 Depa Vegas, Nevada, United States of America, 8 Institute for Anatomy, Histology and Embryology, University of Adam Mickiewicz University, Poznań, Poland, 10 School of History, Archaeology and Religion, Cardiff Univ Egyptology, University of Liverpool, Liverpool, United Kingdom, 12 Royal Belgian Institute of Natural Science Brook University, Stony Brook, New York, United States of America, 14 Kingston, Ontario, Canada, 15 Arch Jalès, Berrias-et-Casteljau, France, 16 Department of Veterinary Sciences, Institute of Palaeoanatomy, Do Maximilian University Munich, Munich, Germany, 17 Institute of Geology, Adam Mickiewicz University University, Ithaca, New York, United States of America, 19 Institute of Prehistoric and Historical Archa-Collection of Anthropology and Palaeoanatomy, Munich, Germany

Abstract

This study presents the results of a major data integration project bringing toge 200,000 faunal specimens excavated from seventeen sites in Turkey spann periods, c. 18,000-4,000 cal BC, in order to document the initial westward spr central and western Turkey. From these shared datasets we demonstrate that subsistence technologies combined multiple routes and pulses but did not involve a set package comprising an rour

Data Reuse:

- At least 3 other papers reuse, cite these data
- ALL use CSV dumps of the data, not fancy JSON-LD
- No reasoning on graphs, inferences on data modeling
- The CSV expresses data aligned to shared LOD controlled vocabularies, ontologies



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RESEARCH ART

Data S across

Benjamin Lionel Go Hijlke Bui Daniel He Nerissa Ru

1 Department o Context, San Fr Archaeology, U Environnements Vegas, Nevada, Adam Mickiewic Egyptology, Uni **Brook University** Jalès, Berrias-et-Maximilian Univ University, Ithac. Collection of AntiOpen Context Retweeted

Ben Marwick @benmarwick · 3m

Exemplary open data practices by @suzie birch et al., using @OpenContext & DOIs in their latest in @PLOSONE journals.plos.org/plosone/articl... = 6

(i.e., [61]). We compare data from multiple Neolithic sites from western Anatolia using primary datasets or raw measurements, directly taken from the open access, peer reviewed data publishing system Open Context (http://opencontext.org), and/or the Logarithmic Size Index (LSI) values following Richard Meadow [62]. All the datasets used in this paper have citable DOIs/persistent identifiers that are listed in the appropriate supporting data tables and cited accordingly in the bibliography [63–69]. At

18

SHARES

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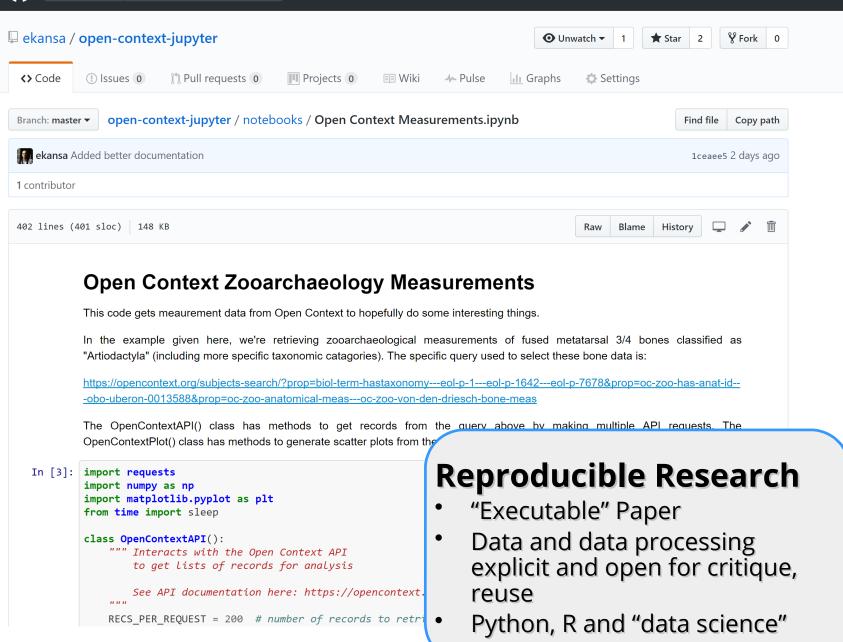
PLOS Articles

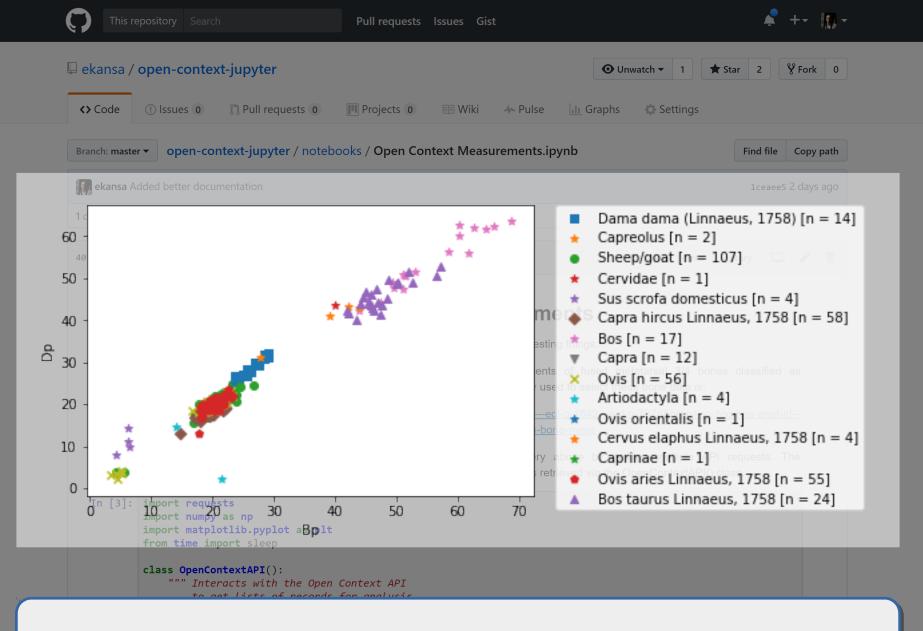
Data Sharing omplexity in the d Spread of Animals across

Veolithic Turkey

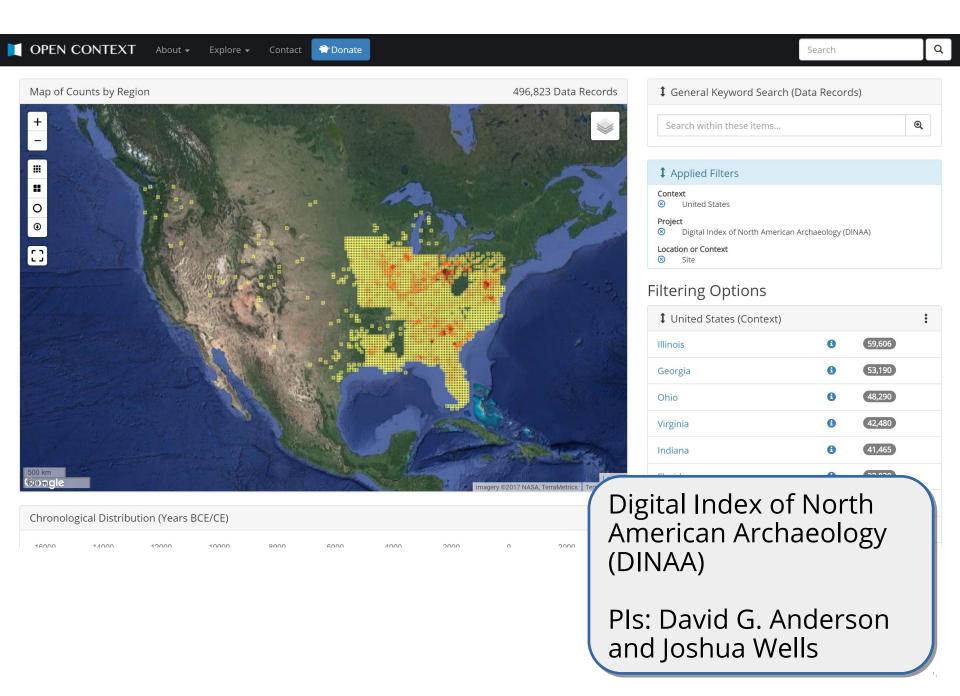
Abstract

This study presents the results of a major data integration project bringing together primary archaeozoological data for over 200,000 faunal specimens excavated from seventeen sites in Turkey spanning the Epipaleolithic through Chalcolithic periods, c. 18,000-4,000 cal BC, in order to document the initial westward spread of domestic livestock across Neolithic central and western Turkey. From these shared datasets we demonstrate that the westward expansion of Neolithic subsistence technologies combined multiple routes and pulses but did not involve a set 'package' comprising all four livestock species including sheep, goat, cattle and pig. Instead, Neolithic animal economies in the study regions are shown





Only feasible with Linked Data annotations to shared concepts









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⑥ OPEN ACCESS
№ PEER-REVIEWED

RESEARCH ARTICLE

Sea-level rise and archaeological site destruction: An example from the southeastern United States using DINAA (Digital Index of North American Archaeology)

David G. Anderson

□ Thaddeus G. Bissett

□, Stephen J. Yerka

□, Joshua J. Wells

R, Eric C. Kansa

R, Sarah W. Kansa

R, Kelsey Noack Myers

R. Carl DeMuth

R, Devin A. White

R

Published: November 29, 2017 • https://doi.org/10.1371/journal.pone.0188142

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Save	Citation
10,403	29
View	Share







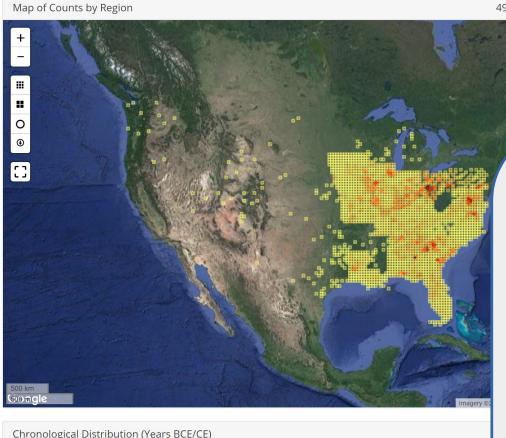


guardian.co.uk





Search



All search and query results returned as GeoJSON (open Internet standard)

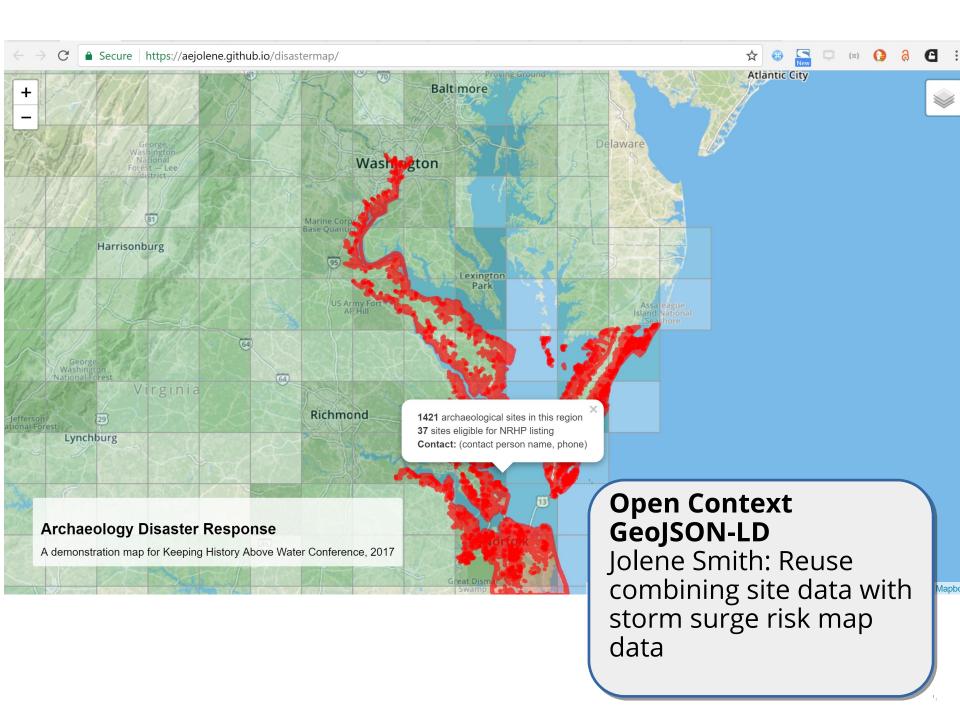
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"@context": [
   "https://opencontext.org/contexts/search.json",
    "http://geojson.org/geojson-ld/geojson-context.jsonld"
  "type": "FeatureCollection",
 "oc-api:max-disc-tile-zoom": 11,
 "oc-api:response-tile-zoom": 7,
  "oc-api:geotile-scope": "0",
 "features": [
      "id": "https://opencontext.org/search/United+States?disc-
geotile=0320122&response=geo-facet&prop=oc-gen-cat-loc-or-context---oc-gen-cat-
site&proj=52-digital-index-of-north-american-archaeology-dinaa",
      "json": "https://opencontext.org/search/United+States.json?disc-
geotile=0320122&response=geo-facet&prop=oc-gen-cat-loc-or-context---oc-gen-cat-
site&proj=52-digital-index-of-north-american-archaeology-dinaa",
      "count": 278,
      "type": "Feature",
      "category": "oc-api:geo-facet",
      "when": {
        "id": "#event-0320122",
        "type": "oc-gen:formation-use-life",
        "start": "-14999",
        "stop": "1950"
     "geometry": {
```

OPEN CONTEXT

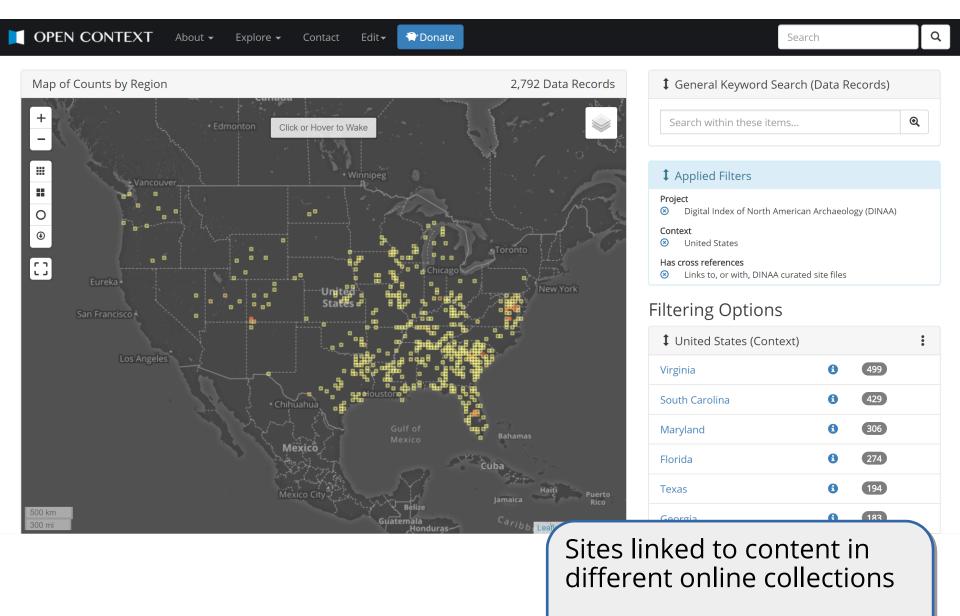
About ▼

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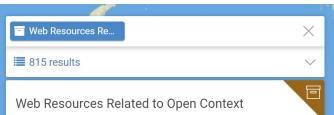
Donate







Linking government data with broader civil society



Published Places

http://opencontext.org/about/recipes

This dataset relates archaeological site records published by Open Context to content published elsewhere on the Web. In some cases, Open Context contributors and/or editors manually identified these relationships. In other cases, software processes followed by editorial checks identified linkages expressed in this dataset.

15000 BC - 1900 AD

THE GAST FARM SITE (13LA12) FAUNAL RE...

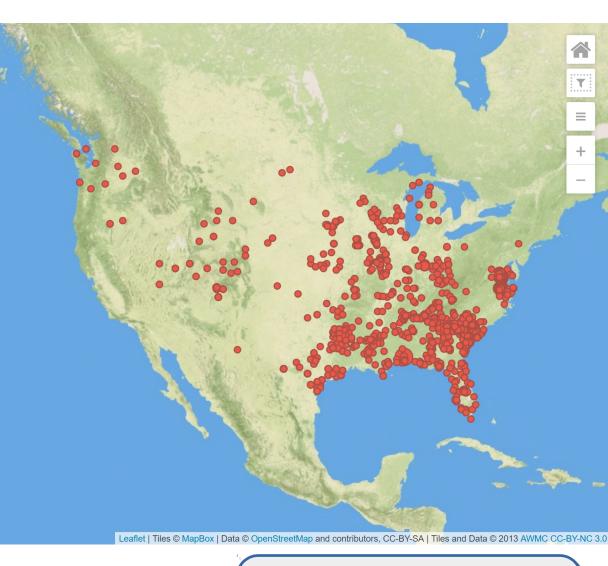
Content in the tDAR repository identified to relate to one or ... 199 BC - 400 AD

Web Resources Related to Open Context Published Places

Native American Graves Protection and Repa...

Content in this data source relates to one or more archaeol... 1249 BC - 900 AD

Web Resources Related to Open Context Published Places



Pelagios: Annotations to content with Open Context sites serving as a gazetteer

Annotation Vocabularies

Biological Taxonomy Vocabulary

British Museum Thesaurus

Open Context Zooarchaeology **Annotations**

CIDOC-CRM

Concordia

Many, many, many Digital Index of North A

Archaeology Vocabular niche" topics

Dublin Core Terms

Eastern Woodlands Housen Chaeology Parchaeology Data Project Simple Knowledge Organization System

Encyclopedia of Life

GeoNames
Getty Art and Architect **Scale** & relevance er Anatomy Ontology)

Information Artifact Ontology hard to achieve.

Kerameikos.org

Levantine Ceramics Project

Library of Congress Subject Headings

Open Context (General)

Wikipedia

WikiMapia

WorldCat



Project Abstract

Oracle bones — animal bones used for pyro-osteomantic divination rituals in East Asia — are one of the most important types of bone artifacts in Chinese Neolithic and Bronze Age sites and the source of inscriptions containing the earliest writing in ancient China. Although these inscriptions are the focus of most research, oracle bone use far pre-dates the inscribed examples and continues after they were a primary medium for writing. Uninscribed oracle bones are rarely published and there is a lack of metric data available for studying spatial and temporal trends in oracle bone manufacture and use. In the Oracle Bone Project, we are reviewing collections of oracle bones housed in institutions across China in order to collect comprehensive data on the types of animal bones used in divination, the methods of oracle bone manufacture, and the archaeological contexts in which the bones are found. Our goal is to trace the origins of oracle bone divination rituals, their spread across Asia during the Neolithic, and the ultimate development of oracle bone divination as a central part of Shang Dynasty royal religious practices. The project brings new zooarchaeological and technological perspectives to research on oracle bones and address Anthropological questions about the role of ritual technologies in household and state-level institutions.

Data collected as part of the Oracle Bone Project is published on Open Context in a multi-language open access format. The raw data can be used by researchers around the globe to examine temporal and spatial trends in oracle bone manufacturing and use. Our focus is on uninscribed cases that have not received as much scholarly attention, but we encourage other scholars and institutions to upload additional data from inscribed or uninscribed oracle bones in their own collections. All contributions are associated with a publication record that is fully citable, searchable, downloadable in multiple formats, and linked to data standards that facilitate interoperability. Data input forms in English, Chinese, Korean, and Japanese are coming soon!

The Oracle Bone Project is an international collaboration between the Institute of Archaeology, Chinese Academy of Social Sciences (IA CASS) and Harvard University. The project co-PIs are Katherine Brunson (Postdoctoral Fellow, Harvard Fairbank Center for Chinese Studies), Rowan Flad (Harvard University Department of Anthropology), and Zhipeng Li (Institute of Archaeology, Chinese Academy of Social Sciences).

Annotations (3)

[Standard: Dublin Core Terms]

Property or Relation Value(s)

Subject

Archaeology Q

[Standard: Library of Congress Subject Headings]

Browse Project

■ Data Records ▼

Sub-Projects

http://opencontext.org/projects/27e90af3-6bf7-4da1-a1c3- 7b2f744e8cf7> DOI: http://dx.doi.org/10.6078/M74B2Z7J

(Eds.). Released: 2016-04-04. Open Context.

Media

Editorial Status

Page created by Open Context editors. Not reviewed.

Part of Project

Open Context [General]

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Required Attribution: Citation and reference of URIs (hyperlinks)

Descriptive Property or Relation: 位置 (Bone Zones Present)

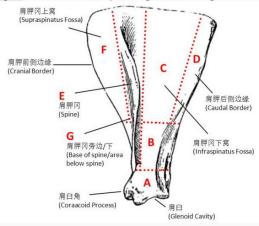
Descriptions (2)

 Descriptive Variable
 Value(s)

 Definition or note
 List all parts of the element that are present, according to the classification system defined

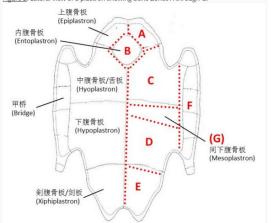
For the scapula: Zone A includes the glenoid cavity and most distal part of the
neck/collum scapulae; Zone B includes the neck and the distal portion of the blade
closest to the neck where the bone is still fairly thick; Zone C includes the infraspinatus
fossa (the broad flat part of the blade); Zone D is the caudal border; Zone E is the spine;
Zone F includes the supraspinatus fossa and cranial border; and Zone G includes the
base of the spine or the area under the spine in cases where the spine was removed.

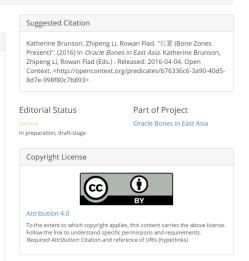
Figure 1: Lateral view of a left Bos scapula showing bone Zones A through G.



 For the plastrom. Zone A is the epiplastron; Zone B is the entoplastron; Zone C is the hyoplastron; Zone D is the hypoplastron; Zone E is the Xiphiplastron; Zone F is the bridge; and Zone G is the mesoplastron (where present).

Figure 2: Lateral view of a plastron showing bone Zones A through G.

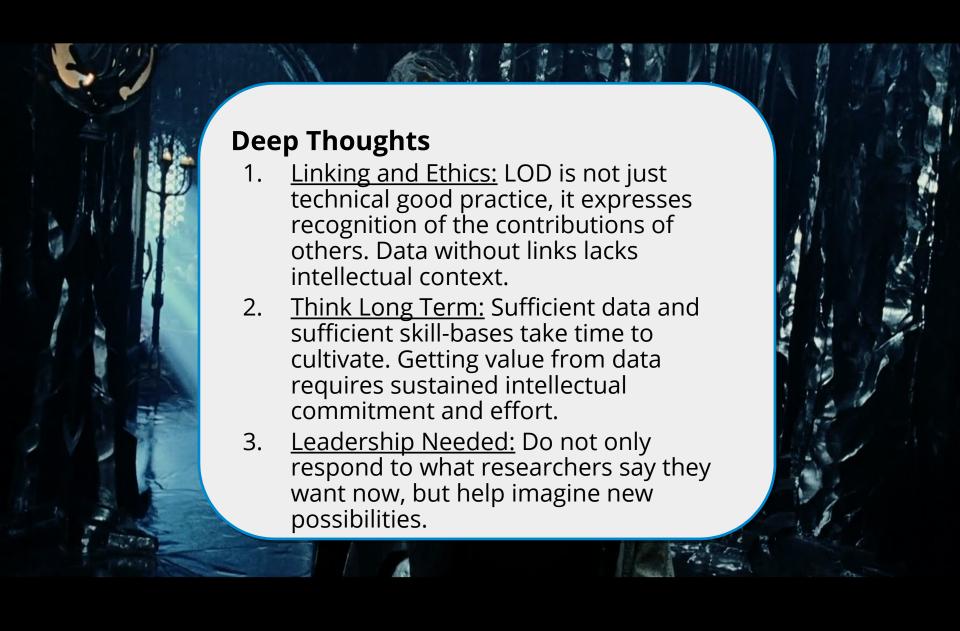




Publishing Vocabularies

- Formally publish reusable recording systems + vocabularies ("standards")
- 2. Researchers put lots of effort in classifying materials, make this work computationally useful!





THANK YOU!









Special Thanks!

Prof. Barbara Mills University of Arizona Anthropology









