

Capacity Building in (Digital) Archaeology

Eric Kansa
UC Berkeley / OpenContext.org



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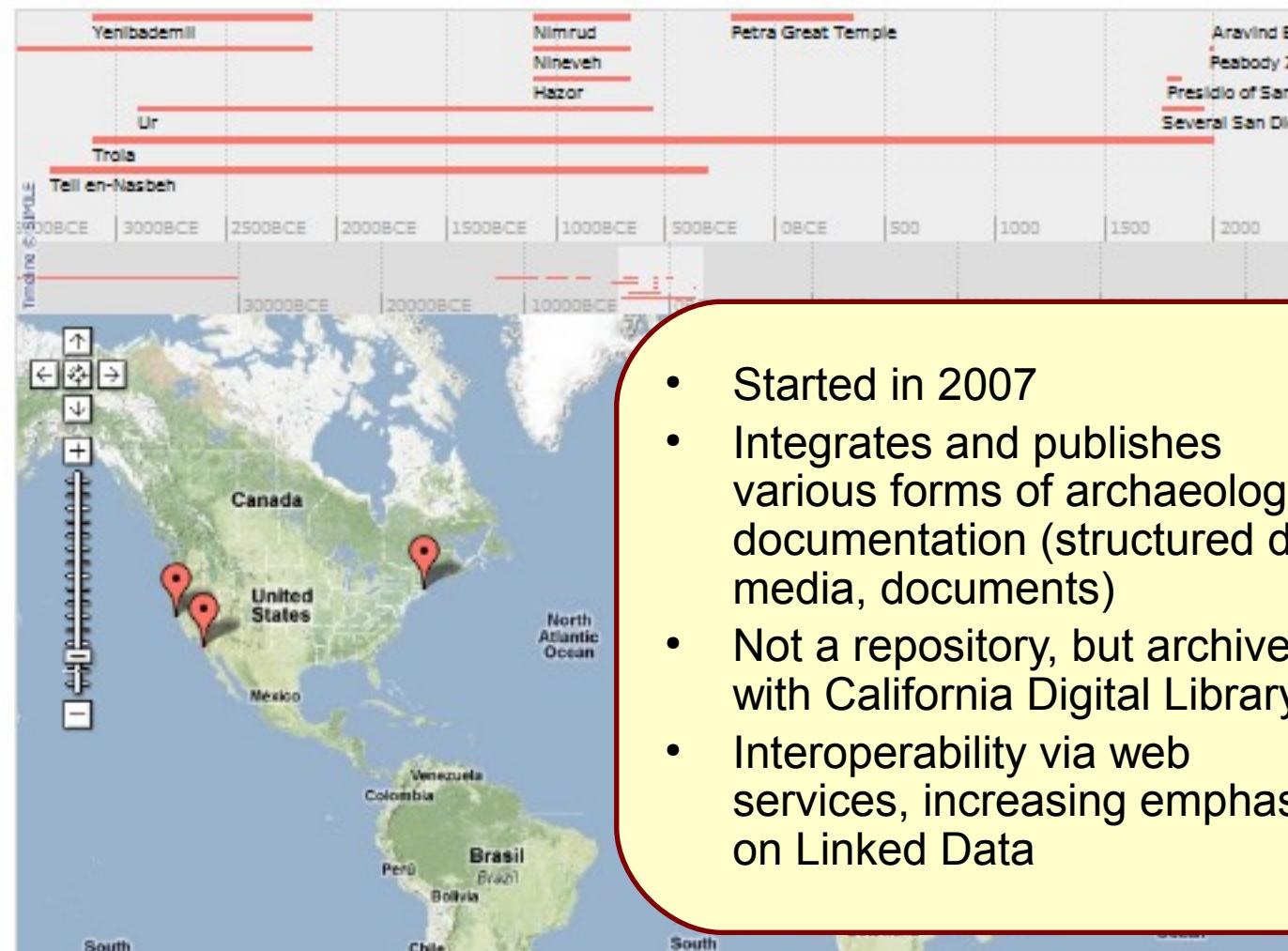
Home About Projects Browse Lightbox Tables Details My Account

Search

GO

Welcome to Open Context

Use Open Context to discover, reference, and publish primary data and documentation collected in archaeology and other field sciences by professional researchers. *Scroll* through the timeline and map below to begin exploring data, Images, reports and field documentation.



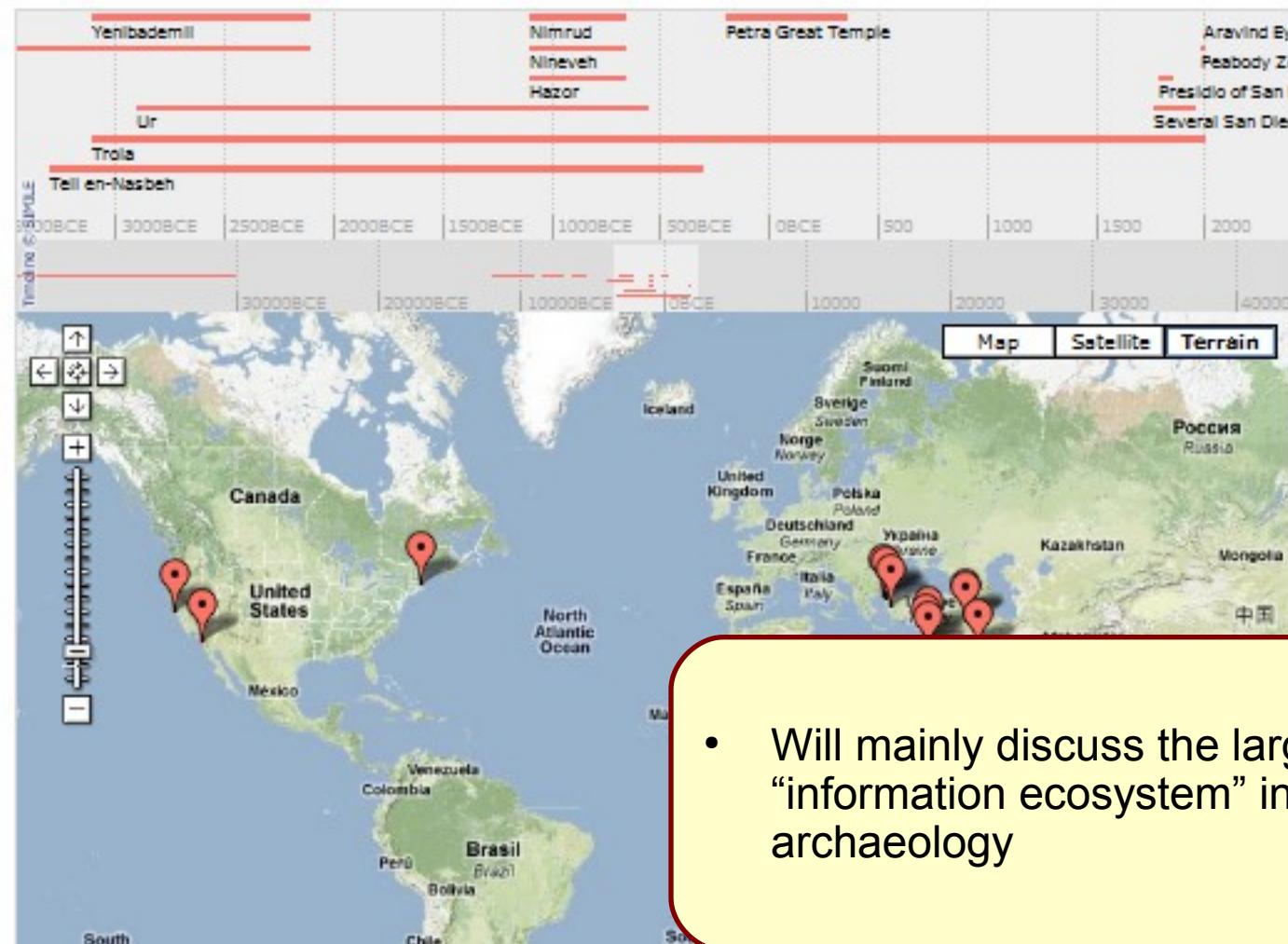
Home About Projects Browse Lightbox Tables Details My Account

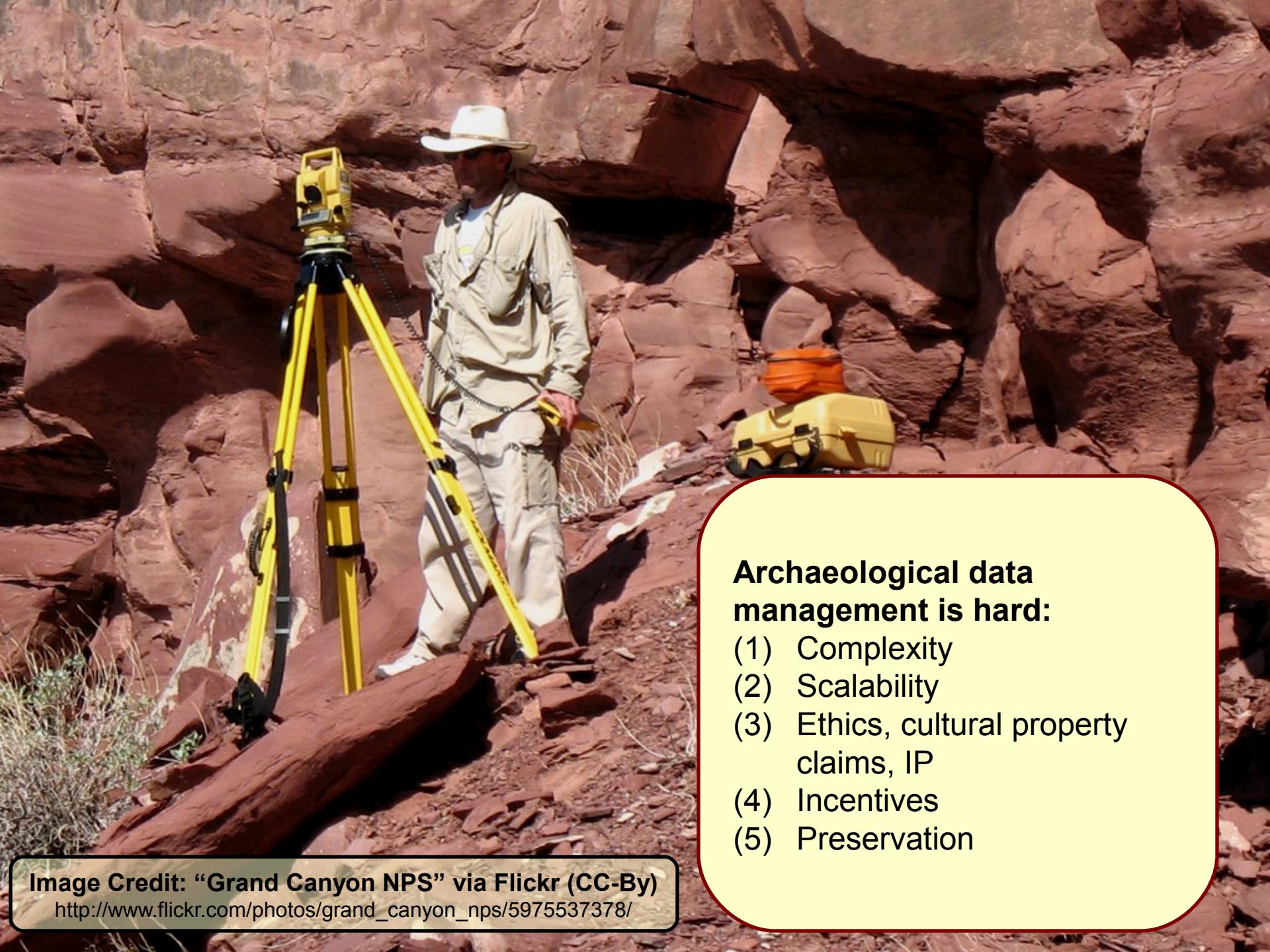
Search

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Welcome to Open Context

Use Open Context to discover, reference, and publish primary data and documentation collected in archaeology and other field sciences by professional researchers. *Scroll* through the timeline and map below to begin exploring data, Images, reports and field documentation.





Archaeological data management is hard:

- (1) Complexity
- (2) Scalability
- (3) Ethics, cultural property claims, IP
- (4) Incentives
- (5) Preservation

Image Credit: “Grand Canyon NPS” via Flickr (CC-By)
http://www.flickr.com/photos/grand_canyon_nps/5975537378/



Image Credit: “Brainchildvn” via Flickr (CC-By)

<http://www.flickr.com/photos/brainchildvn/3957949195>



May You Live in Interesting Times

- Traditional career paths harder (academia, government, commercial), less permanence
- More demanded from archaeology, often with fewer resources
- Need for new skills and professional outcomes

Image Credit: “Brainchildvn” via Flickr (CC-By)
<http://www.flickr.com/photos/brainchildvn/3957949195>

OPEN ACCESS

More Pressure for Openness

- Increasing demands for Open Access publishing (Open Government)
- Increasing demands for “Open Data” (or at least more data accountability)
- Costs, ethics, research opportunities / needs



Archaeology 2.0 – Contents

Posted by [Henry Rothwell](#)

Archaeology 2.0: New Approaches to Communication and Collaboration.

Notes on the HTML version.

Any of the text references that referred to live websites have been replaced with hyperlinks to the relevant website. If you see any **text in bold** it will contain a footnote – this has been done to preserve the flow of the text – if you hover your cursor over the text the footnote will appear.

Introduction: New Directions for the Digital Past.

Eric C. Kansa.

Editors, Contributors, Preface and Acknowledgements.

Section 1: A Web of Archaeological Data: Infrastructure, Services, and Interoperability.

Chapter 1

The Archaeology Data Service and the Archaeotools Project: Faceted Classification and Natural Language Processing.

Julian Richards, Stuart Jeffrey, Stewart Waller, Fabio Ciravegna, Sam Chapman, and Ziqi Zhang.

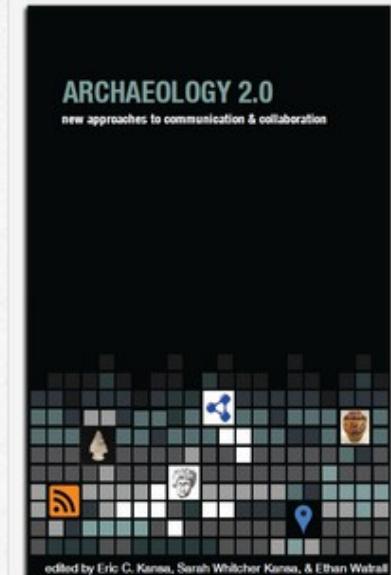
Chapter 2

Toward a Do It Yourself Cyberinfrastructure: Open Data, Incentives, and Reducing Costs

Follow DD



Archaeology 2.0



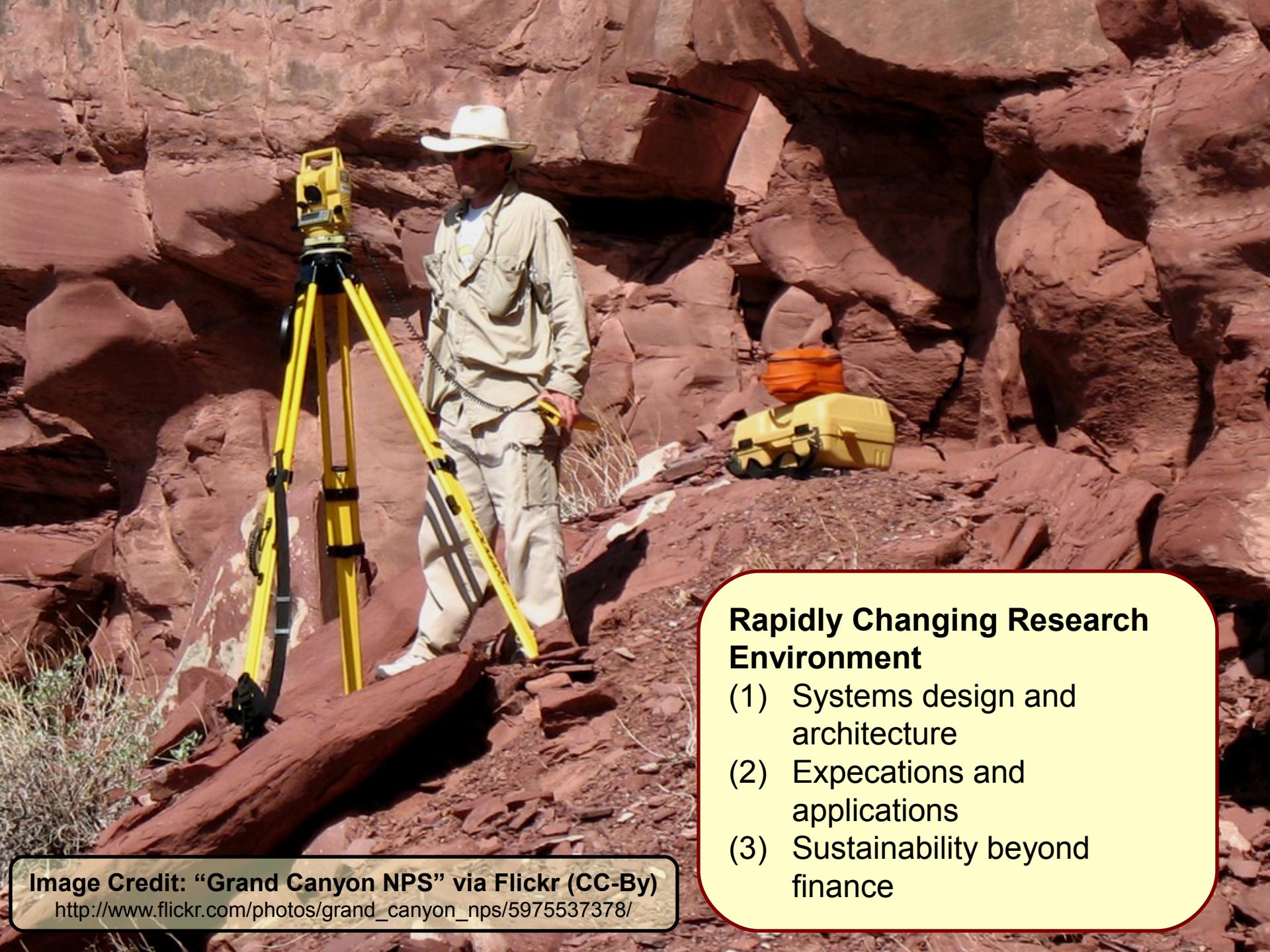
Archaeology 2.0 - click image for availability options.



Shifts in Career Paths and Professions (#alt-academy)

- “Alt-Acs”, multidisciplinary / interdisciplinary programs
- Changing needs in expertise
- Evolving expectations for professional outputs

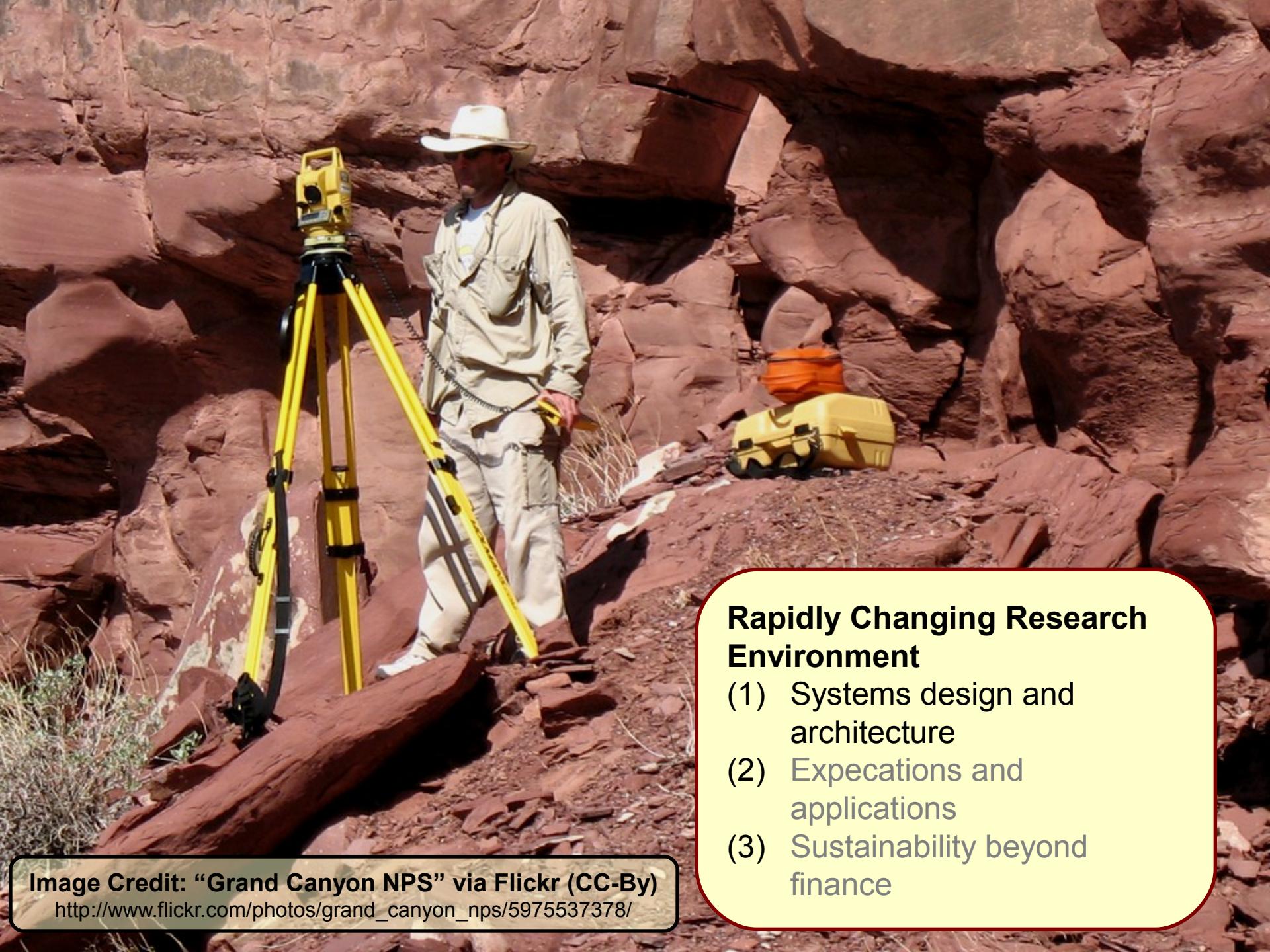
Bethany Nowviskie (University of Virginia)



Rapidly Changing Research Environment

- (1) Systems design and architecture
- (2) Expectations and applications
- (3) Sustainability beyond finance

Image Credit: “Grand Canyon NPS” via Flickr (CC-By)
http://www.flickr.com/photos/grand_canyon_nps/5975537378/



Rapidly Changing Research Environment

- (1) Systems design and architecture
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Image Credit: “Grand Canyon NPS” via Flickr (CC-By)
http://www.flickr.com/photos/grand_canyon_nps/5975537378/

(Sir) Tim Berners-Lee



Inventing the Web

A screenshot of a TED talk video player. The video frame shows a man with a shaved head, wearing a dark blue long-sleeved shirt and jeans, standing on a stage and gesturing with his hands. The background is dark with some blue lighting. The TED logo and the tagline "Ideas worth spreading" are visible at the top left of the video frame. At the bottom of the video frame, there is a red progress bar, a play button icon, and three small interactive buttons labeled "Share", "Speaker", and "10:38 | 16:51".

TED Ideas worth spreading

Invented the Web (with colleagues) 22+ year ago

10:38 | 16:51

Invented the
Web (with
colleagues) 22+
year ago

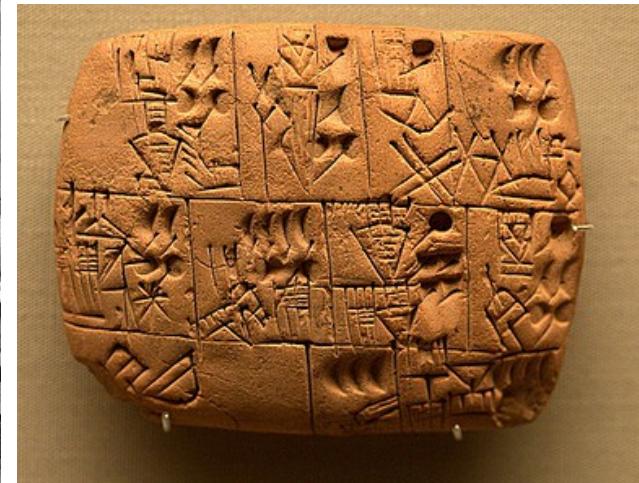
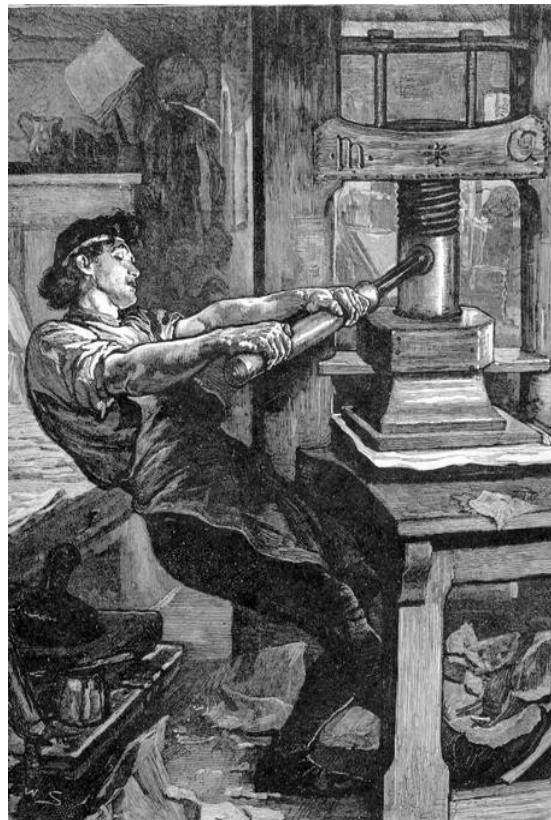
Inventing the Web

TED Ideas worth spreading

A screenshot of a TED Talk video player. The video frame shows a man with a beard and glasses, wearing a dark blue long-sleeved shirt, standing on a stage and gesturing with his hands. The background is dark with some blue lighting. Below the video frame is a red progress bar with a play button icon on the left. At the bottom of the player are three buttons: 'Share' with a link icon, a volume icon, and a timestamp '10:38 | 16:51'.



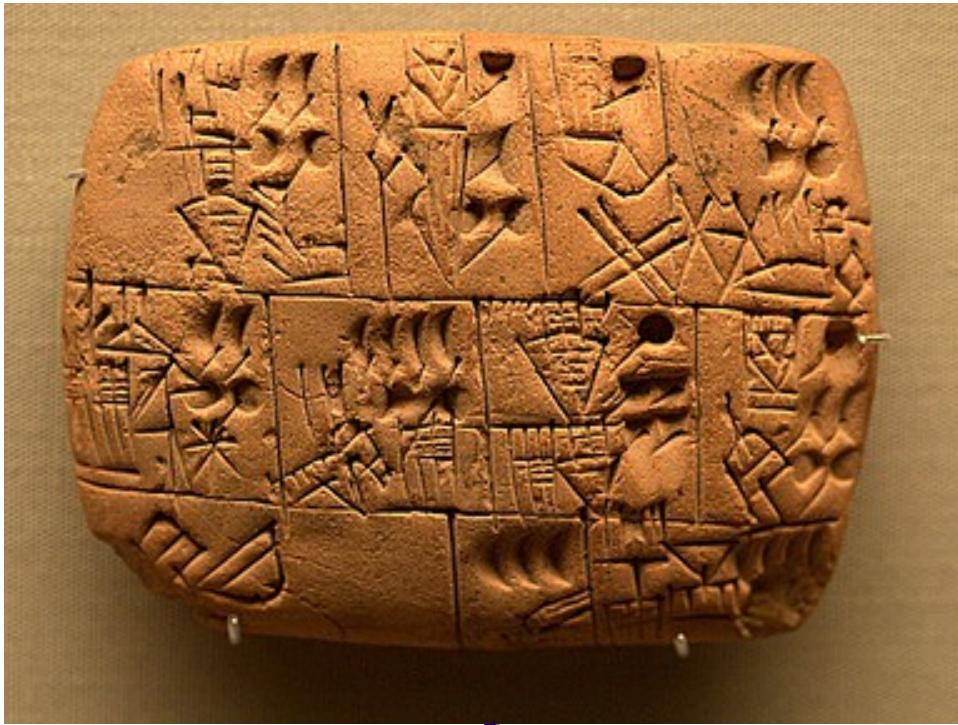
Inventing the Web





3500 3400 3300 3200 3100 3000 2900 2800 2700 2600 2500 2400

Image Credit: “Takomabibelot” via Flickr (CC-By)
<http://www.flickr.com/photos/takomabibelot/3124619443>



**First Literature /
Narratives**





**First Literature /
Narratives**

3500 3400 3300 3200 3100 3000 2900 2800 2700 2600 2500 2400

**(600+ years) Hopefully, better scholarly
use of Web will be more rapid !**

Koans of Wisdom (via YouTube)



OPENNESS, MODULARITY AND
EXTENSIBILITY

Dan Cohen at the Coalition for Networked Information (2010)
<http://www.youtube.com/watch?v=yeNjiuw-6gQ>

Koans of Wisdom (via Twitter)



Erik Wilde @dret

21 Jan

system think and ecosystem think seem to be almost irreconcilable:
suck everything in, or turn the inside out and expose all relevant
parts.

Expand

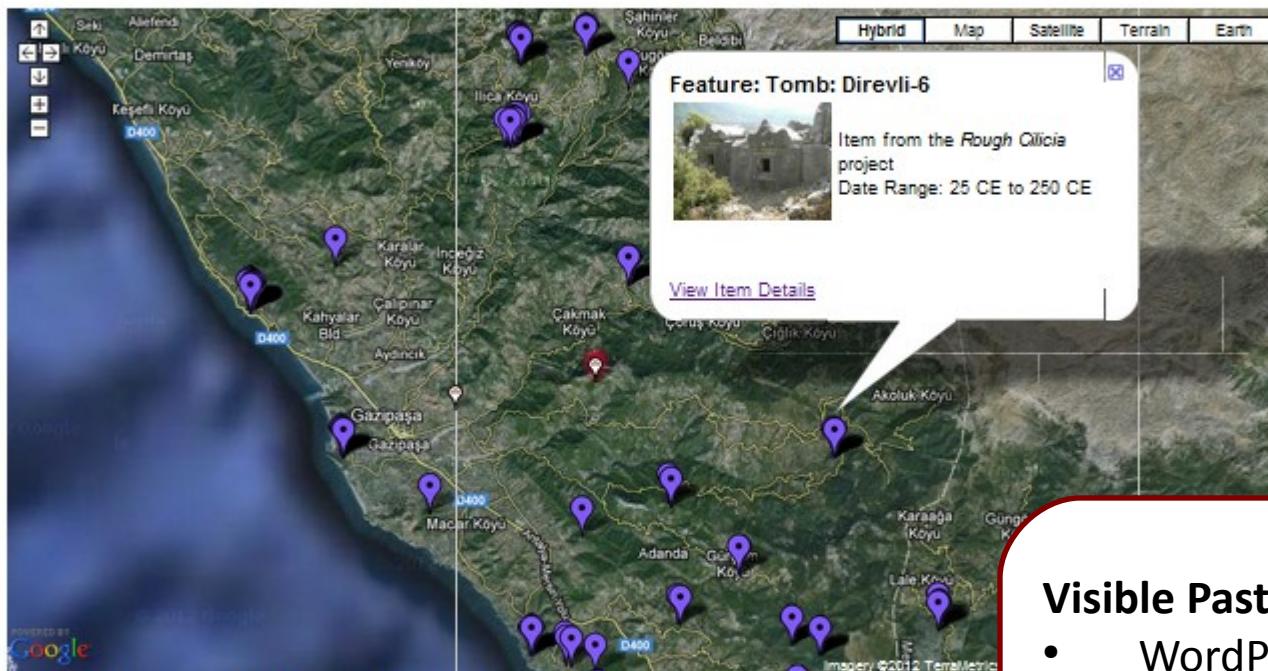
Beyond the Silo



- Often too much emphasis on single systems, need to consider relationships across systems
- Even if one reaches some scale, it can't be isolated from the rest of the Web
- Machines are important “audiences” (e.g. RESTful Services: Atom, AtomPub, JSON, etc.)

Visible Past

Africa Americas Antiquity Asia Australia and Pacific Islands Cilicia Europe Medieval Modern News Papers Prehistory Recent History



Burial Remains in Roman Rough Cilicia Report

By Nicholas Rauh, Sorin Adam Matei, and Matthew Dillon

Home > Asia > Middle East > Burial Remains in Roman Rough Cilicia Report

Since 1996 the [Rough Cilicia](#) Archaeological Survey has examined an extensive area of western [Rough Cilicia](#) in order to obtain a more balanced appraisal of the historical process of Romanization in this peripheral region of the Eastern Mediterranean. The main purpose of the survey has been to identify cultural indicators of the indigenous population of western [Rough Cilicia](#) as these survive in the landscape and to assess the degree to which indigenous culture was shaped by offshore forces such as commerce and military conquest during antiquity. In peripheral areas such as western Rough Cilicia, evidence of native adoption of imported modes of economic production furnish a unique opportunity to view the development of an imperial world system through the lens of local societies. To date, the survey has investigated nine small urban sites characterized as "cities" or poleis, twelve "village" sites, and more than 100 non-urban loci of past human experience. The variety and the unique



ARCHAEOLOGICAL SURVEY PROJECT

About this map :
The map depicts location Cilicia Archeological Survey University Professor Nicholas Rauh indicates a location associated with the project. Clicking any of them provides more details about a specific site discovered by the Rough Cilicia Archeological Survey team. All materials on this site are copyright protected.

Visible Past

- WordPress site
- Sorin Matei (Communications Prof., Purdue University)
- Some facilities for print-on-demand

autochthonous and Anatolian throughout the Roman era. Along the coast land-holding elites who largely assimilated mainstream Greco-Roman culture were dominant; in the highlands an Isaurian-based laboring population appears to have prevailed. While the mixing of these two elements was inevitable, careful analysis of the in situ burial remains does seem to delineate the existence of two distinct cultural zones based on altitude.



Visible Past

- Integrate textual narrative with various media (video, geospatial data)
- Draws upon a variety of Web Services

Posted 02 Apr 2012 by Nicholas Rauh in Asia, Cilicia, Middle East

← 3D reconstructions of Malapa Plio-Pleistocene cave and Australopithecus Sediba fossils (Video, Photo, Maps)

A New Approach to Reporting Archaeological Surveys: Connecting Rough Cilicia, Visible Past and Open Context through loose coupling and 3d codes →

Ancient Ancient Rome Archaeological Computing

Archaeology Byzantine Empire capitoline Hill Castor &

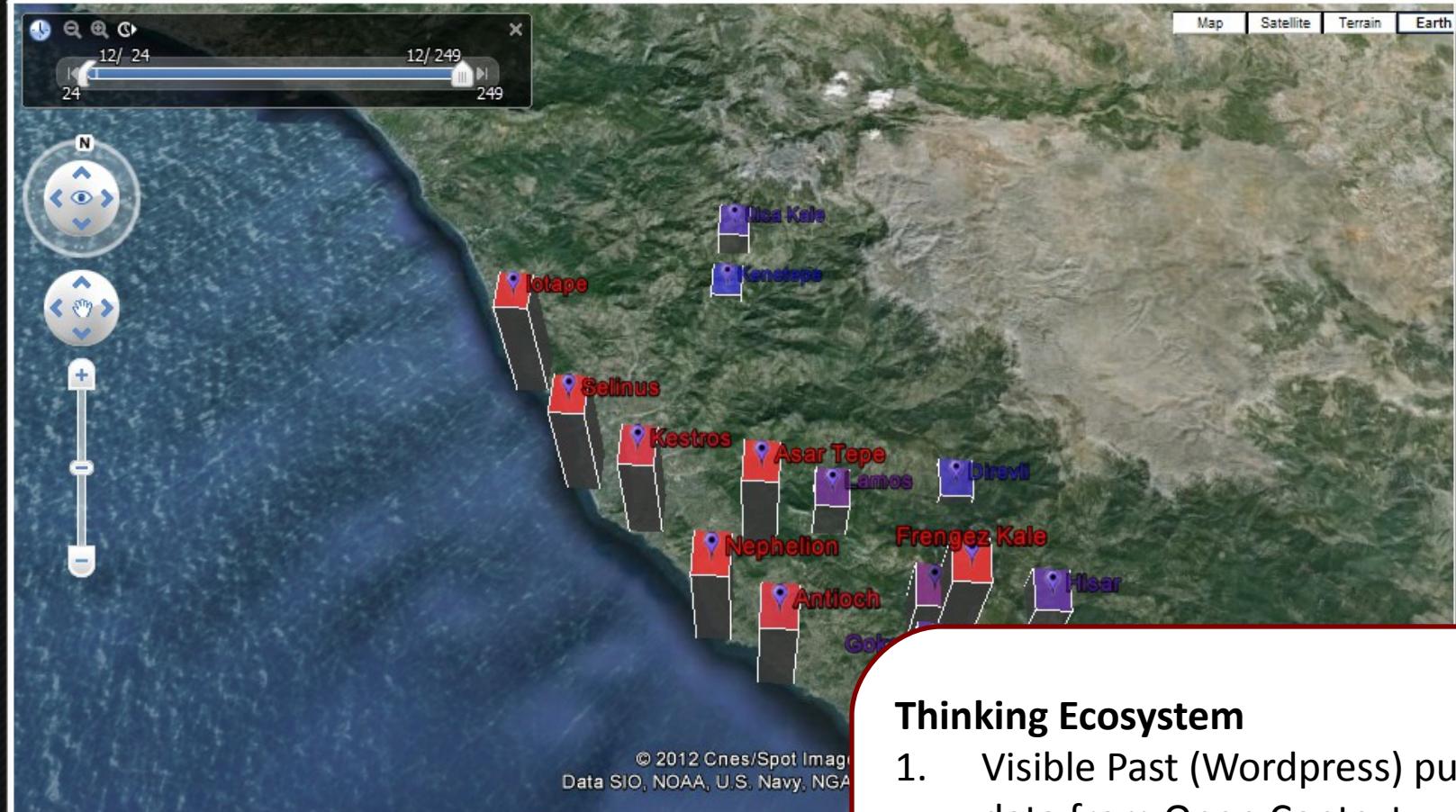
Pollux Castor and Pollux Chogha Mish Cilicia Construction

Latest Visible Past Project

- [Rough Cilicia Archeological Survey: Bickici Highland Region May 3, 2010](#)
Nicholas Rauh ...
- [Roman Sagalassos Valley May 3, 2010](#)

Categories

Select Category

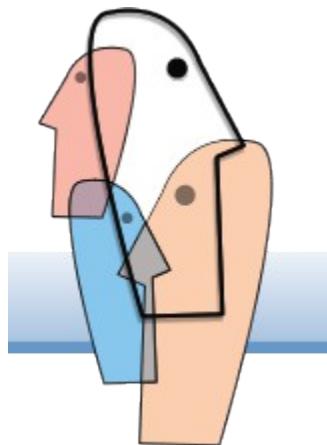


Thinking Ecosystem

1. Visible Past (Wordpress) pulls in data from Open Context
2. Narrative and structured data integrated together in argument
3. Easy to reintegrate in alternative arguments

region of the Eastern Mediterranean. The main purpose of the survey has been to identify cultural indicators of the indigenous population of western Rough Cilicia as these survive in the landscape and to assess the degree to which indigenous culture was shaped by offshore forces such as commerce and military conquest during antiquity. In peripheral areas such as western Rough Cilicia, evidence of native adoption of imported modes of economic production furnish a unique opportunity to view the development of an imperial world system through the lens of local societies. To date, the survey has investigated nine small urban sites characterized as "cities" or poleis, twelve "village" sites, and more than 100 non-urban loci of past human experience. The variety and the unique

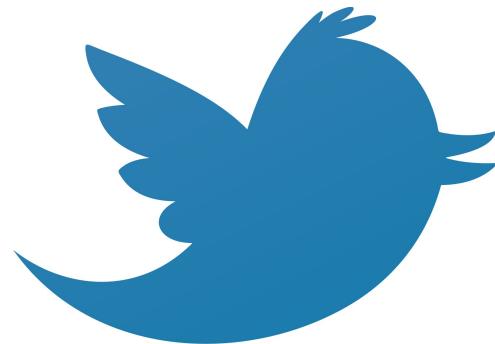
SURVEY PROJECT
About this map :
The map depicts location
Cilicia Archeological Su
University Professor Ni
indicates a location assoc
Clicking any of them pro
specific site discovered b
Archeological Survey team
are copyright protected.



Commerical Entrants

1. Data sharing, Management
2. Social Networking, Vetting
3. Version Control, Collaboration
4. Search, Discovery
5. Visualization
6. Impact and Ranking

Koans of Wisdom (via Twitter)



Erik Wilde @dret

21 Jan

system think and ecosystem think seem to be almost irreconcilable:
suck everything in, or turn the inside out and expose all relevant
parts.

Expand

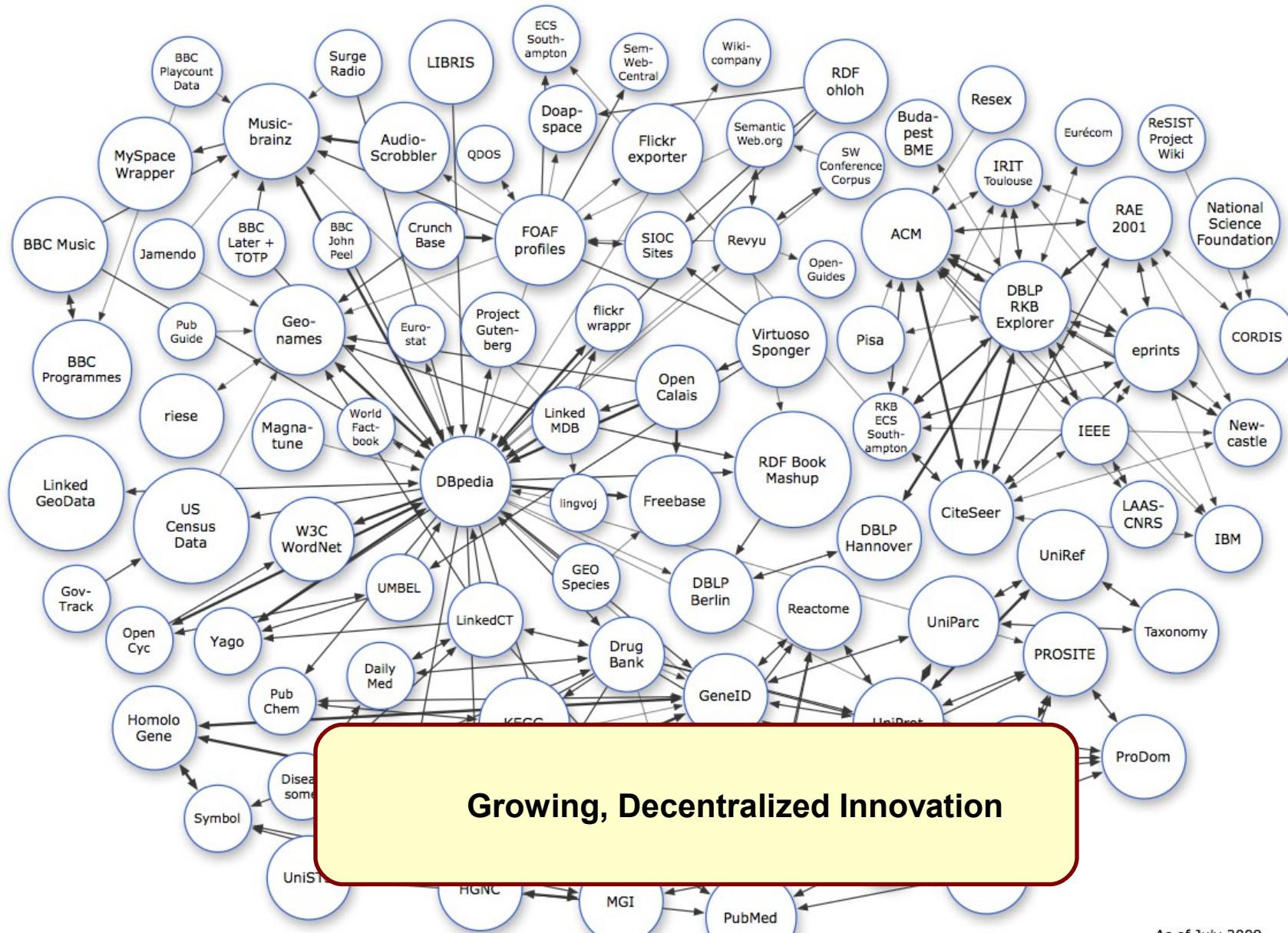
Linked Open Data



The image shows a screenshot of a TED Talk video player. At the top left is the TED logo with the tagline "Ideas worth spreading". At the top right is a zoom control icon. The main video frame shows a man from the waist up, wearing a dark long-sleeved shirt and jeans, gesturing with his hands while speaking. Below the video frame is a red progress bar. At the bottom left is a play button icon. In the bottom center are three buttons: "Share", a speaker icon, and a timestamp "10:38 | 16:51".

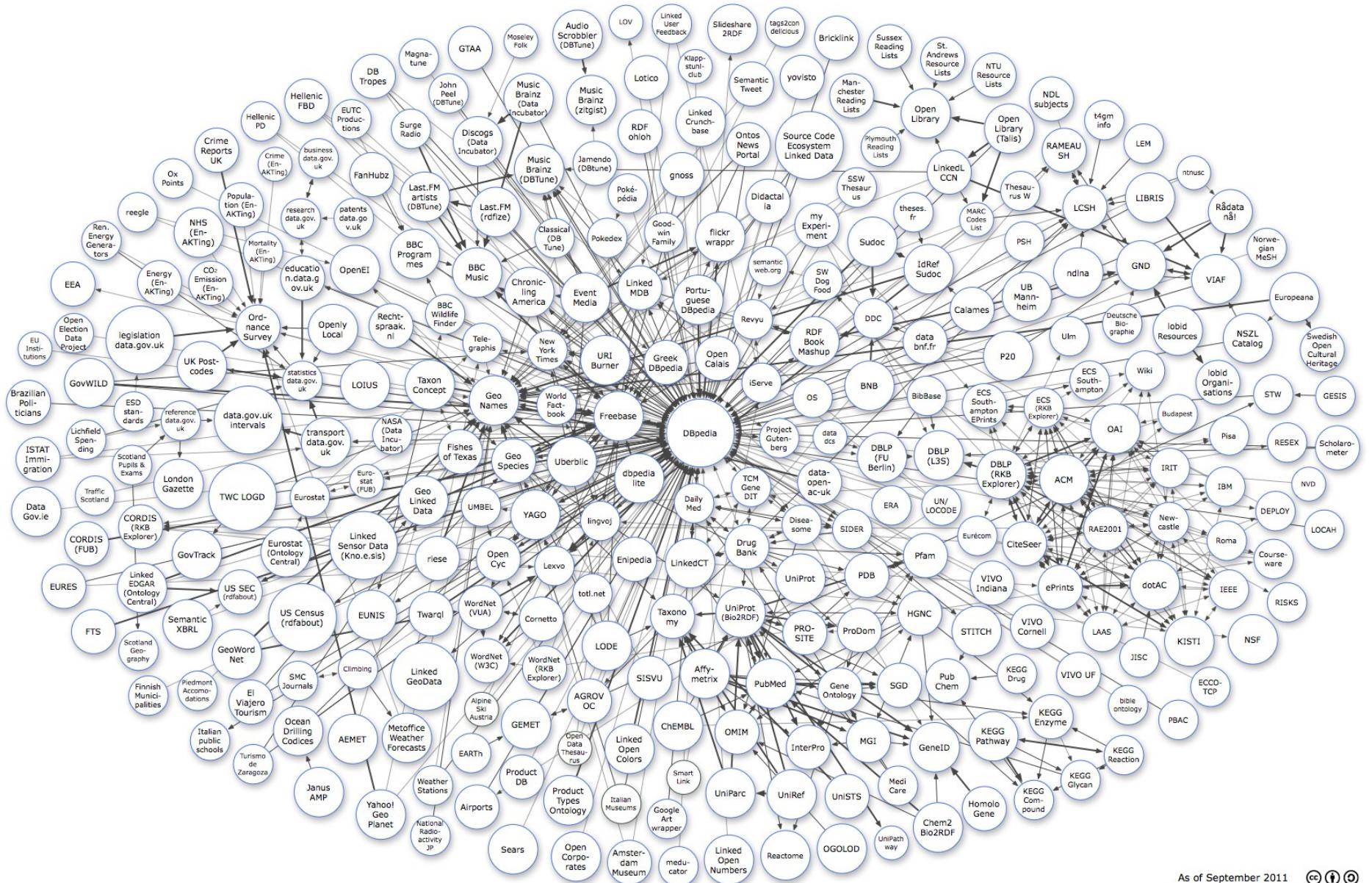
A strategy to
“turn the
inside out and
expose all the
relevant parts”

Web of Data (2009)

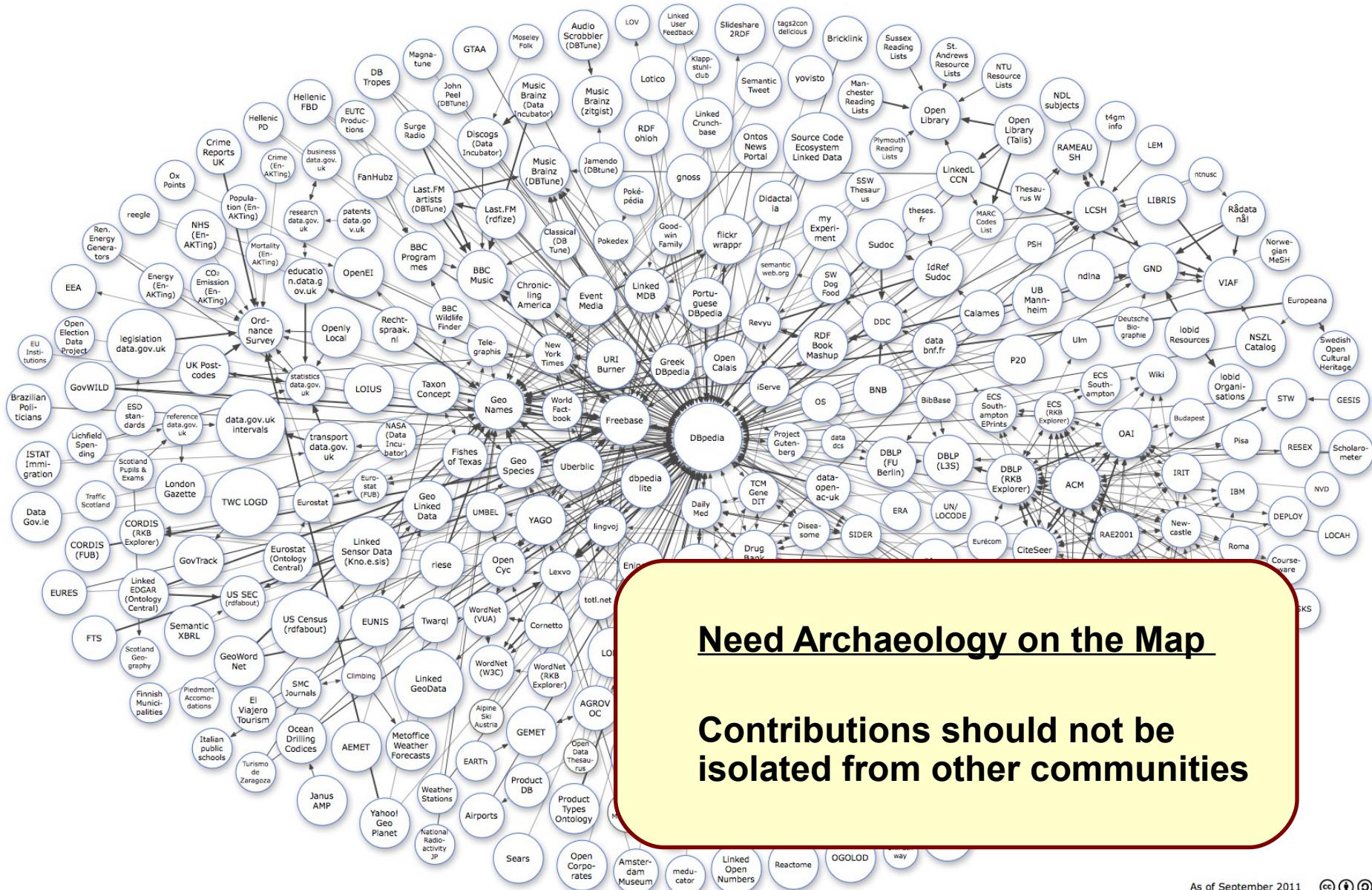


As of July 2009

Web of Data (2011)



Web of Data (2011)



Web of Data (2011)

Archaeology is Increasingly on the Map

Pleiades (ISAW)

Pelagios

British Museum

Mekerte

FASTI Online

Nomisma.org (ANS)

Claros

Arachne

Perseus Digital Library

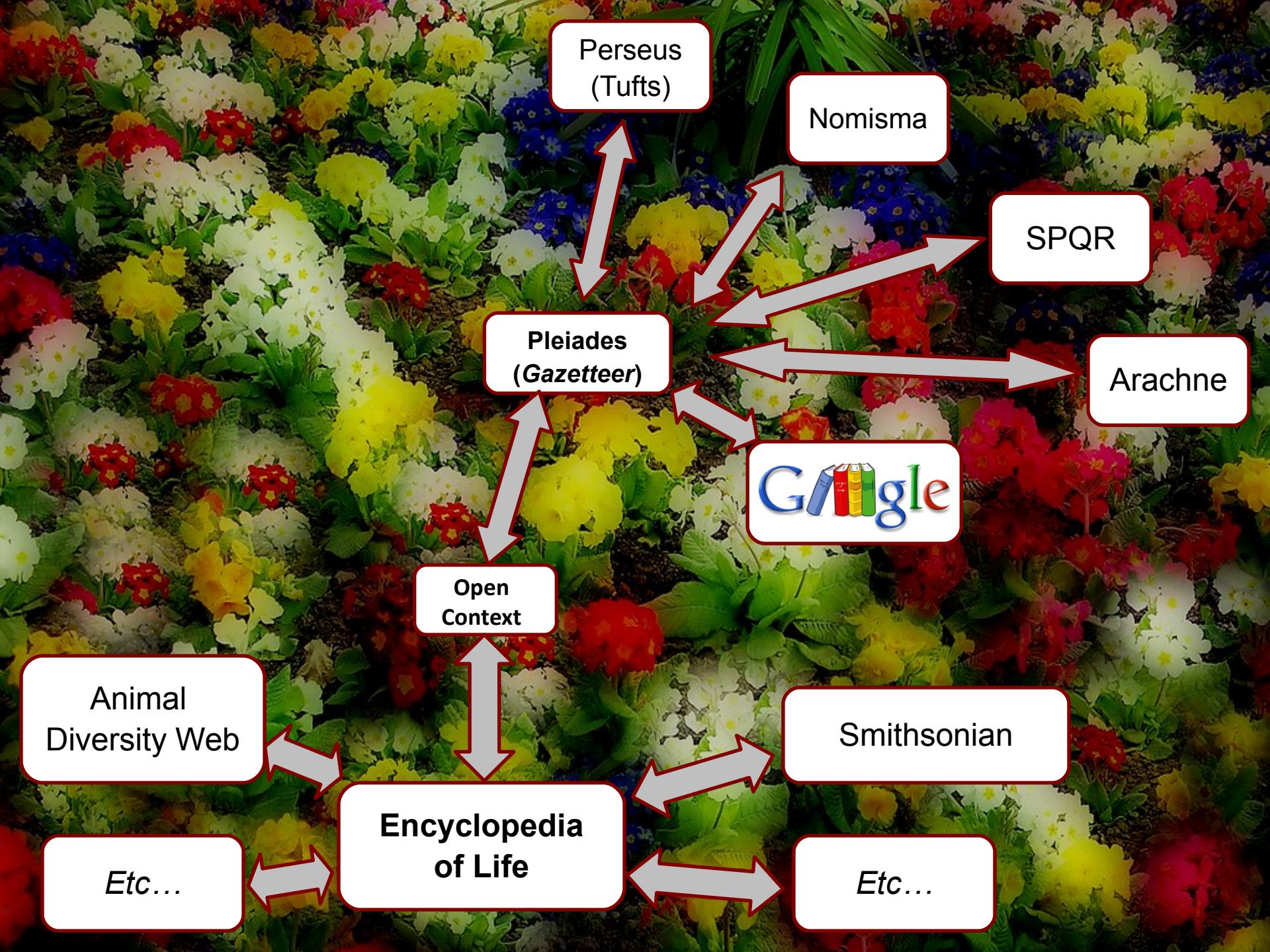
Etc....

*Thanks to pioneering efforts of Sebastian Heath,
Leif Isaksen, Sean Gillies, Tom Elliot and many
others*



Credit: "macieklew" via Flickr (CC-By-SA)

<http://www.flickr.com/photos/macieklew/454570447>



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Item: Bone 100013.04

Number of Views: 198

Class: Animal Bone

Project: Presidio of San Francisco

Context (click to view): United States / California / Presidio of San Francisco

Description (15 properties)

Bag Number	100013
NISP	1
Taxon	Bos taurus
Common name	Cattle
Element	tibia
Part	dist shaft
% preseved	1/4 of complete bone present
Side	Left
Distal end fused?	no
Pathology (describe)	possible infection at lower part of caudal shaft-- bone is slightly discolored
Root etching?	yes
Breakage	ancient
Butchery marks	sawn across shaft transversally, at a slight angle, starting from medial side, and then ripped away at lateral before cut was finished (also has a saw slice on medial where the sawing began and then jumped to the final location)
Fragment length	110
Photo taken?	photo taken

Item Notes

For the specimen label and identification number, the first set of 6 numbers before the period refers to the bag number; the numbers following the period identify specimens within the bag

Suggested Citation:

Sarah W. Kansa. "Presidio of San Francisco: Bone 100013.04 (Animal Bone)" (Released 2010-01-29). Presidio Archaeology Lab (Presidio Trust) (Ed.) Open Context. <<http://opencontext.org/subjects/D5D2BD55-55A2-445F-9258-37A36AAC343E>>

- HTTP URIs to identify resources at a meaningful level of granulaity ("a URL per potsherd")
- Use HTTP URIs published by others
- URIs act as "primary keys" allow data to be related

Linked Media (9 files)





Item: Bone 100013.04

Number of Views: 198

Class: Animal Bone

Project: [Presidio of San Francisco](#)Context (click to view): [United States](#) / [California](#) / [Presidio of San Francisco](#) / [Building](#)

Description (15 properties)

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Root etching?	yes
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Butchery marks	sawn across shaft transversally, at a slight angle, starting from medial side, and then ripped away at lateral before cut was finished (also has a saw slice on medial where the sawing began and then jumped to the final location)
Fragment length	110
Photo taken?	photo taken

- Thanks to NSF, we will be doing this for State Historical Preservation Office data (Stay turned for Josh Wells and Steve Yerka)

Item Notes

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Target concept

Linked Media (9 files)





Item: Bone 100013.04

Number of Views: 198

Class: Animal Bone

Project: [Presidio of San Francisco](#)

Context (click to view): [United States](#) / [California](#) / [Presidio of San Francisco](#) / [Building 39](#) / [FA Box 9](#)

Description (15 properties)

Bag Number	100013
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Fragment length	110
Photo taken?	photo taken

Description: **EOL Entry: Bos taurus — Overview**

<http://eol.org/pages/328699>

Like most domestic animals, *Bos taurus* (domestic cow) is currently found throughout much of the world. The wild ancestors of cows were native to northern Africa, Europe, and southern Asia. Biogeographic Regions: nearctic (Introduced); palearctic (Native); oriental (Introduced); ethiopian (Introduced , Native); neotropical (Introduced); australian (Introduced) Other Geographic Terms: cosmopolitan , © The Regents of the University of Michigan and its licensors Source: Animal Diversity Web

Biological Taxon: [Bos taurus](#) :: Encyclopedia of Life- [Bos taurus Linnaeus, 1758](#)

Target concept

Linked Media (9 files)



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Item: DT# 5019

Number of Views: 595

Class: Coin

Project: [Domuztepe Excavations](#)

Context (click to view): [Turkey / Domuztepe / VII / Lot 3930](#)

Description (16 properties)

Year 335-37

Internal Find Number 221

Material [Billon](#)

Find Date 18/08/2005

Registration Date 04/09/2005

Artifact Name [Coin](#)

Initials EM

Depth 103.5

Diameter 17

Comparanda RIC VII Antioch 109

Weight 1.65

Conservation [no](#)

Group 13

Description Constantine II OBV: CONSTANTINVS IVN NOB C, laureate, cuirassed bust right REV: GLOR IA EXERC ITVS, two soldiers holding spears and shields on either side of standard.

Mint [SMANΩ Antioch](#)

Thickness 1.8

Item Notes

(This item has no additional notes)

Suggested Citation:

Evan Carlson. "Domuztepe Excavations: DT# 5019 (Coin)" (Released 2010-07-31). Stuart Campbell, Elizabeth Carter (Eds.) Open Context. <<http://opencontext.org/subjects/766ED8AA-3147-4CA2-6ECA-BD96BE0433BE>>

Associated People (1 items)

[Evan Carlson](#) (Principle Author / Analyst)

pleiades.stoa.org/places/658381

Place: **Antiochia/Theopolis**
<http://pleiades.stoa.org/places/658381>



An ancient place, cited:
BAAtlas 67 C4
Antiochia/Theopolis
[Further references at Pelagios](#)

Concordia-Origin place :: Pleiades-Antiochia/Theopolis

Linked Media (25 files)



1cm



1cm

Integrating the Pelagios API

- [Conservation](#) 140
- [Initials](#) 140
- [Material](#) 140
- [Mint](#) 140
- [Date Excavated](#) 19
- [Metal](#) 19
- [Metal Description](#) 19
- [Mintmark](#) 19
- [Culture](#) 16
- [Date Minted](#) 16
- [Country](#) 14

[More...](#)

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 - [Domuztepe Excavations](#) 140
 - [Petra Great Temple Excavations](#) 19
- Category
 - [Coin](#) 159
- Date Range
 - [200 BCE to 363 CE](#) 159
- Items with Media
 - [Images](#) 140
 - [Other](#) 20

Other References to "Antiochia/Theoupolis", outside Open Context:

- [Arachne](#) [206 references]
- [Google Ancient Places](#) [4 references]

Linking data provided by [Pelagios](#)

Results: items 1 to 10 out of 159 items. Sorted by: Interest score (desc)

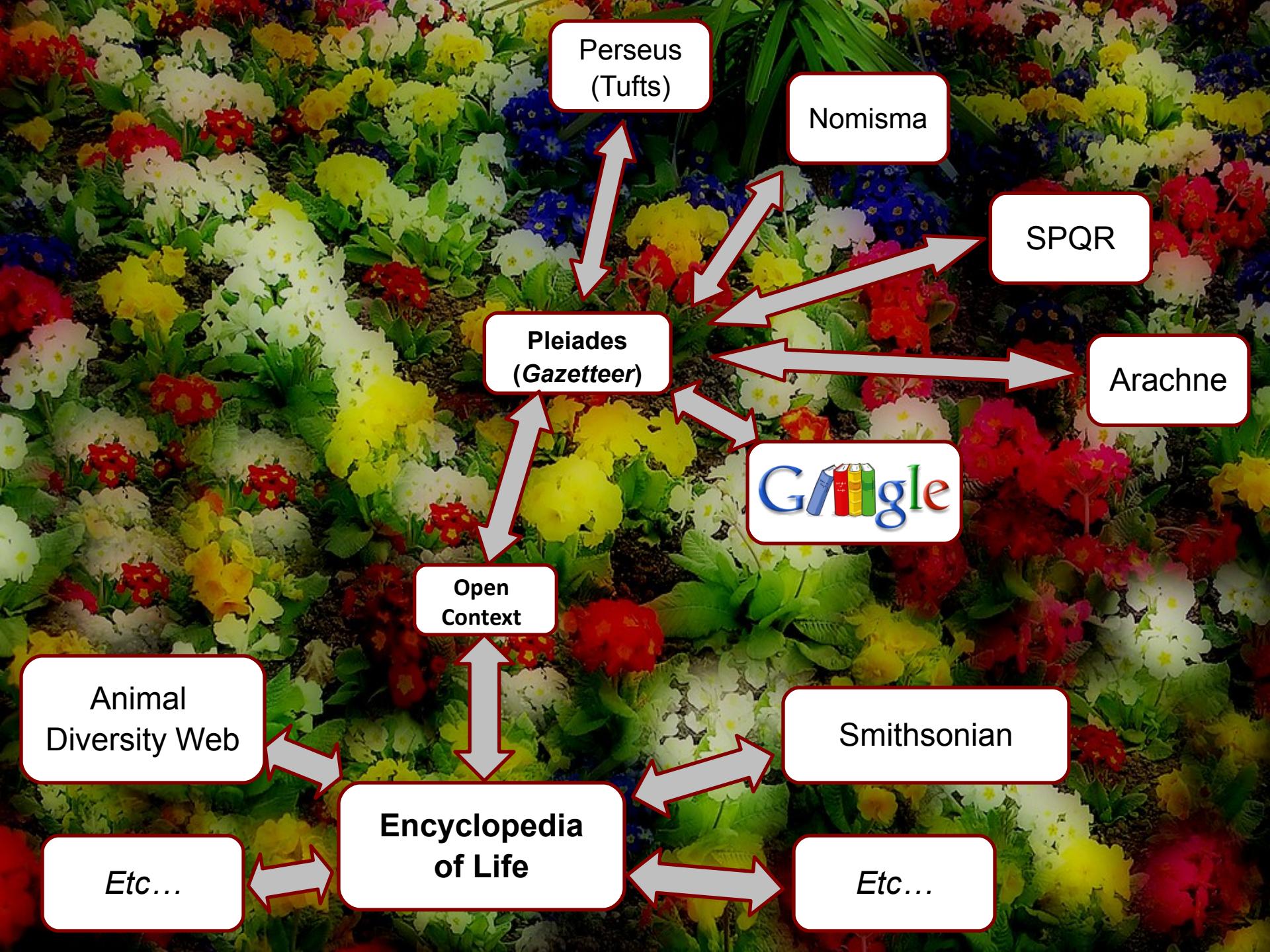
Image	Collection	Type	ID	Context
	Domuztepe Excavations	Coin	DT# 5019	Context: Turkey / Domuztepe / VII / Lot 3930
	Domuztepe Excavations	Coin	DT# 5184	Context: Turkey / Domuztepe / VII / Lot 3930
	Domuztepe Excavations	Coin	DT# 5207	Context: Turkey / Domuztepe / VII / Lot 3930
	Domuztepe Excavations	Coin	DT# 5025	Context: Turkey / Domuztepe / VII / Lot 4021

View in [GoogleEarth](#)
Get in [Atom](#)

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Linking data provided by [Pelagios](#)



Google Ancient Places

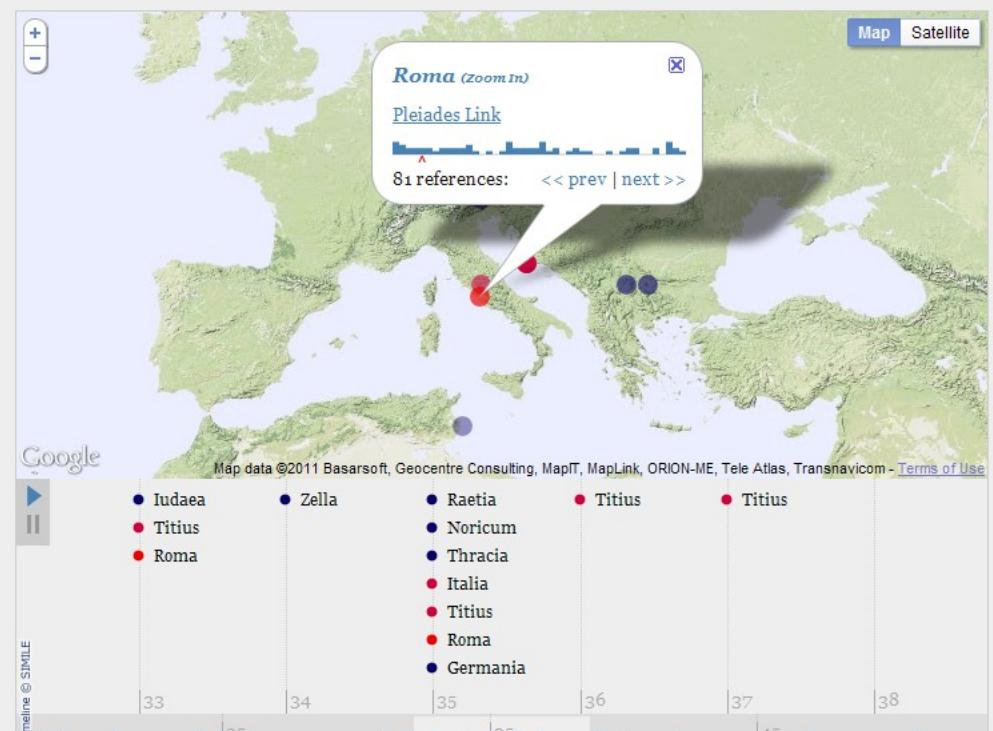
GapVis

The Works of Cornelius Tacitus: The Histories
By Cornelius Tacitus

Published 1805, 381 pages
[View on Google Books](#)

O F TACITUS. 25 meat. Having experienced the authority book of an inferior master, they were willing to submit to any prince. The two Mauritanias (c), **Raetia**, **Noricum**, and **Thrace**, with the places committed to the care of imperial procurators, had no fixed principle, no hatred, and no affection, but what was inspired by the force nearest at hand. They were always united in opinion with the strongest. The provinces, which were left naked and defenceless, and **Italy** in particular, were open to the first invader, the ready prey of any conqueror. Such was the situation of the Roman world, when Servius Galba, in his second consulship, and **Titus** Vinius, his colleague, began their year; a fatal year, which brought them both to a tragic catastrophe, and the commonwealth to the brink of ruin. XII. In a few days after the calends of January, letters arrived at **Rome** from Pompeius Propinquus, the procurator of Belgic Gaul (a), with intelligence of a revolt in Upper **Germany**. The legions in that quarter, disregarding the obligation of their oath, shook off all obedience, and

Text-mining literature to identify references to ancient places



Show: Text | Scan

<< previous 35 next >>

2010 Google Digital Humanities Award: with Elton Barker, Leif Isaksen, Kate Byrne, Nick Rabinowitz (**renewed 2012**)

The History of the Peloponnesian War

By Thucydides (translated by W. Smith)

Published 1781, 279 pages · [View on Google Books](#)

Athenae



119 references

[Report a problem with this record](#)

External Resources

- [Place page on Pleiades](#)
- [Pelagios Graph Explorer](#)

Top Related Places

Samos (29)

Chios (22)

Argos (18)

Syracuse (15)

Peloponnesus (15)

Lacedaemon/Laconia (15)

Miletus (14)

Sicilia (13)



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**Texts (books, reports, journals) are important
“linkable” data sources for archaeology.**

The History of the Peloponnesian War

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Athenae



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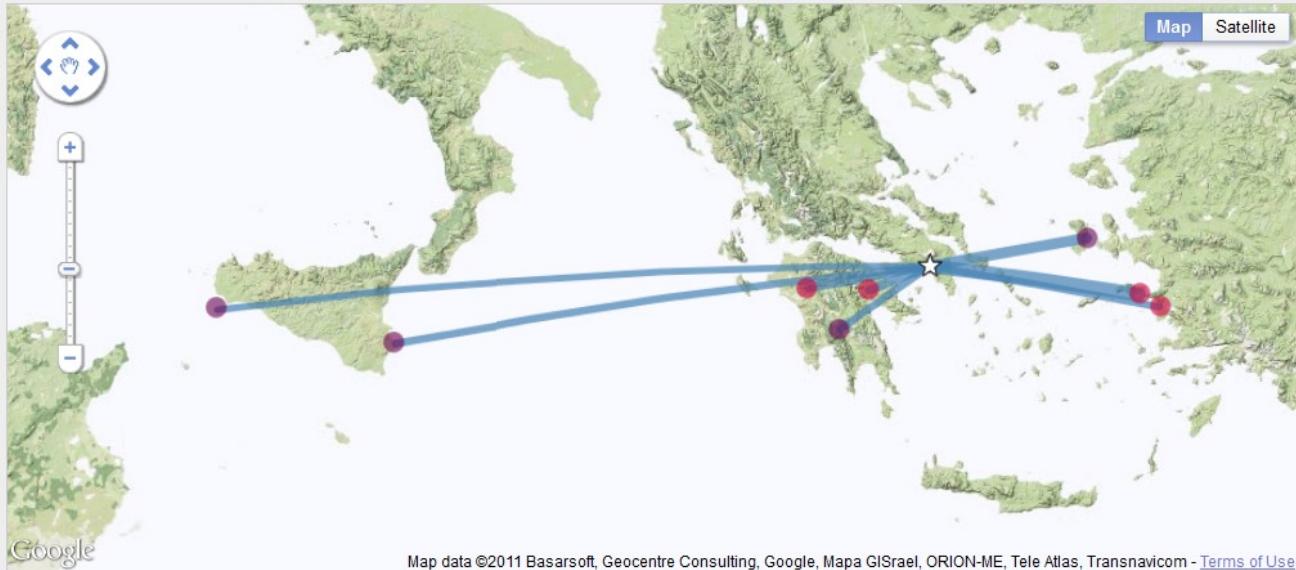
Syracuse (15)

Peloponnesus (15)

Lacedaemon/Laconia (15)

Miletus (14)

Sicilia (13)



Photos from Flickr · [View on Flickr >>](#)



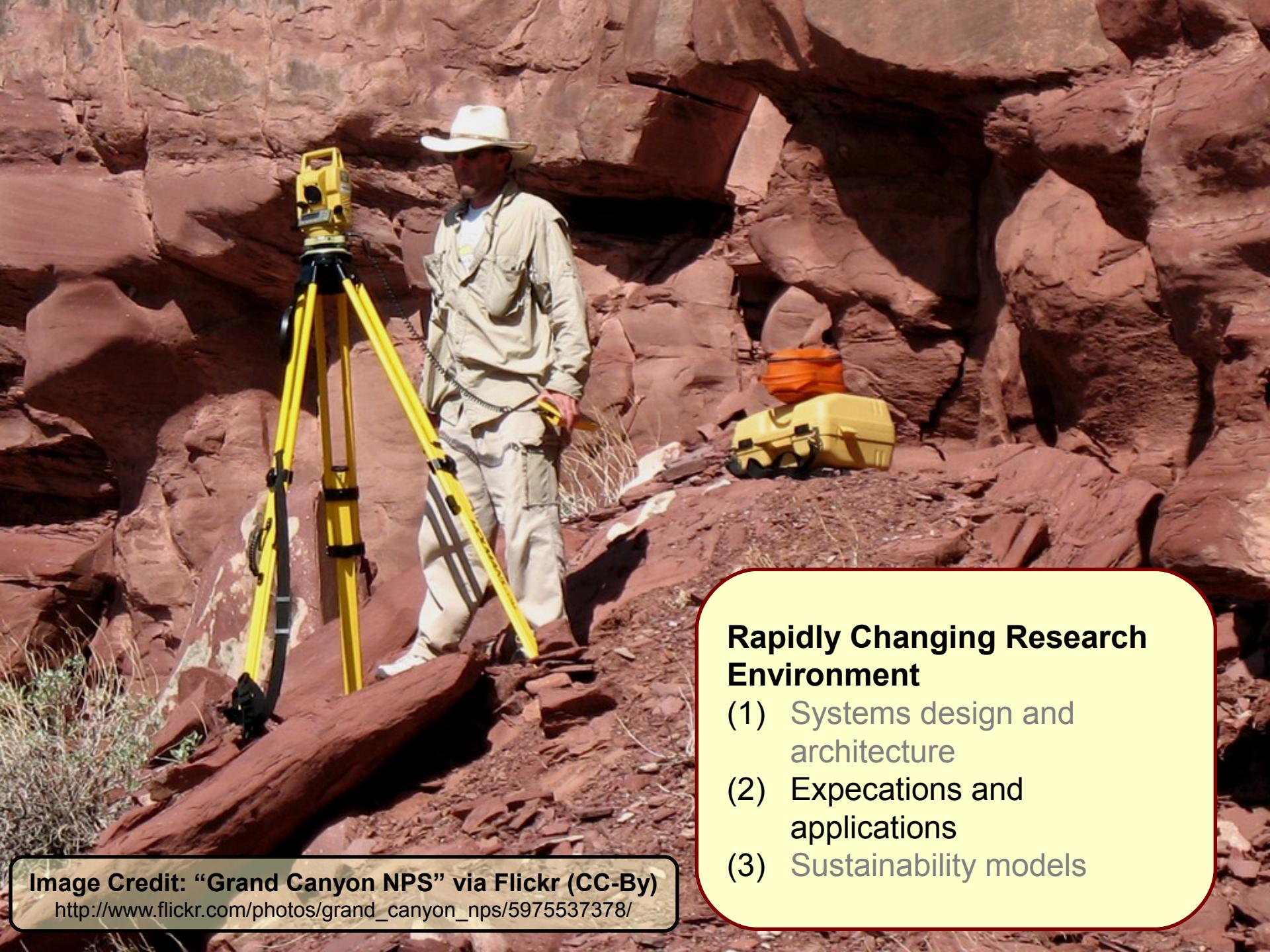
**Texts (books, reports, journals) are important
“linkable” data sources for archaeology.**

Web of Data (2011)

Linked Data is not a “Solved Problem”

- Provenance, semantics, trust, quality
- Complexity, technical challenges
- Sustainability

See also Brin and McManamon (2012)



Rapidly Changing Research Environment

- (1) Systems design and architecture
- (2) Expectations and applications
- (3) Sustainability models

Image Credit: “Grand Canyon NPS” via Flickr (CC-By)
http://www.flickr.com/photos/grand_canyon_nps/5975537378/



social science data Archival information
preservation curation
communities facilitate maintaining Dissemination
sciences identify archaeology representation
packages repository research
properties reuse zoology

Dissemination Information Packages for Information Reuse

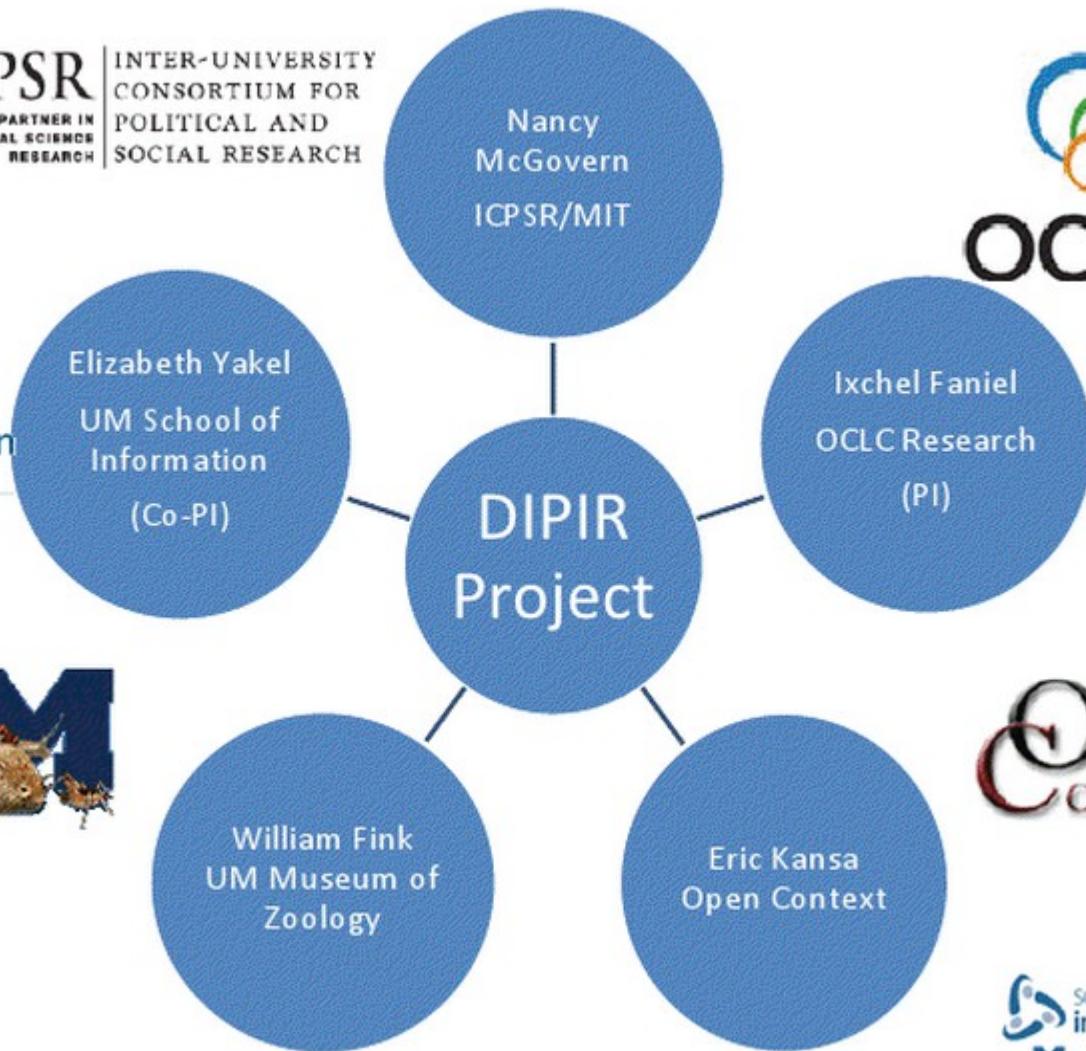
DIPIR (<http://www.dipir.org>)

- 3-Year project, Oct. 2010-Sept. 2013
- National Leadership Grant from the Institute for Museum and Library Services (LG-06-10-0140-10)
- Ixchel Faniel (PI), Elizabeth Yakel (Co-PI)

DIPIR Collaboration



INTER-UNIVERSITY
CONSORTIUM FOR
POLITICAL AND
SOCIAL RESEARCH

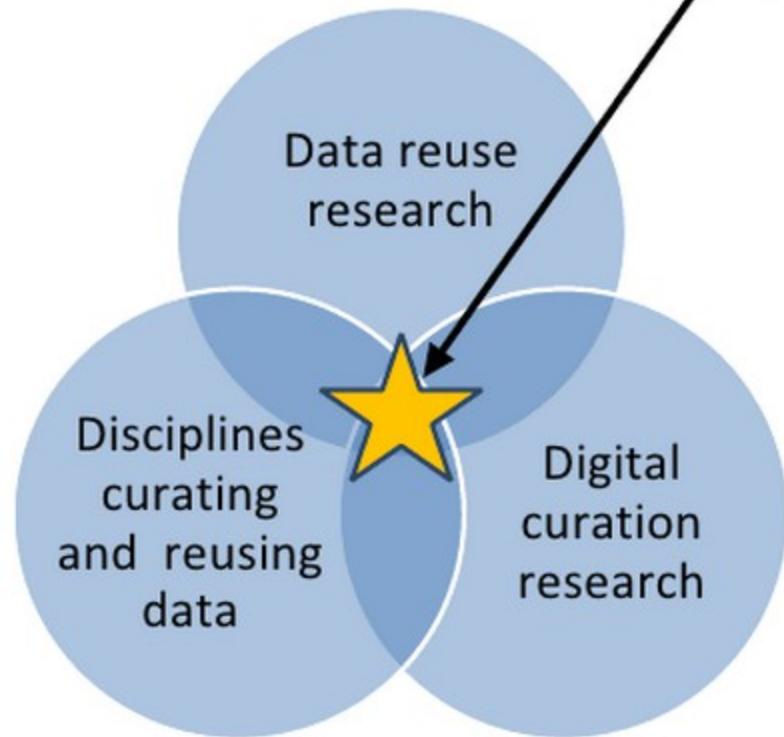


The Big DIPIR Questions

Research Questions

1. What are the significant properties of data that facilitate reuse by the designated communities at the three sites?
2. How can these significant properties be expressed as representation information to ensure the preservation of meaning and enable data reuse?

Our interest is in this overlap.



Open Context Interviewees

- 22 Ph.D. or graduate students interviewed
 - 13 men
 - 9 women
- Novices / Experts
 - 19 experts
 - 3 novices
- Interviewees who were curators or professors also with a curatorial role = 6





Some Observations

- Data sharing / reuse happening, but mainly through personal networks
- Want lots of documentation, but willing to put up with imperfection
- Want to communicate data to peers (want to use appropriate, recognized channels)
- Many goals (sharing, publishing, exhibition, archiving, search for comparanda, comparative analysis)

<http://www.dipir.org>



Poggio Civitate Etruscan Excavation

Murlo, Italy

Catalog & Research Data Publications

 Search Catalog

[Catalog Search](#)

[Trench Book
Library](#)

[Register](#)

Username

Password

[Login](#)

Catalog Card for Artifact PC19790180

Antler Sphinx

Artifact ID: PC19790180

Location Poggio Civitate

Trench Book MC III p.91 Find #30



Murlo Trench Tesoro 23

Year 1979

Excavated

Murlo Grid Master Grid: E206.990-E206.990,S57.6990-S57.6990
Local Grid: 13, GG



Elevation

Depth Notes: MC III indicates depth of 0.300 m.-trh 29/6/05

Size Max. Pres. Height 0.035 m, Max. Pres. Length 0.040 m, Max. Pres. Width 0.015 m

Film 79-32, 79-57



Condition Lower portion of forelegs and hindlegs missing.
Surface worn and pitted in areas, especially left side of wing.

Fabric Antler



Munsell

Description Small figure of a crouching sphinx, carved of bone ranging in color from tan to gray. The proportionately large head has bulging eyes, a prominent nose, and protruding lips and chin. The centrally-parted hair, falling straight to the shoulder, is incised with a herringbone pattern and held by a fillet. The wing, formed of a single large volute, springs from the shoulder and is attached at the back of the head. The details of feathers on the wings are also incised and the muscles of the haunches are shown in low relief.



References

Film Note: See also DAI Neg. No. 81.3692, 81.3693

Data and Institutional Identity

- (1) Many projects need to maintain their own systems
- (2) Poggio Civitate: Open Context will index, accession in to CDL

[Home](#) [About](#) [Projects](#) [Browse](#) [Lightbox](#) [Tables](#) [Details](#) [My Account](#)[New Search](#)[GO](#)

Click on one of the links below to further limit your view of Images in Open Context.

Or, type a search term in the box below (words like Google):

Open Context currently has 63 Images, filtered by the following criteria:

Project: San Diego Archaeological Center [Remove Filter](#)

Last Updated: February 15, 2010, 11:00 pm

[Search this Set](#)

- + Context
 - United States (53)
- + Project
 - San Diego Archaeological Center (53)
- + Category
 - Small Find (53)
- + Descriptive Variable
 - Image Size (53)
 - Material (53)
 - Material Class (53)
 - Object (53)
 - Recovery Type (53)
 - Level (item) (41)
 - Comments (6)
- + Related People
 - Kelly Headlmaier (53)
- + Date Range
 - 1763 CE to 1980 CE (53)

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This page lists the content of several collections presently curated at the Center. The data can be searched and browsed through a variety of options. A full-text search box is provided below. In addition, you can browse the collection by clicking on links to different filters provided in a list on the left of the screen. Clicking on a search result takes you to a full record of that item.

Archaeological Context

[SDI-4360 \(1311\)](#)[SDI-13037 \(819\)](#)[CA-SDI-14951 \(640\)](#)[SDI-16915 \(141\)](#)[CA-SDI-16505 \(124\)](#)[CA-SDI-16690 \(86\)](#)[SDI-16436 \(42\)](#)[SDI-10438 \(29\)](#)[SDI-17204 \(18\)](#)[SDI-17428 \(12\)](#)[SDI-17430 \(10\)](#)[SDI-16715 \(3\)](#)[SDI-16724 \(3\)](#)[SDI-16732 \(3\)](#)[SDI-16757 \(3\)](#)[SDI-16744 \(2\)](#)[SDI-16748 \(2\)](#)[SDI-16753 \(2\)](#)[SDI-16766 \(2\)](#)[SDI-16771 \(2\)](#)

Category

[Small Find \(3136\)](#)[Context \(105\)](#)[Reference Collection \(17\)](#)[Site \(11\)](#)[Description](#)[Material Class \(2925\)](#)

Run a full text search of this collection:

 Search Submit

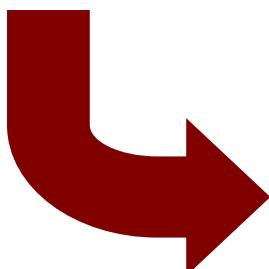
Filters

(No filters selected)

Number of Items Found: 3269 ([Reset Search](#))

Records: Page 1 of 126 Pages

SDAC 431 (Reference Collection)	SDAC 428 (Reference Collection)
CAT # 20 (Small Find)	CAT # 2 (Small Find)
CAT # 21 (Small Find)	CAT # 8 (Small Find)





Web-based research data publication

BETA

Home About Projects Browse Lightbox Tables Details My Account

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Or, type a search term in the box below (works like Google):

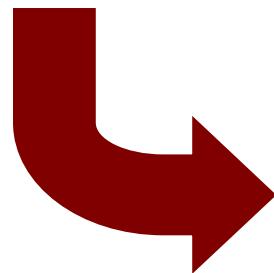
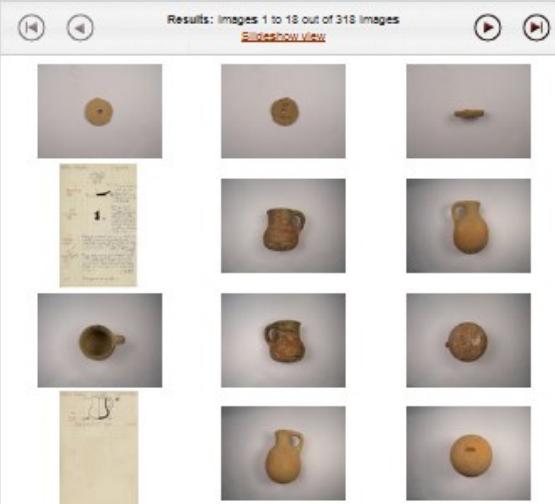
Search this Set

- Context
 - [Palestinian Authority](#) 318
- Project
 - [Badè Museum](#) 318
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 - [Small Find](#) 297
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 - [Occupation Level](#) 138

Open Context currently has 318 images, filtered by the following criteria:

Project: Badè Museum [Remove Filter](#)

Last Updated: February 16, 2010, 11:00 pm



PASTELS: ARCHAEOL & RELIGION
Badè Museum of Biblical Archaeology

Other Sections Home

A Look In Pastels | About the Museum | Collections | Public | Research | Home and Prints | Digital Archives | Gallery

Museum

Research
The Badè Project
Current Projects:
• [Tall el-Mughara Database](#)
Past Projects:

Tall el-Mughara Database
This project is a digital catalog of all the artifacts, assemblages, and photographs from the Tell el-Mughara Collection at the Badè Museum of Biblical Archaeology of Pacific School of Religion in Berkeley, CA. This collection of over 2,000 items comes from the excavations of Tell el-Mughara conducted by William Firthy (Badè Museum) 1920 and 1922. The project was jointly sponsored by the Pacific School of Religion (PSR), and the American Schools of Oriental Research (ASOR), and represents one of the earliest archaeological excavations in Israel/Palestine.
[View Database](#)
The database represents a collaborative effort by staff of the Badè Museum and the [American Schools of Oriental Research](#).
The database is being continually updated. Click a link below to filter your search of the collection by year or time period.

Available Filters:
Collection, Tell el-Mughara (12), Periods (12), Regions (12)
Collection Types (19), Cooking Types (7), Ceramic Types (7), Collections (7), Completeness (7),
Ceramic vessel Condition (7), Conservation (7), Object Name (7), Object Technologies (7), Pottery (7),
Technique (7), Potsherds (7), Ware (7), Workshop and Terrace (7), Manufacture (7),
Color of Pottery (2), Completeness level (2), Pottery Conservation Type (2), Potsherds (2),
Ware Type (2), Work Type (2), Workshop Type (2), Manufacture Name (1), Workshop Type (1)

Run a full text search of this collection

Filter by...
[No filters selected]

Number of Items: 318 [View Details](#)

Results, Page 1 of 12 Pages



information curation
social science data Archival contribute
preservation maintaining Dissemination
communities sciences archaeology representation
packages facilitate identify repository
properties research zoology

Dissemination Information Packages for Information Reuse

Some Observations

- Lots of worry about the suitability of one's own data for outside consumption
- Concern over costs and effort required to clean up and share data

Raw Data Can Be Unappetizing

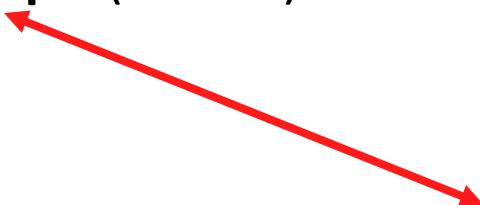


Data Documentation Practices

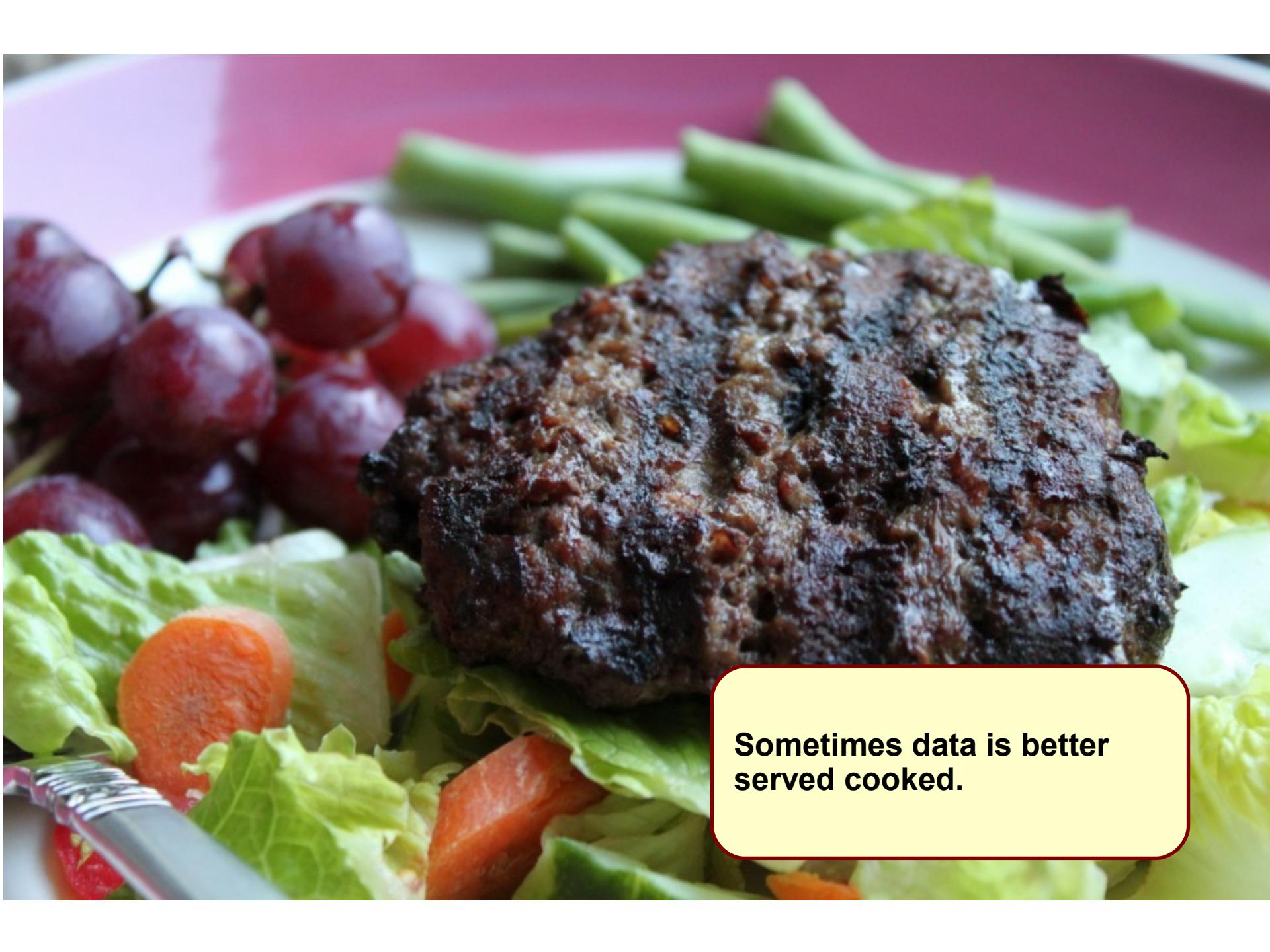
I use an Excel spreadsheet...which I ... inherited from my research advisers. ...my dissertation advisor was still recording data for each specimen on paper when I was in graduate school so that's what I started ...then quickly, I was like, "This is ridiculous."... I just started using an Excel spreadsheet that has sort of slowly gotten bigger and bigger over time with more variables or columns...I've added ...color coding...I also use...a very sort of primitive numerical coding system, again, that I inherited from my research advisers...So, this little book that goes with me of codes which is sort of odd, but ...we all know that a 14 is a sheep." (CCU13)

Data Documentation Practices

I use an Excel spreadsheet...which I ... inherited from my research advisers. ...my dissertation advisor was still recording data for each specimen on paper when I was in graduate school so that's what I started ...then quickly, I was like, "This is ridiculous."... I just started using an Excel spreadsheet that has sort of slowly gotten bigger and bigger over time with more variables or columns...I've added ...color coding...I also use...a very sort of primitive numerical coding system, again, that I inherited from my research advisers...So, this little book that goes with me of codes which is sort of odd, but ...**we all know that a 14 is a sheep.**" (CCU13)



A long way to go before we get usable, intelligible data

A photograph of a meal on a red plate. The meal includes a large, dark brown meatloaf in the center, a serving of green beans, a bunch of red grapes on the left, and a salad of lettuce, carrots, and cucumbers at the bottom. A fork is partially visible on the left side.

**Sometimes data is better
served cooked.**

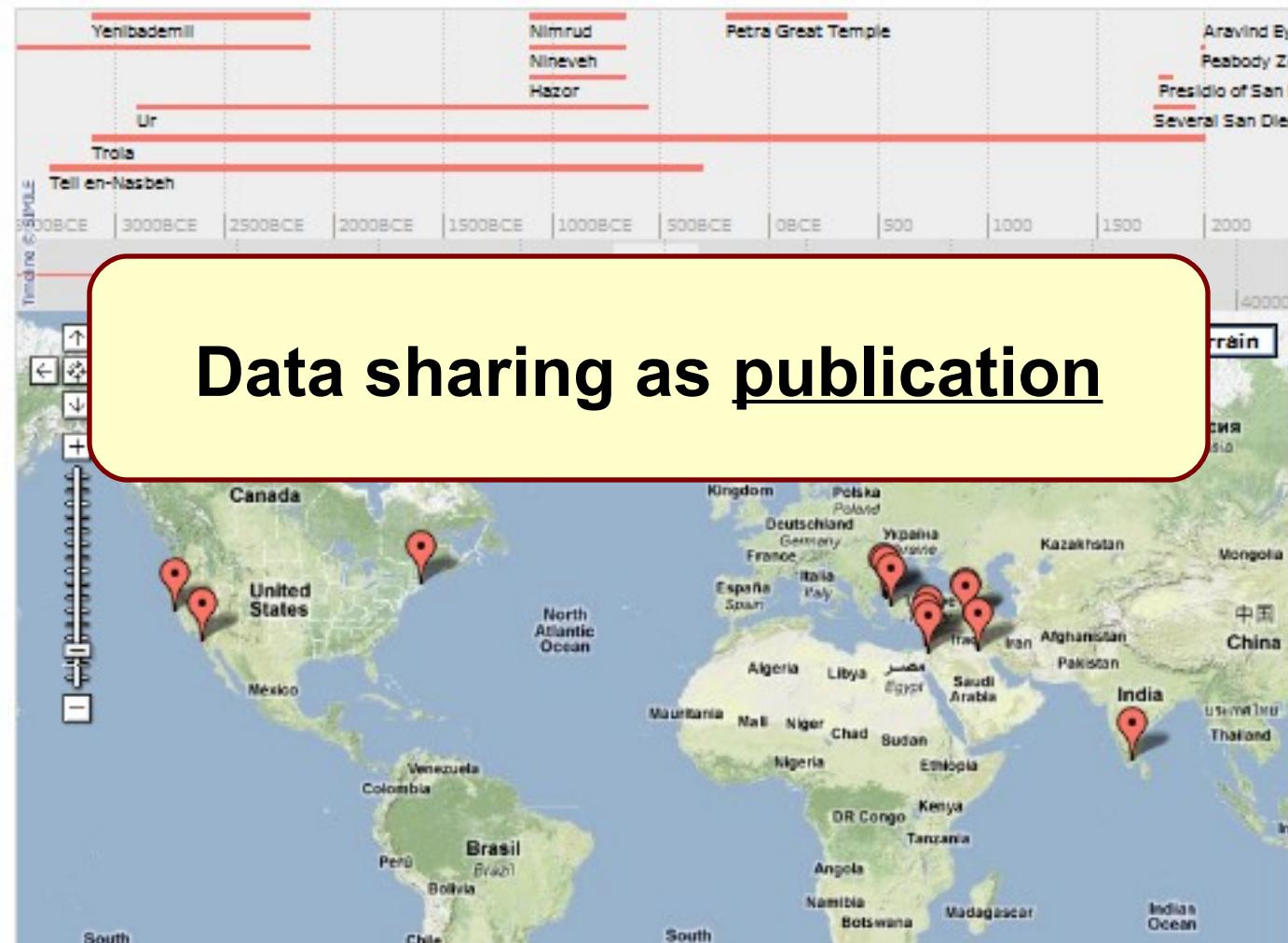
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Use Open Context to discover, reference, and publish primary data and documentation collected in archaeology and other field sciences by professional researchers. *Scroll* through the timeline and map below to begin exploring data, Images, reports and field documentation.



My Precious Data



Image Credit: "Lord of the Rings" (2003, New Line), All Rights Reserved Copyright

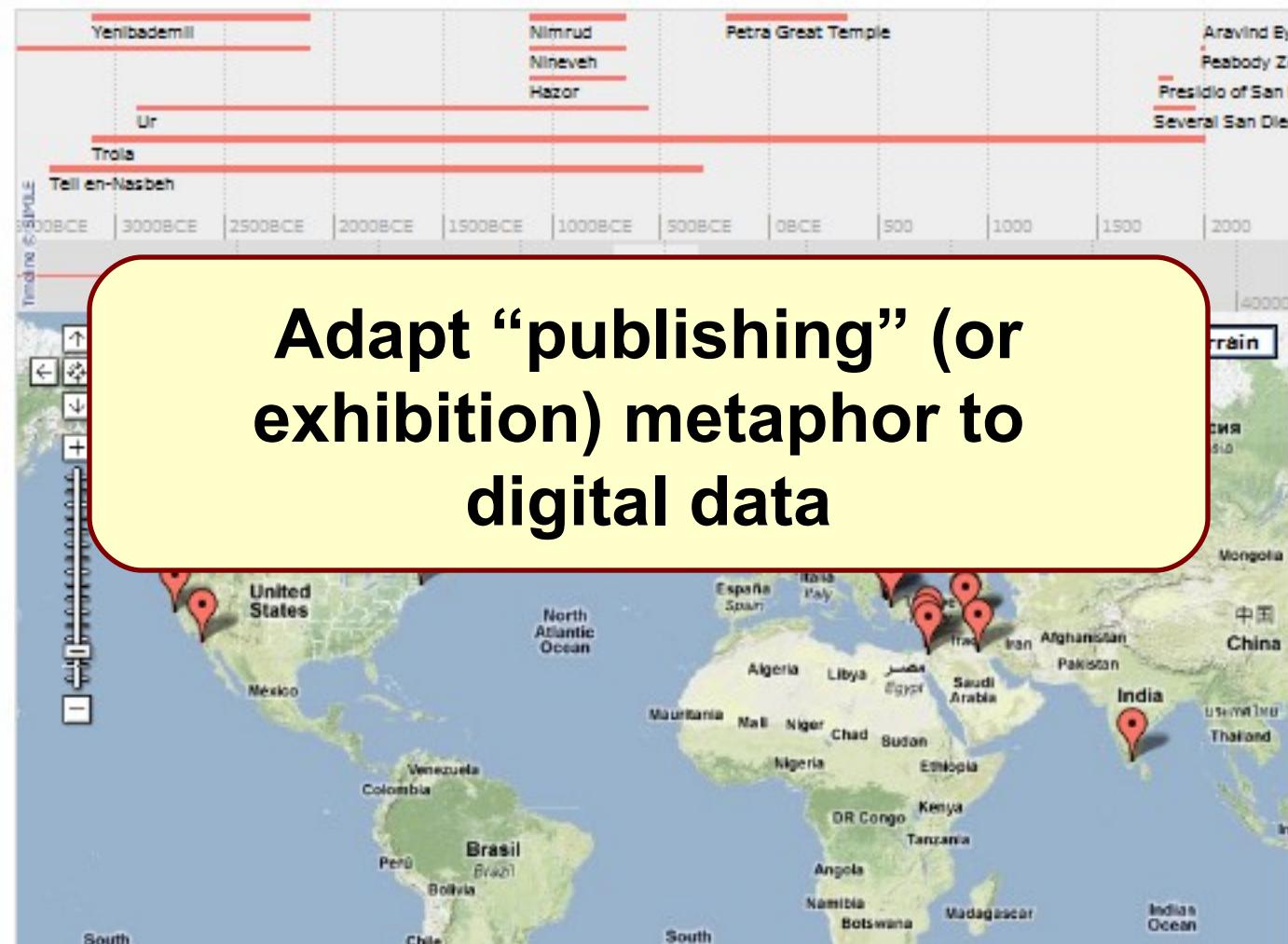
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Adapt “publishing” (or exhibition) metaphor to digital data

Data Publishing



containing the copy of the Egyptian Monument Archaeological Ass of Antiquities at accompanying work Leydon are to be p upon the monuments orders of the Gove of America, my lar that in a country Aboriginal Monumen scientific underta the Mississippi Va particularly in a State of New York great number of su to the Association the success of a w the smithsonian In great use For the I shall be happy t archaeological re on the archaeology study of egyptian Central America, t so great an intere those which I have will contribute to honor to send here Netherland Museum as soon as it shal upon which do me T will take noeur

Selected Correspondence from the Papers of Thomas Pettigrew (1791-1865), Surgeon and Antiquary

Context Spatial coverage of data UK (54 00 N, 2 00 W) and Holland (52 30 N, 5 45 E) Temporal coverage of data 1817AD-1859AD Methods Steps The dataset was collected by transcribing original letters from the period 1817-59 into an MS Word document. The letters form part of the Pettigrew Papers held by the Beinecke Rare Book and Manuscript Library at Yale University, which has created a detailed c ...



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Latest papers

Selected Correspondence from the Papers of Thomas Pettigrew (1791-1865), Surgeon and Antiquary

MAY 11, 2012

The papers of the nineteenth century antiquary and surgeon Thomas Pettigrew are of considerable interest in the histories of science, medicine and archaeology. The letters presented here were received by Pettigrew between 1817 and 1859, and form part of the Pettigrew Papers held at Yale University. They were transcribed during research into Pettigrew's life and work, focusing in particular on his contributions to archaeology and Egyptology, and are presented in the form of texts. They are likely to be of interest and use to scholars of early nineteenth century intellectual history, and historians of archaeology in particular.

 ubiquitypress We now have total-impact metrics on @up_joad, e.g.: bit.ly/KPx3CO - coming soon 2 all UP journals. #altmetrics12
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 up_joad T. Pettigrew's letters now #opendata, for history of science, medicine and archaeology dx.doi.org/10.5334/4f913c...
90 days ago · reply · retweet · favorite

 up_joad New #opendata with reuse potential in studies of pottery distribution: dx.doi.org/10.5334/4f8d6e...
91 days ago · reply · retweet · favorite

 up_joad RT @gothwin: are you a graduate? fancy working at @ordnancesurvey? OS have just launched a graduate recruitment prog: bit.ly/1guSXa
104 days ago · reply · retweet · favorite

Data Publishing



Web-based research data publication

Search



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Data Publishing



Google refine Collagen Bones All 2nd Permalink

Facet / Filter Undo / Redo 55

Refresh Reset All Remove All

111 rows

Show as: rows records Show: 5 10 25 50 rows

Extensions: [Freebase](#)

All	Site	Year	Operation	Lot	Date	Date Analyzed	Bone #	Collagen study bone #	NISP	Collagen PMF Identification	Comm
1.	Domuztepe	2005	I	3889	not on tag	2009-06-23T00:00:00Z	DT05-1568	2nd Collagen Study #1	1	Goat	Goat
2.	Domuztepe	2005	I	3889	not on tag	2009-06-23T00:00:00Z	DT05-1572	2nd Collagen Study #10	1	Goat	Goat
3.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1616	2nd Collagen Study #100	1	Goat	Sheep or G
4.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1617	2nd Collagen Study #101	1	Goat	Sheep or G
5.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1618	2nd Collagen Study #102	1	Pig	Pig
6.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1619	2nd Collagen Study #103	1	Pig	Pig
7.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1620	2nd Collagen Study #104	1	Pig	Pig
8.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1621	2nd Collagen Study #105	1	Pig	Pig
9.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1622	2nd Collagen Study #106	1	Pig	Pig
10.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1623	2nd Collagen Study #107	1	Pig	Pig

Data Quality and Standards Alignment

- (1) Check consistency
- (2) Edit functions
- (3) Align to common standards (“Linked Data” if applicable)
- (4) Issue tracking, version control

Data Publishing



github

Search...



Explore Gist Blog Help

ekansa



PUBLIC



ekansa / Open-Context-Data

Pull Request

Unwatch

Star

3

Fork

1

Code

Network

Pull Requests

0

Issues

0

Wiki

Graphs

Admin

branch: master

Files

Commits

Branches

2

Tags

Downloads

Open-Context-Data / Commit History

Keyboard shortcuts available

Jul 01, 2012



Kenan Tepe document/logs files for all areas but F

ekansa authored a month ago

31564d1db2

Browse code



Media metadata files for Kenan Tepe update (all areas but F)

ekansa authored a month ago

4f71bf3137

Browse code



Fixed minor error with project root query path

ekansa authored a month ago

7a587d39be

Browse code



Update to Kenan Tepe project description, root links fixed and added ...

ekansa authored a month ago

550e83dc27

Browse code



Kenan Tepe Location + Object records, all areas but F

ekansa authored a month ago

1e199d8e75

Browse code

Jun 30, 2012



Initial Commit of Rough Cilicia

ekansa authored a month ago

0b73627fEa

Browse code

Data Publishing



Google refine Collagen Bones All 2nd Permalink

Open... Export Help

Facet / Filter Undo / Redo 55

Refresh Reset All Remove All

111 rows

Show as: rows records Show: 5 10 25 50 rows

Extensions: [Freebase](#)

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6.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1619	2nd Collagen Study #103	1	Pig	Pig
7.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1620	2nd Collagen Study #104	1	Pig	Pig
8.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1621	2nd Collagen Study #105	1	Pig	Pig
9.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1622	2nd Collagen Study #106	1	Pig	Pig
10.	Domuztepe	2005	I	3954	2005-08-22T00:00:00Z	2009-07-20T00:00:00Z	DT05-1623	2nd Collagen Study #107	1	Pig	Pig

Tools of the Trade

- (1) Google Refine (check, edit, consistency)
- (2) Mantis (issue-tracker, coordinate edits, metadata creation)

Open Context Entity Reconciliation

Authors / Editors
relate project-specific
terminologies to
global terminologies



“Species : Sheep / Goat” ≈
<http://eol.org/pages/2851411>
 (“Caprinae”)

Open Context Entity Reconciliation

Authors / Editors relate project-specific terminologies to global terminologies

Many project-specific terms related to global terminologies

Project Specific Property	EOL Link (Global Terminology)
Species : Sheep / Goat	http://eol.org/pages/2851411 (Caprinae)
Taxon : Bos taurus	http://eol.org/pages/328699 (Bos taurus)
Species : Deer	http://eol.org/pages/38816 (Dama)
Type : Deer	http://eol.org/pages/34547 (Odocoileus)
Taxon : Ovis / Capra	http://eol.org/pages/2851411 (Caprinae)
Species : Cattle	http://eol.org/pages/328699 (Bos taurus)
Species : Goat	http://eol.org/pages/328660 (Capra hircus)

Open Context Entity Reconciliation

Authors / Editors relate project-specific terminologies to global terminologies

Many project-specific terms related to global terminologies

Relationships between terminologies are data, can be queried in a service

“What biological taxon relates to ‘sheep’?”



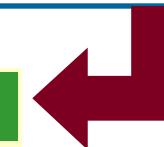
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“What biological taxon relates to ‘sheep’?”

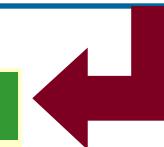


Count	EOL Link (Global Terminology)
1212	http://eol.org/pages/311906 (<i>Ovis aries</i>)
510	http://eol.org/pages/328658 (<i>Ovis canadensis</i>)
28	http://eol.org/pages/13845095 (<i>Ovis orientalis</i>)

Open Context Entity Reconciliation

Make it cheaper and easier to align to shared concepts, linking informal terminologies to formal vocabularies.

“What biological taxon relates to
‘sheep’?”



Count	EOL Link (Global Terminology)
1212	http://eol.org/pages/311906 (Ovis aries)
510	http://eol.org/pages/328658 (Ovis canadensis)
28	http://eol.org/pages/13845095 (Ovis orientalis)

Results in Google Refine

Open Context view of Petra uploads Test zooarchaeology.xls Permalink Mass edit 20 cells in column EOL title / label for Latin Name Undo

OPEN CONTEXT Google Refine Workspace uploads Test zooarchaeology.xls Permalink Open... Export... Help

Facet / Filter Undo / Redo 110 Extensions: Freebase ▾

Refresh Reset All Remove All

EOL URLs for Latin Name change invert reset

6 choices Sort by: name count Cluster

http://eol.org/pages/1037781 2
http://eol.org/pages/1047334 1
http://eol.org/pages/13829133 1
[http://eol.org/pages/2851411](#) 20
http://eol.org/pages/2925150 8
http://eol.org/pages/328699 88
(blank) 14

Facet by choice counts

EOL title / label for Latin Name change

1 choices Sort by: name count Cluster

Caprinae 20

Facet by choice counts

20 matching rows (134 total)

Show as: rows records Show: 5 10 25 50 rows « first < previous 1 - 10 next > last »

Latin Name	EOL URLs for Latin Name	EOL title / label	Element	Part	Age Group	Period	Age Teeth (mor)	Note	Von Den Driesch
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Scapula	proximal and diaphysis/middle	sub-adult	1251-1300			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Costa	complete	adult	1251-1300			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Costa	proximal and diaphysis/middle	adult	1251-1300			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Tibia	diaphysis/middle and distal	sub-adult	1251-1300			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Mandibula	proximal and diaphysis/middle	sub-adult	1251-1300			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Scapula	complete	adult	975-1025			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Costa	distal	sub-adult	975-1025			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Mandibula	diaphysis/middle and distal	juvenile	975-1025			
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Mandibula	complete	adult	975-1025	7++		
Ovis aries / Capra hircus	http://eol.org/pages/2851411	Caprinae	Mandibula	diaphysis/middle and distal	juvenile	975-1025		4	



information curation
social science data Archival contribute
preservation maintaining Dissemination
communities sciences archaeology representation
packages facilitate identify repository
properties research zoology

Dissemination Information Packages for Information Reuse

Some Observations

- Lots of worry about the suitability of one's own data for outside consumption
- Concern over costs and effort required to clean up and share data

Data Publishing



Web-based research data publication

BETA

[Home](#) [About](#) [Projects](#) [Browse](#) [Lightbox](#) [Tables](#) [Details](#) [My Account](#)

Search

GO



Item: Bone 4014_9

Number of Views: 6

Class: Animal Bone

Project: [Kenan Tepe](#)

Context (click to view): [Turkey](#) / [Kenan Tepe](#) / [Area F](#) / [Trench 4](#) / [Locus 4018](#) / [Finds Bag 4014](#)

Description (9 properties)

Year 2000
Item number 9
Taxon [Ovis aries](#)
Common Name [Sheep](#)

Descriptive Tags (1)

[\(3,100 BCE - 2,900 BCE\)](#)

Editor's Note: Date ranges are approximate and do not necessarily reflect the opinion of data contributors. These dates are provided only to facilitate searches.

Linked Data:

Biological Taxonomy Vocabulary-Has Biological Taxonomy :: Encyclopedia of Life- [Ovis aries Linnaeus, 1758](#)

Linked Media (2 files)



[2000-08-23](#)



[2000-08-23](#)

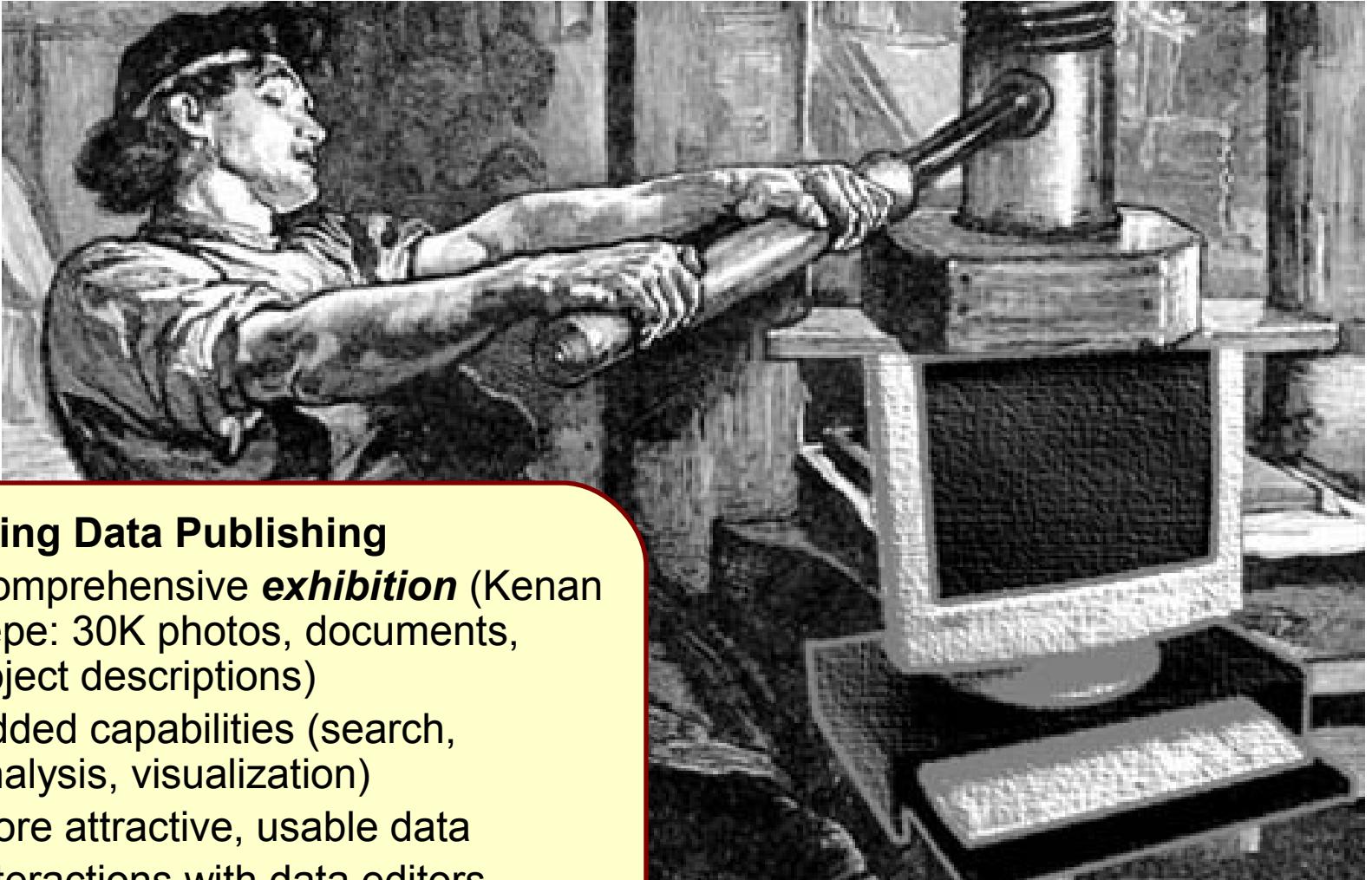
[ArchaeoML \(XML\) Version](#)

[Version-control \(Github, XML Data\)](#)

Outcomes of Publishing Data:

- (1) Iterative “coproduction” between contributors and editors
- (2) Communicate and set expectations about content and quality
- (3) Organize workflows to improve data quality and usability
- (4) Make “datasets” first class citizens in world of scholarly communications

Data Publishing



Motivating Data Publishing

- Comprehensive **exhibition** (Kenan Tepe: 30K photos, documents, object descriptions)
- Added capabilities (search, analysis, visualization)
- More attractive, usable data
- Interactions with data editors improve data

Data Publishing Projects

Eric Search Images Maps Play YouTube News Gmail Documents Calendar More

maps.google.com/?q=http%3A%2F%2Fopencontext.org%2Fsets%2Ffacets%2Firan%25C%25CTurkey%25C%25CIrael%25C%25CJordan.kml%3Frer%255B%255D%3Dhttp%253A%252F%252Fpurl.org%252FNET%

Eric Kansa 1 + Share

Google http://opencontext.org/sets/facets/iran%7C%7CTurkey%7C%7CIsl...

Get directions My places

Displaying content from opencontext.org. The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.

OpenContext Summary of View of search results in: Iran OR Turkey OR Israel OR Jordan

Open Context Summarized search results of 23282 items

You are currently viewing summarized search results. Height represents the portion of Animal Bone as compared with ALL items with the property ".

To see individual finds, click the link to the left.

Selection Criteria:

Contained in:	Iran OR Turkey OR Israel OR Jordan
Linking Relation:	Has Biological Taxonomy (from Biological Taxonomy Vocabulary) :: Caprinae (from Encyclopedia of Life)
Category:	Animal Bone

Malyan This context has 74% (11168 of 15146) Animal Bone, within this time range: 6

Chogha Mish This context has 25% (4217 of 16824) Animal Bone, within this time range: 6

Domuztepe This context has 22% (3354 of 15156) Animal Bone, within this time range: 6

Hazor This context has 45% (3154 of 7024) Animal Bone, within this time range: 1,

Petra Great Temple

8501 BCE 359 359

North

Map Photos

EOL (2012) funding for publishing additional zooarchaeology datasets (Neolithic Anatolia), in project led by Ben Arbuckle (Baylor University)

Data Publishing Projects

Google http://opencontext.org/sets/facets/Iran%7CTurkey%7CIsrl%3Frcl%255B%255D%3Dhttp%253A%252F%252Fpurl.org%252FNET%253D Eric Kansa 1 + Share

Displaying content from opencontext.org. The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.

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Hazor This context has 45% (3154 of 7024) Animal Bone, within this time range: 1,

Petra Great Temple

NEH (2012) funding for publishing
trade + exchange related datasets
(Bronze-Iron Age Mediterranean)

Data Publishing Projects

Google http://opencontext.org/sets/facets/Iran%7CTurkey%7CIsrl 1 + Share Eric Kansa

Displaying content from opencontext.org. The content displayed below and overlaid onto this map is provided by a third party, and Google is not responsible for it. Information you enter below may become available to the third party.

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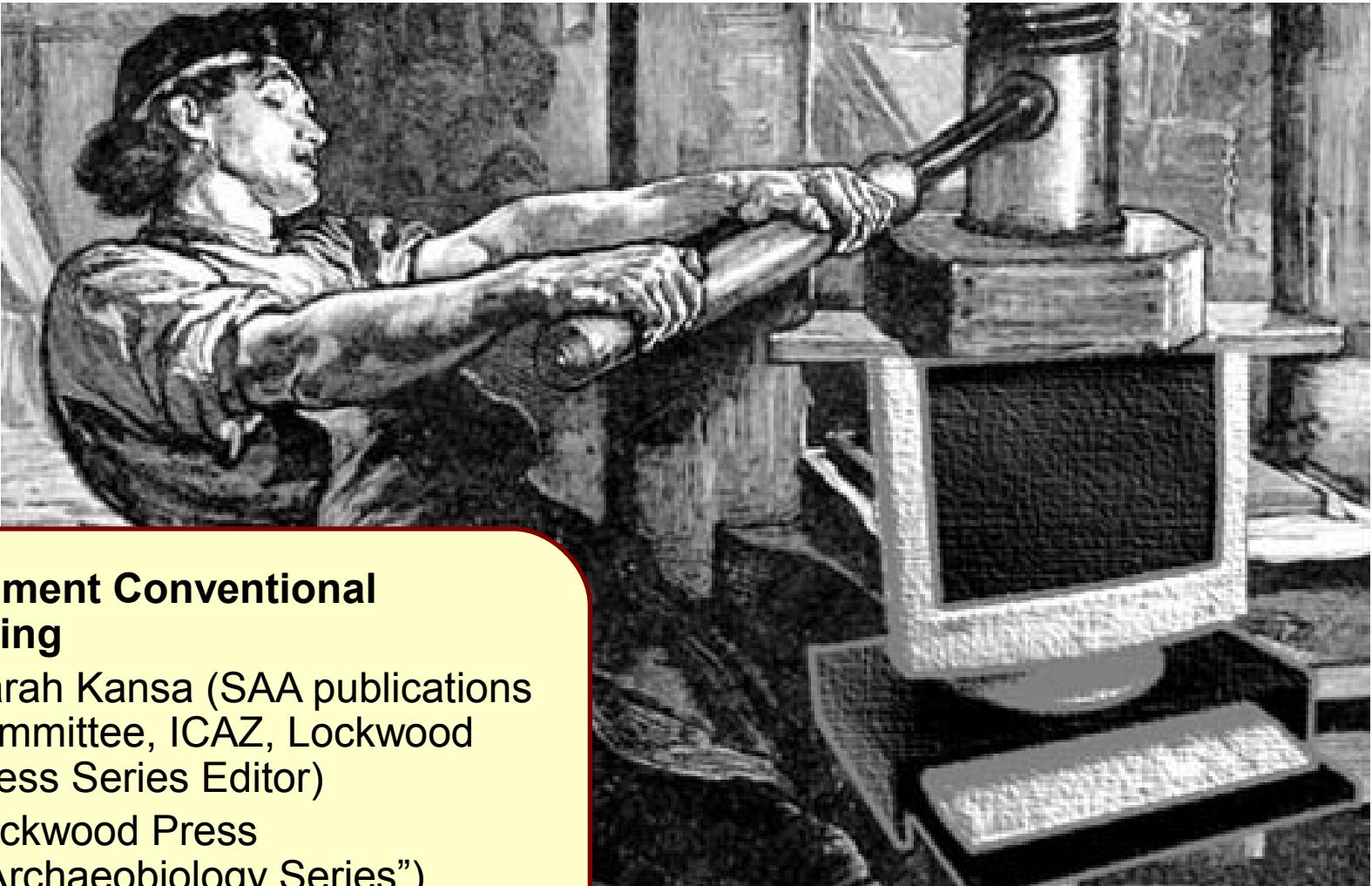
Domuztepe This context has 22% (3354 of 15156) Animal Bone, within this time range: 6

Hazor This context has 45% (3154 of 7024) Animal Bone, within this time range: 1,

Petra Great Temple

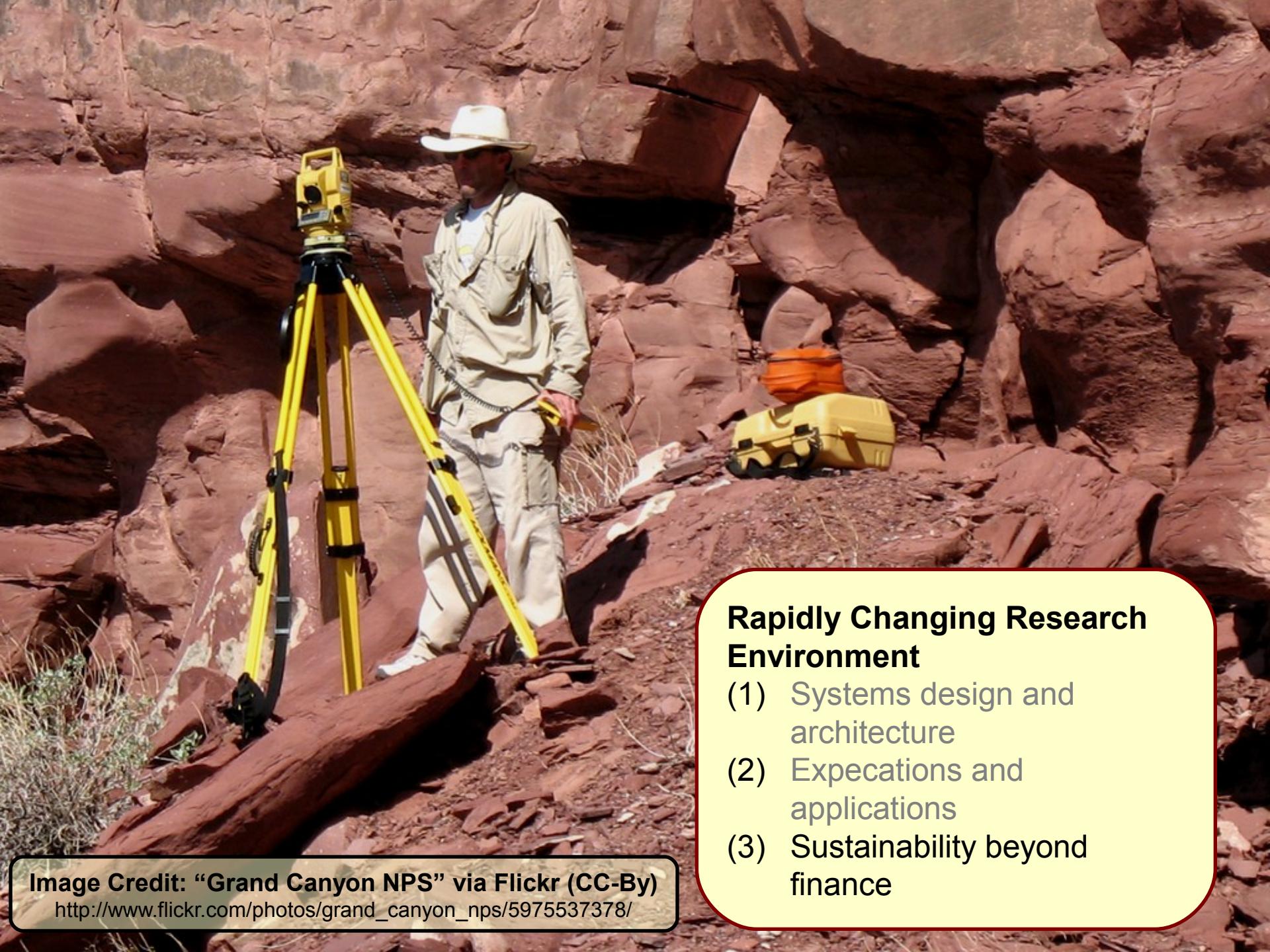
Projects are driven by research interests, publication goals among researchers wanting to compare datasets.

Data Publishing



Complement Conventional Publishing

- Sarah Kansa (SAA publications committee, ICAZ, Lockwood Press Series Editor)
- Lockwood Press (“Archaeobiology Series”), Cotsen Institute Press (UCLA)



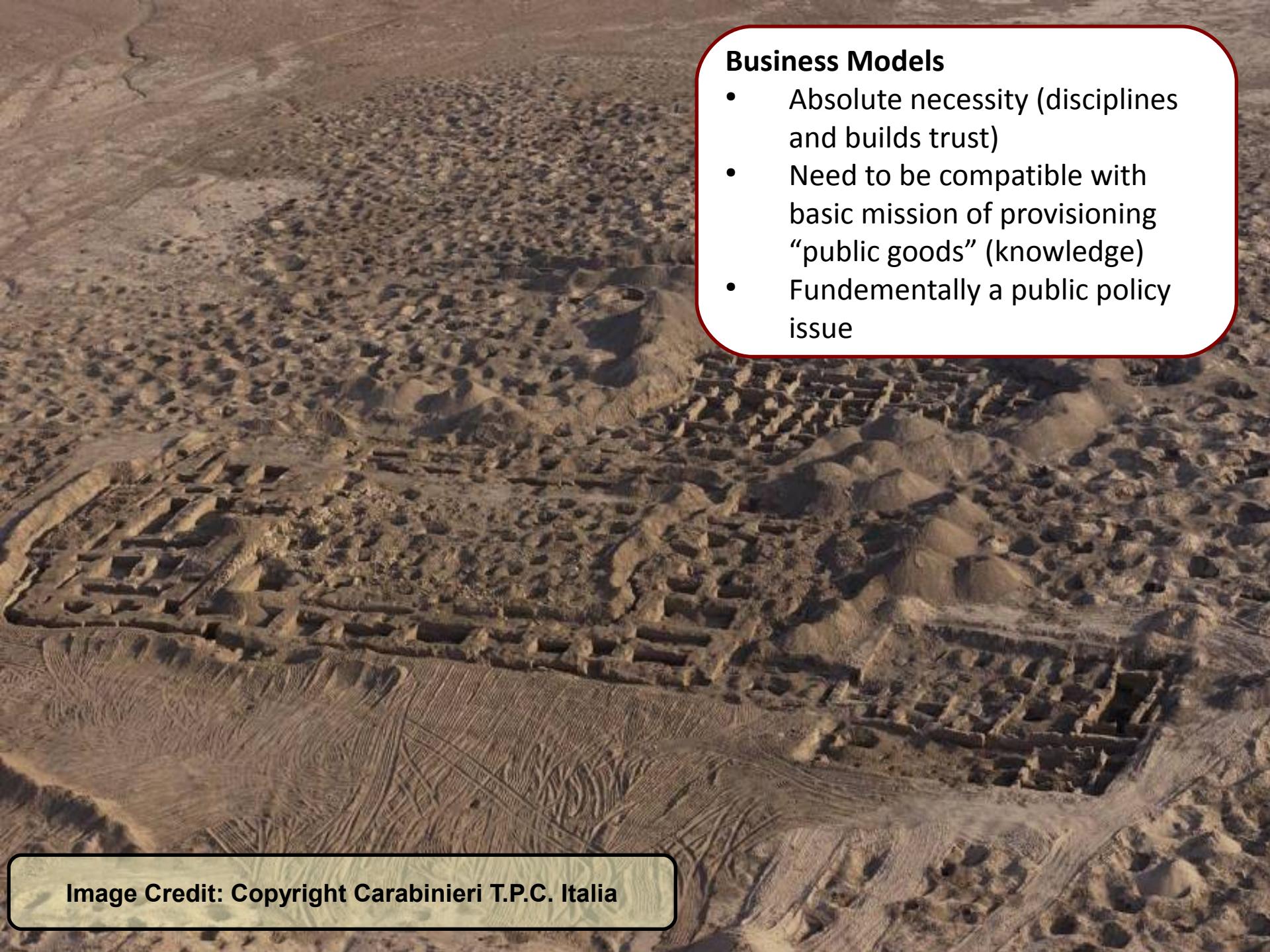
Rapidly Changing Research Environment

- (1) Systems design and architecture
- (2) Expectations and applications
- (3) Sustainability beyond finance

Image Credit: “Grand Canyon NPS” via Flickr (CC-By)
http://www.flickr.com/photos/grand_canyon_nps/5975537378/



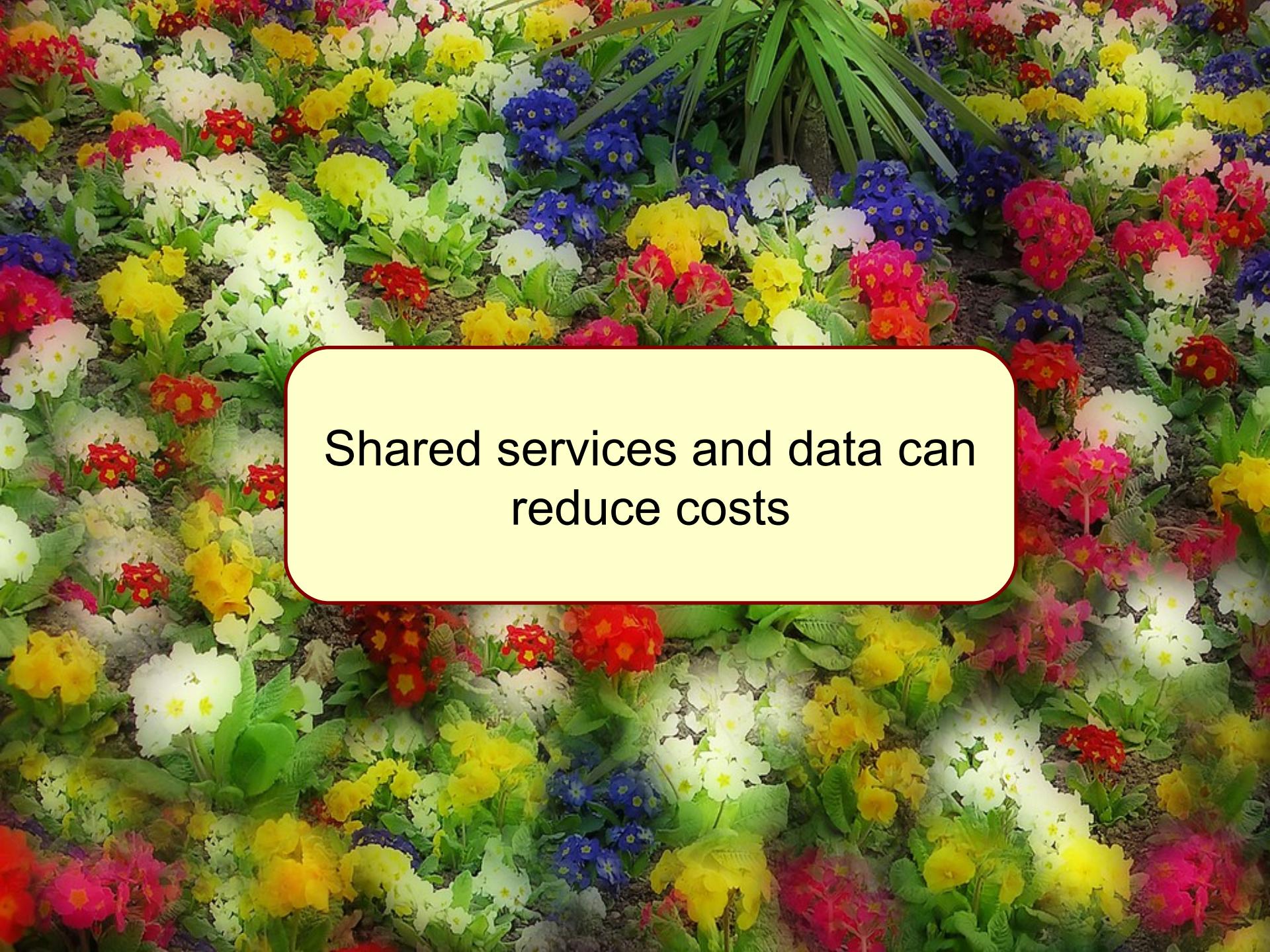
Image Credit: Copyright Carabinieri T.P.C. Italia



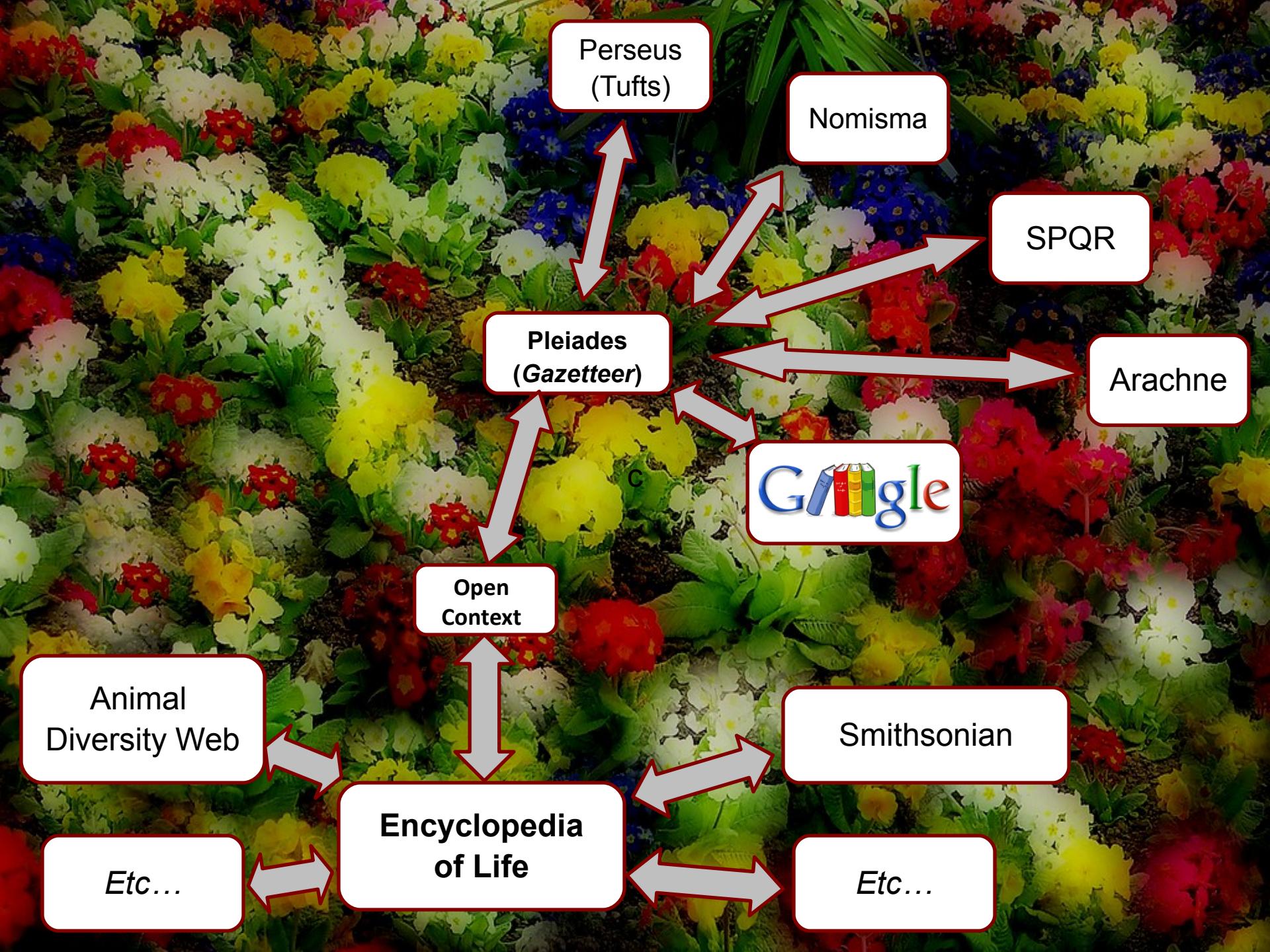
Business Models

- Absolute necessity (disciplines and builds trust)
- Need to be compatible with basic mission of provisioning “public goods” (knowledge)
- Fundementally a public policy issue

Image Credit: Copyright Carabinieri T.P.C. Italia



Shared services and data can
reduce costs





Preservation Infrastructure

- Data preservation services
- Persistent identifiers (DOIs, ARKs, etc. for DataCite)

University of California
CDL
California Digital Library

University of California (System)
Repository,
All disciplines
(UC-funded library, grants)

Table: "Petra Great Temple Pottery"

Note: The data in this table comes from one project or collection. Some data relating to the records in this table may depend upon complex structures that cannot be easily represented in a table format. If you need data fully expressing such complex structures, download the XML representations of these data. To learn how to do this, please read the [web-services documentation](#).

Download this table: [CSV format](#)

Query Link	http://opencontext.org/sets/Jordan/Petra+Great+Temple?proj=Petra+Great+Temple+Excavations
Number of Records	331
Principal Analyst(s) / Observers	Shari L. Saunders
Directing / Supervisory People	Martha Sharp Joukowsky
Projects and Collections	Petra Great Temple Excavations
Time of Table Creation	2010-12-28T11:08:09-07:00
Table Generated by	Open Context Editors
Table Name	Petra Great Temple Pottery
Table Description	Description of some representative pottery recovered from the Brown University excavations at Petra.
Tags / Keywords	pottery ceramics Nabatean Hellenistic Roman Byzantine Petra Jordan
CDL Archival Identifier	ark:/28722/k2x63b461
Table Notes	This table is part 1 of 1, containing 1 to 331 of 331 total records.
Suggested Citation	Shari L. Saunders 2010 "Petra Great Temple Pottery" From projects: <i>Petra Great Temple Excavations</i> . Led by: Martha Sharp Joukowsky. Open Context Editors. Open Context. < http://opencontext.org/tables/341853c35844195860d3e0cf731f0702 > CDL Archival Identifier, < ark:/28722/k2x63b461 >

Project	Linked Persons	Context (1)	Context (2)	Context (3)	Context (4)	Context (5)	Context (6)	category	Item Name	Figure Id	Pottery Form
Petra Great Temple Excavations	Shari L. Saunders	Jordan	Petra Great Temple	Upper Temenos	Trench 94	Locus none provided	Pottery	Pottery	101	1	Casser Bowl

[Home](#) [Create](#) [Manage](#) [Help](#)
Identifier [ark:/28722/k2x63b461](#)
URL form <http://n2t.net/ark:/28722/k2x63b461>
Object location...
URL <http://opencontext.org/tables/341853c35844195860d3e0cf731f0702>
[Visit now](#)
About the identified object...

Viewing DataCite citation profile

Creator Shari L. Saunders

Title Petra Great Temple Pottery

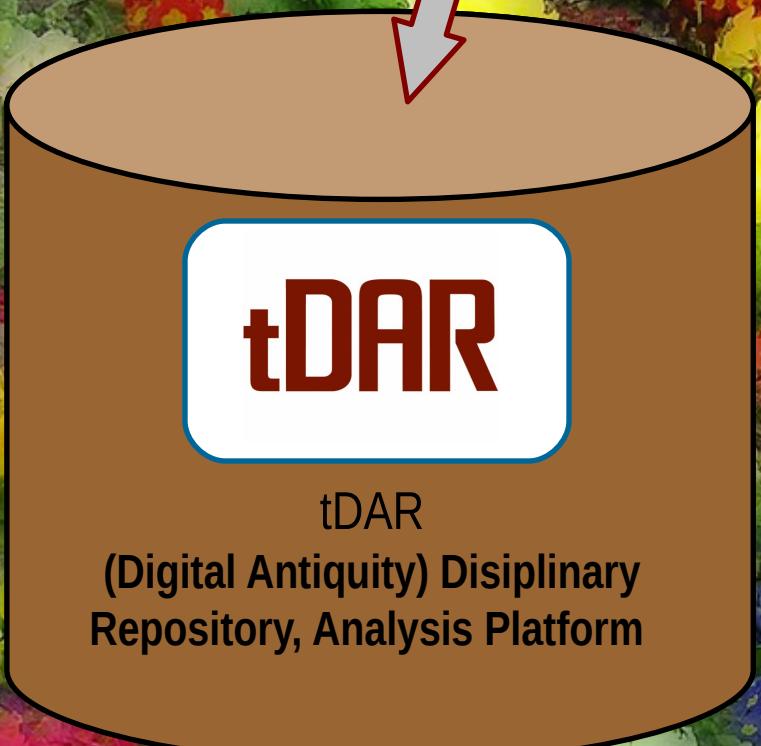
Publisher Open Context

Publication year 2010

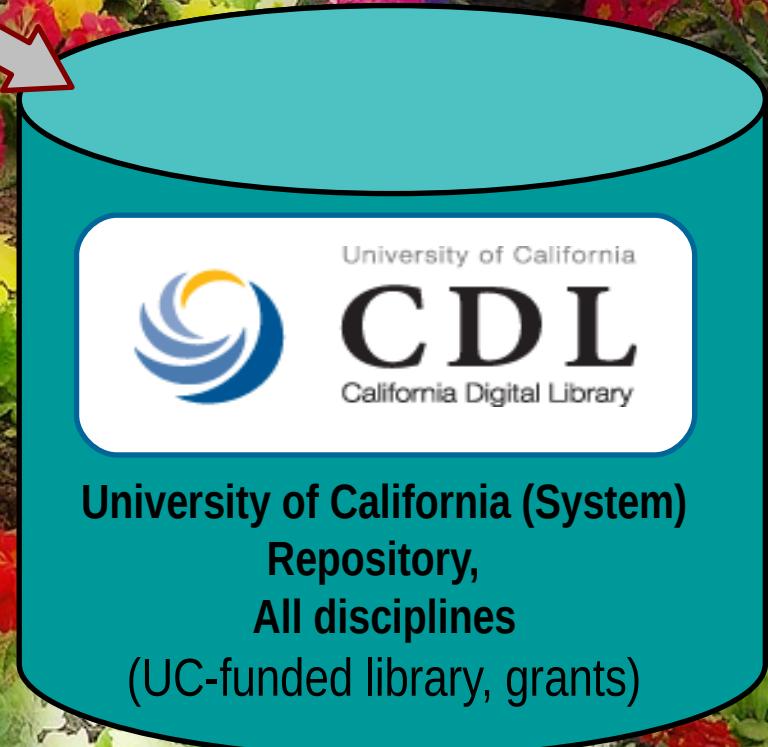
- CDL Archiving Service
- EZID for persistent Identity: DOIs (aggregate resources), ARKs (granular resources) and Merritt Repository
- Helps build trust in community

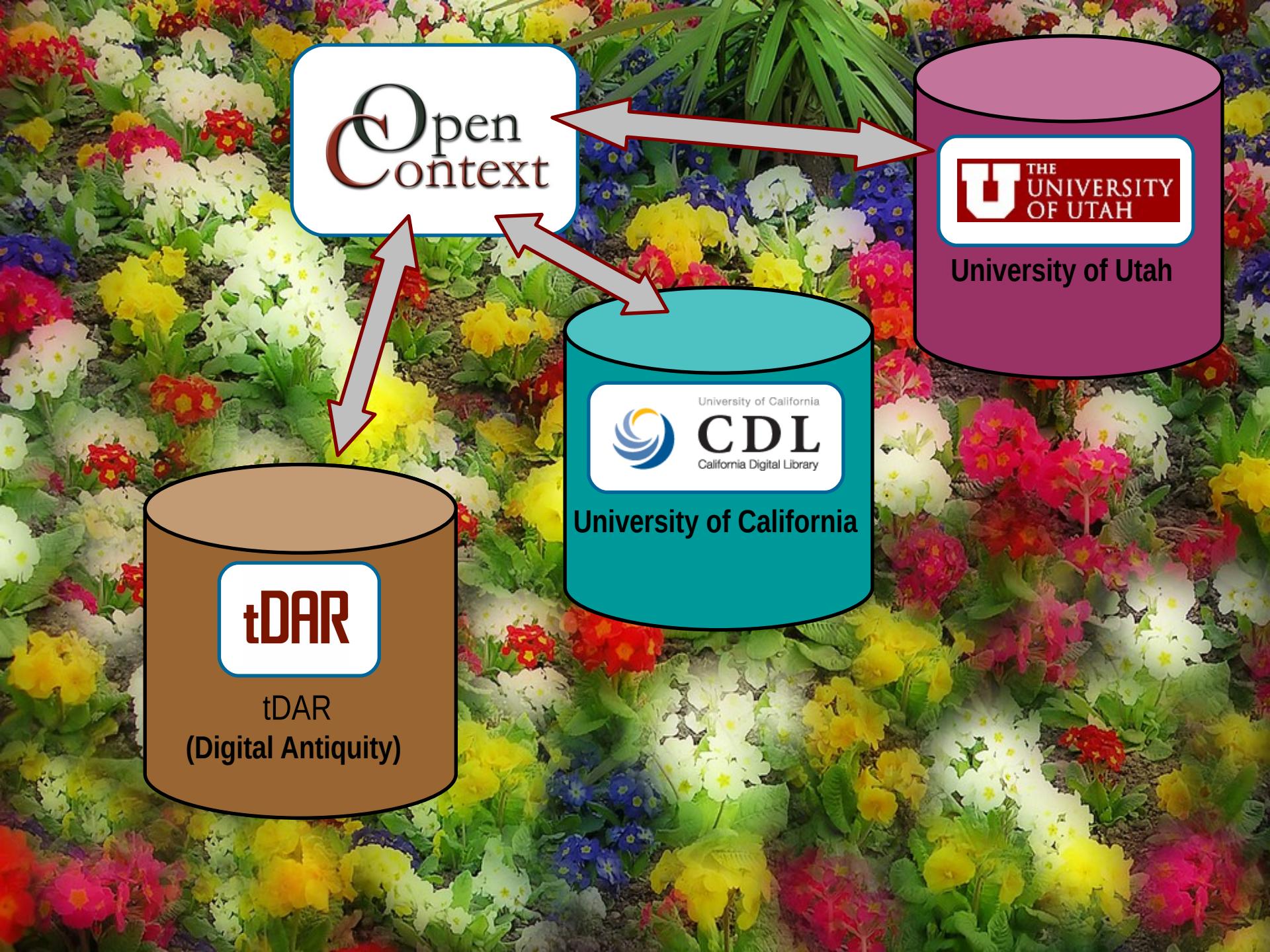
A vibrant flower bed filled with a variety of colorful primroses. The flowers are densely packed, creating a lush and diverse scene. The colors range from deep reds and bright yellows to soft pinks, whites, and blues. The flowers are set against a backdrop of green foliage and some larger, leafy plants, possibly hostas or ferns, which provide texture and depth to the composition.

Sustainability is hard without a
healthy information ecosystem



Open
Context





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Context

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OF UTAH

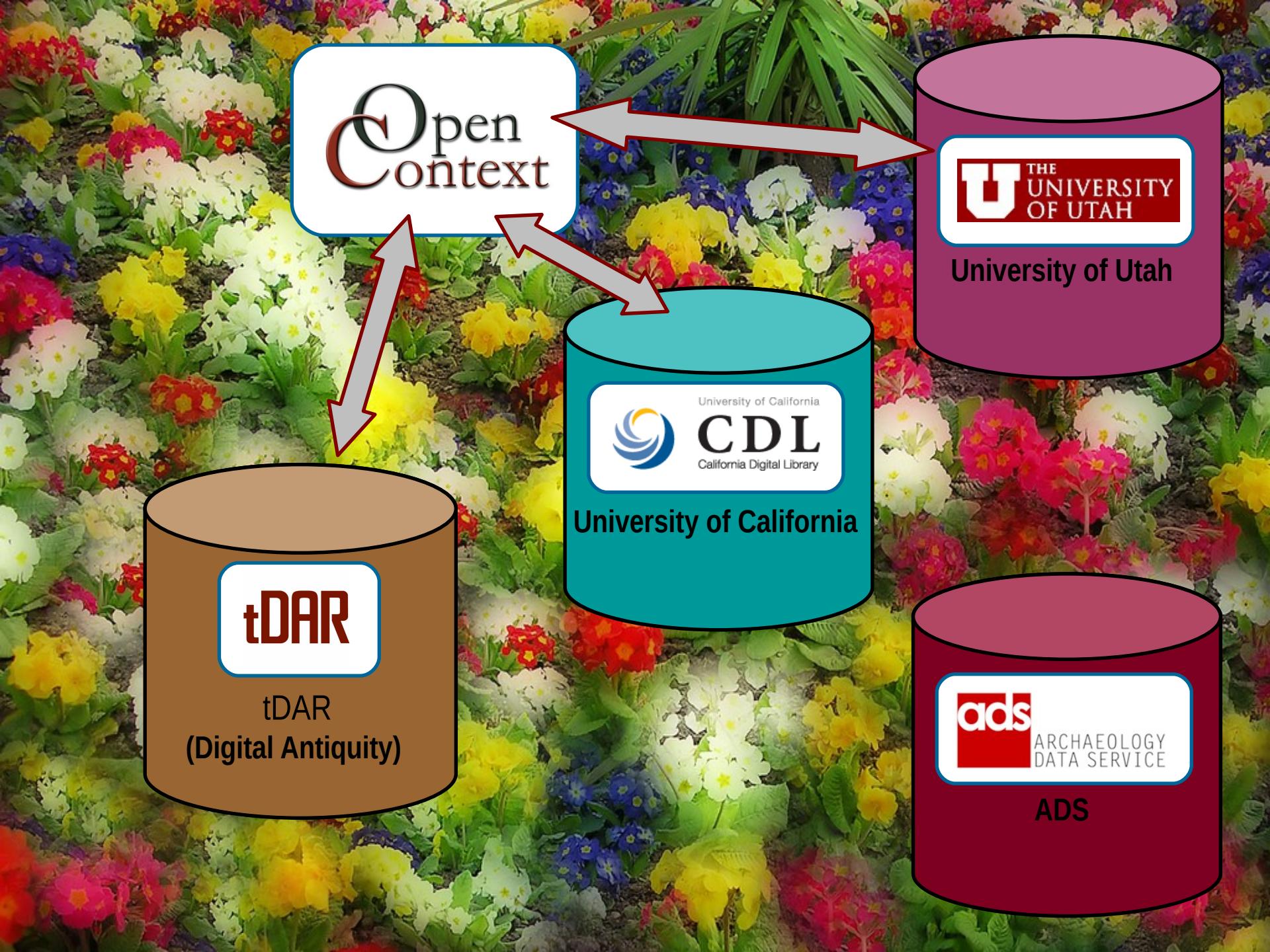
University of Utah

University of California
CDL
California Digital Library

University of California

tDAR

tDAR
(Digital Antiquity)



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THE
UNIVERSITY
OF UTAH

University of Utah

University of California
CDL
California Digital Library

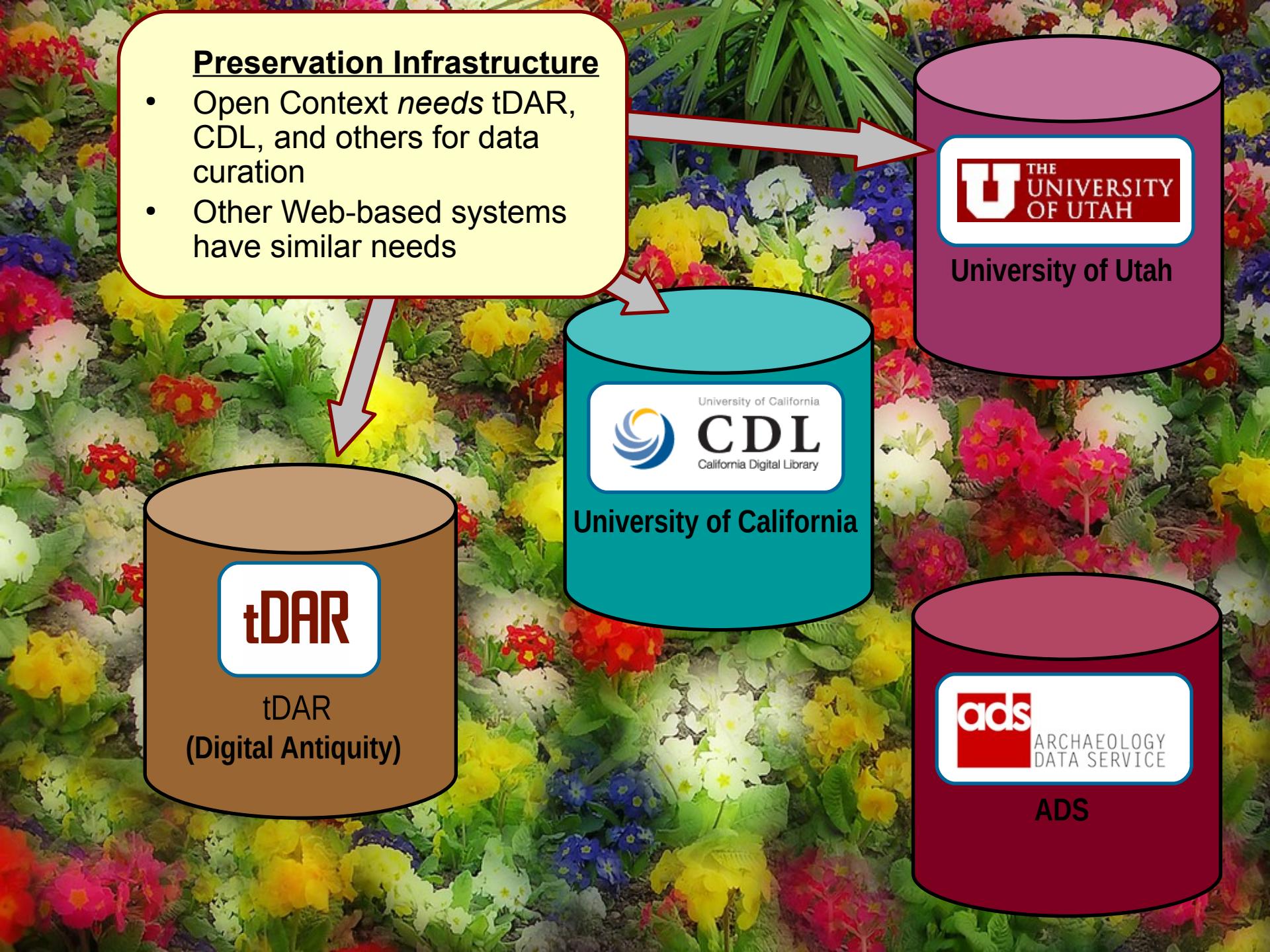
University of California

tDAR

tDAR
(Digital Antiquity)

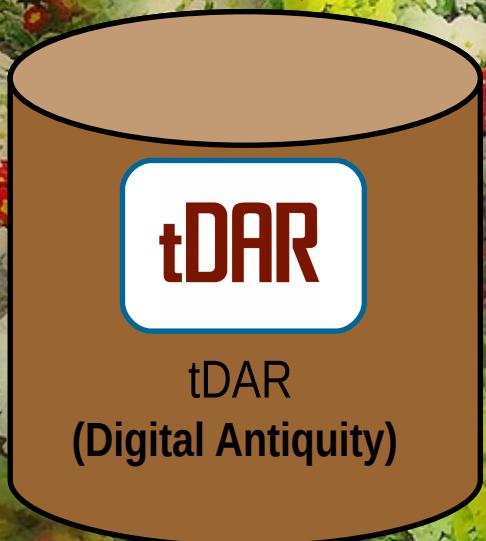
ads
ARCHAEOLOGY
DATA SERVICE

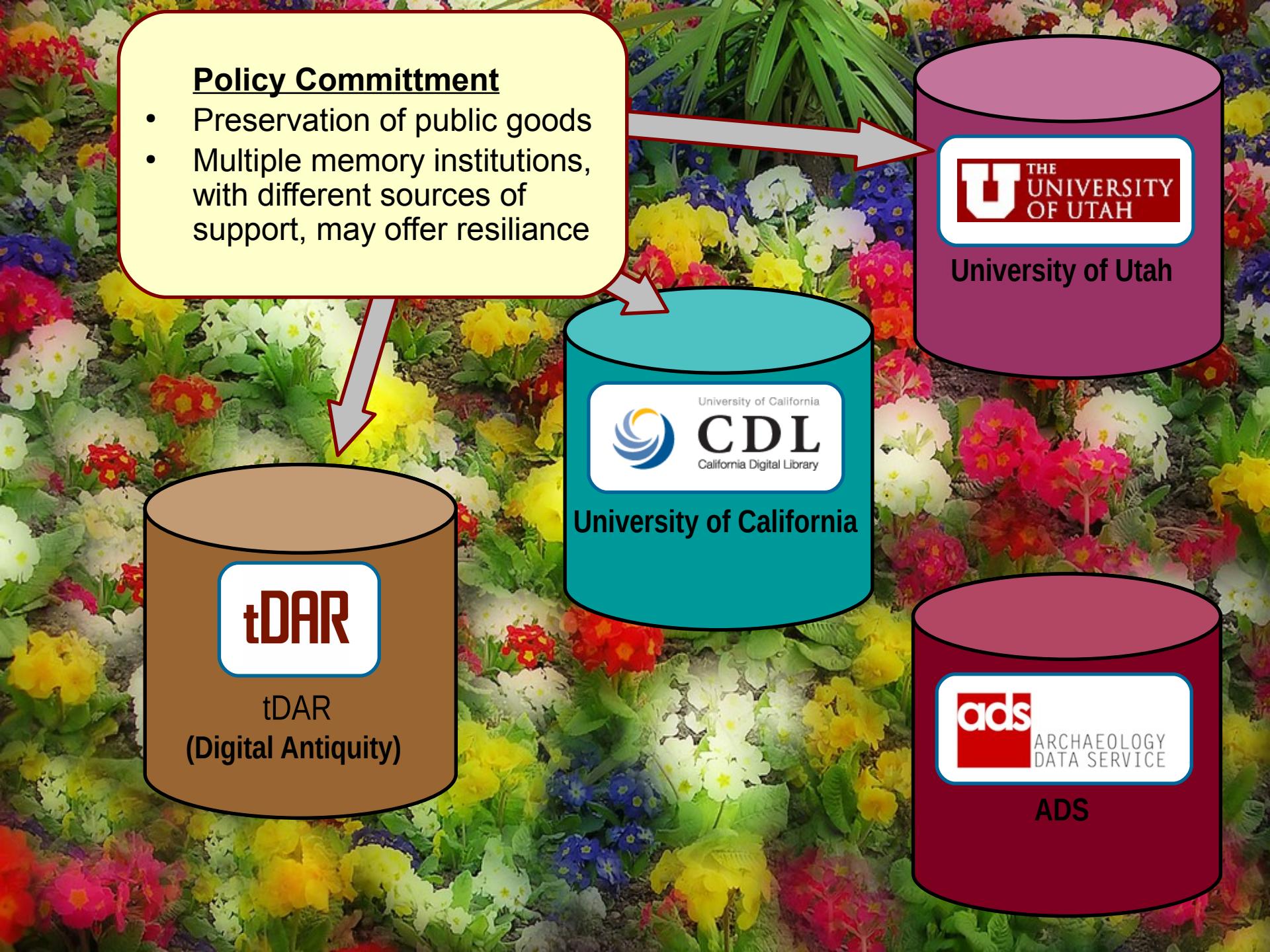
ADS



Preservation Infrastructure

- Open Context *needs* tDAR, CDL, and others for data curation
- Other Web-based systems have similar needs





Policy Commitment

- Preservation of public goods
- Multiple memory institutions, with different sources of support, may offer resilience

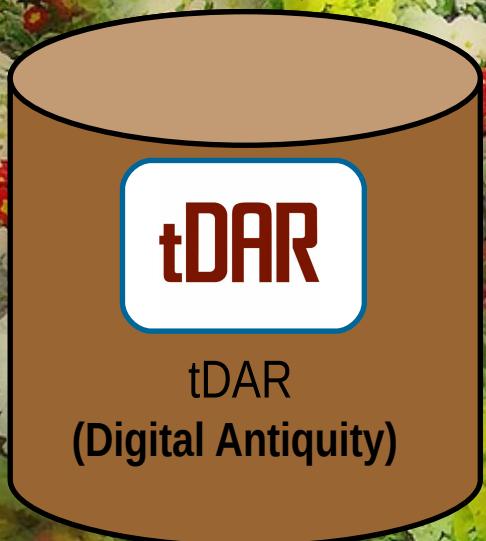
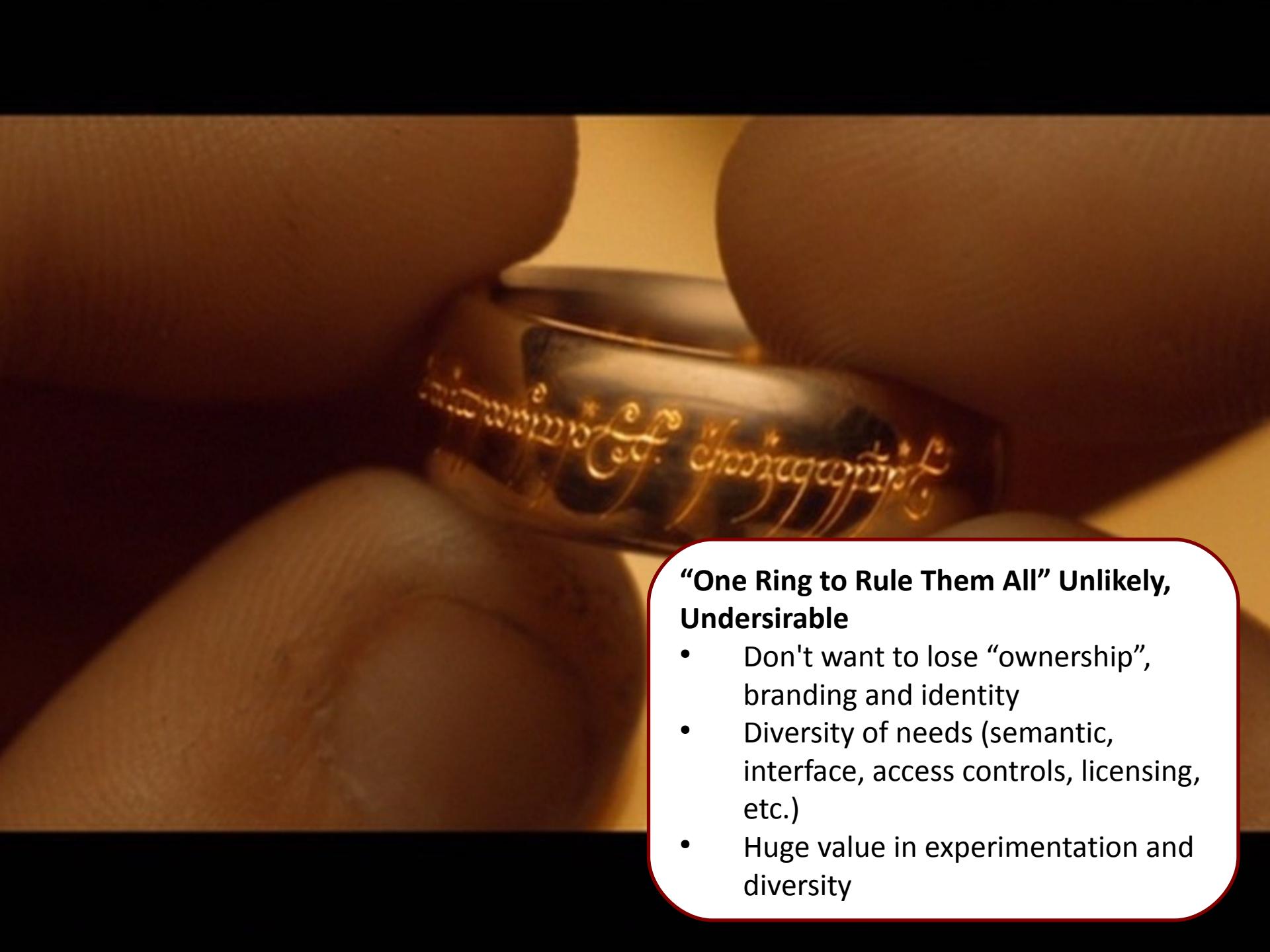


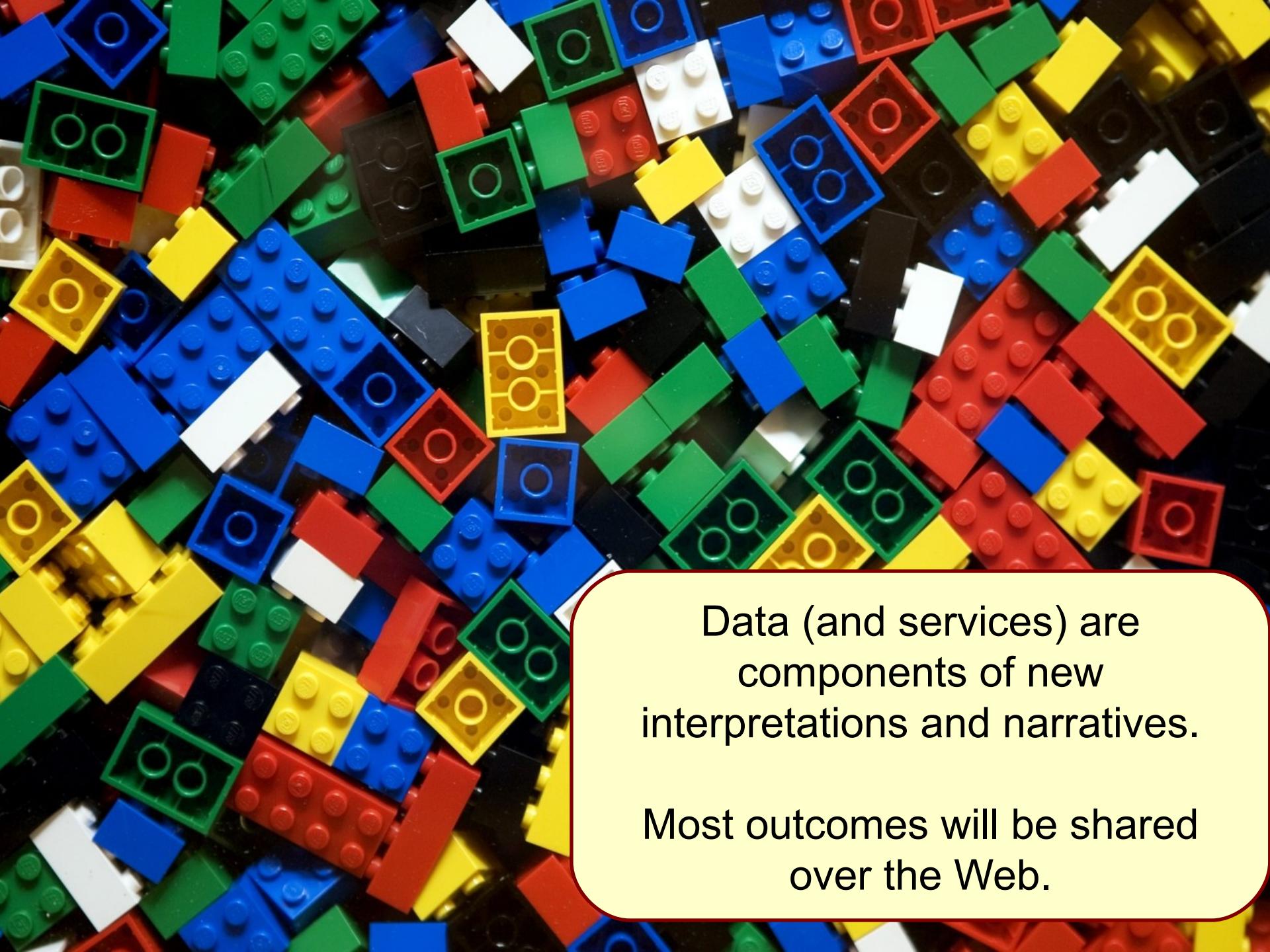


Image Credit: Copyright Newline Cinema



“One Ring to Rule Them All” Unlikely, Undesirable

- Don't want to lose “ownership”, branding and identity
- Diversity of needs (semantic, interface, access controls, licensing, etc.)
- Huge value in experimentation and diversity



Data (and services) are components of new interpretations and narratives.

Most outcomes will be shared over the Web.



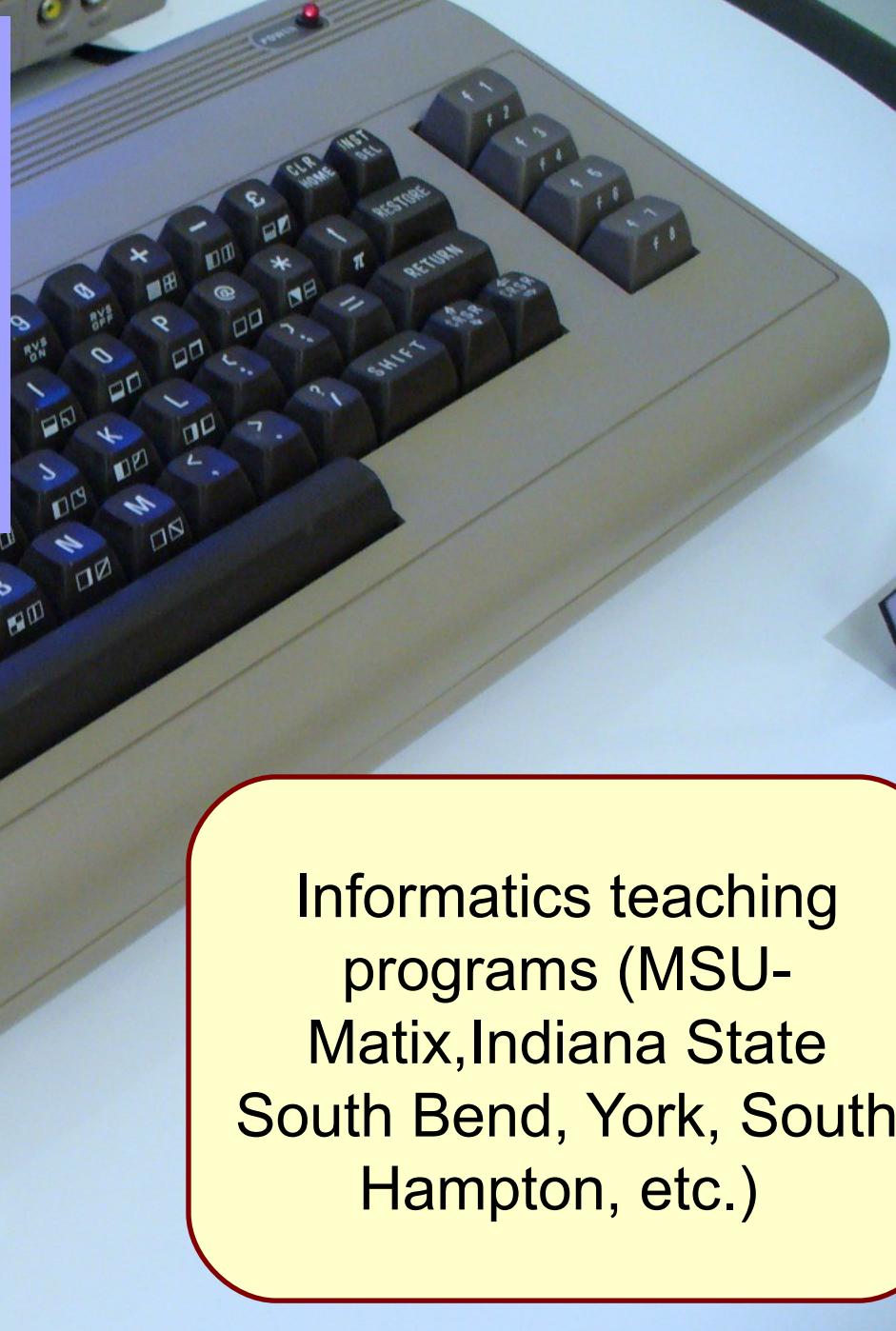
Community and Sustainability

- Need researchers with skills and interest in using shared data
- Web data specializations as important as GIS, zooarchaeology, etc.
- No matter how great your system, some will always need to programmatically interact with data



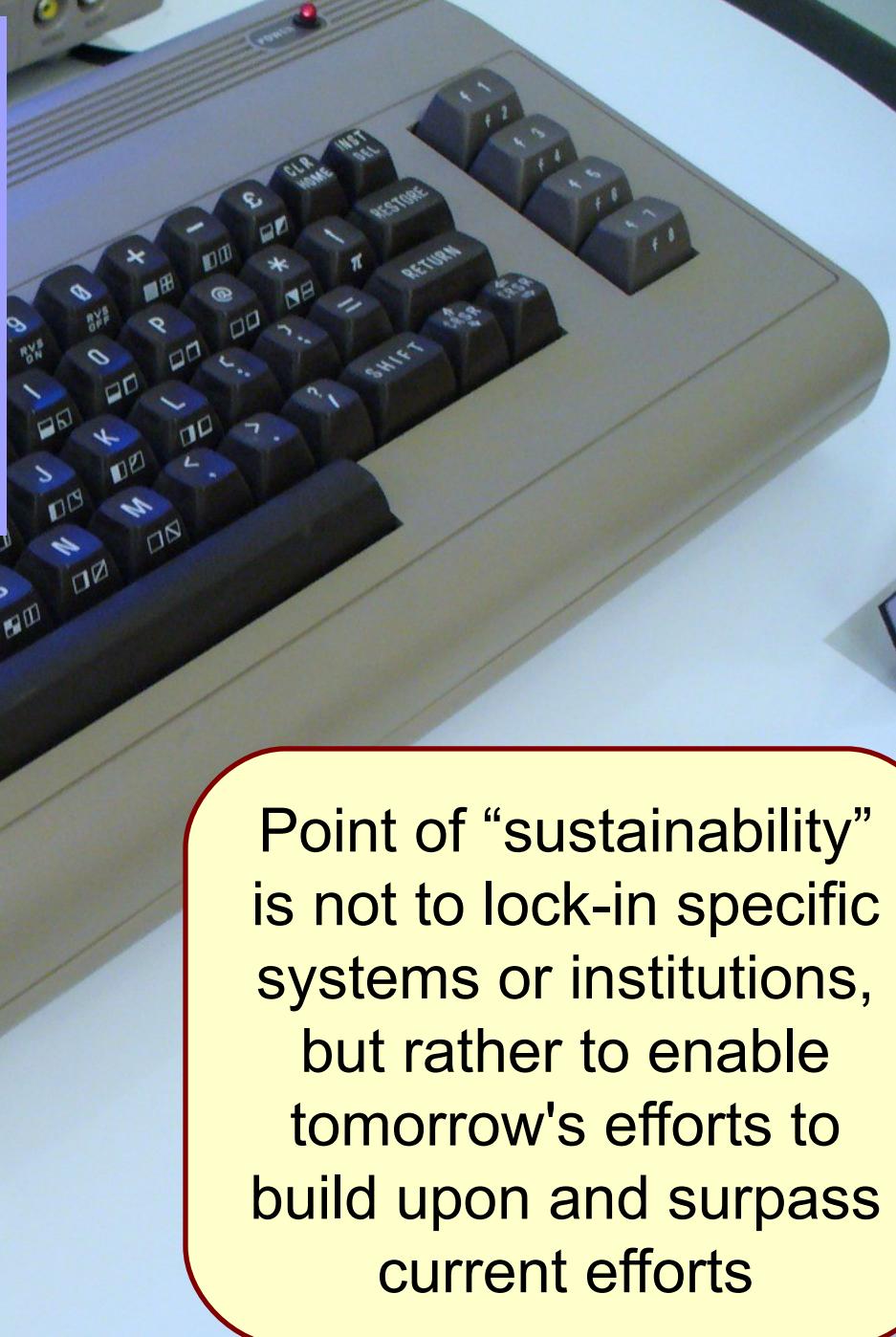
Image Credit: Marcin Wichary via Fotopedia (CC-By)
<http://www.fotopedia.com/items/flickr-2182567410>

**** COMMODORE 64 BASIC V2 ****
64K RAM SYSTEM 38911 BASIC BYTES FREE
READY.



Informatics teaching
programs (MSU-
Matix, Indiana State
South Bend, York, South
Hampton, etc.)

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READY.



Point of “sustainability”
is not to lock-in specific
systems or institutions,
but rather to enable
tomorrow's efforts to
build upon and surpass
current efforts

Summary

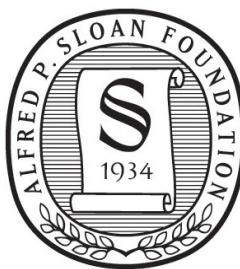
- (1) Communicating the past (including preserving for the future) is increasingly Web-centric
- (2) The Web is not a zero-sum game. Linked Data & shared services foster collaboration — the growth of other systems helps your own project
- (3) Need to cultivate skills and outlooks for archaeologists to thrive with the Web



Thank you!



NATIONAL ENDOWMENT FOR THE
Humanities



Encyclopedia of Life



Special Thanks!

Shawn Ross, Adela Sobotkova,
NeCTAR, FAIMS Project

