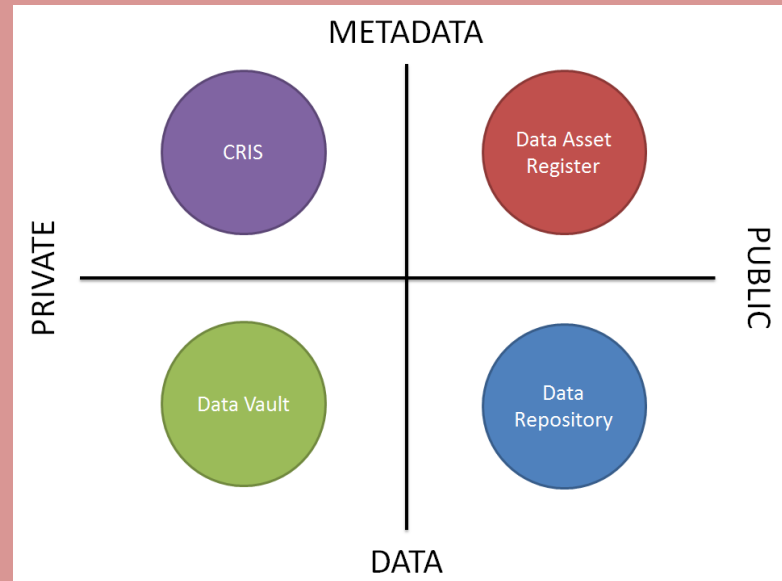# Data Curation Systems Development: Evolving thoughts
The University of Edinburgh

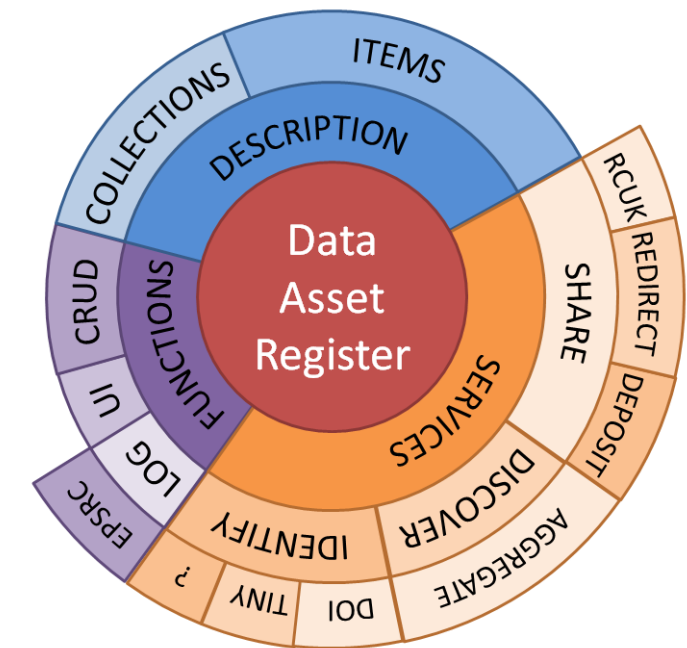## 'The Four Quadrants of Research Data Curation Systems'

Classifying the different curation systems involved in recording, describing, storing, and sharing research data.

Issues: Interoperability, advocacy, requirements, similarities, differences, preservation, authority, trust.
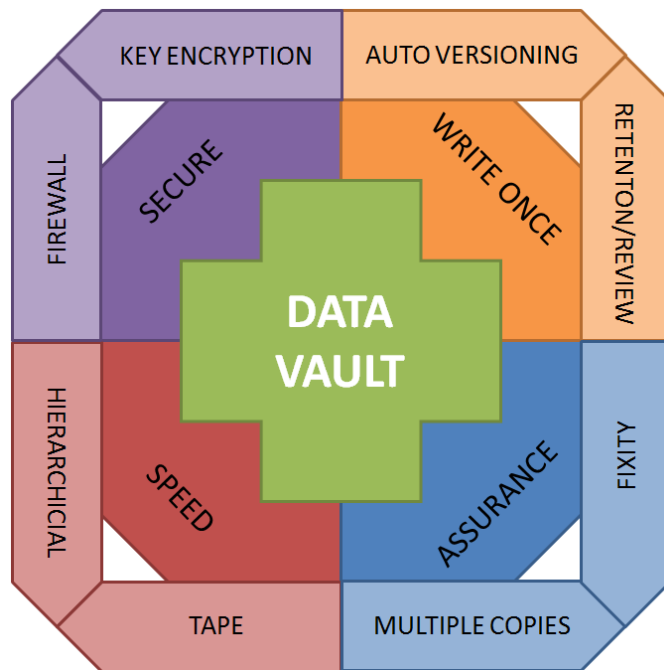

Data Asset Register

- Describe data items and collections (held internally or externally)
- Functions: Create / Read / Update / Delete, Log actions, User Interface
- Services: Value added services to aid sharing, discovery, and identification

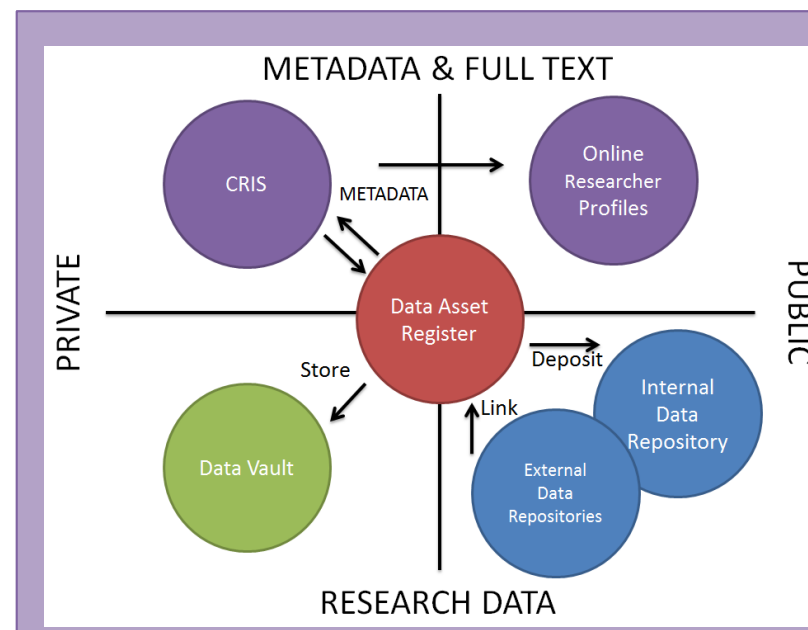**http://dx.doi.org/10.6084/m9.figshare.902835**

Data Vault

- Provide secure storage
- Long term assurance and preservation requirements
- Consider speed issues: is high speed required (expensive)?
- Write once feature with automatic versioning to protect data

In practice...

How might this be delivered in practice?

Issues: Desire to minimize user interfaces, where is the master copy held, challenges of integration, incentivizing sharing, no duplication of effort by users, transferring data between active Data Store and Data Vault or DataShare (open repository).

THE UNIVERSITY of EDINBURGH

Stuart Lewis, John Scally, Kerry Miller, Robin Rice, Tony Weir, Cuna Ekmekcioglu
http://datablog.is.ed.ac.uk/   http://libraryblogs.is.ed.ac.uk/   stuart.lewis@ed.ac.uk