The Alan Turing Institute







Data citation for the Humanities and Social Sciences: a special case?

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Journal of Open
Humanities Data



Open Science and Open Knowledge

- Our common goal is **Open Science**, meaning we promote openness, integrity, and reproducibility in research;
- and the results to be treated as **Open Knowledge**; knowledge that is free to use, reuse, and redistribute without legal, social or technological restriction
- The **FAIR principles** help us with both
 - Findability, Accessibility, Interoperability, Reusability
- We (researchers, librarians etc.) like it, public funders like and require it







Type of action & funding:

Research and Innovation action

(INFRAEOSC-04-2018)

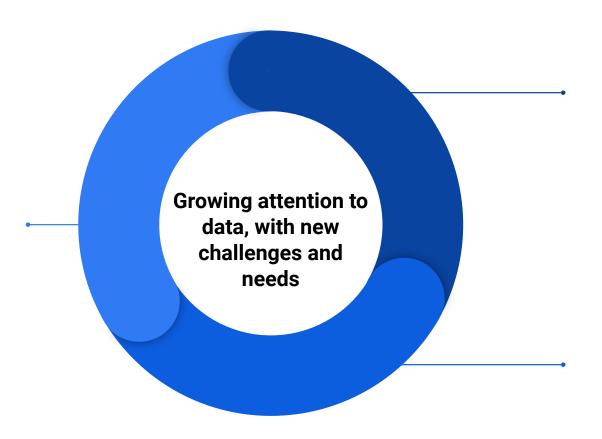


Objectives:

- creating the social sciences and humanities (SSH) part of European Open Science Cloud (EOSC)
- maximising re-use through Open Science and FAIR principles (standards, common catalogue, access control, semantic techniques, training)
- interconnecting existing and new infrastructures (clustered cloud infrastructure)
- establishing appropriate governance model for SSH-EOSC

Specificities of SSH

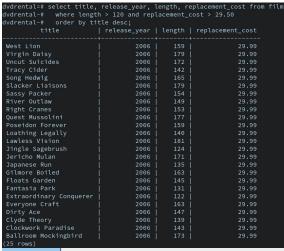
New types of digitized and born-digital data, and very diverse types of data, including cultural heritage



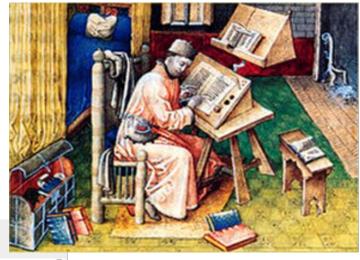
Growing adoption of data-intensive methods

Increased number of data professionals and stewards in libraries

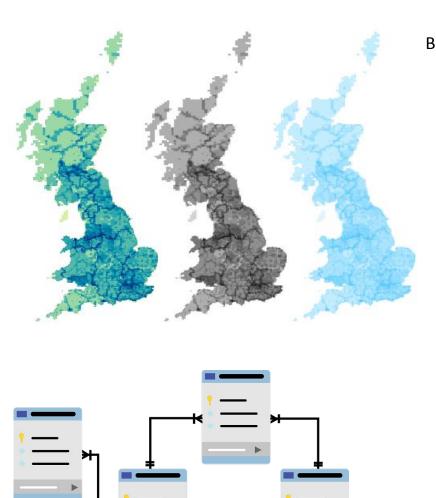
A variety of data types

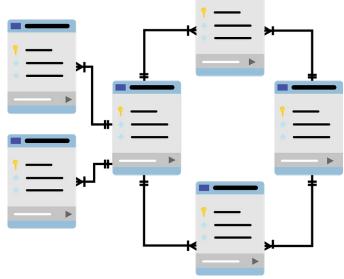












Data traditions and data practices

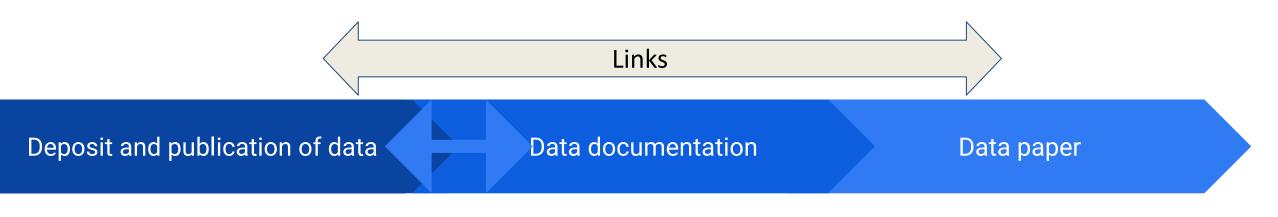
Variety

Different traditions for quantitative/computational methods

Focus

Historically, on publications (book) rather than data

From data to data papers



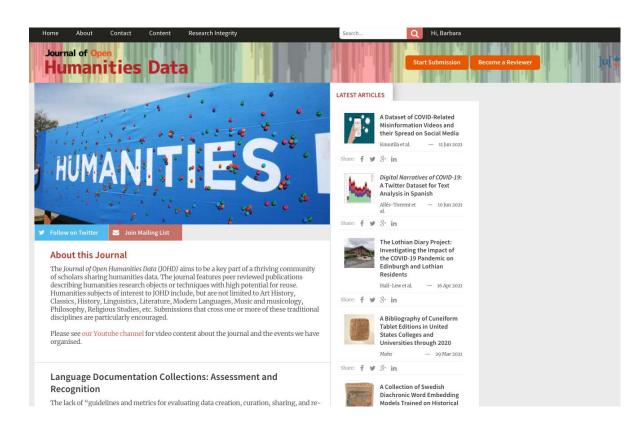
Typically in open repositories assigning DOI

+intellectual organisation

Peer-reviewed publications describing datasets and crediting their creators

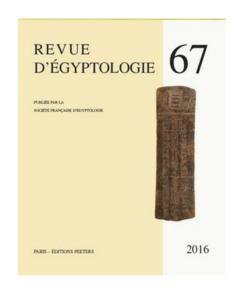
The Journal of Open Humanities Data

- •Launched in 2015; open access and peer-reviewed
- •Vision: be a key part of a thriving community of scholars sharing humanities data
- •Fastest growing data journal for humanities research
- •25 articles published so far (6 in 2021)
- Two publication types
- •Short data papers (1000 words): descriptions of datasets with high reuse potential
- •Full-length research papers (3000-5000 words): discussion of methods, challenges, and limitations in the creation, collection, management of humanities data



Data citation in SSH

- The notion of "publishing data" is relatively new
- Data until a recent period was not really "noble" ... the focus was more on the "final product" (e.g. an article or a book)
- Very diverse and no specific common approach to data citation A lot of initiatives ... so far no real standard, but more "communities of practices" (See SSHOC deliverable "Inventory of SSH citation practices" https://doi.org/10.5281/zenodo.4436736)



- -> In order to cite data, you need **infrastructures** to publish them in a proper (FAIR) way but you also must develop mechanism(s) to cite SSH data:
 - Build stronger links between data and publication
- Facilitate and develop a "culture of data publication/citation" etc.

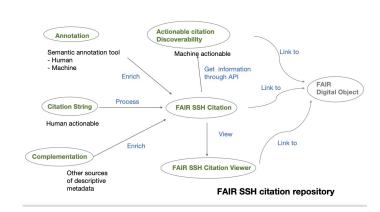


One goal of SSHOC is to address the problems of the current data landscape with its disciplinary silos

SSHOC Project and Data citation

- Recommendations based on "Force11 Citation Principles" adapted to SSH specificities
- Make citations "actionable" as a classic citation isn't machine actionable

- -> Proposition to create a prototype of "FAIR SSH Citation Infrastructure"
 - Process existing citations or create new ones
- Enrich them automatically (other sources) and manually (annotations)
- Standardized citations
- Publish citations into the "Citation Infrastructure" to make them actionable



The future for data publication and citation

Although the potential for data creation, processing and (re)sharing have increased enormously

- Data citation practices still mainly based on traditional publication model ie.
 paper citing paper citing paper
- More complex collaborative and dynamic workflows are possible
- and also needed for using distributed and dynamic data sources e.g. social media and virtual collections of heterogeneous and distributed data
- Key is proper data identification, description and provenance tracking during the whole data life-cycle

Libraries in the centre?

- Increased need for Openness and Sharing of data and information at all phases of the SSH DLC
- More data and new types of data
 - how do we cite millions of data points?
 - how do we cite dynamic data e.g. social media
- Are the current practices wrt data publication and citation still valid?
- Libraries may ask if they can go far beyond caring only for the end-result (papers & data),
- they are already involved in
 - storing project result data-sets for reproducibility
 - training and facilitating researchers wrt Open Science and Open Knowledge and FAIR principles
 - Providing catalogues and meta-science information
- However the physical and conceptual distance between Libraries and research labs poses limitations

