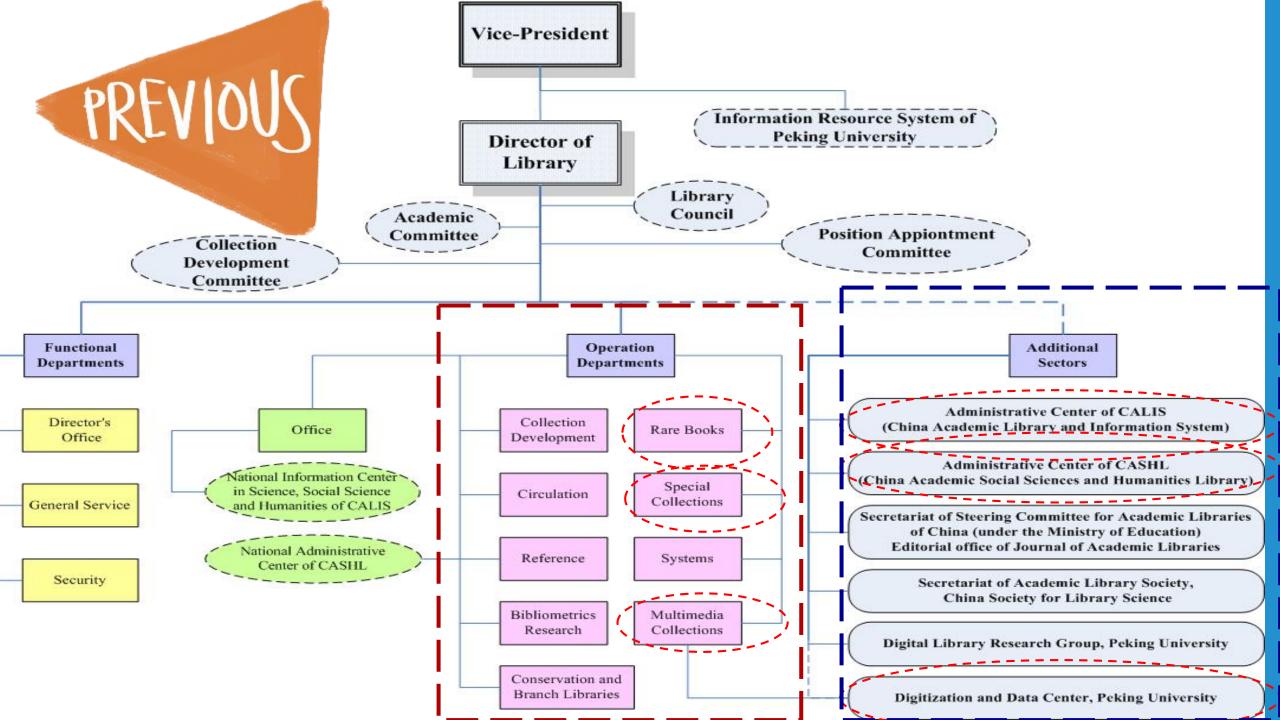
Facing Data Challenges: The Current Actions & Future Perspectives of Academic Libraries

Nie Hua@Peking University Library, China PRRLA 2016.12.05 @UoM, Melbourne

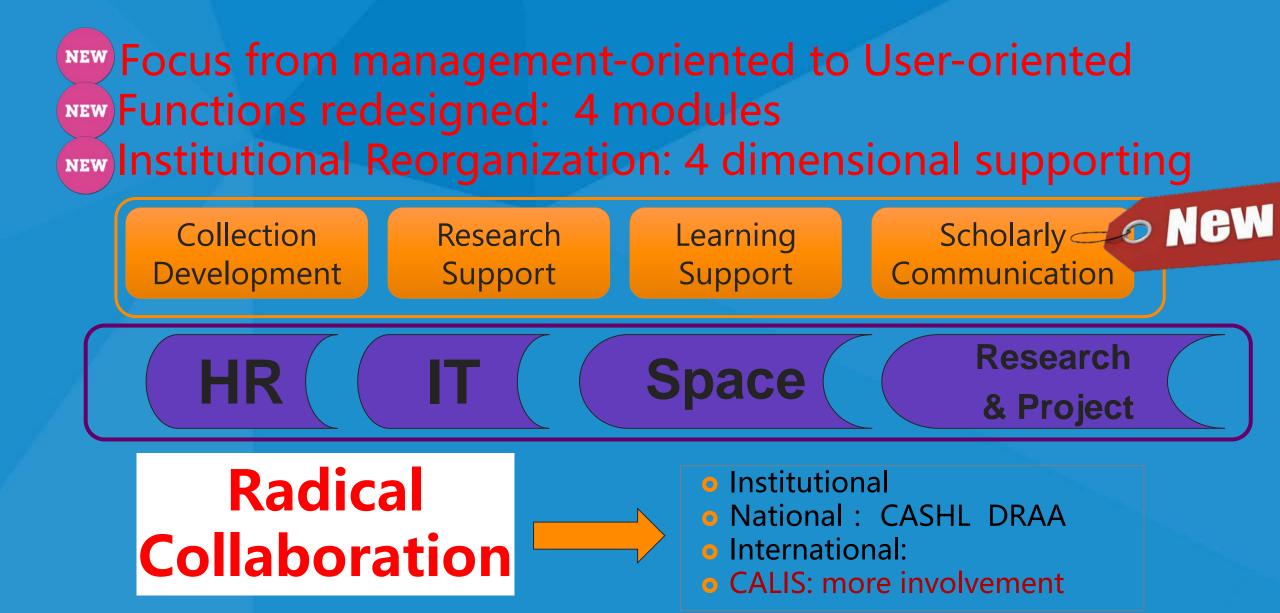


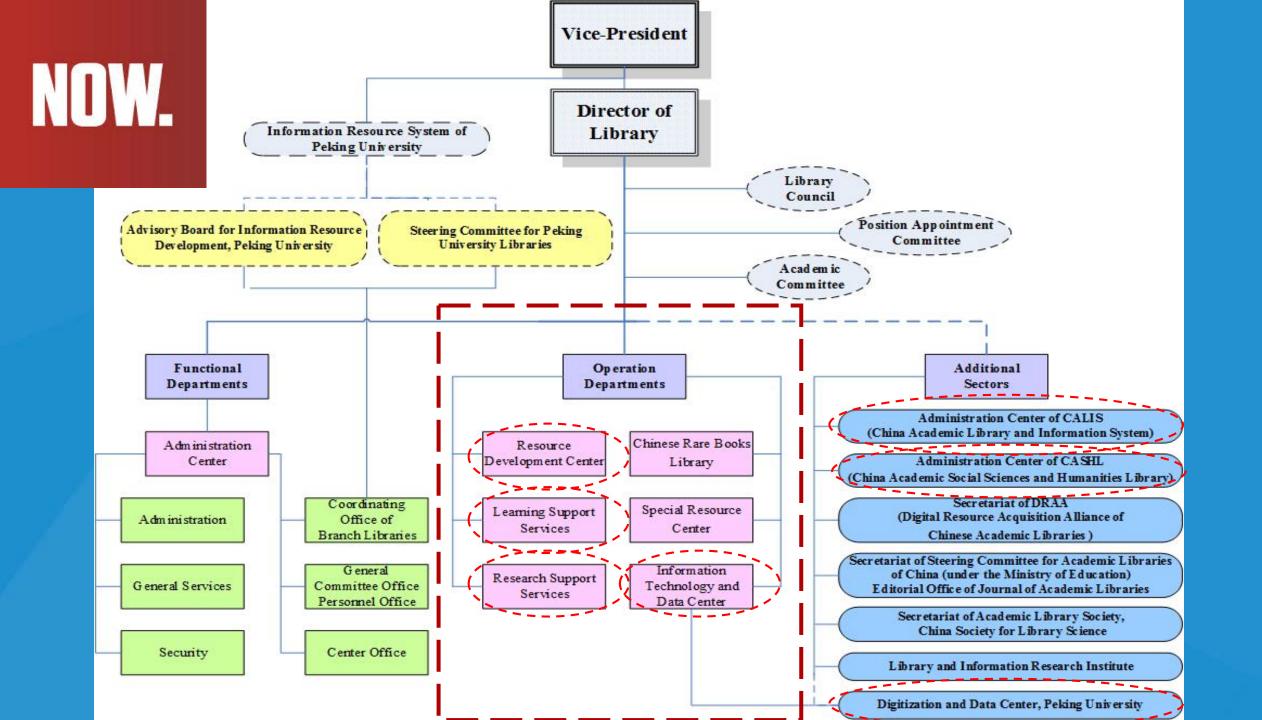
Outline:

Background Library Re-energy and Re-Position Open Science, Open Access, Open data RDM Implementation and Services in Peking University Future Perspectives



PKU Library 2018 Action Plan





Highlights of 4 modules

02. Research 01.Resource **Development Support** 研究 资源 **Support for Disciplinary** New disciplinary 建设 支持 **Development** resources dev. **Decision-Making** •OA Resources **Information Literacy** 学习 学术 03.Teaching & 4. Open Learning Access & 支持 交流 **Support Scholarly** Communication Space as a resource PKU function redesign & Open Academic Journals management Outputs **Ecosystem Scholars**

PKU Academic Outputs Ecosystem

Open Repository@2011 Open Journals@2012 Open Scholars@2015.12.25

PKU Academic Outputs Ecosystem

Open Research Data@2015.12.25



Need Assessment: Campus Survey@2013

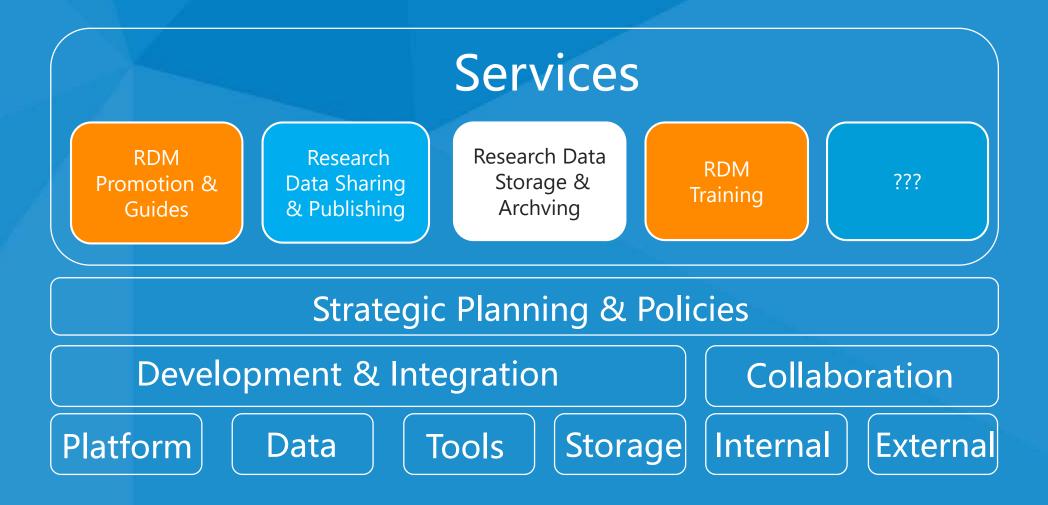
- awareness and practices of data curation & sharing;
- features of specific scientific data
- current status of data management
- re-use of the data
- expectation to research data management services

Need Assessment: Interviews @ 2013



Interviews showed three major trends of research data management. 1.research data sharing behavior: strong disciplinary-oriented features. 2.researchers generally require an embargo period with data sharing. 3.data sharing behavior: spontaneous, lacks proper incentives and necessary maintenance, lacks a well-managed mechanism for data citation, academic recognition and feedback.

PKU Library RDMS Plan:



Cooperation:

Peking University Library (PKUL)

- Institute of Social Science Survey (ISSS)
- Office of Scientific Research, Office of Social Science

PKUL Research Data Management Services



ISSS NSFC Management Science Data Center Data Services

PKU Open Research Data Platform Services Data Center for Management Science

Objectives:

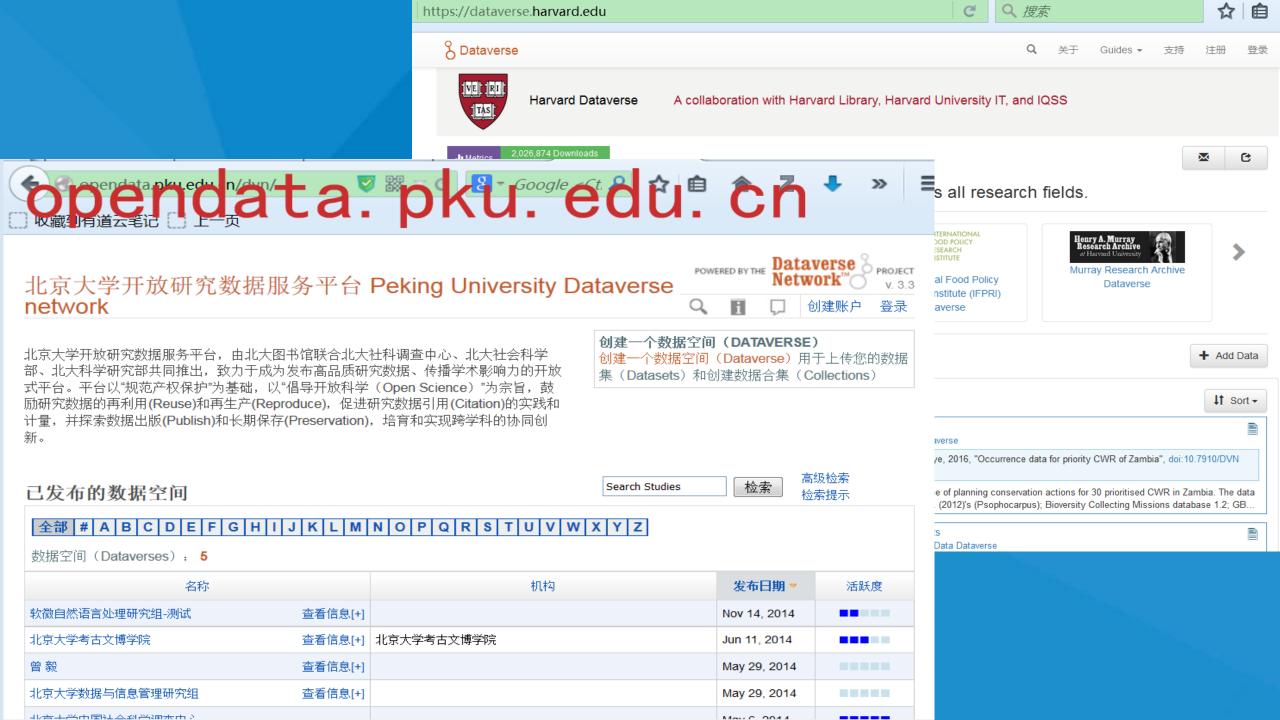
- Publish high-quality research data to disseminate academic outputs through open platform
- Promote open science to encourage reuse and reproduction of research data
- Foster practices and metrics of research data citation
- Explore data publishing and long-term preservation solutions

PKU Open Research Data Platform Data Center for Management Science

Data services Provided:

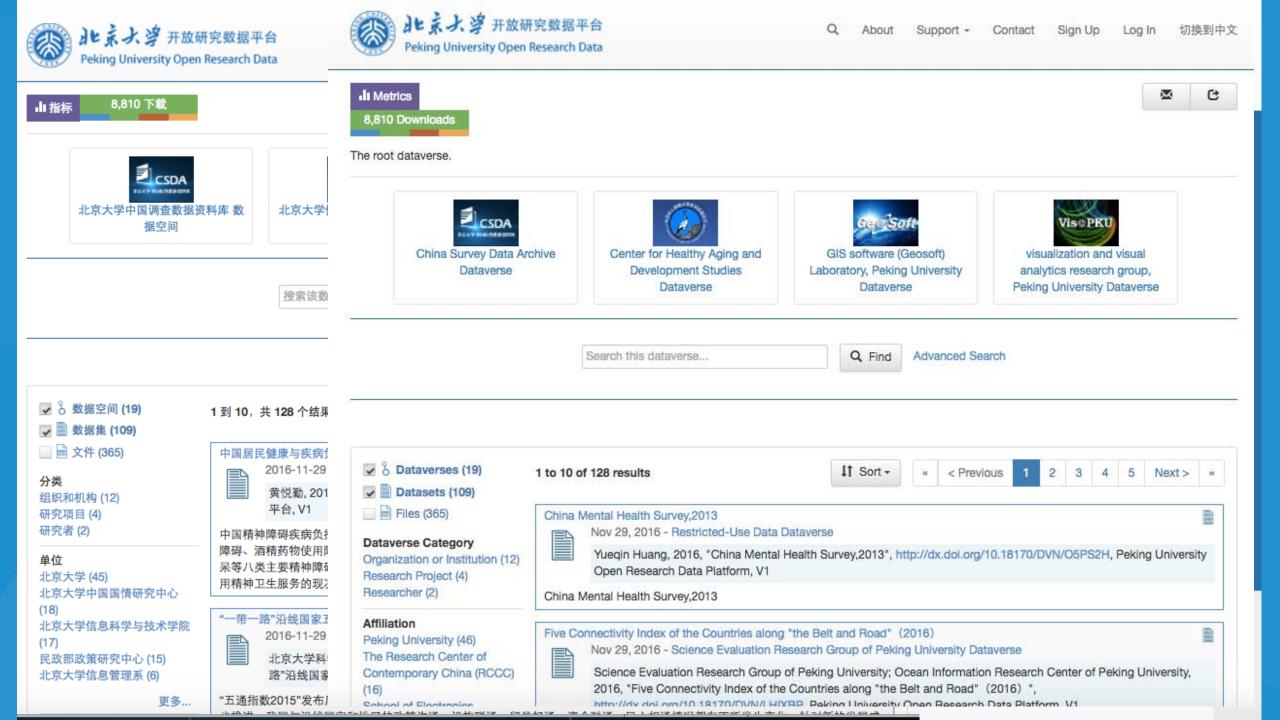
- ISSS: collection and cleaning, standardization and analysis, and data repository platform testing and feedback
- PKUL: requirements and functional design as well as the development and maintenance of data repository, data storage, classification, management and associated services.
- Both Parties: Training and workshop and Other value added services on demand

Data Repository Platform: DSpace for PKU Institutional Repository OpenScholars for Scholars@PKU Open Data Platform on Trial: Dataverse **Data Conservancy** • CKAN **D**Space



Major Localization@ Dataverse 4.0

- Bilingual interface and content
- improve user group management functions
- add data request function with application of joining user group
- support online view, export + visualization of usage data
- featured dataverses in home page
- DOI registration
- SSO Authentication for PKU users





106

106 Data Sets

365 Data Files 800 Registred Users



中国家庭跟踪调查 China Family Panel Studies



可视化与可视分析研究组 Visualization and visual analytics research group





China Health and Retirement Longitudinal Study, CHARLS



北京大学数据与信息 管理研究组数据

Data and Information Management Group



中国国情研究中心 调查数据

「中国家X11日 The Research Center For Contemporary China



北京大学地理信息系统软件 (Geosoft)实验室 GIS software (Geosoft) Laboratory

Deposited Contents of PKU Open Research Data

Featured Services & Functions:

03 Data Related Publication Data Deposite, Curate, Publish

01

03 Online analysis Visulization

01 Multiple Search Functions

O2 User managt. Usage Statistics

04 Data Set-DOI Registration

For : Data Provider

02

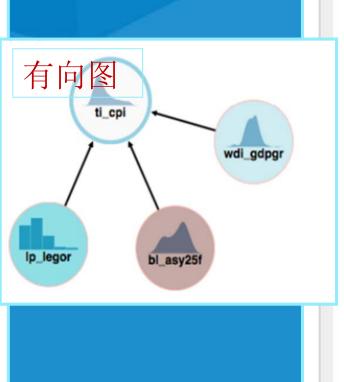
Bilingual Interfaces & contents Data Versions Check and Compare

04

For : Data User

Online Data Analysis: Two Ravens







Multi Search Functions:

查找	
Dataverses 🗙	Data Set Info.
Datasets 🗙	Data File Nam
Datasets: Citation Metadata 🗙	
Datasets: Geospatial Metadata 💙	Variables
Files 🗙	
查找	

Dataverse-Institution info. **Provider Info.**

le Name

Tracking Data related Publications:



2015, "中国健康与养老追踪调查(

2013全国追踪)",

北京大学 开放研究数据平台 Peking University Open Research Data

- 1000+ Publications
 Citing PKU Open Research Data
- Bidirectional association established between
 IR and Open Data

马超, 宋泽, 顾海. 医保统筹对医疗服务公平利用的政策效果研究[J]. 中国人口科学, 2016(1):108-117.



 Institutional Repository of Peking University User and Usage:

Guest User: 100,00+ Registred User: 800+

- Institutions of Users : 60 countries, 97 research institutions
- Top five countries of visitors: China, US, UK, Singapore and Japan
- Disciplines: Economics, Sociology, Statistics, demography, Management Science, Engineering, Computer Science, Library Science, Chinese, etc.



19 Data Space



106 Data Sets

365 Data Files **800** Registred Users





China Family Panel Studies



188000 Views

Visualization and visual analytics research group





China Health and Retirement Longitudinal Study, CHARLS



北京大学数据与信息 管理研究组数据

Data and Information Management Group



中国国情研究中心 调查数据

The Research Center For Contemporary China



Deposited Contents of PKU Open Research Data

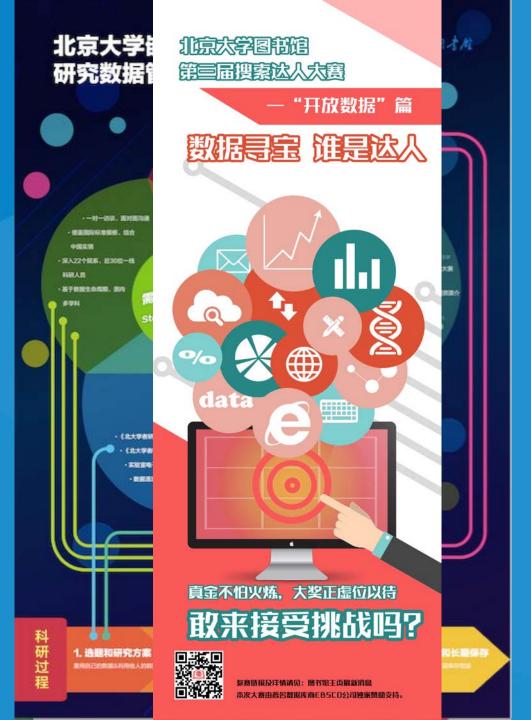
Awareness:

1st Price of The 2nd Chinese Academic Library Services Innovative Case <u>Contest @2016.11.03</u>

PKU Data Finding Contest @ 2016.12.16

"Publication of scientific theories, and of the experimental and observational data on which they are based, permits others to identify errors, to support, reject or refine theories and to reuse data for further understanding."

> Science as an Open Enterprise by The Royal Society, June, 2012



Re3data.org registered/indexed

- Registered on re3data.org @2015.5.15
- re3data.org has reached a milestone of identifying and listing 1,500 research data repositories
- From China: 25 \uparrow .

Filter	peking university	Q Search	
Subjects 🗄		Toogle short help	
Content Types ⊞			
Countries	← Previous 1	Next → Sort by ▼	
API 🕀			
Data access ⊞	Found 2 result(s)		
Data access restrictions	() · · · · · · · · · · · · · · · · · ·		
Database access 🗄	Peking Univers	sity Open Research Data 📃 🔒 🔘 🔤 💲	
Database licenses ⊞	PKU-Opendata		
Data licenses ⊕	Subject(s)	Humanities and Social Sciences Engineering Sciences	
Data upload ⊞	Social and Behavioural Sciences		
Data upload restrictions 🕀		Computer Science, Electrical and System Engineering	
Enhanced publication 🕀			
Institution responsibility type ⊞	Content type(s)	Plain text Standard office documents Scientific and statistical data formats Databases Structured graphics	
Institution type 🗄	Querra tra	Country International China	
Keywords 🕀	Country		
Metadata standards 🕀	In order to meet the	needs of research data management for Peking University. The PKU library	
PID systems ⊞		SFC-PKU data center for management science, PKU science and research	
Provider types ⊕		cial sciences department to jointly launch the Peking University Open Research	
Quality management 🗄	Data Platform. PKU Open research data provides preservation, management and distribution services for research data. It encourage data owner to share data and data users to reuse data.		
Repository languages 🗄			

Schema

API

Contact

re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES

Feedbacks:

北大主页对平台进行了宣传和介绍。学生微信公众号燕园每日话题对平台上线的新闻进行了关注,首日访问量超过万次。哈佛大学IQSS的资深数据科学家在twitter上对我们进行了推介。南洋理工大学图书馆专程到北京大学图书馆进行了为期四天的学习和考察。哈佛大学dataverse开发团队博客对我们进行报道。

中国移动 4G 🕂 ≶ ≶ 🚇 🛞 🛈 49 🕍 🔒 下午 9:42	访客招聘捐赠	门户 网络 BBS 图书馆 医学部 领导信箱 12
X 燕园每日话题 :	波	
Research Data)测试版	•	dataverse.org/blog/q-peking-university-dataverse 口 C Q 搜索
武法よ算 用田田田田市台 「Ang University Open Images Data Pring University Open Images Data		Dataverse Project About Community Best Practices Software Contact
○ 精品整要空间		

2016.11.30 10th Anniversary of ISSS:

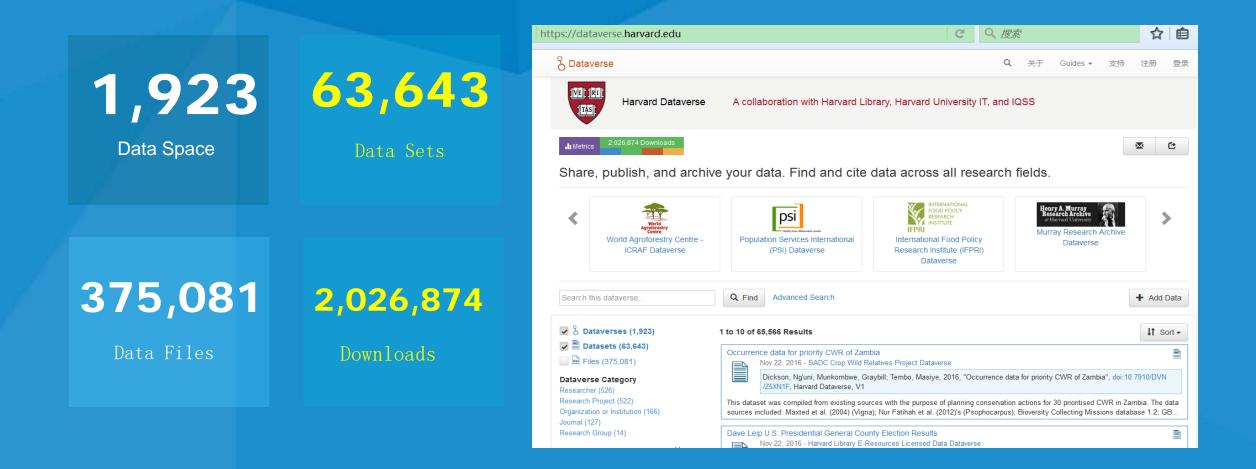
Beyond collecting well-designed, large-scale survey data and other data,
Beyond disseminating them freely, while protecting the privacy and confidentiality of research participants,

•[research data]...... are critically important training grounds for new cohorts of highly productive scientific researchers and scholars, and Chinese social science research has become highly visible and respected internationally.

•This is the state of the art – of the science. The capacity for others to reproduce one's finding's is essential for the proper conduct of science.

Robert Mason Hauser, Professor of Sociology at the UW-Madison

Reference: Harvard DataVerse



Reference: ICPSR



Summary and Thoughts:

- From IR to Journals to scholars to data : Library's role on "Made in PKU"
- Collaboration & Engagement: the Keys
- Awareness & Policies : especially on the institutional level

Ancient Materials Library

阿卜杜勒·阿齐兹国王公共图书馆分馆暨北京大学古籍图书馆

透视效果图

Grand Opening @ 2017.03





Library Space Renovation & Revitalization

East Wing completed by 2018 West Wing reconstruction in plan





