FOSTER

Course for Doctoral Students

RESEARCH DATA MANAGEMENT AND OPEN DATA

23th July 2015, Social Science Data Arhives,
Faculty of Social Sciences, University of Ljubljana

ECPR Summer School 2015

RESEARCH DATA MANAGEMENT PLANNING

Laurence Horton, Library, London School of Economics and Political Science

Contents

1. What kinds or archives/repositories are there?
2. What to look for in a reputable archive/repository
   - Re3data
   - Data Seal of Approval
   - DOIs
3. What do archives/repositories want from researchers?
4. Licenses: Defining how your data can be used
5. Depositing data in an archive
   - UK Data Service ReShare
   - ORCiD

Types

Project

Multidisciplinary

Zenodo
Figshare

European
Social Survey

Disciplinary

Institutional

LSE
Research
Online

UK Data Archive
Slovenian Social
Science Data (ADP)

FOSTER

Selecting a data repository

- Global registry of repositories across all disciplines

Selecting a data repository: subject

Selecting a data repository: content type

Selecting a data repository: country/region

Selecting a data repository

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Top 5 countries for number of research data repositories

5	4	3	2	1

FOSTER

Selecting a data repository

re3data.org
REGISTRY OF RESEARCH DATA REPOSITORIES

Almost all have some form of Open Access

Small percentage have a certification (Data Seal of Approval)

doi | urn | ark | hdl | urn | pi

Not many offer Permanent Identifiers

FOSTER

Selecting a data repository

- 88 (7%) of 1260 repositories in re3data have:

 + + one of
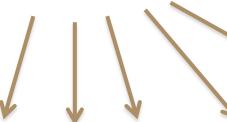
- 50 come from Humanities and Social Sciences

Data Seal of Approval

- Recognition of being a:
  - trustworthy source of data
  - Long-term preservation
- Self-assessment based on:

  - Criteria: 1 2 3 4 5

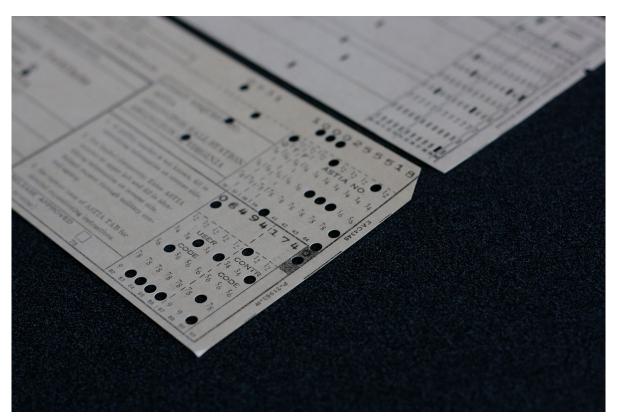 Guidelines: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FOSTER

Data Seal of Approval criteria
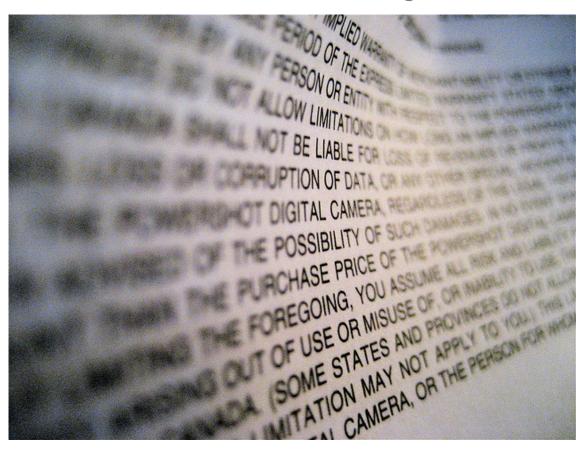
Data can be found on the Internet

FOSTER

Data Seal of Approval criteria

The data are accessible (clear rights and licences)

FOSTER

Data Seal of Approval criteria

The data are in a usable format

FOSTER

The data are reliable

Data Seal of Approval criteria

The data are identified in a unique and persistent way so they can be cited

FOSTER

DOI: Digital Object Identifier

Permanent identifiers

| doi | urn | ark | hdl | urn | pi |

doi ®

- A type of identifier based on a fixed and unique reference to an object
- Allows data to be cited
- Not a symbol of data quality
- Obtained from publisher/archive

FOSTER

Criteria for depositing research data

Everything   or   Nothing

FOSTER

Criteria for deposit: Does the data underpin published research findings?

Criteria for deposit: Are people waiting for the data?

FOSTER

Criteria for deposit: Uniqueness

Criteria for deposit: Can data be re-used by others?

FOSTER

Criteria for deposit: Context

Licensing data for re-use

Think about how you want others to use it.

License: Clarify Intellectual Property ownership

- You can only archive data you own (or if you have permission)

- If you create it, check you own it
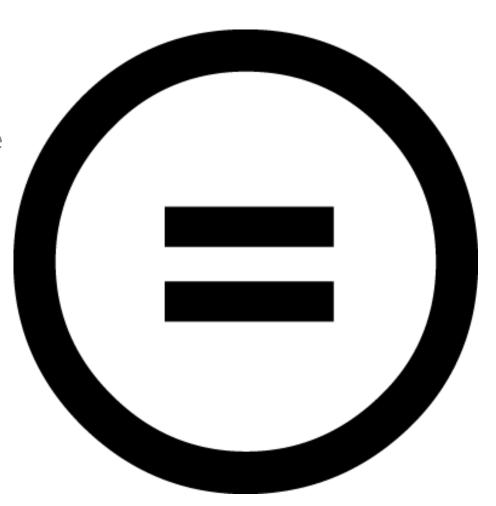
License: **Clarify funder expectations**

Funder expectations: data to be as open as possible

FOSTER

License: Do you want to allow adaptation and modification?

- Is format and design intrinsic to the work?
- Does the work need to be used in its entirety?

FOSTER

License: Do you want to allow commercial re-use

- Is there a contractual reason for preventing commercial use?
- Will you or your work benefit from or be harmed by commercial usage

FOSTER

Choosing a Creative Commons Licence

CC Licence	Require attribution	Allow sharing	Commercial use	Authorise modification
CC ZERO — Public domain	No	Yes	Yes	Yes
CC BY — Attribution	Yes	Yes	Yes	Yes
CC BY SA — Attribution-Share Alike	Yes	Yes	Yes	Yes
CC BY ND — Attribution-No Derivatives	Yes	Yes	Yes	No
CC BY NC — Attribution-Non Commercial	Yes	Sometimes	No	Yes
CC BY NC SA — Attribution-Non Commercial-Share Alike	Yes	Sometimes	No	Yes
CC BY NC ND — Attribution-Non Commercial-No Derivatives	Yes	Sometimes	No	No

http://www.lse.ac.uk/library/usingTheLibrary/academicSupport/RDM/sharing/licensingDataReuse.aspx

Criteria for deposit: further reading

DCC (2014) 'Five steps to decide what data to keep: a checklist for appraising research data v.1 Edinburgh: Digital Curation Centre

UK Data Service (2014) Collections Development Selection and Appraisal Criteria

CD234-Collections-Appraisal_01_00w.docx

A Digital Curation Centre
'working level' guide

D|C|C

DataONE   Jisc

Five steps to decide what data to keep

DCC Checklist for Appraising Research Data

Please cite as: DCC (2014) 'Five steps to decide what data to keep: a checklist for appraising research data v.1 Edinburgh: Digital Curation Centre. Available online: www.dcc.ac.uk/resources/how-guides

Criteria relating to potential usability and accessibility:			
Able to provide access to the data in ways that make it useful/usable			
Data that have been prepared for access with definable conditions within the access spectrum			
Legal and ethical agreements and protocols used do not prohibit sharing and/or re-use, e.g. consent to share/reuse data, IPR, copyright, DPA			
Data has adequate supporting documentation/ contextual information			
Data are produced in a suitable format for reuse (e.g. no specialised software needed or such software made available) or can be converted to a UK Data Service delivery platform			
The cost of conversion to a UK Data Service delivery platform is not prohibitive, or costs can be recouped			
Data are more openly accessible or where a national licensing model will offer considerable savings			
Third party host: is reliable and reputable			
Third party host: is the data likely to change/be updated over time?			
Third party host: suitable preservation processes are used to manage and curate data			
Third party host: a persistent identifier can be made available (robust access)			

http://ukdataservice.ac.uk/media/455175/cd234-collections-appraisal.pdf

http://www.dcc.ac.uk/resources/how-guides/five-steps-decide-what-data-keep

FOSTER

Where can you put data?

- UK Data Service ReShare
- GESIS – Leibniz Institute for the Social Sciences datorium
- ADP

- Zenodo
- Figshare
- The Dataverse Project

FOSTER

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Edit collection: Data Collection #851566

Terms and conditions → Award details → People → Data collection → Upload → Deposit

To deposit a data collection, you must accept the ReShare Terms and Conditions.

- I confirm that I am the owner of the copyright and associated intellectual property rights in the whole Data Collection or am otherwise lawfully entitled to grant this licence on behalf of each and every owner;
- I grant a non-exclusive, royalty-free licence to the UK Data Archive (a department of the University of Essex and not a separate legal entity) of Wivenhoe Park, Colchester, CO4 3SQ (the "University") to hold, make copies of, and disseminate copies of the Data collection, in accordance with the access conditions I will specify when uploading data files: open data accessible to users without registration; or safeguarded data accessible to users registered with the data services provided by the UK Data Archive.

* I agree to the ReShare data deposit terms and conditions

☑

Save for later   Cancel   Next >

FOSTER

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

ORCiD

ORCiD

- A unique identifier for individuals (ORCiD iD)
- You can obtain one yourself or maybe through your institution
- Open API code that allows its information to be exported
- Open source, not-for-profit organization
- Increasingly adopted by funders and organizations for capturing publication information

FOSTER

ORCiD iD

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Temporal coverage

Provide a start and end data of either the actual data collection period, or else the time period that is covered by the data collection.

Collection period:　　　　Start and end date for the data collection period.

Date from:	Date to:
2014	2014

Temporal coverage:　　　The time period (start and end date) for this data collection, if it is different from the data collection period, e.g. for data representing a historical period.

From	To
2009	2014

* Geographical coverage

Provide information about the geographical area where your data were collected.

Geographical area:　The name(s) of the location(s) or area(s) where your data were collected.
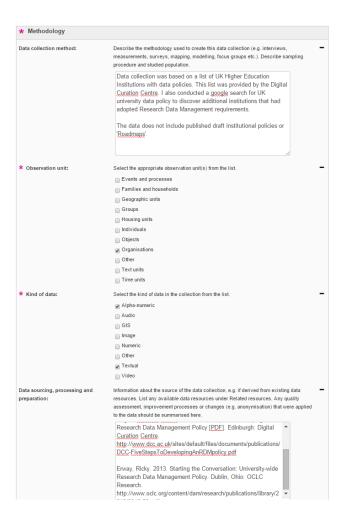
United Kingdom

Bounding area:　Define the geographical area covered by your data collection by four latitude/longitude coordinates in decimal degrees, as the smallest rectangular shape that totally encloses all of the data.
Example: 60.85, 2.69, 49.84, -9.23 (bounding area for UK)

North latitude	East longitude	South latitude	West longitude

* Country:　The country or countries where the data were collected. When you start typing text, a controlled list of countries to select from will appear.

United Kingdom

FOSTER

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Edit collection: UK Higher Education Institution Research Data Management Policies, 2009-2014

Terms and conditions → Award details → People → Data collection → Upload → Deposit

Add a new file or zip bundle

Upload data files and documentation for your data collection. Click the Choose File button below to select a file; and the Upload button to upload it to the repository. Large files (>2GB) make take a long time to upload, depending on your browser speed. When uploading many files (>10), please upload them in logically grouped zip bundles instead, e.g. grouping by content (data, documentation), by file format (text, images, databases) or by folder structure.

Make sure data files contain no disclosive personal information.

Include documentation on data collection methods and context to inform future reuse of the data.

Make sure file names contain no spaces.

File	From URL

Choose File   No file chosen

< Previous   Save for later   Cancel   Next >

FOSTER

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

Deposit item: UK Higher Education Institution Research Data Management Policies, 2009-2014

Terms and conditions → Award details → People → Data collection → Upload → Deposit

By submitting this data collection I confirm that:

- I understand and agree to the conditions under which data users will have access to my data collection (link to legal info)
- data files have been anonymised where needed and contain no disclosive or personal information
- sufficient documentation is uploaded to make this data collection usable for further research
- I understand that a submitted Data Collection will not be visible on the live repository until the UK Data Service will have reviewed it for disclosure risk, copyright breaches, validity of file formats and documentation (all numerical data files and at least a 10% random sample of textual data files will be reviewed), communicated any concerns to me, and approved it for publication.

After depositing this data collection you can no longer edit it or upload more data files.

Deposit collection now   Save for later

FOSTER

Depositing data: UK Data Service ReShare
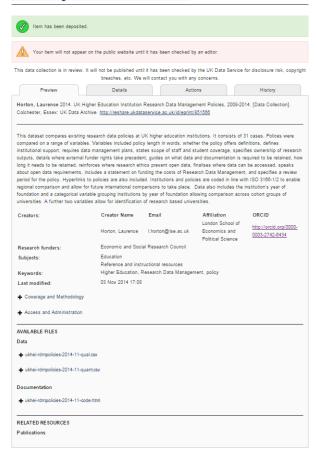
Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

View data collection: UK Higher Education Institution Research Data Management Policies, 2009-2014

✓ Item has been deposited.

⚠ Your item will not appear on the public website until it has been checked by an editor.

This data collection is in review. It will not be published until it has been checked by the UK Data Service for disclosure risk, copyright breaches, etc. We will contact you with any concerns.

Preview	Details	Actions	History

New version — Use this to submit a new version of this data collection. It will create an exact copy which you can then make changes to. This data collection and the new version will be linked.

Use as template — Create a new data collection using this collection as a template. There will be no connection between the two collections.

Return to work area — Return to user work area, allowing the user to make changes to it and re-deposit it.

Request deletion — Request that this data collection is removed from the repository.

Export

ASCII Citation ▼ Export

FOSTER

Depositing data: UK Data Service ReShare

Depositing data: UK Data Service ReShare

UK Higher Education Institution Research Data Management Policies, 2009-2014

Download | DDI XML

TITLE DETAILS

SN:	851566
Title:	UK Higher Education Institution Research Data Management Policies, 2009-2014
Persistent identifier:	10.5255/UKDA-SN-851566
Depositor:	Laurence Horton, London School of Economics and Political Science
Principal investigator(s):	Laurence Horton, London School of Economics and Political Science
Sponsor(s):	Economic and Social Research Council
Grant number:	Unknown

SUBJECT CATEGORIES

Education
Reference and instructional resources

FOSTER

Lessons

- There are different types of archives and repositories
- Re3data can help you find a reputable, suitable one
- Data Seal of Approval is an example of a trustworthy archive
- Archives want data with reuse potential: good quality data with meaningful contextual information
- Pick a licence that's appropriate to the data
- Self-archiving platforms exist that allow you to archive your data
- Get an ORCiD

FOSTER

Images

5: Logopedia, "Bullseye" http://logos.wikia.com/wiki/Bullseye Content available under CC-BY-SA.

6: By Austinmurphy at en.wikipedia [Public domain], from Wikimedia Commons https://commons.wikimedia.org/wiki/File%3AAssorted_video_tapes.JPG

7: By National_archives_2007_02_03.JPG:Nick Cooper at en.wikipedia derivative work: Harumphy (National_archives_2007_02_03.JPG) [CC BY-SA 2.5 (http://creativecommons.org/licenses/by-sa/2.5)], from Wikimedia Commons https://commons.wikimedia.org/wiki/File%3ANational_Archives_2007_02_03.JPG

12: "Apple3". Licensed under CC BY-SA 3.0 via Wikimedia Commons https://commons.wikimedia.org/wiki/File:Apple3.jpg#/media/File:Apple3.jpg

13: CJ Sorg "Fine Print". Licenced under CC-BY-SA 2.0 https://www.flickr.com/photos/cjsorg/366631413

14: "Remington Rand punched card.mw" by Marcin Wichary - Flickr: Punched cards. Licensed under CC BY 2.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Remington_Rand_punched_card.mw.jpg#/media/File:Remington_Rand_punched_card.mw.jpg

15: "Tacoma-narrows-bridge-collapse". Licensed under Public Domain via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Tacoma-narrows-bridge-collapse.jpg#/media/File:Tacoma-narrows-bridge-collapse.jpg

16: "Individuality" by VaughnSaball - Own work. Licensed under CC BY-SA 3.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Individuality.jpg#/media/File:Individuality.jpg

FOSTER

Images

17: "Box.agr". Licensed under CC BY-SA 3.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Box.agr.jpg#/media/File:Box.agr.jpg

17: Quinn Dombrowski "Attendee lists" licenced under CC BY-SA 2.0 https://www.flickr.com/photos/quinnanya/3183174451

18: BoneDaddy.P7 "There are 2 things missing in this photo" licenced under CC BY-SA 2.0 https://flic.kr/p/5iuQeU

19: "Bus Queue" by Jimmcgovern15 (talk) - I created this work entirely by myself.. Licensed under CC BY-SA 3.0 via Wikipedia - https://en.wikipedia.org/wiki/File:Bus_Queue.jpg#/media/File:Bus_Queue.jpg

20: "Snow Flakes" by Dakota Lynch - Own work. Licensed under CC BY-SA 3.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Snow_Flakes.jpg#/media/File:Snow_Flakes.jpg

21: "Reduce, Re-Use, Recyle, (3032678489)" by Marcus Quigmire from Florida, USA - Reduce, Re-Use, Recyle, Uploaded by Princess Mérida. Licensed under CC BY-SA 2.0 via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Reduce,_Re-Use,_Recyle,_(3032678489).jpg#/media/File:Reduce,_Re-Use,_Recyle,_(3032678489).jpg

22: Paul Downey "Understand context" licensed under CC BY 2.0 https://www.flickr.com/photos/psd/9116635297

23: "SF PERMIT PARKING". Licensed under Public Domain via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:SF_PERMIT_PARKING.svg#/media/File:SF_PERMIT_PARKING.svg

FOSTER

Images

24: "Statute of anne" by British Government - Statute of anne.jpg on the English Wikipedia; original source: The History of Copyright: A Critical Overview With Source Texts in Five Languages. Licensed under Public Domain via Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Statute_of_anne.jpg#/media/File:Statute_of_anne.jpg

25: Aisletwentytwo "Alec - Mr. Money Bags" CC-BY 2.0 https://flic.kr/p/eZmHq7

FOSTER