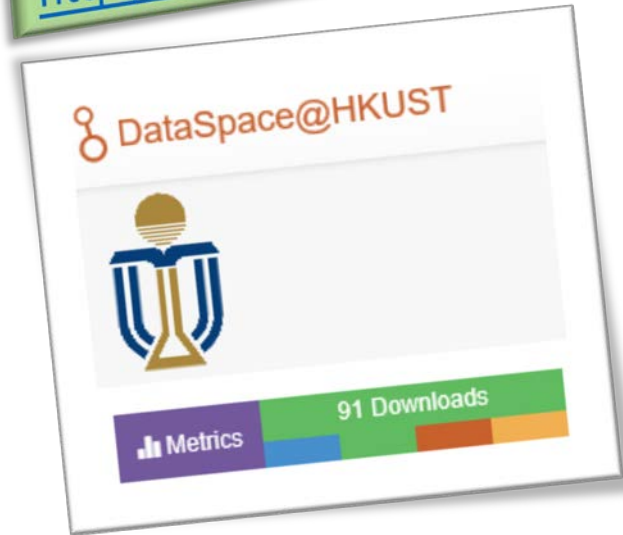


<http://dataspace.ust.hk>



Research Data Management Seminar
HKUST Library
12 April 2016

DataSpace@HKUST

Research data repository and management service

K.T. Lam, HKUST Library (lblkt@ust.hk)

Library Research Support Faculty Survey 2015

<http://library.ust.hk/ithaka/results-summary.html>

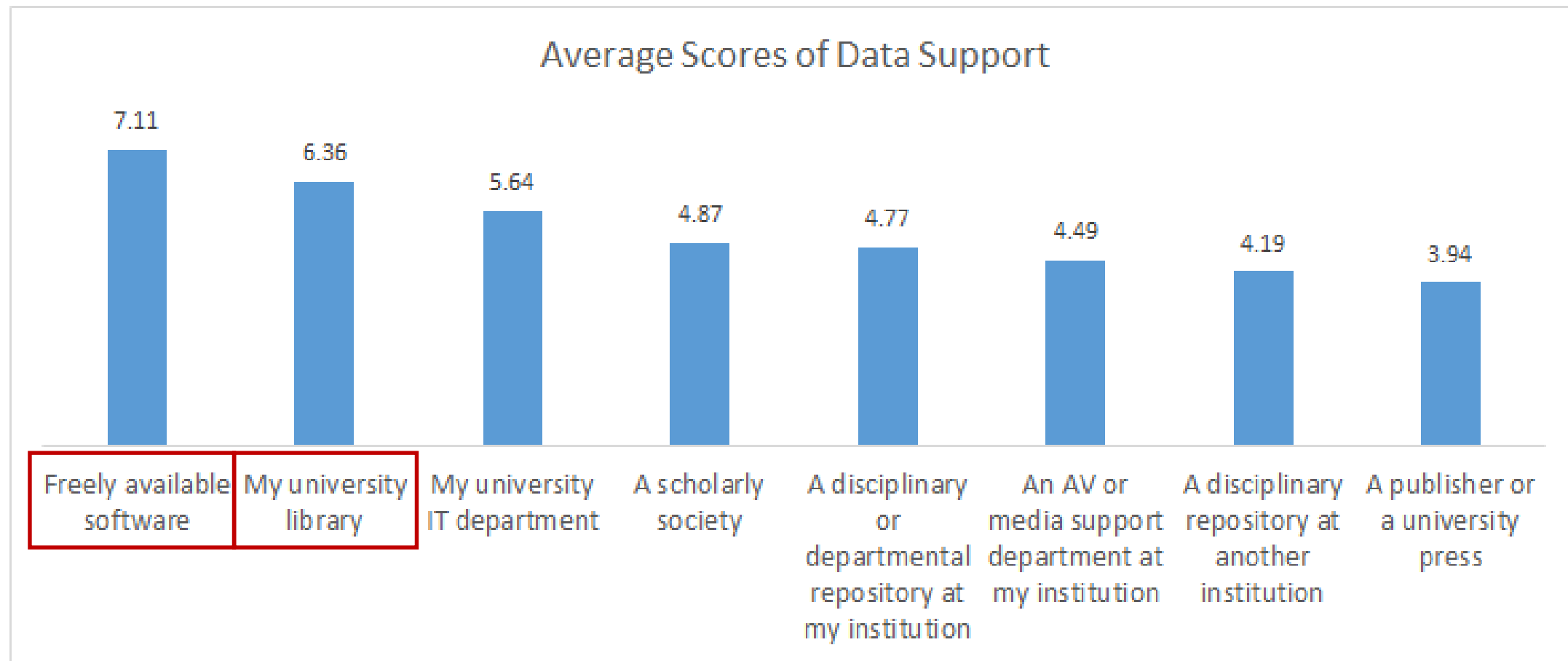


- Responses on **data preservation and management**
 - 65% of the respondents build up collections of research data in the course of their research.
 - 56% of the respondents build up collections of image or media
 - Most important data sources are those collected by the researchers themselves and those that are freely available online
 - Most important data management features are
 - Ability to track academic research citing my data
 - Ability to store multiple versions of my data in the same place
 - Ability to store my data with my corresponding published outputs
 - Most of the researchers manage their data on their own computers
 - More than one half of researchers manage their data on the cloud storage service (such as Google Drive, Dropbox, Flickr, etc.)
 - Majority perceived data support provided by
 - Freely available software
 - University Library
 - Majority preserve data by themselves, using commercially or freely available software or service

Library Research Support Faculty Survey 2015

DATA6 – Perceived Values of Data Support

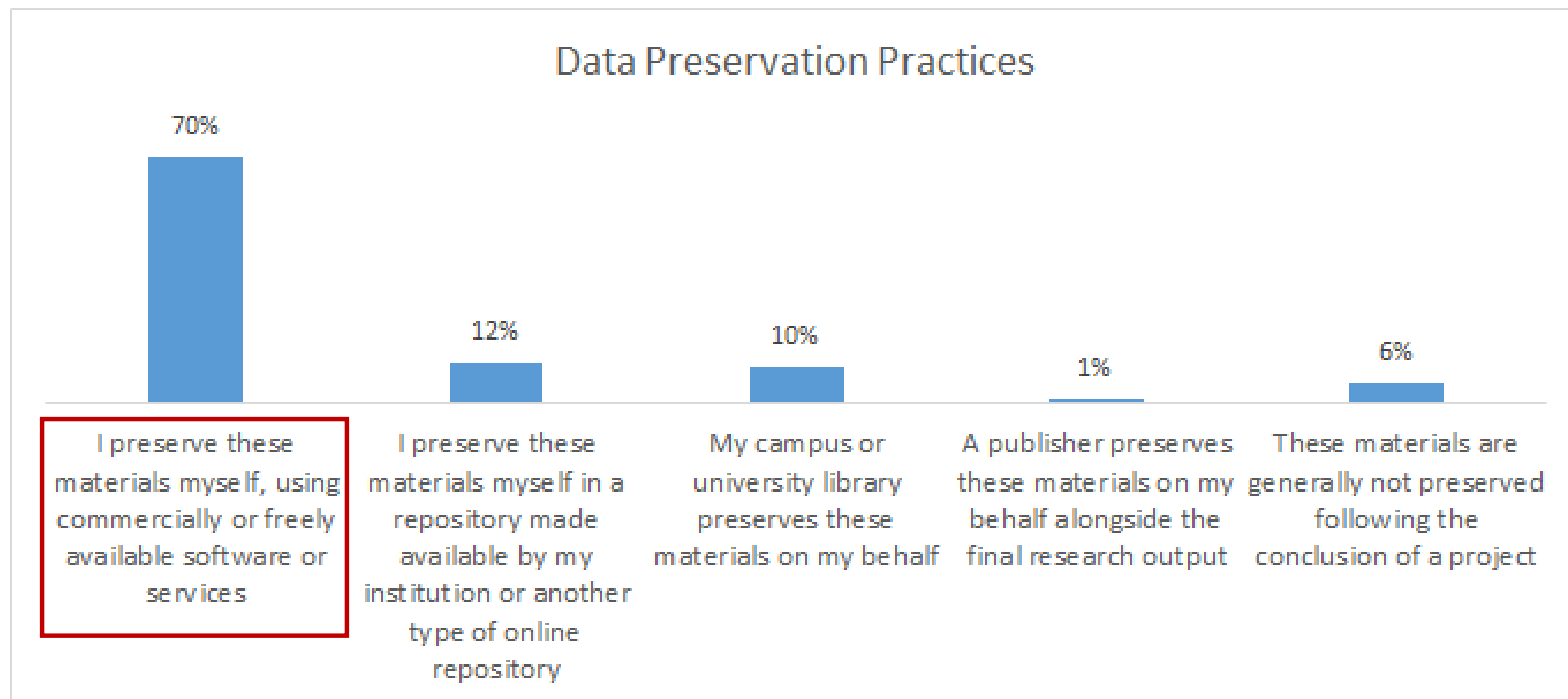
The question lists 8 sources of data support. *Free software* was ranked the highest on average, followed by *library*.



Library Research Support Faculty Survey 2015

DATA7 – Data Preservation Practices

There are 5 methods listed here. The majority (70%) of the respondents preserve data themselves; all other options have relatively few votes.



Requirement on research data by publishers and funding agents

- Others can replicate your research findings
- Data broadly available for sharing
- Long term access is sustainable

Publishers

Nature's Authors Policy - Availability of data, material and methods

An inherent principle of publication is that others should be able to **replicate** and build upon the authors' published claims. A condition of publication in a Nature journal is that **authors are required to make materials, data, code, and associated protocols promptly available to readers without undue qualifications....**"

<http://www.nature.com/authors/policies/availability.html>

Funding agents

NSF Data Sharing Policy

"Investigators are expected to **share** with other researchers, at no more than incremental cost and within a reasonable time, **the primary data**, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing..."

NSF Data Management Plan Requirements

"...Proposals must include a **supplementary document** of no more than two pages labeled "Data Management Plan"... and may include ... 5. **plans for archiving data**, samples, and other research products, and for **preservation of access** to them..."

<http://www.nsf.gov/bfa/dias/policy/dmp.jsp>
http://www.nsf.gov/pubs/policydocs/pappguide/nsf15001/gpg_2.jsp#dmp

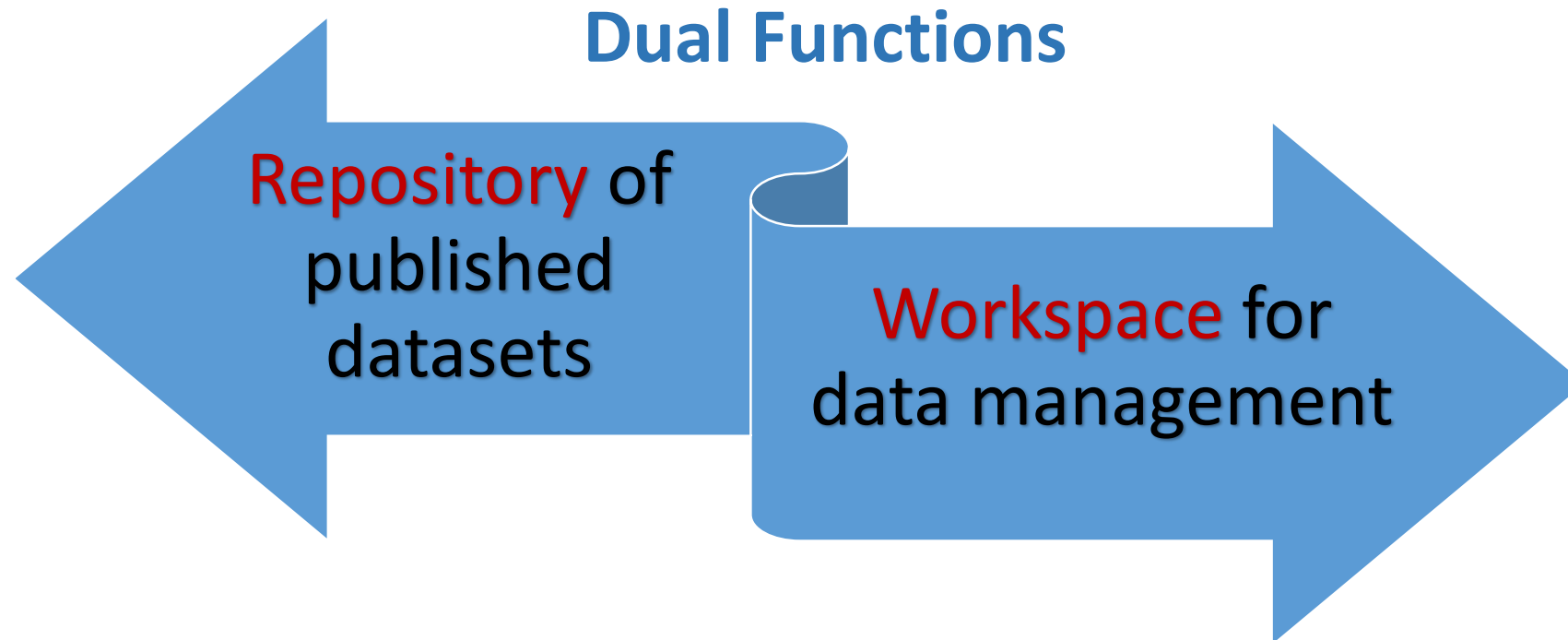
Data Repositories



- Specialist repositories
 - [GenBank](#), [NeuroMorpho.org](#), [HepData](#), [EarthChem](#), [PubChem](#), [ICPSR](#) ([openICPSR](#)), [Harvard Dataverse](#), etc.
- Generalist repositories
 - [Dryad](#), [figshare](#)
- Institutional (project-based) repositories
 - [DataSpace@HKUST](#)

More examples: <http://www.nature.com/sdata/data-policies/repositories>

DataSpace – Research data portal






[Advanced Search](#)
 [Dataverses \(3\)](#)
 [Datasets \(4\)](#)
 [Files \(98\)](#)

Publication Date

2015 (4)

Author Name

[Hong Kong University of Science and Technology Library \(2\)](#)

[Campbell, Cameron Dougall \(1\)](#)

[Chan, Chak Keung \(1\)](#)

[Dong, Hao \(1\)](#)

[Fang, Ming \(1\)](#)

[More...](#)

Subject

[Social Sciences \(3\)](#)

[Arts and Humanities \(1\)](#)

1 to 4 of 4 Results

Sort ▾

HKUST Library Research Support Faculty Survey (2015)



Dec 7, 2015 - [Library Dataverse](#)

Hong Kong University of Science and Technology Library, 2015, "HKUST Library Research Support Faculty Survey (2015)", <http://dx.doi.org/10.14711/dataset/B95L5U>, DataSpace@HKUST, V1 [UNF:6:GQ9ZLs/AP3WAPe/4IHQD1A==]

In March and April 2015, the Library conducted a survey with HKUST faculty on library research support services. This was a joint survey involving libraries at 4 UGC-funded institutions, using the Ithaka Faculty Survey Series.

Longitudinal Links to Construct the Korean Multi-Generational Panel Dataset – Tansung (KMGPD-TS) from the Tansung Household Registers



Dec 7, 2015 - [Lee-Campbell Research Group Dataverse](#)

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", <http://dx.doi.org/10.14711/dataset/IVIDZV>, DataSpace@HKUST, V1 [UNF:6:dS zr9Zfp14QhmtlZRtXBRg==]

The longitudinal and interpersonal links provided here transform the cross-sectional Tansung Household Registers (THR) data to a multi-generational panel dataset which we refer to as Korean Multi-Generational Panel Dataset-Tansung (KMGPD-TS). This linkage work was carried out and...

Launched in February 2016
with 4 datasets

Based on open source software from **Harvard University**. Over 14 installations worldwide.

Harvard Dataverse:
<https://dataverse.harvard.edu/>



Mobile Real-time Air Monitoring Platform Dataverse

Research group

Dataset deposited (published) by the group

HKUST Dataverse > Mobile Real-time Air Monitoring Platform Dataverse



Search this dataverse...



Find

Advanced Search

Dataverses (0)

Datasets (1)

Files (53)

Publication Date

2015 (1)

Author Name

Chan, Chak Keung (1)

Fang, Ming (1)

1 to 1 of 1 Result

Sort

Street Level Air Quality Data Collected by the Mobile Real-time Air Monitoring Platform (MAP)



Dec 7, 2015

Fang, Ming; Yao, Xiaohong; Chan, Chak Keung; Lau, Ngai Ting ; Lau, Arthur P. S. , 2015, "Street Level Air Quality Data Collected by the Mobile Real-time Air Monitoring Platform (MAP)", <http://dx.doi.org/10.14711/dataset/I5VZXZ>, DataSpace@HKUST, V1 [UNF:6:dLd0PVcvPZR9n88lQpJclg==]

Data collected by the Mobile Real-time Air Monitoring platform (MAP) from 2003-2006. This project was done by the research team of the Institute for Environment and Sustainable Development and the Department of Chemical Engineering of the Hong Kong University of Science and Techn...

Usage 43 Downloads

Street Level Air Quality Data Collected by the Mobile Real-time Air Monitoring Platform (MAP)

Fang, Ming; Yao, Xiaohong; Chan, Chak Keung; Lau, Ngai Ting ; Lau, Arthur P. S. , 2015, "Street Level Air Quality Data Collected by the Mobile Real-time Air Monitoring Platform (MAP)", <http://dx.doi.org/10.14711/dataset/I5VZXZ>, DataSpace@HKUST, V1 [UNF:6:dLd0PVcvPZR9n88IQpJclg==]

If you use these data, please add this citation to your scholarly resources. Learn about [Data Citation Standards](#).

Citation

DOI

Tabs – Files, Metadata, Terms, Versions


Data files

Open access

File Name	Format	Size	Date	Downloads	Variables	Observations	UNF
data_2003_07_11.tab	Tabular Data	8.9 MB	Dec 7, 2015	35	32	32556	Sue+JOH+4jLoMGv8O7hCsg==
data_2003_07_22.tab	Tabular Data	6.3 MB	Dec 7, 2015	1	32	23130	ynJkZYwVpaFPpmxn/XWMjA==
data_2003_07_23.tab	Tabular Data	7.7 MB	Dec 7, 2015	0	32	28645	wu1cXEu6g+o9ot9WCFY5vw==

Repository - for you to publish datasets

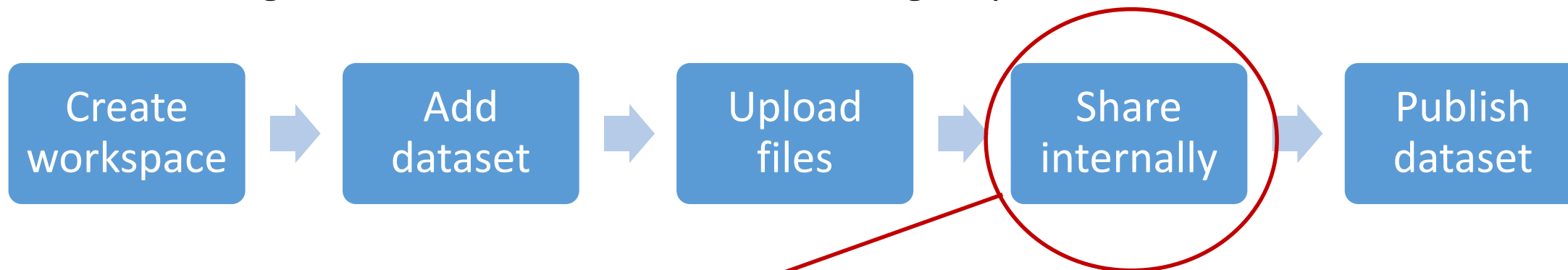
- Service for all HKUST researchers
- **Openly accessible** perpetually
- **DOI assigned** – persistent identifier facilitating discovery
- Standardized **citation** and **metadata** – created by the Library
- **Trusted** repository - with HKUST branding

Dataset Persistent ID	doi:10.14711/dataset/I5VZXZ
Publication Date	2015-12-07
Title	Street Level Air Quality Data Collected by the Mobile Real-time Air Monitoring Platform (MAP)
Author	Fang, Ming (HKUST) Yao, Xiaohong (HKUST) Chan, Chak Keung (HKUST) - ORCID: 0000-0001-9687-8771 Lau, Ngai Ting (HKUST) Lau, Arthur P. S. (HKUST)
Contact	 Use email button above to contact. Chan, Chak-Keung (HKUST)
Description	Data collected by the Mobile Real-time Air Monitoring platform (MAP) from 2003-2006. This project was done by the research team of the Institute for Environment and Sustainable Development and the Department of Chemical Engineering of the Hong Kong University of Science and Technology. See the readme file for information about the data. The data can be visualized by the GIS software developed by the data contributors. Their contacts are available in the readme file.
Subject	Earth and Environmental Sciences; Medicine, Health and Life Sciences
Keyword	Air quality Hong Kong Street level air quality Pollution Mobile Real-time Air Monitoring Platform
Language	English
Depositor	DataSpace Team
Deposit Date	2009-05-06
Kind of Data	Geographic information data; Meteorological data; Air quality data

**Standard metadata
created for you by
the Library's
DataSpace Team**

Workspace for data management

- For **faculty members** and their **research project groups** (including their **research postgraduate students**)
- Store, manage and share data within research group in a **restricted** environment



- Manage and share your data internally
 - **Data storage** throughout the research life cycle (50GB per dataset)
 - **Share** findings with collaborators
 - **Student** assignments
 - Fulfill **data management plan** specified in grant proposals
 - **Replication of data** readily available to go with the **manuscript submission**

Creating a dataverse for your research project data

Provide information about your research project, and assign roles to your team members: Contributors can add, update or delete datasets and change dataset access permission; Managers have the authority of contributors, plus the permission to edit your dataverse.

Project Information

Project Title China economic history research group

Alias econ-han

The Alias will be part of the URL of the dataverse. Use alphanumeric characters without space; e.g. alias "project5" will produce the URL "https://dataspace.ust.hk/dataverse/project5"

Project Description Datasets collected and generated by the CEHR Group

Get Started by creating your workspace (dataverse)

Project Team

Manager(s)

A manager can add, update or delete datasets, change dataset access permission, and edit the dataverse.

ITSC Account

lblkt

Non-HKUST

Last name Lam

First name Ki Tat

Email lblkt@ust.hk

Department LIB

Institution HKUST

Delete

Clear

Add

Contributor(s)

A contributor can add, update or delete datasets, change dataset access permission.

ITSC Account

frankycheung

Non-HKUST

Last name Cheung

First name Wing Hong

Email frankycheung@ust.hk

Department LIB

Institution HKUST

Delete

Clear

Add

- Specify the project and team members
- Managers – manage the workspace
- Contributors
 - Can upload and view datasets
 - Allow your non-HKUST collaborators to join

Metrics 0 Downloads

Submit for Review Edit

Tax policies of Warring States period Draft Unpublished

LAM, Ki Tat, 2016, "Tax policies of Warring States period", [identifier: QNIEYS], DataSpace@HKUST, DRAFT VERSION [UNF:6:wPpfcYY+vJvJhQAP1ZSNg==]

Download Citation



If you use these data, please add this citation to your scholarly resources. Learn about [Data Citation Standards](#).

Files Metadata Terms Versions

Search this dataset... Find

2 Files

Upload Files Edit Files Download

<input type="checkbox"/>		mytable1.tab Tabular Data - 89 bytes - Mar 23, 2016 - 0 Downloads 3 Variables, 7 Observations - UNF:6:EBdtsV9T33+fLpyoKXcUvw==	<input type="checkbox"/>	<input type="button" value="Download"/>
<input type="checkbox"/>		mytable2.tab Tabular Data - 95 bytes - Mar 23, 2016 - 0 Downloads 2 Variables, 7 Observations - UNF:6:TQjtg4zn9emvMeycuebokg==	<input type="checkbox"/>	<input type="button" value="Download"/>

Managing dataset in workspace

1. Tabs - Files, Metadata, Terms of use, Versions
2. Manage permission – i.e. **determine who can access this dataset**
3. **Citation** – readily available [Note: no DOI, as it has not yet been published]
4. Upload, update, delete and **set restrictions to files**
5. **Download files** – restricted to members you specified in 2.
6. Request Library to **publish** the dataset

Data services provided by the **DataSpace Team**

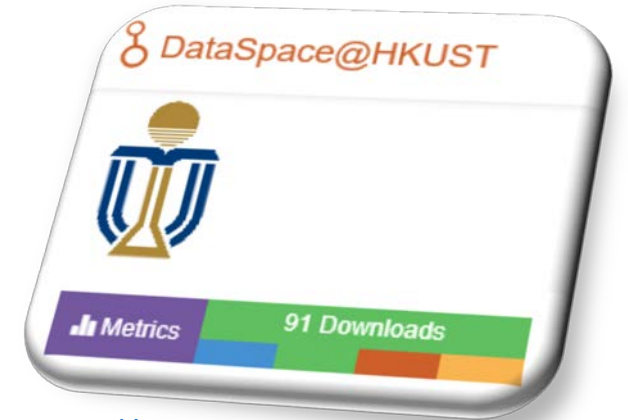
- Help HKUST researchers to deposit (publish) datasets
 - Create standard metadata
 - Assign DOI
 - Format / normalize data files
 - Upload big data files
 - Make datasets accessible via SPD (Scholarly Publications Database)
- Have questions or request a demonstration, contact the Team at lbds@ust.hk

Library Services Supporting Research Output



<http://lbezone.ust.hk/rse/electronic-theses>

Electronic Theses



<http://dataspace.ust.hk>

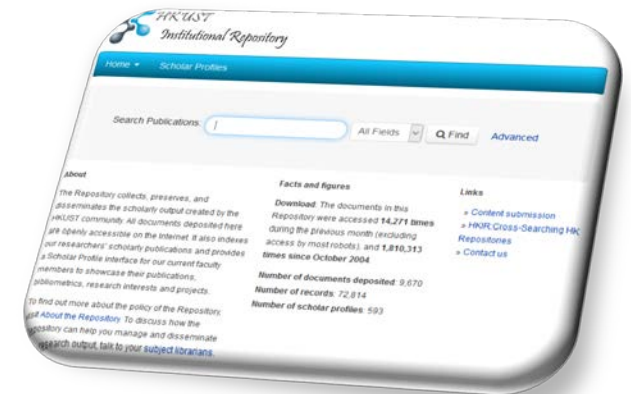
DataSpace



<http://repository.ust.hk/ir/sp>

Scholarly Publications Database

Institutional Repository



<http://repository.ust.hk/ir>

Thank you!

Questions?