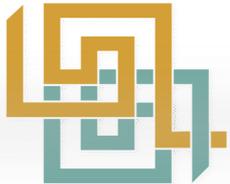


EAA Session 350: Sustainability, Unsustainability and Opportunity for Archaeological Data

Abstract:

The rise of digital data in archaeology has created a sustainability crisis requiring urgent action, while also creating opportunities. The majority of archaeological interventions are non-repeatable, and the careful recording carried out to document the resource becomes primary data. As this data is increasingly undertaken using digital methods and tools, archaeological data is often born digital, and with no paper surrogates for the primary record. Archaeological researchers are creative and innovative in their methodologies; adopting, adapting and developing novel techniques and approaches, requiring stewardship of a far greater variety of data formats than other cultural and scientific domains, along with more complex understandings of data re-use. This combination of factors, along with the challenges created by development-led archaeology and a research environment focused on project-by-project funding models, makes moving to a sustainable model even more challenging.

At the same time, work around stewardship and management of archaeological data has contributed to the creation of persistent resources, including an increase in the availability of open access to 'grey literature', and data from diverse providers has been made interoperable and cross-searchable across national boundaries. Continued effort to make archaeological data open, persistent and sustainable are urgently needed, and archaeologists must work together to raise awareness and take action. The ARIANDEplus infrastructure (<https://ariadne-infrastructure.eu/>) and Saving European Archaeology from the Digital Dark Age (COST Action SEADDA, <https://seadda.eu/>), invites papers discussing the sustainability of archaeological data, exemplars of open data and data re-use, and technologies and initiatives that promote interoperability and persistent resources. This session also welcomes papers discussing challenges associated with the sustainability of archaeological data, to promote better understanding of how we may work together as a community to address them.



Sustainability, Unsustainability and Opportunity for Archaeological Data

Holly Wright and Julian Richards

Archaeology Data Service, University of York, UK

Franco Niccolucci and Paola Ronzino

PIN - University of Florence

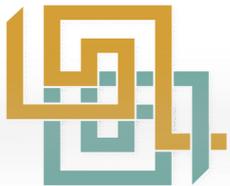
Virtual EAA, 30 August 2020

What is ARIADNEplus?

ARIADNE*plus* (2019-2022) is the continuation & extension of ARIADNE (2013-2017)

- It builds on ARIADNE results
- It extends ARIADNE along several dimensions
- It focuses ARIADNE on innovative services
- It embeds ARIADNE in the EOSC

Our mission: to interpret and answer the research community needs for studying the past to better understand the present with the tools and the methodology of the future, in the service of research, culture and society.

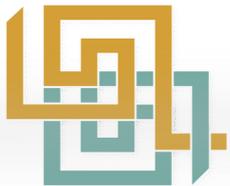


Coordinating networking activities (Task 2.1)



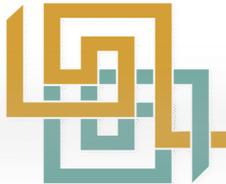
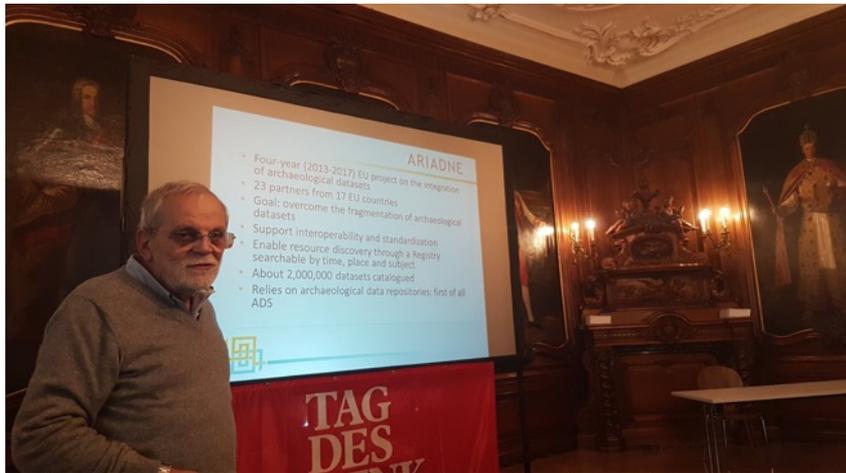
Photo: Paolo Lussu, SEADDA STSM (Short Term Scientific Mission to ADS) Feb-March 2020

Extending and supporting the ARIADNEplus and SEADDA communities in the days of COVID-19



Coordinating networking activities (Task 2.1)

- CHNT workshop, Vienna, 4-6 Nov 2019 – ARIADNEplus / SEADDA FAIR roundtable



Coordinating networking activities (Task 2.1)

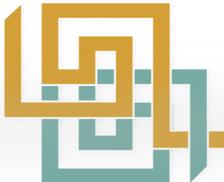
- Other International meetings:
 - CAA, Oxford – ARIADNEplus sessions cancelled ☹️
 - FAIR Heritage, Tours, France: 17-18 June - may be a virtual meeting
 - EAA Budapest, 26-30 August 2020: Joint A+/SEADDA Session 350: Sustainability, unsustainability and opportunity ??
- National meetings:
 - We need partners to organise them – in person or virtually!
 - e.g. Local CAA meetings



CAA International
@CAA_Int

It is with regret that we must announce the [@CAA_2020](#) conference has been postponed due to the rapidly evolving situation with Covid-19. As we explore options for rescheduling, please visit our website for details: [caa-international.org/2020/03/09/caa...](#)

8:06 PM · Mar 9, 2020 · Twitter for Android



Coordinating networking activities (Task 2.1)

- Online meetings:
 - Joint virtual meetings with SEADDA WG3 and WG4
 - Digital Humanities Twitter conference
 - Virtual ARIADNEplus General Assembly: 15 April 2020

Migrations to Preferred Formats

Mass migrations and transformations of archived data to new standards.



*"Upgrading is compulsory."
--the Cybermen
Doctor Who, BBC Studios, 1963-2019*

ARIADNEplus/SEADDA meetings on FAIR Data Management

News



ARIADNEplus Project @ARIADNEplus · Apr 2

The #ARIADNEplus team is happy to present its integration model and show how its digital platform enables collaborative work.

Thanks to colleagues of #APOLLONIS and @athenaRICinfo for showing, with this initiative, that #DH and #CH are stronger than #COVID19

1/15 | #DHgoesVIRAL



1



16

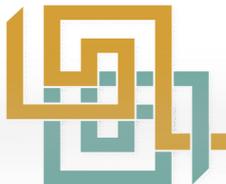


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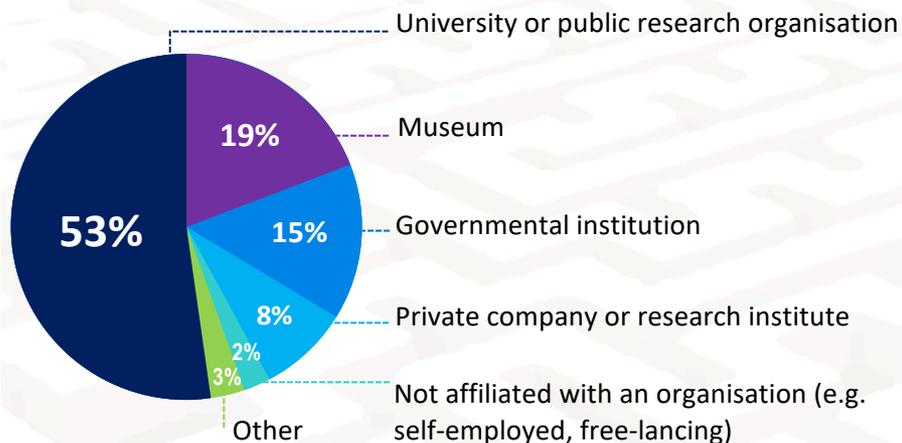
[Show this thread](#)

[See replies](#)



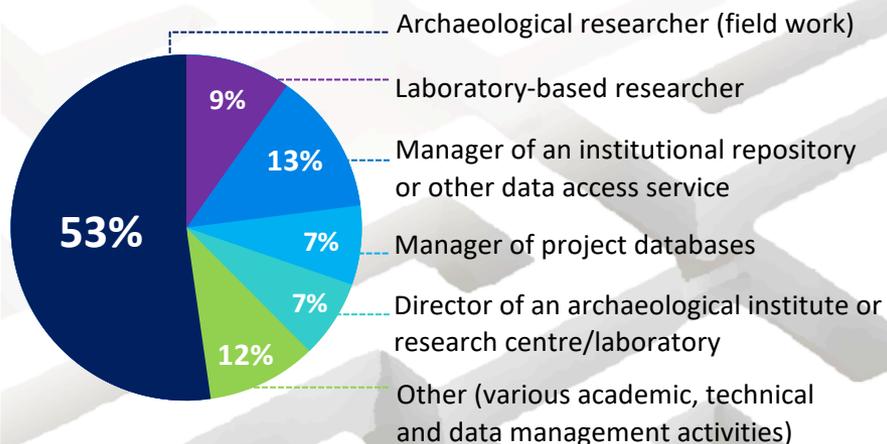
Organisational background

[N=482]



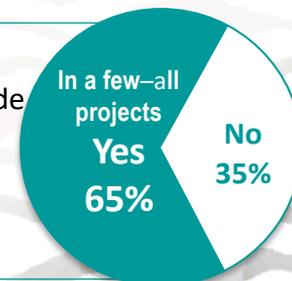
Main professional activities

[N=484]

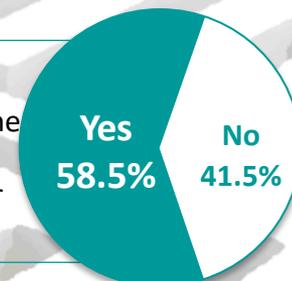


Data sharing and reuse

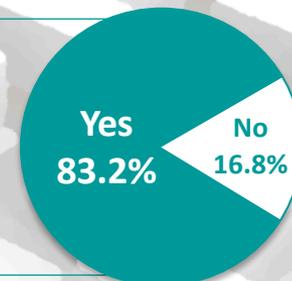
Is project data of your research group/organisation typically being made available through an accessible repository (institutional, national or other subject-/domain-based repository) [N=437-457]



Did you / your research group in the last 2 years use any data which other researchers made available through a publicly accessible digital repository or databases? [N=376]



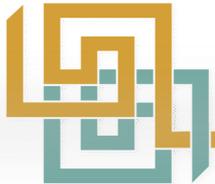
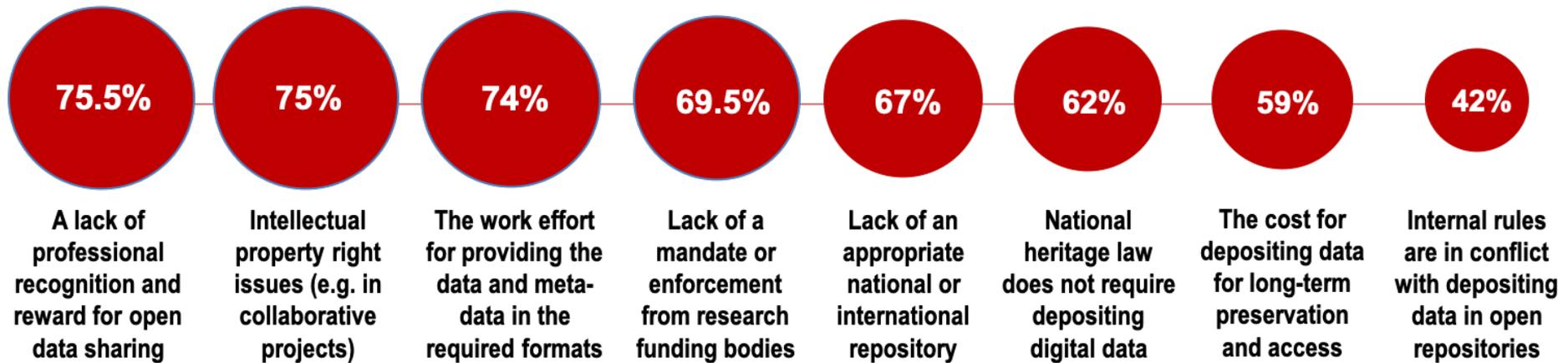
Do you agree to the following statement: "In the last 5 years the readiness of archaeologists to share data through publicly accessible repositories or data-bases increased"? [N=376]



Reviewing community needs - SRFG (T2.2)

Barriers to deposit research data in digital repositories

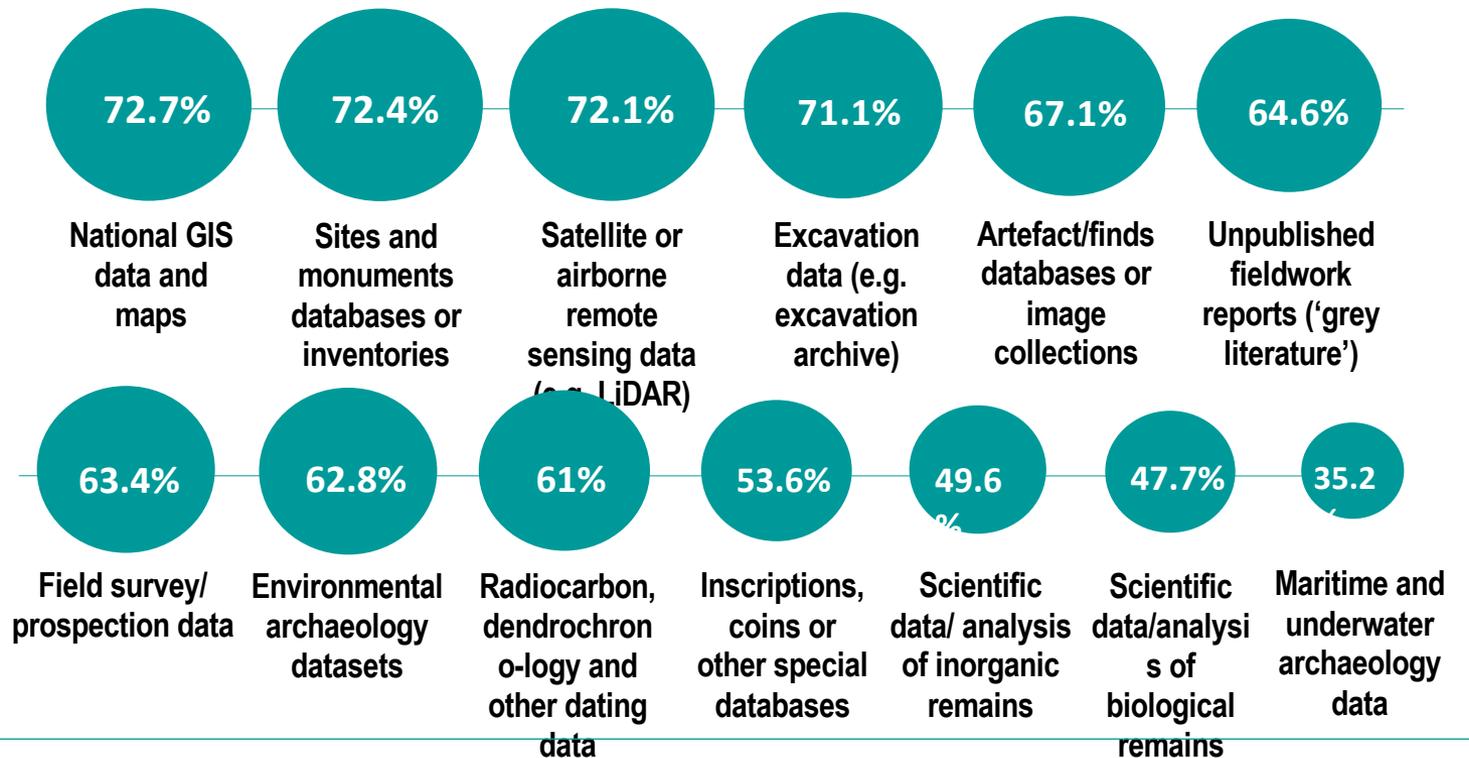
Results for “very” or “rather” important [N = 398-415]



Reviewing community needs - SRFG (T2.2)

Data discovery and access

Discover and access archaeological datasets from different providers via the ARIADNEplus data portal – Results for “very helpful” [N = 341-355]:



Services for researchers and data managers

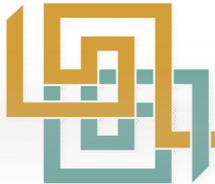
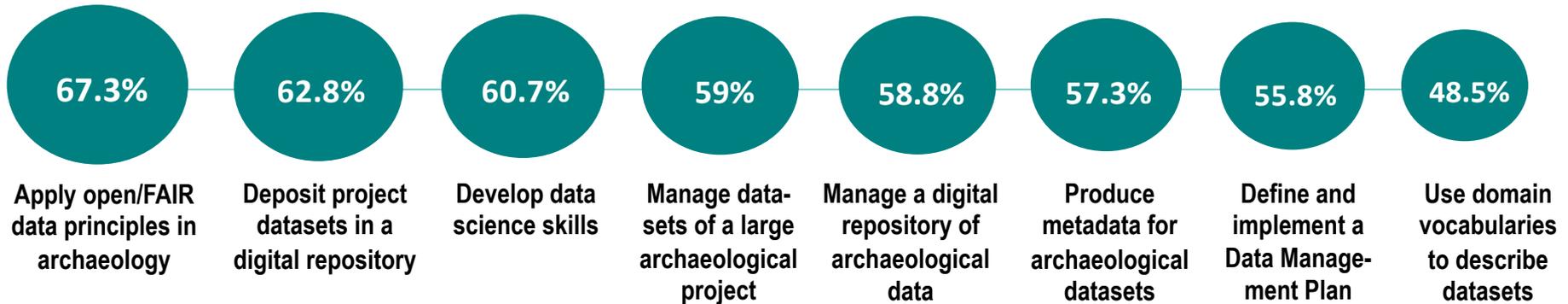
Helpfulness of ARIADNEplus services. Results for “very helpful” or “helpful” and just “very helpful” [N = 318-337]:

	“very helpful” or “helpful”	“very helpful”
Spatially and/or chronologically defined search options	96.3%	81.5%
Register a dataset in a portal that allows searching data from many providers	95.5%	74.7%
Discover & access archaeological data stored in repositories in different European & other countries	95.0%	73.6%
Search and visualize geo-spatial / GIS datasets	93.5%	68.9%
Multi-lingual search for archaeological data	83.0%	59.2%
Use Linked Data to interlink own and other datasets	82.9%	51.6%
Annotate images (e.g. artefact or laboratory images) and link them with other content	82.1%	49.6%
Post a picture of an object and get suggestions for similar ones	81.8%	54.0%
Display and manipulate visual data objects (e.g. RTI images, 3D models, LiDAR data)	81.5%	50.5%
Link and present together visual media (e.g. a 3D model) and related documentation	81.2%	49.8%
Process many documents (using NLP) to find those on certain topics or specific information they may contain	80.5%	49.8%
Identify & extract information from textual sources (e.g. a document repository) to produce metadata	79.8%	51.4%
Annotate texts (e.g. fieldwork or laboratory reports) and link them with other content	79.5%	48.6%
Align own vocabulary terms with international thesauri (e.g. Getty Arts & Architecture Thesaurus)	78.3%	49.7%
Map a database (schema) to the CIDOC-CRM extended for archaeological research data	74.5%	39.9%
Visualize in 3D the layers of an excavation and the related documentation	74.3%	45.3%

Reviewing community needs - SFRG (T2.2)

Training needs

Tasks for which training would be “very helpful” [N = 328-330]:



Involving partners (T2.3)

- Preparing documentation
 - ARIADNE DMP
- Preparing seminars

ARIADNEplus Project Retweeted

 **Sara Di Giorgio** @DiGiorgioSara · Apr 3

It's underway the webinar '3D, BIM and semantics for digital documentation of archaeological and architectural heritage',organised by @ARIADNEplus and Inceptions Spin-off ... connect now to inceptionspinoff.com #InThisTogether

3 Aprile 2020 | h 9:00 - 13:00 | online workshop | livestreaming su www.inceptionspinoff.com

3D, BIM E SEMANTICA PER LA DOCUMENTAZIONE DIGITALE DEL PATRIMONIO ARCHEOLOGICO E ARCHITETTONICO
Lo stato dell'arte in Italia: iniziative, progetti, risultati



#InThisTogether

myresearch.institute - Researchers

- Uniquely identified by ORCIDi
- Web identities in multiple portals
- Create various types of artifacts

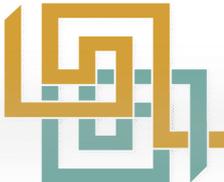


 @hvdsomp
ARADNE+/SEADDA Meeting, 17 March 2020, Online



ARIADNEplus/SEADDA meetings on FAIR Data Management

- Need online Video training
- Need Webinars



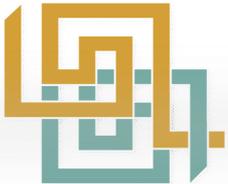
Consolidating the community (T2.4)

- Liaison with EAA
 - “Perhaps a public statement between EAA and ARIADNE would be important and perhaps we could adopt a code of conduct in regard to this and/or a standard” Felipe Criado-Boado, EAA President
- Liaison with EAC
 - Leonard de Witt will continue to represent them on SAB
 - Plus ARIADNE partners on EAC Board
- MoU with Pelagios
- Liaison with Getty – over extending AAT



Involving professionals and heritage managers (T2.5)

- Last quarter:
 - Discussions with ICCU on industry sectors and contacts
 - Discussions with PIN concerning the development of web-pages on the ARIADNE+ website
 - Participation in meetings with Europeana data partners in the Hague (October), Stockholm (October) and Lisbon (November).
- Need to develop a work plan going forward

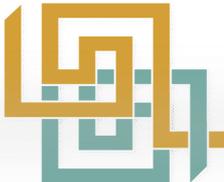


International Collaboration (T2.6)

- ARIADNEplus in Argentina (Nov 2019)



CONICET



International Collaboration (T2.6)

- SAA/ EAA Sponsored Design Workshop, Nov 2019, Arizona: Human Migration as Understood from a Long-Term Perspective

- Society for Historical Archaeology, Boston, 10 Jan 2020: ARIADNEplus at CfAS roundtable

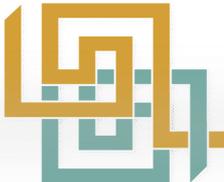
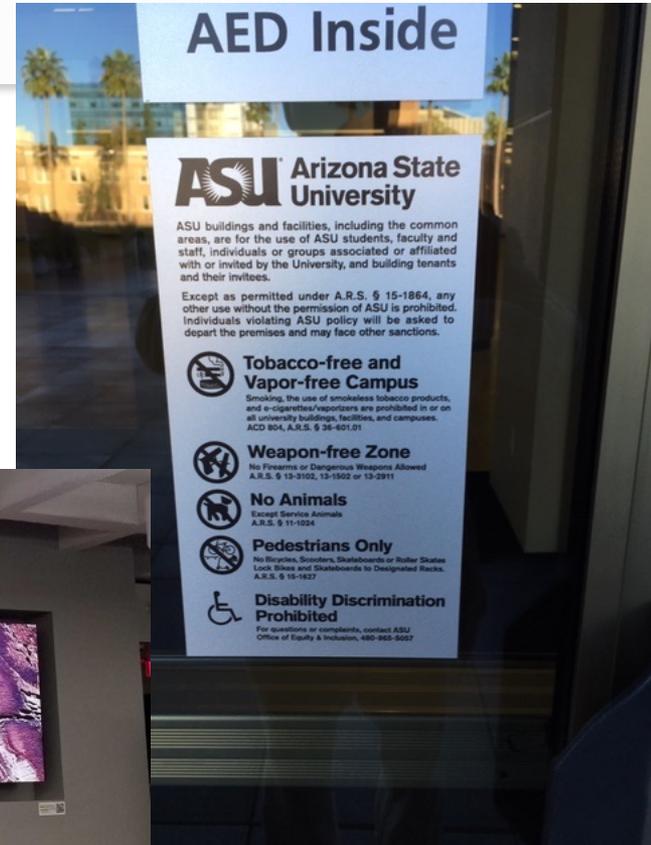


Coalition for
**Archaeological
Synthesis**



International Collaboration (T2.6)

- ARIADNEplus in Arizona (February 2020)
 - FAIRArchaeology.org



THANK YOU!

ARIADNEplus is a project funded by the European Commission under the H2020 Programme, contract no. H2020-INFRAIA-2018-1-823914.

The views and opinions expressed in this presentation are the sole responsibility of the authors and do not necessarily reflect the views of the European Commission.

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www.ariadne-infrastructure.eu

