



THE OHIO STATE UNIVERSITY

UNIVERSITY LIBRARIES

Archiving and sharing

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Best Practices

- Know what data you have
- Keep relevant metadata
- Have proper storage, backup, security
- Observe privacy and ethics principles
- Know your policies and legal obligations
- **Plan for access and sharing**
- **Properly archive or preserve data**



Glossary

Research Data: “Units of information observed, collected, or created in the course of research”

Erway, Ricky. 2013. Starting the Conversation: University-wide Research Data Management Policy. Dublin, Ohio: OCLC Research. <http://www.oclc.org/content/dam/research/publications/library/2013/2013-08.pdf>.

Collaborating: Sharing materials within a research group on a limited basis

Sharing: providing access to materials publicly or semi-publicly (i.e. restricted, but with a clear request process)

Archiving: Long-term (greater than 5 years) preservation, often with public or semi-public sharing



Sharing



Why?

The Value and Impact of Data Sharing and Curation

A synthesis of three recent studies of UK research
data centres

Beagrie, N. and Houghton J.W. (2014) *The Value and Impact of Data Sharing and Curation: A synthesis of three recent studies of UK research data centres*, Jisc. PDF (24 pages)



Getting Credit



Sharing increases citation rates



“Authors published most papers using their own datasets within two years ... whereas data reuse papers ... continued to accumulate for at least six years.”

Piwowar and Vision (2013), Data reuse and the open data citation advantage. PeerJ 1:e175; DOI 10.7717/peerj.175

Piwowar HA, Day RS, Fridsma DB (2007) Sharing Detailed Research Data Is Associated with Increased Citation Rate. PLoS ONE 2(3): e308.
doi:10.1371/journal.pone.0000308



Building a Culture of Data Citation





When NOT to share

- FERPA (Family Educational Rights and Privacy Act)
- HIPAA (Health Insurance Portability and Accountability Act)
- Export Control Laws
- IRB (Institutional Review Board)
- PII (personally identifiable information)
- Patents or any other contractual agreement (*including consent statements!*)



Limited sharing

- **Data Transfer/Use Agreement**
- - Restrict to researchers only
- - Some repositories facilitate
- - Researchers that are moving on;
Legal affairs can provide these



Protecting Human Subjects

IRB

- Consent

Confidentiality

- De-identification
 - Removal
 - Restricting ranges
 - Collapse/combine variables
 - Sample
 - Swapping
 - Adding variation



Archiving



Archiving/preservation (Long-term)

Repositories

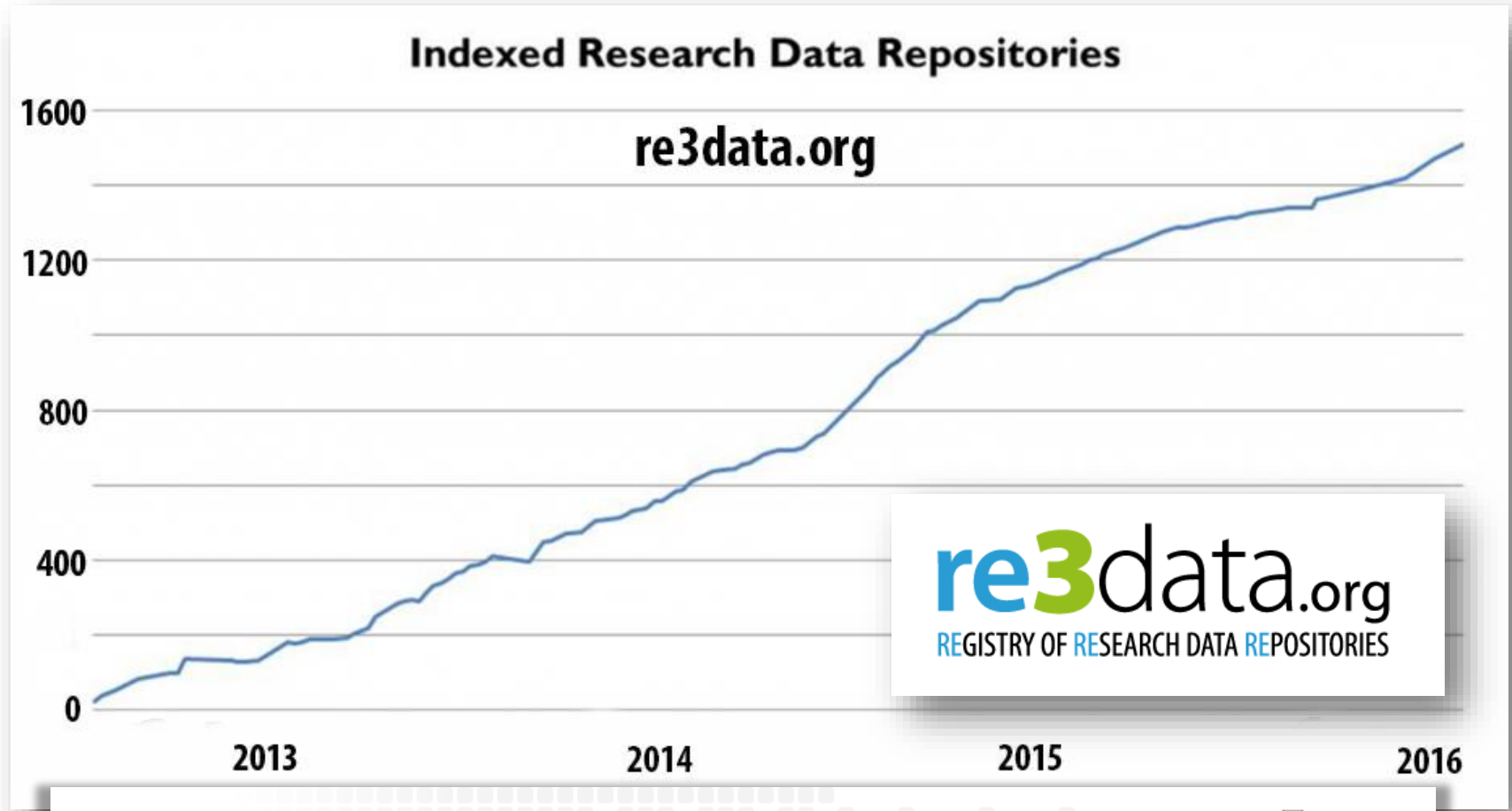
- Check-sums, other validity systems
- Non-proprietary files or a copy proprietary software
- Clear policy
- Migration every 3-5 years
- Unique identifier

Dark Archives

- No public access
- Patent protection
- Identifiable data



Access/Sharing





Evaluating Research Data Repositories

- Is the repository reputable?
- Will it take the data you want to deposit?
- What are the fees (if any)?
- Will it be safe in legal terms?
- Will the repository sustain the data value?
- Will it support analysis and track data usage?

Whyte, A. (2015). 'Where to keep research data: DCC checklist for evaluating data repositories' v.1.1 Edinburgh: Digital Curation Centre. Available online: www.dcc.ac.uk/resources/how-guides



re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Information	Access	Licenses	Persistent Identifier	Certificates and Standards	Policy	Reviewed



Inter-university Consortium for Political and Social Research

ICPSR data archive



Subject(s)

Life Sciences

Humanities and Social Sciences

Social and Behavioural Sciences

Content type(s)

Archived data

Structured text

Plain text

Scientific and statistical data formats

Structured graphics

Standard office documents

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ICPSR

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