Research data are the recorded information (regardless of the form or the media) necessary to support or validate a research project’s observations, findings or outputs.

The effective and efficient management of research data is fundamental to high quality research and academic integrity.

"Royal Holloway Research Data Management Policy"
What is research data, anyway?

- Hard sciences
  - Machine data (e.g. telescopes, oscilloscopes, microscopes, geodata…)
  - Lab notebooks
  - Imaging and visualisation
  - Samples
  - Logs
- Medicine
  - Clinical trials
  - Patient history
- Humanities
  - Texts, field notes, diaries, MS, maps, codices, scores
  - Images, recordings
  - Artefacts
- Commerce
  - Accounting data
  - Economic data
- Other
  - Census / demographics
  - Formulae

... and LOTS, LOTS more
What is it?

• ...involves maintaining, preserving and adding value to digital research data throughout its lifecycle.

• The active management of research data reduces threats to their long-term research value and mitigates the risk of digital obsolescence.

http://www.dcc.ac.uk/
Why do it?

- Prevent loss of data (hard drives in a professor’s cupboard, data collected by Masters students, machine data from experiments)
- Prevent duplication
- Improve data security
- Make good on public funding
- Collaborative research, Big Data
- Common sense
- Open Access
  - Improve peer review
  - Support OA publishing
- Enhance altmetrics
- Technology makes it possible
Drivers

1. Verification, reproducibility and transparency of scientific results
2. New scientific discoveries through re-use and integration of datasets
3. Greater social and economic benefits through application of research outputs
Data sharing and re-use requires active data management across the lifecycle

The Research Data Management Lifecycle

URL: http://guides.library.ucsc.edu/datamanagement
Plan, Create, Preserve

1. Plan
2. Create
3. Preserve
What is a Data Management Plan (DMP)?

UK research funders typically ask for:

• A short statement/plan submitted in grant applications

• An outline of what you will create/collect, methods, standards, data management and long-term plans

• **How and why** – justify your decisions and any limits
Create a new plan

Please select from the following drop-downs so we can determine what questions and guidance should be displayed in your plan.

If you aren't responding to specific requirements from a funder or an institution, [select here to write a generic DMP](#) based on the most common themes.

If applying for funding, select your research funder.
Otherwise leave blank.

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Common DMP questions:

• What data will be created (format, types and size) and how?

• How will the data be documented and described?

• How will you manage ethics and Intellectual Property?

• What are the plans for data sharing and access?

• What is the strategy for long-term preservation?
Dropbox for Business
Royal Holloway Figshare Data Archive

- Went live on November 29\textsuperscript{th}, 2017
- Easy to use interface to upload data into archive storage
- Can embargo and create confidential files
- Create versioned DOIs
- Reserve DOIs and create private ones for peer review
Discover research from Royal Holloway, University of London

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  - John Billa
  - 09/11/2017

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  - Nick Hall
  - 09/11/2017

- 16mm Film Editing: Using Filmed Simulation as a Hands-on Approach to TV History
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- Co-Processors for Quantum Devices Workbook
  - Anastasia Kay
  - 02/11/2017
Support

Email: rdm@rhul.ac.uk