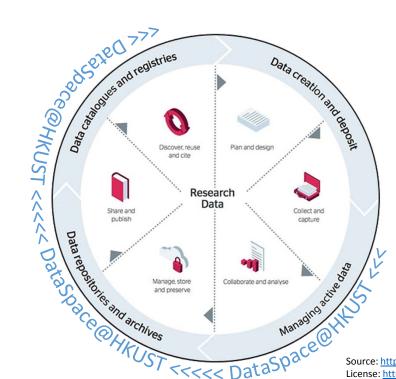
Research Data Management Seminar HKUST Library 13 March 2018



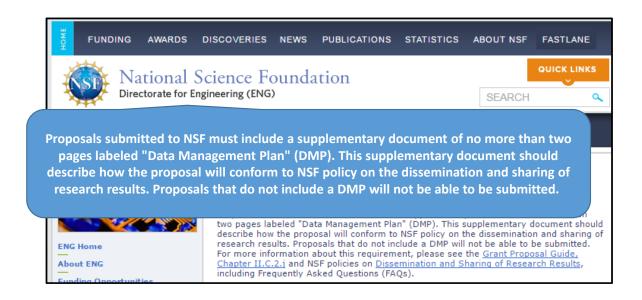
Source: https://www.jisc.ac.uk/guides/research-data-management License: http://creativecommons.org/licenses/by-nc-nd/3.0/

### Introduction and Resources on Data Management

Jacky Leung, Reference Librarian (lbjacky@ust.hk)

Last revised: 13 March 2018

### Funder Requirements



 Research Grants Council, Hong Kong – Explanatory Notes for <u>General Research</u> <u>Fund (GRF)</u>

"One of these principles states that it is "appropriate to use public funds to support the management and sharing of publicly-funded research data". - RCUK Release of completion report, data archive possibilities and public access of publications resulting from research funded by the RGC

PI should assess data archive potential and opportunities for data sharing. Due additional weight will be given to an application where the applicants are willing to make research data available to others.

### Data Management Plan (DMP)

- DMP is a document that describes what data will be collected or generated and how they will be handled during or after the project.
- Some common components in a DMP include:
  - Types of data produced or collected
  - Access, sharing and re-use policies
  - Confidentiality and intellectual property
- Some software tools can help on compiling DMP
  - <u>DMPTool</u> (by University of California)
  - <u>DMPonline</u> (by UK Digital Curation Centre)





### Data Publishing

- Many journal publishers now require article authors to provide well-documented data used in the research and make these data easily available to other researchers.
- Examples of major publishers and their policies:
  - Elsevier Research Data
    - > a platform to support researchers to store, share, discover and use data)
  - Nature Availability of data and material and methods
    - >... authors are required to make materials, data, code, and associated protocols promptly available to readers without undue qualifications
  - Taylor & Francis Enhancing your article with supplemental material
    - ➤ a number of initiatives to ensure supplemental material is effectively included, or linked to, within the article abstract.

### Data Repositories & Discovery Tools

#### Data Directories

- re3data A global registry of research data repositories from different academic disciplines.
- Directory of Open Access Repositories (OpenDOAR) A directory of institutional and subject-based repositories in the world.
- ➤ <u>Selected Discipline-Based Data Archives</u> from University of Minnesota.
- ➤ <u>Selected Subject-Specific Data Repositories</u> from Stanford University Libraries.

### Specialist repositories

- GenBank, NeuroMorpho.org, HepData, EarthChem, PubChem, ICPSR (openICPSR), Harvard Dataverse, Protein Databank, etc.
- Institutional (project-based) repositories
  - **▶** DataSpace@HKUST

### **Data Citation**

- Citing data brings the same benefits as citing articles and books because it
  - helps data creators and users find, access, verify and reuse data
  - allows data impact to be tracked
  - gives proper recognition to data producers
- Examples:

Creator (Publication Year): Title. Publisher. Identifier

Irino, T; Tada, R (2009): Chemical and mineral compositions of sediments from ODP Site 127-797. Geological Institute, University of Tokyo. http://dx.doi.org/10.1594/PANGAEA.726855

Creator, Publication Year, "Title", Identifier, Publisher, Version, [Universal Numerical Fingerprint]

Campbell, Cameron Dougall; Lee, James; Dong, Hao, 2015, "Longitudinal Links to Construct the Korean Multi-Generational Panel Dataset – Tansung (KMGPD-TS) from the Tansung Household Registers", <a href="http://dx.doi.org/10.14711/dataset/IVIDZV">http://dx.doi.org/10.14711/dataset/IVIDZV</a>, DataSpace@HKUST, V1 [UNF:6:dSzr9ZfpI4QhmtIZRtXBRg==]

# Data Discovery & Sharing

- Adding DOIs to finalized data sets
  - Makes data publications more acceptable for CVs
  - Creates more recognition for data sharing
  - Provides a means of tracking publications
- Creating your own ORCID iD for publishing
  - ORCID iD is a unique researcher identifier for distinguishing your data/article publications from those of others with similar names
  - You can establish clear ownership of your scholarly output
  - HKUST faculty & RPg students have already registered their ORCID iDs
  - You can use your HKUST login to easily create yours in a few clicks via http://repository.ust.hk/orcid/

# Information on Data Management



http://library.ust.hk/sc/