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## **DEVELOPMENTS TOWARDS FAIR AND LOUD INSTRUMENTAL DATA REPOSITORIES IN OTHER DISCIPLINES**

Thomas Rose<sup>1,2,3</sup>

<sup>1</sup> *Department of Archaeology, Ben-Gurion University of the Negev, Be'er Sheva, Israel*

<sup>2</sup> *Dipartimento di Scienze dell'Antichità, Sapienza - Università di Roma, Rome, Italy*

<sup>3</sup> *Forschungsbereich Archäometallurgie, Leibniz-Forschungsmuseum für Georessourcen/Deutsches Bergbau-Museum Bochum, Bochum, Germany*

Isotope data, like most other instrumental data, are used in an interdisciplinary setting. Sometimes the analytical methods are borrowed from other disciplines, sometimes the same type of data is also used in multiple disciplines or the data are interpreted using concepts from neighbouring fields. Furthermore, data from other disciplines are used by archaeologists and vice versa other disciplines used data obtained from archaeological material. More often than not a lot of time is still consumed to compile data from the literature and other sources, checking it and enriching it with the necessary metadata. Easy access to high quality data is however key in modern research. Research data should be FAIR and LOUD, i. e. findable, accessible, interoperable, reusable, and they should be linked open usable data. This means that they are easily accessible in the internet (e. g. in repositories) in open format under open licenses with rich metadata, that they are linked to other databases in their metadata (e. g. for geographical information about sampling locations), and that other databases can easily access them. Great efforts were spent in the last years to develop suitable infrastructures for research data. Because of the extremely interdisciplinary character of the archaeological sciences, these developments and their huge potentials must not be ignored. Moreover, archaeologists should aim to contribute and shape the data infrastructures for instrumental data in neighbouring fields in a way that also meet their needs. There is no reason to build up parallel structures when archaeology-specific parts can be added to existing data pools.

This presentation provides some insights into current developments in other disciplines. Due to the background of the presenter mostly drawn the geosciences, some initiatives and projects that deal with instrumental data will be presented and how archaeologists could and sometimes already are participating in them.

### **Keywords**

research data infrastructures, FAIR, linked open data

### **Note/comment**