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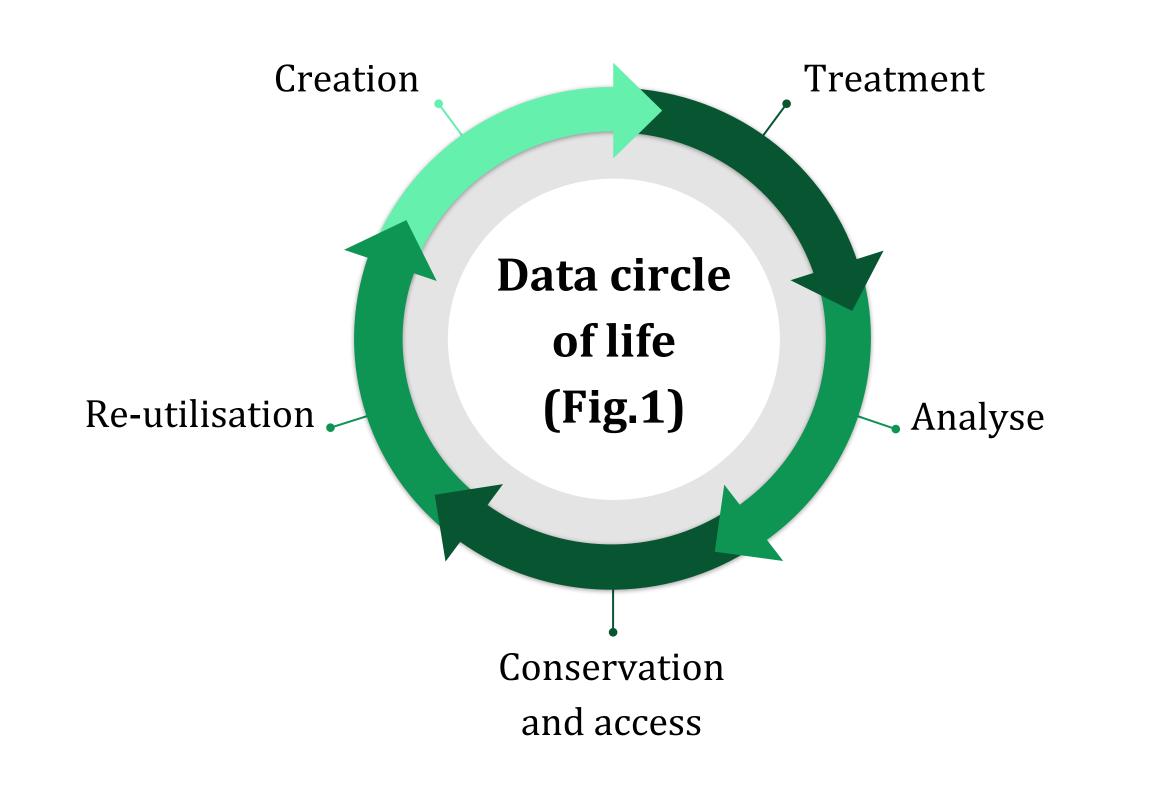
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# Archeology research databases: how are the user communities articulated ?

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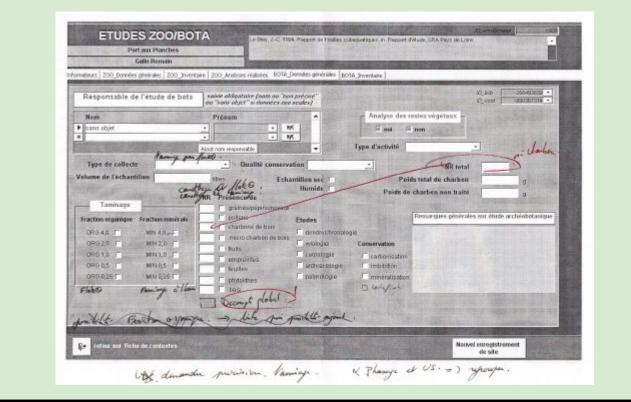
#### **Context and objectives**

As open science grows, the management of research data is not standardized. The archaeological community tends to take over more and more the relational databases and is now collecting natively digital data. Using the methods of socio-anthropology, the purpose of this study is to understand the obstacles to the sharing of scientific information in the use of databases among researchers and with archeologists. For this purpose, the structuring of research communities is analyzed at different levels, individual, collaborative and institutional, in terms of disciplines and professionals, designer and user. These interactions generate friction (Vinck, 2009), translated into negotiations, thus allowing the production of new knowledge.

# **Fields and Methods**

The ethnographic study focuses on the design of four database projects on ancient materials (Fig. 2).

Fig. 3: A screenshot of a database interface, printed and corrected



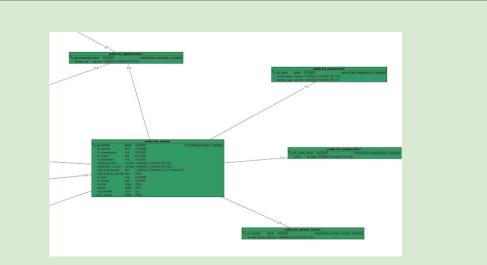


Fig. 2: Schéma logique de la base de données « Kharman»

## Interviews and observations are conducted in the

# **Research questions**

How does the database object articulate the different communities? What are the nature and the consequences of the frictions thus created?

How the representions around the object are in conflict? About what and how are the actors negociating? Is the production of knowledge thanks to the database effective?

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different communities, and grapho-numeric objects (Fig. 3), understood as intermediate objects, are also collected.

# Structuring of communities on the *chaîne opératoire* of databases

#### The data, contained Data volume, origin discipline, scale of **Utilisation - Incrementation** data collection and structured **Re-utilisation Emergence of need** Enlarged community structured **Database modelisation**, Number of administrators, original Individual / in its practice Assembly and 2 development or not, resumption or not of software development disciplinary / Restricted communities technical maintenance the structure Work groups institutional issues Community unchanged Number of users, diversity of their location, actions taken (visualization or 3 Scope / dissemination incrementation), software accessibility, 0 **n+1** disciplinary diversity Persistence over time: active life or ghost Lifetime 4 -n n n life? Context of creation and evolution **Contact with the experts** Test Interdisciplinary gathering Minors development Type of financing 5 Financing methods for the needs of the project User communities Actors contract invested in the project

#### Results

At this point, we found that interdisciplinary collaborations were less important after the creation of the database. If the database delimits the action of its users, the sharing of data depends on individual wishes. We observed that the dialogue between engineers and researchers is considered a key element and that the transmission of skills is partial.

ANCIENT MATERIALS

## **Discussion and conclusion**

Characterization of the databases

There is no simple reproducibility when creating a search database. It is therefore difficult to predict its acceptability. Financing remains, however, the crucial point for ensuring the sustainability and development of a database. The design process is still not yet recognized fully as an scientific activity.





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Bibliography

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