Would DMPs be helpful to our researchers? Yes and YES!

Mr.Backup
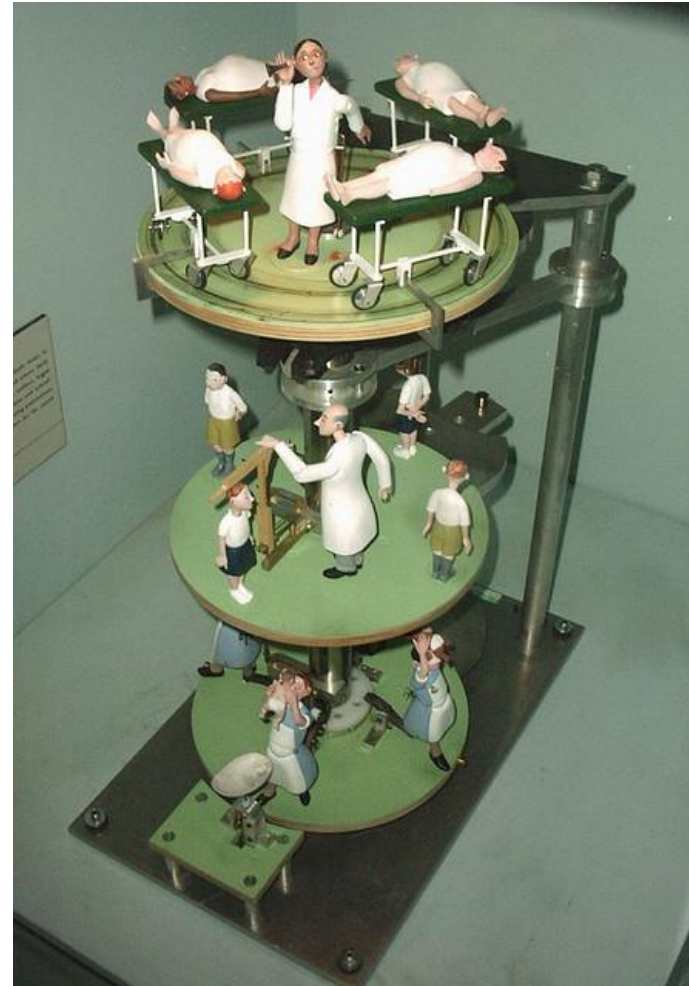
Mr.NoBackup

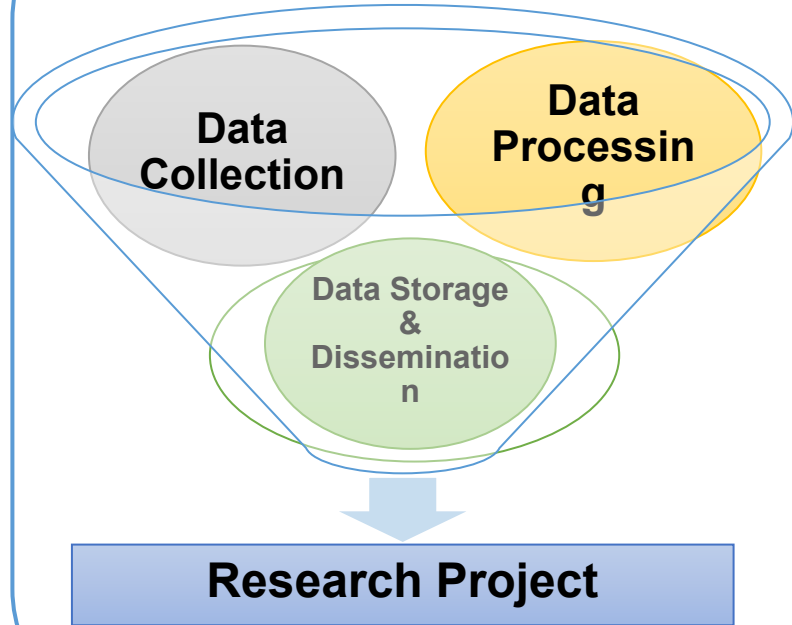Eugene Barsky, UBC, eugene.barsky@ubc.ca

UBC research data pilot(s)

- Collaboration with UBC IT, Office of Research Services and The Centre for Hip Health and Mobility

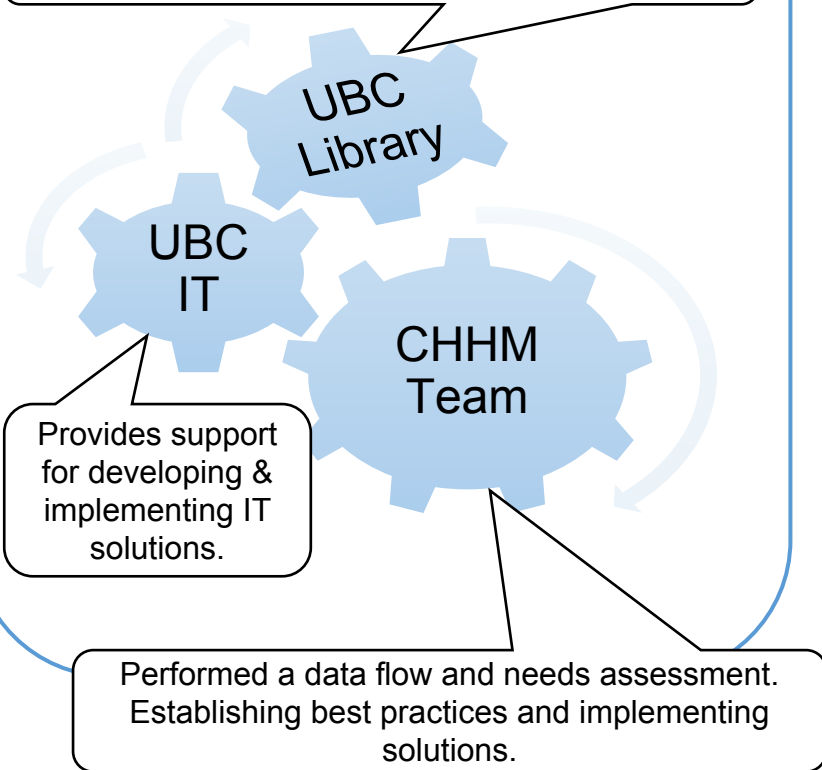- Focus on research data needs for a large multi-disciplinary centre

Image - https://www.flickr.com/photos/arenamontanus/

Research Data Management Project

Data Management Ingredients

Data Collection

Data Processing

Data Storage & Dissemination

Research Project

Project Collaborators

Provides expertise in metadata, data dictionaries, and preservation.

UBC Library

UBC IT

CHHM Team

Provides support for developing & implementing IT solutions.

Performed a data flow and needs assessment. Establishing best practices and implementing solutions.

Data Curation Profiles

- Excellent tool for data needs assessment

- Purdue University Library - http://datacurationprofiles.org/overview

- Takes around 15 hours per project to complete

- Do you think that researchers have this time?

CONSENT
- FILE TYPE
- STORAGE
- SECURITY/SHARING

<PROJECT NAMES>

N PARTICIPANTS/SAMPLES
XY CHARACTERISTICS
IDENTIFIER ABC 12345

PI(s)
KEY PERSONNEL
PROJECT DURATION

DATA COLLECTION

EQUIPMENT 1
- NAME OF EQUIPMENT/ID
- ROOM/LOCATION
- ACTIVITY
- SETTINGS
- OPERATORS
- SECURITY
- USE FREQUENCY/DURATION

OUTCOME 1.1
- TYPE FILES/DOCUMENTS
- NUMBER/SIZE OF FILES
- STORAGE LOCATION
- DESCRIPTION/ORGANIZATION
- SECURITY/BACKUP
- DATA/FILE SHARING

OUTCOME 1.2

EQUIPMENT n

OUTCOME n.1

OUTCOME n.2

OUTCOME n.3

STEP 1.1
- WORKSTATION/LAPTOP/ID
- SOFTWARE USED
- ACTIVITY
- SECURITY/BACKUP
- TEAM MEMBERS INVOLVED

STEP 2.1

STEP n.1

STEP n.2

STEP n.3

OUTCOME 1.1.2

OUTCOME 1.2.1

OUTCOME 1.2.2

OUTCOME n.1

OUTCOME n.2

OUTCOME n.3

STEP 1.3

STEP 1.4

STEP n.4

OUTCOME 1.1.1

OUTCOME 1.x.y

OUTCOME n.x.y

Data Assessment results

- Example of data curation profile - http://goo.gl/Q3QZ8J

- Example of a data stream, including all data formats - http://goo.gl/AwQEnQ

- UBC Assessment tool - http://goo.gl/hXfGBC

Pilot Outcomes

- 25 research team and operations team members interviewed

- 11 research projects assessed in detail

- A manual for performing data curation profile assessment

- Data stream profiles

Lessons learned

- Lengthy questionnaire tool kit approaches <u>not practical</u> in complex multi-project and team research environments.

- Visual and interactive approach is better to assess research data needs

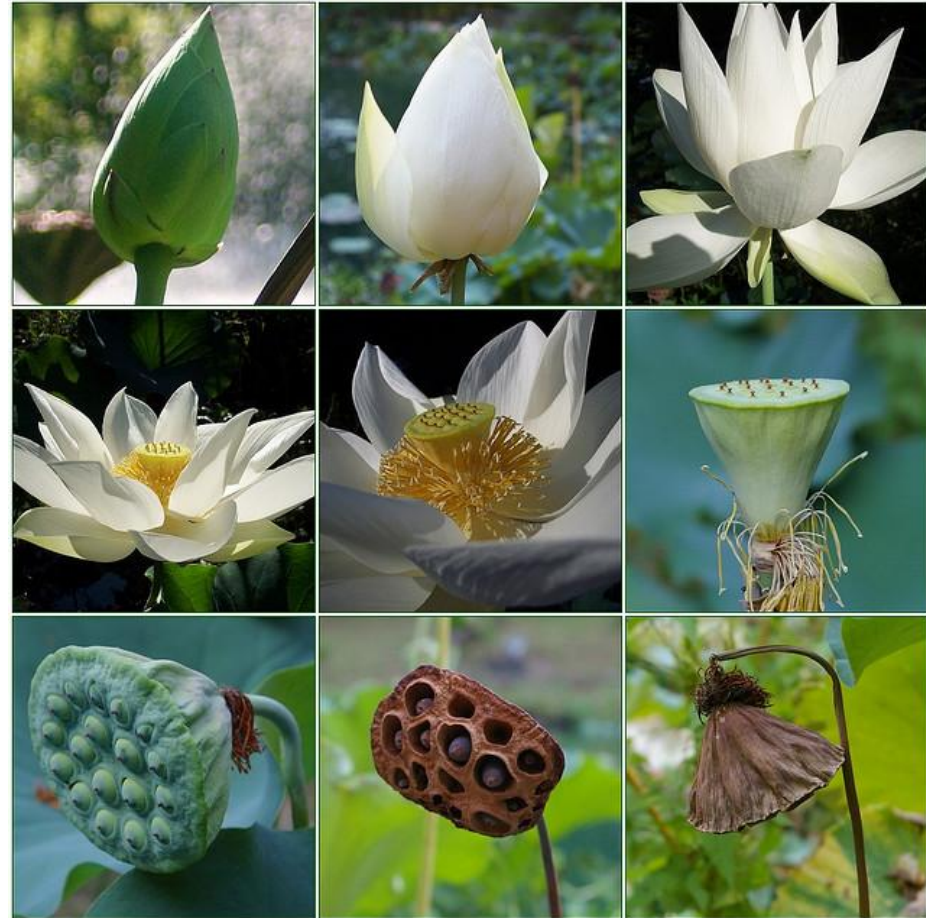Image - https://www.flickr.com/photos/emedia/

Lessons learned

- Challenges: infrastructure, variety of data types media discontinuity, manual workflows, and long-term storage

- Needs: proper network and storage infrastructure, system handling most processing steps from data collection to analysis, preservation and access system

DMP could help:

- With formalizing the lifecycle for research data

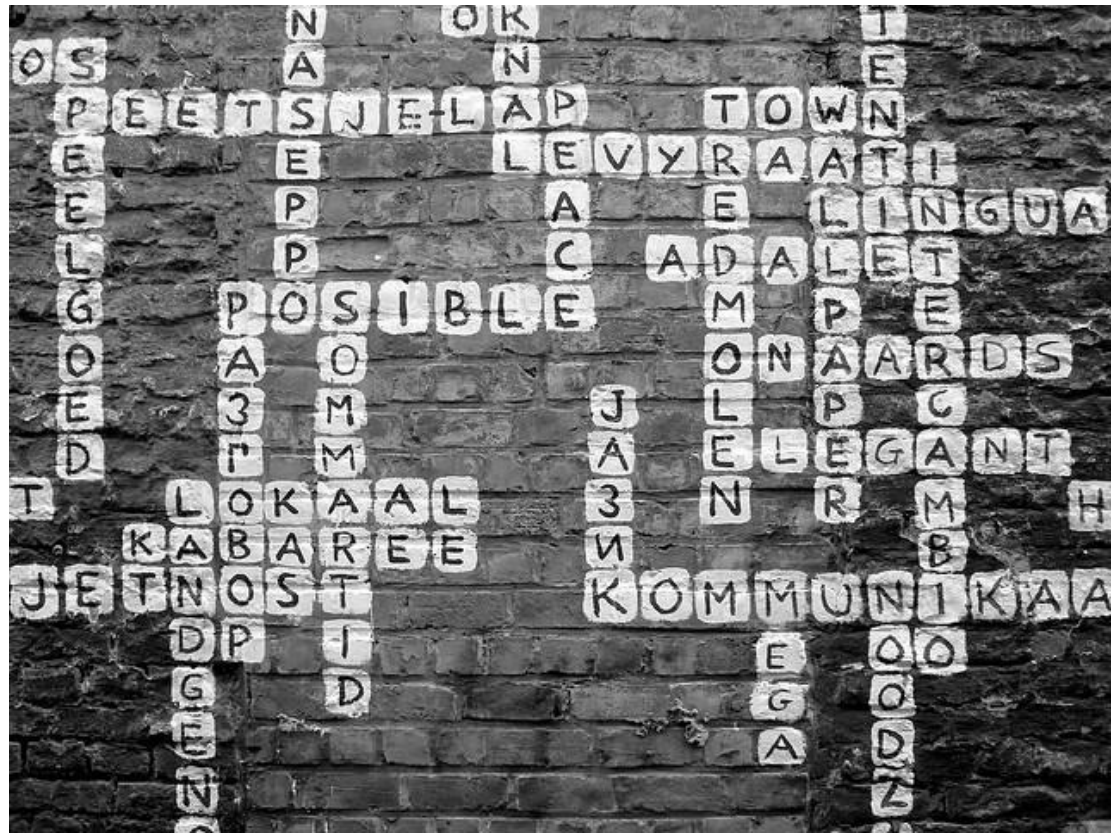- Best outcome for our pilot!

Image -

Saves time

- DMPs save lots of time

- Especially if:

  - Connect to research systems (ethics, etc)

  - Could speak CASRAI

Same language

- DMP allow researchers, librarians and funders to communicate about research data in the same language

Questions

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http://researchdata.library.ubc.ca/

Image - https://www.flickr.com/photos/emagic/