



Humanities at Scale

DARIAH Annual meeting

Berlin, 26.04.2017



HaS has received funding from the EU Horizon 2020 Research and Innovation Programme under Grant Agreement No. 675570

# HUMANITIES AT SCALE: FACTS AND FIGURES



- \* Individual implementation and operation of ESFRI projects, **INFRADEV-3-2015** call
- \* Duration **28 months** (Sept. 2015 – Dec. 2017)
- \* **12 partners involved:** DARIAH, CNRS, DANS, University of Goettingen, University of Aarhus, IEF, Academy of Athens, University of Maynooth, CNR, University of Luxembourg, ÖAW, FH Potsdam.
- \* Estimated funding: **EUR 1,9 million**

# OUTCOME

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- \* **Grow the DARIAH community**

involving new communities and new regions through workshops, regional Hubs Master classes, Summer Schools, Ambassadors.

- \* **Develop communication, impact strategy for DARIAH**

definition of stakeholders, industry and ethic strategy

- \* **Develop core services**

better assessment, evaluation and dissemination of national in-kind contributions, implementation of basic tools and services in the DARIAH infrastructure, develop service level-agreements

- \* **Support open access**

develop an open humanities data platform, create a meta blog for publishing articles dealing with open methods in DH



- \* The project addresses the topic “Individual implementation and operation of ESFRI projects”.

“The initial phase is the most delicate and difficult one for new pan-European infrastructures in the process to become fully operational as technologies, services and procedures need to be finalised and best tuned, financial sustainability must be proved and users’ trust and awareness must be gained.”

- \* **Humanities at Scale** replies to the Assessment Expert Group’s (AEG) evaluation of DARIAH in 2013
- \* Existing core services are enhanced



# SUSTAINABILITY: PROJECT'S MAIN CONTRIBUTION



In the spotlight: Integrating and scaling national DARIAH contributions

- \* Separate the collection of contributions and in-kind. This will enable assessment and review of the contributions, revealing how compatible a contribution is to the DARIAH infrastructure through a hallmark.
- \* WP5 will establish a DARIAH-space (online tool), to assess, evaluate and disseminate national in-kind contributions and give more visibility/accessibility to those contributions.
- \* Re-definition of architectural requirements.

# SUSTAINABILITY BEYOND THE PROJECT

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- \* Sustainability strategy developed for services and data
- \* Development of sustainable funding models for new regions
- \* Increased collaboration with other ERICs and RIs
- \* Creation of an Innovation Board for DARIAH
- \* Work more closely with industry



Humanities at Scale

Thank you for your attention!



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- ❖ Call: H2020-INFRADEV-2016-2017
- ❖ 36 Months January 2017 – December 2019
- ❖ Total funding: 2.7 Million Euro
- ❖ Coordination: DARIAH-ERIC & SUB Goettingen
- ❖ WP leads: University Gent, University Warsaw, University of Lisbon & BCDH
- ❖ 3 Technology partner: ICM Warsaw, L3S Hannover & INRIA
- ❖ 6 potential new DARIAH members: UK (Scotland), Finland, Spain, Switzerland, Czech Republic & Israel

(15 partners from all over Europe)

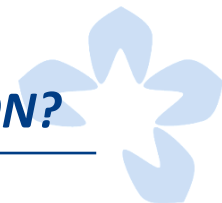


## OUTCOME: HIGHLIGHT THE MAIN OUTCOME OF THE PROJECT

Challenges	Objectives	Activities	Verifiable Outcomes
<b>1. Dissemination</b>	Communicate DARIAH services and tools in Europe and globally	Organize a <b>series of high-profile workshops in Europe, the US and Australia</b>	Workshop reports
<b>2. Growth</b>	Enlarge DARIAH by integrating new European members into the DARIAH community	Support <b>potential new member candidates</b> in developing targeted strategies for joining DARIAH	Expanded contact with new countries, roadmaps for DARIAH membership
<b>3. Technology</b>	Include new services in the DARIAH research infrastructure covering state-of-the-art, novel technologies	Define and implement <b>new services</b> in close cooperation with external technology partners	Proof of concepts, implementation of new services
<b>4. Robustness</b>	Reinforce the structure and governance of DARIAH	Develop a <b>business plan and marketing strategy</b> for the future sustainability of DARIAH; initiate a centralized help desk	Business plan, marketing strategy, centralized help desk
<b>5. Trust</b>	Measure the impact of DARIAH in new communities and develop strategies to increase trust and confidence	Conduct a <b>study of DARIAH's usage in new communities</b> , define new strategies	Apply mechanisms for increasing trust and confidence in DARIAH
<b>6. Education</b>	Maintain and expand services of the DARIAH Virtual Competency Center Research and Education Liaison	Assess the skills base of the DARIAH community in <b>using tools and services, develop online tutorials</b> , conduct research methods and training measures	Skills base report, instruction manuals for DARIAH tools and services. Training measures

## *CONTINUITY: WHICH DARIAH RESULTS IS THE PROJECT BUILDING UPON?*

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- ✧ Technical infrastructure and services
  - ✧ Existing membership
  - ✧ Trust and acceptance within the community
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- ✧ Continuation of what we are already doing (only this time with funding)

## ***SUSTAINABILITY: WHAT IS THE PROJECT'S MAIN CONTRIBUTION TO THE DARIAH-EU COMMUNITY IN TERMS OF CONTENT (DELIVERABLE, SERVICE, ETC.)***



- ✿ Series of international workshops to demonstrate existing solutions and results to a wider audience

Location	Local Coordinator	Focus	Date
Library of Congress DC, USA	Kate Zwaard	Digital heritage & culture	June/July, 2018
Stanford University CA, USA	Glen Worthey & Stuart Snyderman	Text analysis	Sep/Oct 2018
Australian National Data Service	Karen Visser & Adrian Burton	Geo-humanities	March 2019

- ✿ Innovative new concepts for the technical infrastructures (Gap-analysis, Hackathon & proof of concept)
- ✿ Business plan, marketing strategy & help desk
- ✿ Structures for new membership



***SUSTAINABILITY: HOW ARE ISSUES OF SUSTAINABILITY ADDRESSED IN THE WORK PLAN? IS THERE ANY PLAN FOR THE FUTURE SUPPORT OF THE PROJECT'S OUTCOMES***

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- ❖ The whole work plan is only focussed on the issue of sustainability
- ❖ With DESIR, DARIAH-ERICH has the opportunity to lay the foundation of its own sustainability

# HIRMEOS

## High Integration of Research Monographs in the European Open Science Infrastructure



**Dariah Annual Meeting – Berlin – April 2017**

**Pierre Mounier**

**Ecole des Hautes Etudes en Sciences Sociales  
OpenEdition**



# HIRMEOS Partners



# OPERAS

open access in the european research  
area through scholarly communication

No	Name	Short name	Country	Project entry month <sup>a</sup>	Project exit month
1	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	CNRS	France	1	30
2	ETHNIKO IDRYMA EREVNON	NHRF (EIE)	Greece	1	30
3	STICHTING OAPEN*OPEN ACCESS PUBLISHING IN EUROPEAN NETWORKS	OAPEN	Netherlands	1	30
4	STIFTUNG DEUTSCHE GEISTESWISSENSCHAFTLICHE INSTITUT IM AUSLAND - DGIA	DGIA	Germany	1	30
5	GEORG-AUGUST-UNIVERSITÄT GÖTTINGENSTIFTUNG ÖFFENTLICHEN RECHTS	UGOE	Germany	1	30
6	UBIQUITY PRESS LIMITED	UBIQUITY PRESS	United Kingdom	1	30
7	OPEN BOOK PUBLISHERS COMMUNITY INTEREST COMPANY	Open Book Pub	United Kingdom	1	30
8	DIGITAL RESEARCH INFRASTRUCTURE FOR THE ARTS AND HUMANITIES	DARIAH ERIC	France	1	30
9	UNIVERSITÀ DEGLI STUDI DI TORINO	UNITO	Italy	1	30

# Outcome



- Upgrade 5 open access books publishing platforms to 5 added value services :
- 1. Identification services : DOI, ORCID, Fundref
- 2. Entities recognition services : persons, places, periods
- 3. Certification Service : connection with DOAB
- 4. Open Annotation Service : Hypothes.is
- 5. Metrics : Open Access metrics, alternative metrics

# Continuity with Dariah

- WP3 : Entities Recognition Service built upon (N)ERD services developed by INRIA in CENDARI project

Work package title	Entities recognition services								
Participant number	1	2	3	4	5	6	7	8	9
Short name of participant	CNRS-CLEO	EKT	OAPEN	MWS	UGOE	UP	OBP	DARIAH-EU	UNITO
Person/months per participant:	5	4	1.5	0	4	4	0	11	0
Start month	3						End month 12		

## Objectives

To recognize and tag named entities (persons, locations, dates) in full text books. This work package is to oversee the essential embedding of the INRIA (N)ERD technology to a uniform level across the above publishing platforms. This will consist of each platform being able reliably submit text with the range of concepts it wishes to have identified and/or disambiguated, and have those texts returned with appropriate annotations, to an acceptable and validated level of accuracy. Once identified with sufficient precision, certain platforms will then proceed to more sophisticated levels of implementation.

## Description of work

### T3.1 INRIA (N)ERD Service development (lead : INRIA ; duration : M3-7)

INRIA gathers today the scientific and technical expertise around the (N)ERD service. INRIA will ensure that the service is available and running correctly on its servers for integration by the partners. If needed, adjustments of the service API and particular authentication mechanisms will be provided. INRIA will ensure that the API is appropriately used and that the resulting annotations follow quality criteria given the considered application fields. These criteria include accuracy and coverage of the produced annotations as explained in the validation section below, but also satisfactory response time under average loads, service disponibility and security. Regression tests and performance metrics will be regularly carried out by INRIA and communicated to the other partners.

### T3.2 : Coordination, validation and support (lead : DARIAH ; participants : CNRS-CLEO, EKT, UGOE, UP, INRIA ; duration : M8-12)

DARIAH-EU will coordinate between each of the named publishing platforms and the NERD service based at Inria. NERD is already a part of the DARIAH member consortium in France and the service as such is already an in-kind contribution to DARIAH. DARIAH will liaise between the NERD service developers to ensure a bespoke approach to each of the named platforms while ensuring the same standard of implementation.

## Validation

Validation will take place through one or both of the following steps, depending on whether any of the publishing platforms goes beyond Levels 1 and 2:

- a direct usage of the generic (N)ERD via its web API,
- a usage of the service with a customization to the specialist field(s) covered by the publishers.

A typical validation process for these steps is to use two evaluation metrics, precision and recall, for estimating the quality of the semantic annotations and for defining a minimum confidence score threshold. These metrics would be based on a small set of expected annotations created manually and relevant to the publication fields.

In addition, specific tests and robust review cycles will be employed via manually creating an evaluation set of annotations and producing bespoke metrics that will be used to adjust the settings and ensure good quality annotations for each application domain/platform.

# Contribution to Dariah community



- Improve important open access publishing platforms
- Tackle the main obstacles of the full integration of platforms into the European Open Science Cloud.
- Accelerate the inclusion of more disciplines into the Open Science paradigm widening its boundaries towards the SSH.
- Better integration between open scholarly communication and digital humanities

# Sustainability

## Sustainable publishing platforms

- OpenEdition Books (FR)
- The OAPEN Library (NL)
- Göttingen University Press (DEU)
- EKT ePublishing service (GR)
- Open Book Publishers (UK)
- Ubiquity Press (UK)

## Standard technologies

TYPE OF SERVICE	TYPE OF DATA	TECHNOLOGY OR STANDARDS
Identification	Authors ID	ORCID
	Documents ID	DOI
Entity recognition	Named entities	NERD
Certification	Peer Review process	DOAB PR types
	License	Creative Commons
Annotation	Open peer review	hypothes.is
	Open Commentary	hypothes.is
Usage metrics	Downloads	COUNTER
	Citations/Reviews	Crossref - Google Scholar
	Social media impact	ALM

# HIRMEOS

High Integration of Research Monographs in the  
European Open Science Infrastructure



**THANKS FOR YOUR ATTENTION!**







# **The PARTHENOS R.I.**

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Berlin – DARIAH – 26/04/2017

**Sheena Bassett**

PIN Srl

## About PARTHENOS

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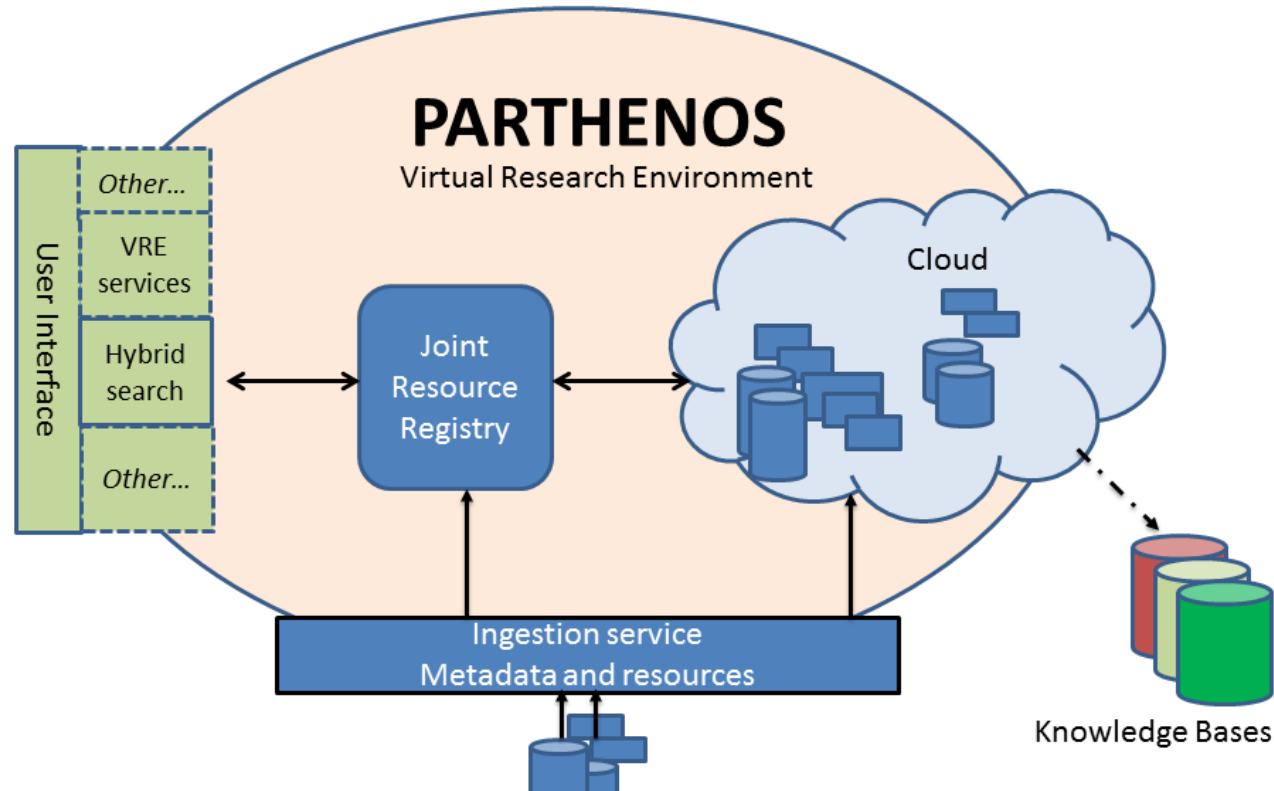
**Duration** – PARTHENOS started 1<sup>st</sup> May 2015 and runs for 4 years (until 30<sup>th</sup> April 2019).

**Partners** – there are 16 partners who consist of the major cultural heritage RIs, national research organisations and/or national organisations involved in one or more networks. These are: CLARIN, DARIAH, KNAW-DANS and KNAW-NIOD (EHRI), CNRS HUMA-NUM & INRIA, TCD (CENDARI), CNR, SISMEI and ICCU-MIBACT, AA and FORTH, CSIC, KCL, OEAW and FHP. The Co-ordinator is PIN (ARIADNE).

**Objectives** – user requirements from which the following are being derived: common policies and standards, tools and services to enable cross-disciplinary access to data and services, and training. Dissemination is via multi-channel promotion and joint events.

# The main outcome to be achieved

## An overview



- A Virtual Research Environment for Humanities researchers that will provide (federated) access to people, data and resources, and services for use with the data.
- Resources include a wizard for the selection of appropriate policies and tools for implementation by researchers, the SSK and also several online training units,
- A means for collaborative projects and working based upon cloud technology. A key feature will be the export of knowledge bases for further research use.

## Continuity: **PARTHENOS** and **DARIAH**

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- VCC1 – e-Infrastructure. The PARTHENOS VRE is based on common standards and policies and enables researchers unified access across the Humanities disciplines to data and resources and services.
- VCC2 - DARIAH-TEACH (online modules)
- VCC3 - Scholarly Content Management The Humanities at Scale project is working closely with two PARTHENOS subtasks on a) the definition of communication requirements [Task 2.5] and b) Scientific communication [Task 8.2].
- VCC4 Advocacy, Impact and Outreach. Joint workshop planned for PARTHENOS, DARIAH and CLARIN on day after DH2017 Benelux on FAIR Principles.

## Sustainability: **PARTHENOS** in the future

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- The PARTHENOS Portal will be continue to be supported after April 2019.
- The PARTHENOS VRE will continue to be supported after April 2019 by CNR.
- One option for the training modules will be to migrate these into the VRE, also to integrate them into DARIAH.
- As INRIA will host the SSK, this should continue to be available both to PARTHENOS and DARIAH.
- KNAW-DANS likewise, though CLARIAH, will support the Common Policies wizard.
- Opportunities for follow-on funding will also be pursued. For example, extending PARTHENOS to the Social Sciences which are partially but not wholly covered in the present project.



# THANK YOU!

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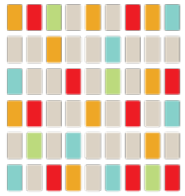
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[www.parthenos-project.eu](http://www.parthenos-project.eu)



# E-RIHS

EUROPEAN RESEARCH INFRASTRUCTURE  
FOR HERITAGE SCIENCE



## E-RIHS in the preparatory phase

Luca Pezzati







# E-RIHS facts & figures

## Institutions involved

- E-RIHS PP 16 Partner Countries (coordinating country: Italy)
- 5 Observer Countries

## Timeline

- 2017-2019: preparatory phase
- 2021-2025: implementation phase

## Concept

- a distributed research infrastructure for heritage **interpretation**, **preservation**, **documentation** and **management**
- a **cross-disciplinary collection** of advanced tools and services for advancing understanding and preservation of global **cultural** and **natural** heritage
- serving a **cross-disciplinary community** of researchers in heritage science



## The four access platforms of **E-RIHS**



**MOLAB**



**FIXLAB**

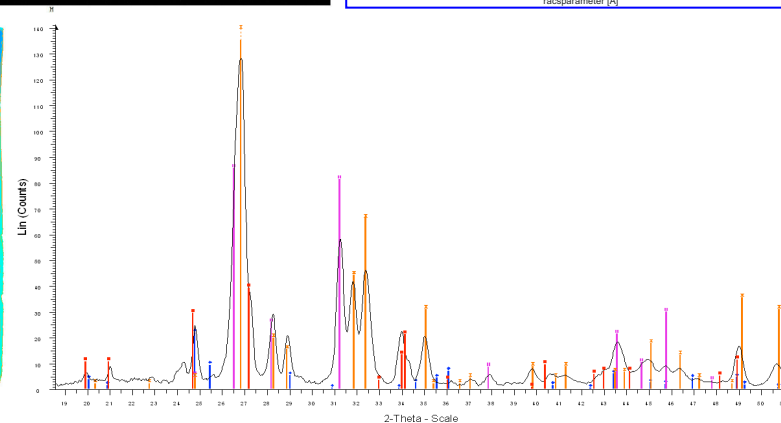
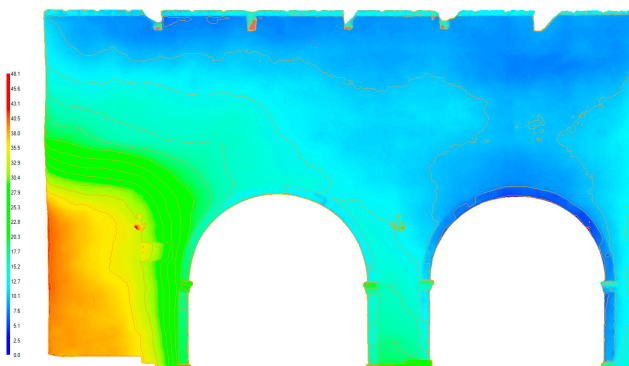
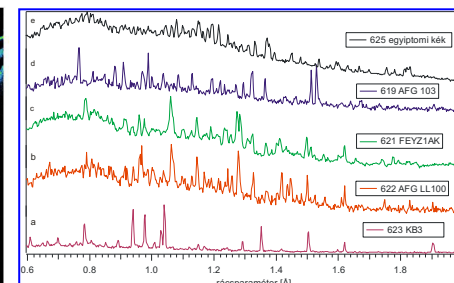
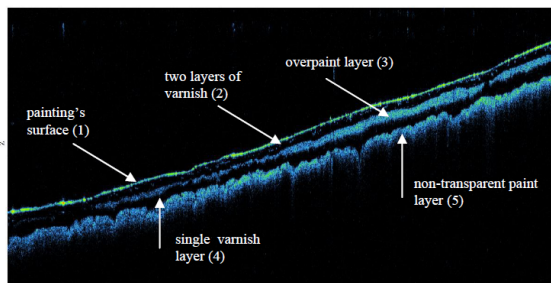
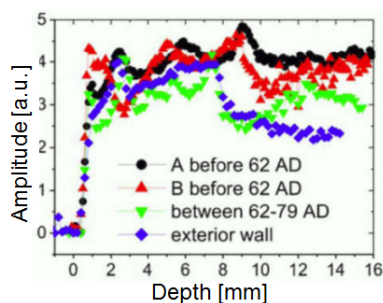
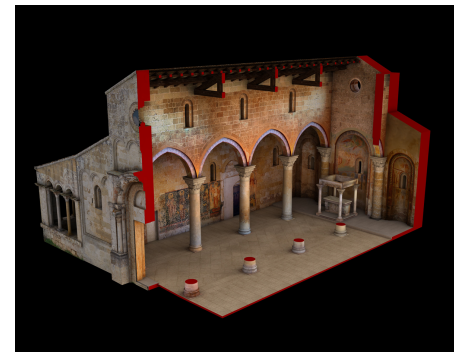
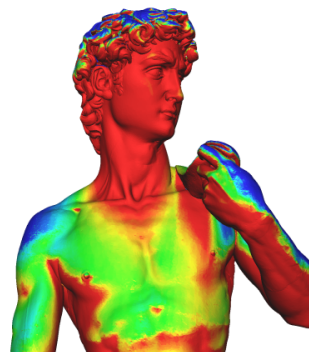
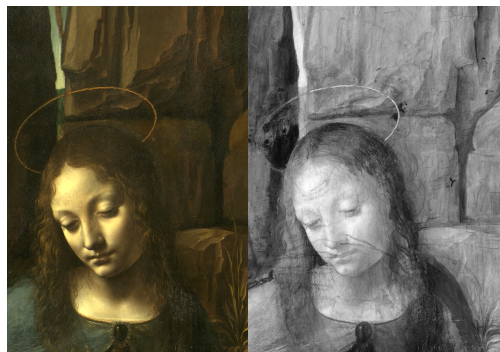


**ARCHLAB**



**DIGILAB**

## E-RIHS digital tools & datasets for heritage science







**E-RIHS**

EUROPEAN RESEARCH INFRASTRUCTURE  
FOR HERITAGE SCIENCE

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...thank you for your attention!