Social dynamism as evidenced in archaeological remains from the sixth and fifteenth nomes of Upper Egypt between the Old and Middle Kingdoms (c. 2686-1650 BCE)

A Data Management Plan created using DMPonline.be

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Project abstract:

This project aims to study two Egyptian archaeological sites explored by KUL (Dendera and Deir el-Bersha) to address the research question of regionality in ancient Egypt. The objective is to identify in the archaeological assemblages what could characterize the regional patterns of two pharaonic communities. This will be addressed through study of the material culture and funerary practices of these two sites, which functioned during the Old Kingdom, First Intermediate Period, early Middle Kingdom in two different regions of the Nile Valley. A very important source will be unpublished archival data of the early excavations. This will be integrated with the results of the excavations of KULeuven at the sites. For the interpretation, an innovative combination of GIS analysis, material network analysis, and radiocarbon dating (exceptional in Egypt) will be deployed. A long-term aim is to establish a research consortium developing this approach across the Nile Valley in the framework of an ERC project.

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Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset name / ID	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
		*Indicate: **N**(ew data) or **E**(xisting data)*	Indicate: **D**(igital) or **P**(hysical)	Indicate: **A**udiovisual **I**mages **S**ound **N**umerical **T**extual **M**odel **SO**ftware Other (specify)		Indicate: <1GB <100GB <1TB <5TB >5TB NA	
bibliography	bibliographic references and files about the sites of Dayr al-Barsha and Dendara	existing	digital + physical	I T	.pdf .docx .xml	<100 GB	
personal writings	textual chapters related to the PhD project and articles or other texts related to the C1 project	new	digital	I T M SO	.pdf .docx .xml	<100 GB	
unpublished field data past campaigns Barsha & Dendara	photos, drawings, maps, texts and other type of data collected by previous participants to the Barsha and Dendara campaigns that have not been published to date but have been made accessible	existing	digital + physical	I N T	.jpg .tiff .pdf .docx etc	<2TB	notebooks
archival data from Penn Museum	a partial digital copy of the archaeological archive of the Penn Museum's past missions to Dendara	existing	digital	I T	.jpg .tiff .docx .pdf	<1TB	
archival data from other museums and institutions (TBD)	data regarding artefacts from Barsha and Dendara that are currently preserved in museums worldwide	existing	digital + physical TBD	I T	TBD	TBD	
existing DB	data (images) of the past Barsha excavations	existing	digital	I T SO	.jpg .tiff (on ManGO)	<2TB	
new C1 project DB (TBD)	integrated data of the past Barsha and Dendara excavations	new	digital	I T SO	TBD (in the shape of a website?)	TBD	
Dendara GIS data	georeferenced map of the Dendara necropolis	existing	digital	I T N M SO	.dbf .shp .prj .shx	<100GB	
future Barsha GIS data (TBD)	georeferenced map of the Barsha necropolis	new	digital	I T N M SO	.dbf .shp .prj .shx	<100GB	
future field data future campaigns Barsha & Dendara (TBD)	varied archaeological data to be collected in the field in Barsha and Dendara	new	digital + physical	?	TBD	TBD	

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

There will be made use of data contained in published papers and books, as well as unpublished archival material. Some of these archival sources are digital, whereas others are physical. Some pre-existing images from museums may will be included in a dataset of artefacts from

the archaeological sites concerned.

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.

- No

Will you process personal data? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).

- No

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material or Data transfer agreements, Research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- No

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- Yes

The project uses data from the archives of the University of Pennsylvania Museum (Philadelphia, USA). Yann Tristant has receveid the permission to access and use the data whitout restriction. A complimentary copy of each publication that includes materials from the Penn Museum must be forwarded to the archives department. Documents must be creadited as "Courtesy of the Penn Museum, image #--- and/or object #---."

Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, codebook.tsv etc. where this information is recorded).

- Bibliographic references will be organised in Zotero, in different folders per subject, and with tags for chronology, geography, actions etc. They are linked to the digital files.
- Personal writings will be stored in structured folders per PhD chapter and/or per publication on KU Leuven Onedrive.
- The unpublished archival pictures, documents and metadata related to the different KU Leuven Barsha and Dendara excavation campaigns will be stored in structured folders on KU Leuven Onedrive. It is unclear at this point if (all) these data will be shared on RDR at the end of the project, as they are the property of the respective research projects rather than of the current C1 project.
- The current Barsha DB is and will be available on ManGO and accessible for registered users.
- The potential future C1 project DB, including GIS data, may be available on ManGO and/or on a dedicated website and accessible for

registered users respectively accessible to the public.

Will a metadata standard be used to make it easier to find and reuse the data?
If so, please specify which metadata standard will be used.

If not, please specify which metadata will be created to make the data easier to find and reuse.

- No

There are no univocal metadata standards in use in our field. We will reflect on the adoption of metadata standards currently used by IFAO, France in the framework of the Dendara project; the standards used by the RDM service of KU Leuven in the framework of the ManGO DB for the Barsha project; as well as any standards commonly used by other archaeological projects involved with bibliography and databases, like for example the Getty Art & Architecture Thesaurus (AAT) and Dublin Core.

Data Storage & Back-up during the Research Project

Where will the data be stored?

- ManGO
- OneDrive (KU Leuven)

The data of the C1 PhD project will be stored on KU Leuven Onedrive.
The data of the Barsha project will be stored on ManGO.
The data of the Dendara project are currently stored on external hard disks but may be integrated on a DB/repository (ManGO or other) and/or publicly accessible website.

How will the data be backed up?

- Standard back-up provided by KU Leuven ICTS for my storage solution
- Personal back-ups I make (specify below)

Is there currently sufficient storage & backup capacity during the project?

If no or insufficient storage or backup capacities are available, explain how this will be taken care of.

- Yes

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

Folders are shared with only relevant persons and colleagues.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

The use of KU Leuven OneDrive for Business is free of charge. The annual fees for ManGO will be paid from the project's budget

Data Preservation after the end of the Research Project

Which data will be retained for 10 years (or longer, in agreement with other retention policies that are applicable) after the end of the project?

In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

- All data will be preserved for 10 years according to KU Leuven RDM policy

Where will these data be archived (stored and curated for the long-term)?

- KU Leuven RDR

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

N/A

Data Sharing and Reuse

Will the data (or part of the data) be made available for reuse after/during the project?
Please explain per dataset or data type which data will be made available.

- Yes, as open data
- Yes, as restricted data (upon approval, or institutional access only)

If not available open acess, the data will be made available upon request through dedicated share links.

If access is restricted, please specify who will be able to access the data and under what conditions.

Members of our own research group and colleagues having the required link.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

Please explain per dataset or data type where appropriate.

- No

Where will the data be made available?

If already known, please provide a repository per dataset or data type.

- KU Leuven RDR (Research Data Repository)

When will the data be made available?

- Upon publication of research results

Which data usage licenses are you going to provide?

If none, please explain why.

- Other (specify below)

To be determined later.

Do you intend to add a persistent identifier (PID) to your dataset(s), e.g. a DOI or accession number? If already available, please provide it here.

- No

What are the expected costs for data sharing? How will these costs be covered?

N/A

Responsibilities

Who will manage data documentation and metadata during the research project?

PI: Yann Tristant
PhD researcher: Elisabeth Van Caelenberge

Who will manage data storage and backup during the research project?

PI: Yann Tristant
PhD researcher: Elisabeth Van Caelenberge

Who will manage data preservation and sharing?

PI: Yann Tristant
PhD researcher: Elisabeth Van Caelenberge

Who will update and implement this DMP?

PI: Yann Tristant
PhD researcher: Elisabeth Van Caelenberge